Boehringer Ingelheim

March 25, 2021

Boehringer Ingelheim
Animal Health USA Inc.

www.boehringer-ingelheim.us

Leann McAlister
3239 Satellite Blvd.
Duluth, GA 30096

Attn: Robert Miller
VIA CDX PORTAL
Document Processing Desk – 6(a)(2)
Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-3553

SUBJECT: Resubmission of all 2018 and 2019 FIFRA Section 6(a)(2) Aggregate Incident Reports for Frontline Spot-On Products

Per your request during our meeting on March 24, 2021, we are resubmitting all of the EPA Quarterly Aggregate Reports for 2018 and 2019 in support of EPA's preparation for a congressional inquiry into all spot-on pet products resulting from the recent Seresto collar articles.

Please note that all of these reports have been previously submitted via hard copy to include both Merial, Inc. and Boehringer Ingelheim Animal Health USA Inc.

If you have any questions regarding this report, please contact me at 678-638-3701 or via email at leann.mcalister@boehringer-ingelheim.com.

Sincerely,

Leann McAlister

Leann McAlister
Regulatory Affairs

Enclosure

MERIAL
3239 Satellite Boulevard
Duluth, Georgia 30096
Tel. : 1-678-638-3000

February 19, 2019

Document Processing Desk – 6(a)(2)
Office of Pesticide Programs
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-3553

SUBJECT: FIFRA Section 6(a)(2) Aggregate Incident Reports for 4Q18 (01Oct18 through 31Dec18)
Human and Domestic Animals in the US and Extraterritorial Associated with the Following Merial, Inc. Registrations:

- FRONTLINE® Spray Treatment, EPA Reg. No. 65331-1
- FIPAIRA® for Cats (formerly FRONTLINE® Top Spot for Cats), EPA Reg. No. 65331-2
- FIPAIRA® for Dogs (formerly FRONTLINE® Top Spot for Dogs), EPA Reg. No. 65331-3
- FRONTLINE® Plus for Cats, EPA Reg. No. 65331-4
- FRONTLINE® Plus for Dogs, EPA Reg. No. 65331-5
- CERTIFECT® for Dogs, EPA Reg. No. 65331-7

Please find enclosed the FIFRA 6(a)(2) Aggregate Incident Report for 4Q18, submitted in duplicate per the EPA's request on 30Nov12. Aggregate reports for humans (HD/HE: Minor/Unknown) and domestic animals are submitted quarterly. This report is also being provided as a .pdf file on CD-ROM per EPA's communication on 03Sept14. Since these products are produced and sold worldwide, Merial is providing worldwide reporting of adverse events for the aforementioned products.

If you have any questions regarding these reports, please contact me at (678) 638-3948 or via email at timothy.dotson@merial.com.

Sincerely,

Timothy A. Dotson
Regulatory Affairs North America

Enclosure

www.merial.com

FRONTLINE BRAND PRODUCTS

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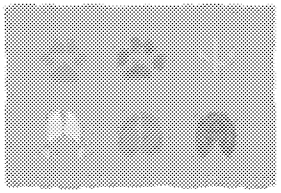
EPA Quarterly Aggregate Report



Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (USA)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: Frontline Products (include non-specific)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	130	0	3	3	3	121
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	178	11	4	4	12	147
FIPRONIL SPOT ON DOG / 65331-3	1	0	0	1	0	0
FIPRONIL SPRAY / 65331-1	9	0	1	1	0	7
Totals	**318**	**11**	**8**	**9**	**15**	**275**

Report printed on 29-Jan-2019 at 9:04:46PM
Report : D:\Assured\crystal_reports\EPAreport.p1.4.rpt

USA off-Label species totals are included

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

Use in Off-Label Species (USA)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: Frontline Products (include non-specific)

Generic Name / Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	1	0	0	1
Feline	1	0	0	1
Totals	**1**	**0**	**0**	**1**

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Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (Extraterritorial)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: Frontline Products (include non-specific)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	308	0	0	4	3	301
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	442	0	0	4	4	434
FIPRONIL SPOT ON CAT / 65331-2	172	2	0	4	4	162
FIPRONIL SPOT ON DOG / 65331-3	227	1	0	0	2	224
FIPRONIL SPRAY / 65331-1	313	1	0	6	1	305
Totals	**1,462**	**4**	**0**	**18**	**14**	**1,426**

Extraterritorial off-label species totals are incldued

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Use in Off-Label Species (Extraterritorial)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: Frontline Products (include non-specific)

Country Generic Name / USA Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 10%/S METHOPRENE 12% SPOT ON / 65331-4	4	0	2	2
Feline	2	0	1	1
Rabbit	1	0	1	0
Rat	1	0	0	1
FIPRONIL 10%/S METHOPRENE 9% SPOT ON / 65331-5	3	1	0	2
Feline	3	1	0	2
FIPRONIL SPOT ON CAT / 65331-2	3	1	0	2
Not specified	1	1	0	0
Rabbit	2	0	0	2
FIPRONIL SPOT ON DOG / 65331-3	1	0	0	1
Feline	1	0	0	1
Totals	**11**	**2**	**2**	**7**

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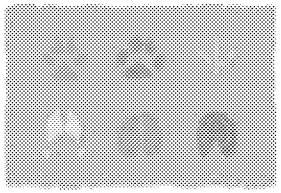
EPA Report



Worldwide Adverse Event Reports Involving - Animal Cases
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
19-Dec-2018	UAE; 17US090041; CA; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 35 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	14-Dec-2017	24-Jan-2018	2 Day(s)	D-A	Suspected Adverse Event: On 19 Dec 2018, the owner reported the following event for Buddy, a 15 year old, 35 pound, neutered male Cocker Spaniel. 22 Jan 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (lot unknown) was applied to him for the second time. 24 Jan 2018: The dog had blood coming from his mouth, he couldn't walk or stand and he passed away. The dog has been battling fleas and started FL in Dec 2017, he did not have any issues with the first dose. No further medical information available.
10-Oct-2018	UAE; 18AR000059; Provincia de Buenos Aires; Argentina	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	28-Sep-2018	28-Sep-2018	N/A	D-D	On 10 October, owner reported lack of efficacy: a 4 year old, Mixed breed, Barbi, weight 19 kg, male, received FRONTLINE SPRAY X 250 ML, batch Unknown, expiry Unknown, topical, on 28 SEP 2018, after product administration the dog continues having fleas. The quantity of fleas that can be observed on her dog are due to a large quantity of inmature forms that are found in his house. She applied a low dose of Frontline Spray, because she applied only in haled, neck and loin. She does not make environmental treatment.
10-Oct-2018	UAE; 18AT000053; -; Austria	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unspecified product; **Route:** unknown **Was the product used ok?:** Yes	05-Oct-2018	06-Oct-2018	1 Day(s)	D-A	Suspected adverse event: as reported by the attending veterinarian, a 4-year-old dog of 7 kg (other signalment unknown) received FRONTLINE SPOT ON DOG S (batch, expiry date unknown) administered by an unknown person on 05 OCT 2018 to treat fleas and pruritus. At the same time, the animal also received approx. 0.5 ml cortisone. Approx. 1 day after product administration (already in the following night reported), the animal experienced cramps, including vomiting and uncontrolled defecation. It looked like an epileptic attack, but the dog had never had one before. On 07 OCT 2018, the dog was euthanized because its condition did not improve. The attending veterinarian's level of suspicion is unknown. A few months earlier, the dog had received Bravecto but experienced general depression thereafter. Although the batch for FRONTLINE SPOT ON DOG S is unknown,

N/A signifies the information for this field is either not available or not applicable

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Sex Codes: M = Male, U = Unknown, Mixed = Mixed population - male(s) and female(s)
* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											it was reported to be the same batch as for case AUT-BIAHPV1P-18AT000054. UPDATE 06 NOV 2018: The dog was a small crossbreed, male, castrated and received FRONTLINE COMBO SPOT ON DOGS S (batch, expiry date unknown) administered by the attending veterinarian. A blood test was performed and returned normal results. The attending veterinarian's level of suspicion is high.
10-Oct-2018	UAE; 18AT000054; -; Austria	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Species not indicated / recommended)	N/A	10-Oct-2018*	N/A	D-D	Suspected adverse event: as reported by the attending veterinarian, 2 cats (other signalment unknown) received FRONTLINE SPOT ON DOG S (batch, expiry date unknown) administered by an unknown person on an unknown date (the date of reporting to company has been entered by default). An unknown time after product administration, the animals experienced particularly severe depression. The attending veterinarian's level of suspicion is unknown. Although the batch is unknown, it was reported to be the same batch as for case AUT-BIAHPV1P-18AT000053.
06-Nov-2018	UAE; 18AT000060; -; Austria	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	03-Nov-2018	03-Nov-2018*	0 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the owner, a female neutered dog of unknown breed and age, weighing 26 kg and with a good health condition received FRONTLINE SPOT ON L (batch S20905AR, 10.3 mg/kg – the whole content of the pipette was applied directly on the skin) to treat fleas on 03 NOV 2018. The owner had seen flea eggs and the animal was scratching a lot. The animal did not get wet and was not bathed within 2 days after treatment. The animal was not let outside within the 24 hours after product administration. There were 4 cats, also infested with fleas, in the same household (case AUT-BIAHPV1P-18AT000061). The surroundings were treated against fleas by washing, vacuum cleaning and by using a spray with natural basis (product unknown). 2 days after product administration the animal experienced a continuation of the flea infestation. The owner used BROADLINE 2 to 3 days after FRONTLINE, which helped against the fleas. The attending veterinarian's level of suspicion is unknown (no veterinarian).
06-Nov-2018	UAE; 18AT000061; -; Austria	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Neutered **Age:** - **Weight:** 1 - 8 kg	4	4	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	03-Nov-2018	03-Nov-2018*	0 Day(s)	D-D	Suspected lack of expected efficacy: as reported by the owner, a 1 female neutered cat and 3 male neutered cats of unknown breed and age, weighing 1 - 8 kg and with a good health condition aside from one of the cats who was suffering from feline viral rhinotracheitis received FRONTLINE SPOT ON CAT (batch S20102AX, 50 mg per animal – the whole content of the pipette was applied directly on the skin) to treat fleas on 03 NOV 2018. The owner had seen flea eggs and the animals were scratching a lot. The animalsl did not get wet and were not bathed within 2 days after treatment. The animals were not let outside within the 24 hours after product administration. There was a dog, also infested with fleas, in the same household (case AUT-BIAHPV1P-18AT000060). The surroundings were treated against fleas by washing, vacuum cleaning and by using a spray with natural basis (product unknown). 2 days after product administration the animals experienced a continuation of the flea infestation. The owner used BROADLINE 2 to 3 days after FRONTLINE, which helped against the fleas. The attending veterinarian's level of suspicion is unknown (no veterinarian).

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
05-Oct-2018	UAE; 18AU001097; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Sep-2018	06-Sep-2018	0 Day(s)	D-D	As reported by the owner, Delta a 14 year old female cat was given FRONTLINE PLUS CATS (R40506AW 4/2020) by the owner topically on 6 SEP 2018. Overnight the cat vomited and the next day there was redness and loss of hair around the site of administration. It is unclear if the cat was treated but had recovered by the time of the report. This is the extent of the information available.
03-Oct-2018	UAE; 18AU001101; -; Australia	**Species:** Canine **Breed:** Kelpie **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 26.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Aug-2018*	04-Oct-2018	8 Day(s)	D-C	As reported by the owner, Bobby, a 3 year old male neutered Kelpie cross weighting 26.8 kg was given one dosage form topically of FRONTLINE PLUS FOR LARGE DOGS (2.68 ml FIPRONIL 10% S METHOPRENE 9%, batch M64603 exp NOV 2018) by the owner for flea/tick control on 26 SEP 2018. The dog had also received a dose on approx. 26 AUG 2018. On 4 OCT 2018 the dog developed 'wobbly legs' and inappetence and was diagnosed with tick paralysis. The dog was treated with tick antiserum and iv fluids. The dog was discharged on 6 OCT 2018 and is continuing to recover at home. This is the extent of the information available.
17-Oct-2018	UAE; 18AU001155; VIC; Australia	**Species:** Canine **Breed:** Shepherd Dog (Others) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 45 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Oct-2018	13-Oct-2018	0 Day(s)	D-C	As reported by the attending veterinarian, Shiva an approximately 3 year old, 45 kg (approx) female intact Sarplaninac (Yugoslavian Shepherd Dog) was administered FRONTLINE PLUS DOG (product unsubstantiated, batch and expiry unknown) for parasite control by the owner on 13 OCT 2018. That afternoon the dog was noted to be scratching at it's ears and in discomfort. 14 OCT 18 vet visit showed irritation, inflammation and swelling of pinnae and also swollen muzzle and eye. Localised alopecia and irritation between shoulder blades. The dog was treated with topical ear ointment and an NSAID injection. 15 OCT 18 a general anaesthetic was performed to check the ears, no abnormalities detected. Cleaned and massaged and cold compress to help reduce some of the swelling. Treatment continued with metacam and chlorpheniramine. The condition is ongoing at the time of reporting. This is the extent of the information available.
22-Oct-2018	UAE; 18AU001182; -; Australia	**Species:** Canine **Breed:** Australian Cattle Dog **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Dec-2003*	01-Dec-2003*	0 Day(s)	D-A	As reported by the owner, Wally a 8 year old male intact cattle dog (weight unknown) was administered FRONTLINE SPRAY (batch and expiry unknown) at an unknown dose rate by the owner for parasite control on an approximately 1 DEC 2003. The dog began fitting within a few minutes, stopped breathing and died. It is unknown if veterinary attention was sought. This is the extent of the information available.
29-Oct-2018	UAE;	**Species:** Feline	1	1	1	**Product used:**	01-Jan-2018*	01-Oct-2018*	9 Month(s)	D-A	As reported by a family member, a cat of an unknown signalment,

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	18AU001206; -; Australia	**Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					received an unknown dosage form of FRONTLINE PLUS FOR CATS (product unsubstantiated, batch and expiry unknown) for flea control on an unknown date, estimated the 1 JAN 2018 for reporting purposes. At an unknown time, (estimated the 1 OCT 2018 for reporting purposes) the cat died. It is unclear if it was treated or if a post mortem was carried out. This is the extent of the information available.
05-Nov-2018	UAE; 18AU001253; -; Australia	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 40 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Oct-2018	18-Oct-2018*	N/A	D-D	As reported by the owner, Kelsey, a female, entire, 8 years, German Shepherd, weighing approximately 40kg received one dosage form of FRONTLINE PLUS DOG XL FIPRONIL 10% (S)-METHOPRENE 9% SPOT ON, Batch R61607, Expiry 07/2020) administered topically by the owner for flea and tick control on 24 OCT 2018, and prior to this on the 17 OCT 2018 (note that this is an off label use of the product - interval between treatments is too short). Prior to administration the owners noted the dog itching. In an unknown timeframe after product administration the dog's itching got worse but fleas were not noted. The problem is ongoing at the time of reporting and no treatment has been implemented.This is the extent of the information available.
05-Nov-2018	UAE; 18AU001254; -; Australia	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 45 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Oct-2018	18-Oct-2018*	N/A	D-D	As reported by the owner,Vader, a male, desexed, approx 3 years, German Shepherd, weighing 45kg approx received one dosage form of FRONTLINE PLUS DOG XL FIPRONIL 10%/S METHOPRENE 9% SPOT ON, Batch R61607, Expiry 07/2020) administered topically by the owner for flea and tick control on 24 OCT 2018, and prior to this on 17 OCT 2018 (note that this is an off label use of the product - interval between treatments too short). Prior to administration the owners noted the dog itching. In an unknown timeframe to product administration the dog's itching got worse but fleas were not noted. The problem is ongoing at the time of reporting and no treatment has been implemented.This is the extent of the information available.
31-Oct-2018	UAE; 18AU001259; QLD; Australia	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Nov-2018*	02-Nov-2018*	1 Day(s)	D-D	As reported by the retail outlet, a dog of unknown signalment, received one dosage form of FRONTLINE PLUS FOR DOGS 10-20kg (Fipronil 100 g/L and (S)-methoprene 90 g/L, BA: R60812AL and EX: 03/2020), applied topically by an unknown person for flea and tick control on an unknown date (estimated for reporting purposes 1 NOV 2018). The owner noted on an unknown date (estimated 2 NOV 2018 for reporting purposes) that fleas were still present. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					
06-Nov-2018	UAE; 18AU001262; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Oct-2018*	16-Oct-2018*	1 Day(s)	D-D	As reported by the pet owner, Henry, 1 year old cat (signalment otherwise unknown) received one dosage form (0.5 mL pipette) of FRONTLINE PLUS FOR CATS (100g/L fipronil / 120g/L (S)-methoprene, BA: R40506AW, EX: 04/2020), applied topically by the owner for flea control on an unknown date, estimated as 15 OCT 2018. After an unknown time frame, estimated as 16 OCT for reporting purposes, the owner found fleas were still present and the cat was itching. It should be noted fleas were found on the cat prior to treatment. The cat did not receive veterinary treatment and clinical signs are ongoing. This is the extent of the information available.
06-Nov-2018	UAE; 18AU001263; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Oct-2018*	15-Oct-2018*	0 Day(s)	D-D	As reported by the pet owner, Tink, 4 year old, unknown weight, received one dosage form (0.5 mL pipette) of FRONTLINE PLUS FOR CATS (100g/L fipronil / 120g/L (S)-methoprene, BA: R40506AW, EX: 04/2020), applied topically by the owner for flea control on an unknown date (estimated as 15 OCT 2018 for reporting purposes). After an unknown time frame, the owner found fleas were still present and the cat was itching. It should be noted fleas were found on the cat prior to treatment. The cat did not receive veterinary treatment and clinical signs are ongoing. This is the extent of the information available. Another cat in the household was treated with the same product and experienced the same signs (18AU001262).
05-Nov-2018	UAE; 18AU001267; -; Australia	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	13-Oct-2018	13-Oct-2018	0 Day(s)	D-D	As reported by the owner, a dog (signalment unknown), was given PO one dosage form of FRONTLINE PLUS DOG XL (fipronil 10% (S)- methoprene 9%) SPOT ON, Batch R61607, Expiry 07/2020) administered topically by the owner for flea and tick control on the 13 OCT 18. At the time of reporting, the owner noted that fleas were still present on the dog. It should be noted the dog received an overdosage for its weight range (although actual weight of dog unknown). This is the extent of the information available.
02-Nov-2018	UAE; 18AU001269; -; Australia	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Neutered **Age:** 11.50 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Nov-2018	01-Nov-2018	0 Day(s)	D-D	As reported by the owner, Daisy, a female, neutered, 11.5 year old, Maltese X Shih Tzu, weighing 7kg, received one dosage form of FRONTLINE PLUS FOR SMALL DOGS (Fipronil 100g/L and (S)-methoprene 90g/L, BA: R61011AL, Expiry unknown), applied topically by the owner for flea and tick control on the 1 NOV 2018. 10 minutes later the dog has shown severe itching and scratching and was very agitated, there was also blood at the site of application. The dog has received veterinary treatment with dexapent injection and the outcome is ongoing. This is the extent

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					of the information available
12-Nov-2018	UAE; 18AU001282; -; Australia	**Species:** Canine **Breed:** Bulldog **Sex:** F **Sex qualifier:** - **Age:** 7.00 Week(s) **Weight:** 4.5 kg*	9	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Nov-2018	05-Nov-2018	1 Day(s)	D-A	As reported by the owner, a female, entire, approx. 7 week old, American Bulldog, weighing approx 4.5kg, was administered FRONTLINE SPRAY (FIPRONIL, batch and expiry unknown), topically for flea and tick control by the owner on the 4 NOV 18. The next day, the owner found a paralysis tick on the pup. The pup was showing signs of paralysis, was taken to the vet and was treated with tick anti serum but did not respond well and was euthanized on an unknown date (estimated as 6 NOV 2018 for reporting purposes). This is the extent of the information available.
13-Nov-2018	UAE; 18AU001289; -; Australia	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018*	13-Nov-2018*	4 Day(s)	D-D	As reported by the owner, Bundy, a male, neutered, 8 year old, Staffy x Labrador, weighing 20kg, received one dosage form of FRONTLINE PLUS DOG L (FIPRONIL 10%/S METHOPRENE 9% SPOT ON, batch and expiry unknown), administered topically by the owner for flea and tick control on 9 November 2018. it has received this product since September 2018. The owner reports the dog still has fleas (estimated as the day of reporting 13 NOV 2018). it is unclear if treatment has been administered and the condition is ongoing at the time of reporting. This is the extent of the information available.
12-Nov-2018	UAE; 18AU001303; -; Australia	**Species:** Canine **Breed:** Retriever Labrador **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	06-Nov-2018*	5 Day(s)	D-B	As reported by the owner, a 25 kg labrador (no other details provided) was administered FRONTLINE PLUS (FIPRONIL 10%/S METHOPRENE 9% SPOT ON, product unsubstantiated) on an unknown date (estimated as 1 NOV 2018 for reporting purposes). On approx. 6 NOV 2018 the dog was diagnosed with tick paralysis. It was treated (no details provided) and recovered by approx. 7 NOV 2018. This is the extent of the information available.
12-Nov-2018	UAE; 18AU001346; -; Australia	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	01-Jun-2017*	01-Nov-2017*	N/A	D-D	As reported by the owner, a 15kg Poodle (signalment otherwise unknown) was treated with FRONTLINE PLUS DOG XL (P61205AR/R 05/2019) topically each month by the owner for over a year (estimated starting date as 1 JUN 2017 for reporting purposes). The owner reports that she is still seeing fleas and has for the past year (estimated as 1 NOV 2017 for reporting purposes). At the time of reporting the animal had not been treated and the condition was ongoing. This is the extent of the information available.

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12-Nov-2018	UAE; 18AU001347; -; Australia	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 45 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2017*	01-Nov-2017*	N/A	D-D	As reported by the owner, a 45kg dog (signalment otherwise unknown) was treated with FRONTLINE PLUS DOG XL (P61205AR/R 05/2019) topically each month by the owner for over a year (estimated starting date as 1 JUN 2017 for reporting purposes). The owner reports that she is still seeing fleas and has for the past year (estimated as 1 NOV 2017 for reporting purposes). At the time of reporting the animal had not been treated and the condition was ongoing. This is the extent of the information available.
12-Nov-2018	UAE; 18AU001348; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 7.00 Week(s) **Weight:** 1 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	01-Oct-2018*	N/A	D-D	As reported by the owner, two kittens aged 7 weeks and 11 weeks (signalment otherwise unknown) was treated with FRONTLINE PLUS CATS (R40503A/W 4/2020) topically each month by the owner (estimated starting date as 1 OCT 2018 for reporting purposes). The owner reports that she is still seeing fleas (estimated start date 1 OCT 2018). At the time of reporting the animal had not been treated and the condition was ongoing. This is the extent of the information available.
12-Nov-2018	UAE; 18AU001349; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 2 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Jan-2018*	N/A	D-D	As reported by the owner, one cat weighing approximately 2 kg (signalment otherwise unknown) was treated with FRONTLINE PLUS CATS (R40503A/W 4/2020) topically each month by the owner (estimated starting date as 1 JAN 2018 for reporting purposes). The owner reports that she is still seeing fleas (estimated start date 1 JAN 2018). At the time of reporting the animal had not been treated and the condition was ongoing. This is the extent of the information available.
27-Nov-2018	UAE; 18AU001383; QLD; Australia	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	12-Oct-2018*	26-Oct-2018*	0 Day(s)	D-D	As reported by the retail outlet, a Pomeranian dog, (signalment otherwise unknown), received an unknown dosage of FRONTLINE PLUS FOR DOGS UP TO 10KG (Fipronil 100g/L, (S)-methoprene 90g/L, BA: R61011BL and EX: 03/2020) applied in an unknown manner for flea and tick control on an unknown date – estimated 26 OCT 2018 for reporting purposes, and prior to this on an unknown date (estimated as 12 OCT 2018 for reporting purposes). The owner noted on an unknown date that fleas were still present and the dog was still itching (estimated as 26 OCT 2018 for reporting purposes). It is unknown if the dog was treated and the current condition is unknown. This is the extent of the information available.
27-Nov-2018	UAE; 18AU001384;	**Species:** Canine **Breed:** Maltese	1	1	0	**Product used:** FIPRONIL	13-Nov-2018*	13-Nov-2018*	N/A	D-D	As reported by the pet owner, a male, approx. 8 weeks old, weighing 1.5kg, Maltese cross, received 6.75mg/kg of

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	NSW; Australia	**Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Week(s) **Weight:** 1.5 kg				SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					FRONTLINE SPRAY (FIPRONIL, batch and expiry unknown), applied topically for flea and tick control on an unknown date but estimated as the 13 NOV 18 for reporting purposes. After an unknown time frame, the owner noted the dog still had live fleas. The dog was bathed and sprayed every day for an unknown time frame (estimated as daily until 24 NOV 2018). It should be noted that the product was used in an off-label manner in regards to both time to bathing and interval between applications. The dog has not received veterinary treatment, but received an alternate parasiticide (NexGard) and has recovered as of 27 NOV 2018. This is the extent of the information available
28-Nov-2018	UAE; 18AU001390; -; Australia	**Species:** Canine **Breed:** Doberman **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Week(s) **Weight:** 10 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Nov-2018	28-Nov-2018	1 Day(s)	D-C	As reported by the pet owner, Olive, an intact female Doberman, approx. 13 weeks old, weighing approx. 10kg, received one dosage form of FRONTLINE PLUS FOR DOGS UP TO 10KG (Fipronil 100g/L, (S)-methoprene 90g/L, BA: AA1282/18 and EX: 05/2021) applied by the owner, in between the shoulder blades topically for flea and tick control on the 27 NOV 2018. Later on the same date, the dog had diarrhoea. On the 28 NOV 2018, the owner noted the dog had blood and mucus in its poo. The dog has not received veterinary treatment and symptoms are ongoing. This is the extent of the information available.
04-Dec-2018	UAE; 18AU001418; VIC; Australia	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	19-Nov-2018*	19-Nov-2018*	N/A	D-D	As reported by the pet owner, a male Jack Russell canine weighing 8.5kg, received one dosage form of FRONTLINE PLUS FOR DOGS 10-20KG (Fipronil 100g/L, (S)-methoprene 90g/L, batch and expiry unknown) for flea and tick treatment on an unknown date (estimated as 19 NOV 2018 for reporting purposes). The owner noted that live fleas were still present and dog was continuously itching. The dog was re-dosed 10 days later (estimated as the 29th for reporting purposes) and the owner found the dog was still itching. It should be noted the incorrect product size was administered and incorrect frequency. The dog has not received veterinary treatment and itching is ongoing. This is the extent of the information available
02-Dec-2018	UAE; 18AU001422; -; Australia	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 18 kg	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2018*	29-Nov-2018	10 Day(s)	D-B	As reported by the owner, Zailee, a female, intact 3 year old,18 kg, Border Collie was given one dosage form of FRONTLINE PLUS 10-20kg (batch and expiry unknown) by the owner for flea and tick control on 19 NOV 2018. On the 29 NOV 2018 two paralysis ticks were found on the dog's neck. The dog was taken to the vet and treated for tick paralysis. The dog could not walk, was sedated, given tick serum and oxygen for two days. The dog recovered enough for discharge on 1 DEC 2018. The dog has been treated with the product since Feb 2018 without incident. This is the extent of the information available.

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06-Dec-2018	UAE; 18AU001429; NSW; Australia	**Species:** Canine **Breed:** Dachshund **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 9.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Dec-2018*	06-Dec-2018*	0 Day(s)	D-D	As reported by the owner, a Dachshund weighing 9.2kg, received one dosage form of FRONTLINE PLUS FOR DOGS UP TO 10KG (Fipronil 100g/L, (S)-methoprene 90g/L, batch and expiry unknown) applied topically for flea and tick control on an unknown date (estimated as 6 DEC 2018 for reporting purposes). Later the same day the owner noted that the dog was scratching more and the fleas appeared hyperactive. The problem was ongoing at the time of reporting and the dog has not received veterinary treatment. This is the extent of the information available
06-Dec-2018	UAE; 18AU001430; NSW; Australia	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Dec-2018*	06-Dec-2018*	0 Day(s)	D-D	As reported by the owner, a Toy Poodle, weighing 5.2kg, received one dosage form of FRONTLINE PLUS FOR DOGS UP TO 10KG (Fipronil 100g/L, (S)-methoprene 90g/L, batch and expiry unknown) applied in topically for flea and tick control on an unknown date (estimated as 6 DEC 2018 for reporting purposes). Later the same day the owner noted that the dog was scratching more and the fleas appeared hyperactive. The problem was ongoing at the time of reporting and the dog has not received veterinary treatment. This is the extent of the information available
07-Dec-2018	UAE; 18AU001432; -; Australia	**Species:** Feline **Breed:** British Shorthair **Sex:** M **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Sep-2018*	07-Dec-2018	1 Day(s)	D-C	As reported by the pet owner, Bojue, intact male, 10 month old, weighing 3.9kg, British Shorthair, received one dosage form (0.5mL pipette) of FRONTLINE PLUS FOR CATS (100g/L fipronil / 120g/L (S)-methoprene, batch and expiry unknown), applied topically by the owner for flea control on the 4 DEC 2018. In an unknown timeframe the cat developed hair loss and a rash at the site of application (approximately 6 DEC). The cat received veterinary treatment and the condition is ongoing. It should be noted that the cat displayed the same signs following the previous application on approximately 4 SEPT 2018. This is the extent of the information available. UPDATE 14 DEC 2018. Vet history received. The history confirmed that the cat had a history of dermatitis on the head and behind the ear prior to being acquired by the owner on approx. 30 SEP 2018. The first dose of FRONTLINE PLUS was applied after this (estimated as 30 SEP 2018 for reporting purposes). FRONTLINE PLUS FOR CATS was then administered on 6 DEC 2018. On 7 DEC 2018 the cat was seen by the vet and was noted to have alopecia with severe erythema and dried exudate in the interscapular region. The cat was treated with dexamethasone. After the visit the owner reported that the cat was hiding, had a reduced appetite and was urinating and defaecating outside of the litter box. The cat was re-examined on 13 DEC 2018 and the lesion was still present but healing. The cat was treated with Neotopic cream (neomycin, hydrocortisone, lignocaine). The reaction continues at the time of reporting. This is the extent of the information available.
11-Dec-2018	UAE; 18AU001449; -; Australia	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	01-Jul-2018*	11-Dec-2018	8 Day(s)	D-D	As reported by the owner, Maddy P, a 6 month old female desexed 2.5kg Domestic Medium hair was treated topically with FRONTLINE SPRAY (2.5g/L fipronil, BA: R04101A and EX: 10/2019) dosed at 15mg/kg by the owner for flea and tick prevention on the 3 DEC 2018. The owner noted on four different dates that ticks were present and the cat was lethargic - estimated 21 NOV, 29 NOV, 5 DEC, 11 DEC. The cat did not receive

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		Age: 6.00 Month(s) **Weight:** 2.5 kg				Cutaneous **Was the product used ok?:** Yes					veterinary treatment and has recovered. The cat has been treated with the product since approximately JUL 2018.This is the extent of the information available. 10-JAN-19 QA results received: Investigation completed for FIPRONIL SPRAY Lot# R04101A, expiry 2019-10-31. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-10. Final complaint evaluation A product quality complaint for FRONTLINE SPRAY batch R04101A was received by BIAH QA on 17th December 2018. The complaint description is "lack of efficacy" and "lethargic reaction". This is the second complaint regarding the defect lack of efficacy and the first complaint regarding the defect lethargic. Batch record investigation Filling batch: R041 Manufacturing date: 28/11/2017 - Expiry date: NA - Manufacturing quantity: 8498 liters No change or deviation associated to this adverse event (lack of efficacy). One observation not associated to this defect The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. The retention sample is conforming but will not respond to a lack of efficacy or a lethargic reaction. Root cause: No root cause could be identified on Toulouse plant After verification of batch records and certificate of analysis, no relation can be established between these related adverse events and the manufacturing process on Toulouse plant. This complaint is categorized major without Market Action potential and is not justified..
11-Dec-2018	UAE; 18AU001450; -; Australia	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Not applicable **Age:** 14.00 Week(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Dec-2018	2 Day(s)	D-D	As reported by the owner, Ayce, a female, intact, 14 week old, English Staffordshire terrier, weighing 7kg was treated topically with FRONTLINE SPRAY (2.5g/L fipronil, BA: R04101A and EX: 10/2019) dosed at 4.8mg/kg by the owner for flea and tick prevention on the 3 DEC 2018. It should be noted 15 mg/kg is the recommended fipronil dose for tick control. The owner noted on the 5 DEC 2018 that a tick was present (species unidentified, suspected brown dog tick). It is unclear if the dog was treated but was considered recovered by 5 DEC 2018. This is the extent of the information available. 10-JAN-19 QA results received: Investigation completed for FIPRONIL SPRAY Lot# R04101A, expiry 2019-10-31. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-10. Final complaint evaluation A product quality complaint for FRONTLINE SPRAY batch R04101A was received by BIAH QA on 17th December 2018. The complaint description is "lack of efficacy". This is the first complaint regarding this defect for this batch Batch record investigation Filling batch: R041

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											Manufacturing date: 28/11/2017 - Expiry date: NA - Manufacturing quantity: 8498 liters No change or deviation associated to this adverse event (lack of efficacy). One observation not associated to this defect The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. The retention sample is conforming but will not respond to a lack of efficacy. Root cause: No root cause could be identified on Toulouse plant After verification of batch records and certificate of analysis, no relation can be established between this related lack of efficacy and the manufacturing process on Toulouse plant. This complaint is categorized major without Market Action potential..
10-Dec-2018	UAE; 18AU001451; -; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Nov-2018*	01-Nov-2018*	0 Day(s)	D-D	As reported by the owner, a female cat, signalment otherwise unknown, was given FRONTLINE (product unsubstantiated, batch and expiry unknown) by the owner on an unknown date (estimated as 1 NOV 2018 for reporting purposes). The owner reports that the product did not get rid of the fleas on her animal. It is unclear if the cat has been treated and the condition is ongoing at the time of reporting. This is the extent of the information available.
10-Dec-2018	UAE; 18AU001455; Western Australia; Australia	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Nov-2018*	10-Nov-2018*	9 Day(s)	D-D	As reported by the owner, a number of cats (estimated as 2 for repoting purposes), of an unknown signalment (unknown ID name, age, sex and reproduction status) received an unknown dose of FRONTLINE PLUS FOR CATS (100g/L Fipronil, 120g/L (S)-methoprene), two batches were used: S40406AW, S40204AW, EX: 02/2021, 12/2020, the product was applied in an unknown manner by the owner for flea control on an unknown date - estimated 1 NOV 2018 for reporting purposes. At an unknown time point after product application the owner noted that fleas were still present (estimated as 10 NOV 2018 for reporting purposes). it is unknown if veterinary attention was sought and the outcome is unknown. This is the extent of the information available. 10-JAN-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# S40406AW, expiry 2021-02-28. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-10. Final complaint evaluation: A product quality complaint for FRONTLINE PLUS SPOT ON CAT batch S40406AW was received by BIAH QA on 17th December 2018. The complaint description is “lack of efficacy”. This is the first complaint regarding this defect for this batch. The retention sample is conforming but will not respond to a lack of efficacy. Batch record investigation Filling batch: S404 Manufacturing date: 01/03/2018 - Expiry date: NA -

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											Manufacturing quantity: 999.5 liters No change or deviation associated to this adverse event (lack of efficacy). One observation not associated to this defect The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Batch record investigation Filling batch: S40406 Manufacturing date: 06/04/18- Expiry date: 02/2021 - Manufacturing quantity: 12 680 blisters Associated deviation(s): One deviation and two observations not associated to this defect. This batch was not concerned by any change control. The results
13-Dec-2018	UAE; 18AU001456; -; Australia	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Dec-2018	13-Dec-2018	0 Day(s)	D-D	As reported by the owner, Bella; a 3 year old, female, miniature poodle dog of unknown weight was treated topically with 1 pipette of FRONTLINE PLUS FOR DOGS up to 10kgs (R60829AL Exp 03/2020) on the 13 DEC 2018 for flea and tick treatment by the pet owner. Immediately after application the dog was rolling around on her back and was 'running up and down the hall'. At the time of reporting the dog had recovered without treatment. This is the extent of the information available.
17-Dec-2018	UAE; 18AU001478; -; Australia	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 36 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2014*	17-Dec-2018	4 Day(s)	D-D	As reported by the owner, Winston, a male, 4 year old, Border Collie, weighing approximately 36kg, received one dosage form of FRONTLINE PLUS For LARGE DOGS (Batch: R62002AR, EX: 09/2020), applied topically by the owner for flea & tick control on 13 DEC 2018. 4 days later the dog experienced general itchiness and red rashes under the arms and genital area. It should be noted that the dog has recieved the product multiple times since 2014 without any adverse reactions. It is unclear if the dog received veterinary treatment and the outcome is ongoing. This is the extent of the information available
01-Oct-2018	UAE; 18BR006139; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	24-Sep-2018	01-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Yorkshire of 9 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, from neck to tail) for the first time, applied by the reporter on 24 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. This dog has outdoor access. The environment has not been treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						vaccination program not respected)					
01-Oct-2018	UAE; 18BR006141; RS; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 5.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Jun-2018	01-Oct-2018*	4 Week(s) 6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bella, an 11-month-old, 5.8 kg, female, crossbred dog, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 28 Aug 2018, for flea and tick treatment. Lack of efficacy suspected because the dog is currently infested by fleas and ticks again. Flea and tick infestation 1 week prior to FL, environment treated. FRONTLINE was applied once, on 14 Jun 2018, with no issues. There is no further information avaialble.
01-Oct-2018	UAE; 18BR006143; MG; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	24-Sep-2018	01-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teddy Hunter, a male Poodle of 5 years old and 5 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the veterinarian on 24 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. No further information is expected.
01-Oct-2018	UAE; 18BR006144; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 1.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pituca, a female Pinscher of 2 years old and 1.8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (018/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter 10 days ago (21 Sep 2018), for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. The environment has been treated with amitraz and FL has been applied every 3 months since when the pet was 6 months old (1 Jan 2017 - chosen at random). There are 3 other dogs in this household that were treated with another brand's product and they have no issue. No further information is expected.
01-Oct-2018	UAE; 18BR006146; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Sep-2018	01-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Floquinho, a male mixed breed cat of 6 years old and 3.8 kg, received, for the first time, one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has not been treated. There is another cat in this household with the same issue (See case 18BR006147). No further information is expected.
01-Oct-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	22-Sep-2018	01-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR006147; RJ; Brazil	**Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 2 kg				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Meg, a female mixed breed cat of 12 years old and 2 kg, received, for the first time, one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. There is another cat in this household with the same issue (See case 18BR006146). No further information is expected.
01-Oct-2018	UAE; 18BR006148; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2016*	29-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Luz Divina, a 3-year-old, 3 kg, female, mixed breeds cat, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (021/16, Nov 2018), topic, base of skull and btw the shoulder blades, by the reporter, on 28 Sep 2018, for flea treatment. She was in good health prior to FL. 36 hours post product application, the owner noticed that her cat was presenting with hair loss at the application site. No other signs reported, and the cat was not taken to the vet. FRONTLINE was usually applied in 2016 with no issues (dose frequency unknown and first dose on date not specified - 1 Jan 2016 chosen at random). No further information is available.
01-Oct-2018	UAE; 18BR006151; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jul-2018*	30-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pipoca, a 12-month-old, 5 kg, female, Shih Tzu, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, on 30 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested by fleas . Flea infestation prior to FL. FL was applied twice in the past with the same issues (dose frequency unknown and first dose on date not specified - 1 Jul 2018 chosen at random). This is the extent of the information available. UPDATE 2 OCT 2018 - The environment has not been treated. Since the owner reported that the bottle of FL has no lot number and expiration date, a PQC case was reported on 18BR006216. No further information is available.
01-Oct-2018	UAE; 18BR006157; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zayon, a male Yorkshire of 6 years old and 5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (005/16 and unknown exp date, topical, btw the shoulder blades), applied by the reporter on 26 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL has been applied every 3 months with no issue since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
01-Oct-2018	UAE; 18BR006163; RJ; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Pregnant Lactating **Age:** 4.00 Year(s) **Weight:** 12.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	30-Jul-2018	30-Aug-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a 4-year-old, 12.3 kg, pregnant Pug, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 30 Jul 2018, for flea prevention. Lack of efficacy suspected because the dog remains infested by fleas since 30 Aug 2018. Environment treated with Butox. It is unknown if FRONTLINE was applied to the

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						products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					dog in the past. No further information is available. UPDATE 23 Oct 2018 - The pet owner informed that Mel received another dose of FL on 4 Oct 2018 and remains with fleas. No further information is expected.
01-Oct-2018	UAE; 18BR006171; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	30-Aug-2018*	05-Sep-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juno, a male small crossbred dog of 4 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter around 1 month ago (30 Aug 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remained with fleas. The environment has been treated with deltamethrin. Similar case reported on 18BR006172. No further information is expected.
01-Oct-2018	UAE; 18BR006172; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Sep-2018*	30-Sep-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juno, a male small crossbred dog of 4 months old and 4 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter 3 weeks ago (10 Sep 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has been treated with deltamethrin. FL 'pipette' was applied for the first time one month ago (30 Aug 2018) with the same issue (see case 18BR006171). No further information is expected.
01-Oct-2018	UAE; 18BR006175; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	08-Jan-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Preta, a female small crossbred dog of 1 year old and 10 kg, received FRONTLINE SPOT-ON (unsubstantiated) (FL) (lot and exp date, route and application spot unknown), administered by the reporter on date not informed (1 Jan 2018 chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. This dog does not have outdoor access. Linked cases reported on 18BR006167, 18BR006168 and 18BR006176. The environment has not been treated. No further information is available.
01-Oct-2018	UAE; 18BR006176; PR; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	08-Jan-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female Poodle of 10 years old and 4 kg, received FRONTLINE SPOT-ON (unsubstantiated) (FL) (lot and exp date, route and application spot unknown), administered by the reporter on date not informed (1 Jan 2018 chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. This dog does not have outdoor access. Linked cases reported on 18BR006167, 18BR006168 and 18BR006175. The environment has not been treated. No further information is available.
01-Oct-2018	UAE; 18BR006181;	**Species:** Canine **Breed:** Yorkshire	2	2	0	**Product used:** FIPRONIL	N/A	01-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two female Yorkshire puppies of 33 days old, received

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	SP; Brazil	Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 33.00 Day(s) **Weight:** Unknown				SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, back), applied by the reporter on 27 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pets. Similar case reported on 18BR006182. It is unknown if FL was used in the past. The environment has been treated with Butox®. No further information is available.
01-Oct-2018	UAE; 18BR006182; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 33.00 Day(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	01-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two male Yorkshire puppies of 33 days old, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, back), applied by the reporter on 27 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pets. Similar case reported on 18BR006181. It is unknown if FL was used in the past. The environment has been treated with Butox®. No further information is available.
01-Oct-2018	UAE; 18BR006184; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fiona, a female small crossbred dog of 8 years old and 10 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, neck), applied by the reporter on 29 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. FL has been applied every 3 months with no issue since date not specified (1 Jan 2017 - chosen at random). There is another pet in this household with the same problem (See case 18BR006185). SAE case reported on 18BR006186. No further information is expected.
01-Oct-2018	UAE; 18BR006185; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maximus, a male mixed breed cat of 2 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, neck), applied by the reporter on 29 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. FL has been applied every 3 months with no issue since date not specified (1 Jan 2017 - chosen at random). There is another pet in this household with the same problem (See case 18BR006184). SAE case reported on 18BR006186. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						program not respected)					
01-Oct-2018	UAE; 18BR006186; RJ; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	05-Jan-2018*	4 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, a cat of unknown signalment was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter on date not specified (1 Jan 2018 - chosen at random). On date not specified, the cat presented with hair loss. The current status of the animal is unknown. SLOE cases reported on 18BR006185 and 18BR006186. No further information is available.
02-Oct-2018	UAE; 18BR006187; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	02-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Vitor, a 2.5-year-old, 5 kg, male, mixed breeds cat, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, 2 weeks ago (18 Sep 2018), for flea prevention. Lack of efficacy suspected because the cat is currently infested by fleas. FRONTLINE was usually applied every 2 months with no issues (first dose on date not specified - 1 Jan 2017 chosen at random). Environment not treated. 4 other pets of the same household that are also on FL were reported on 18BR006188, 18BR006189, 18BR006190 and 18BR006191. No further information is available.
02-Oct-2018	UAE; 18BR006188; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	02-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gorda, an 8-year-old, 7 kg, female, mixed breeds cat, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, 2 weeks ago (18 Sep 2018), for flea prevention. Lack of efficacy suspected because the cat is currently infested by fleas. FRONTLINE was usually applied every 2 months with no issues (first dose on date not specified - 1 Jan 2017 chosen at random). Environment not treated. 4 other pets of the same household that are also on FL were reported on 18BR006187, 18BR006189, 18BR006190 and 18BR006191. No further information is available.
02-Oct-2018	UAE; 18BR006189; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	02-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Aperi, a 6-year-old, 5 kg, female, mixed breeds cat, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, 2 weeks ago (18 Sep 2018), for flea prevention. Lack of efficacy suspected because the cat is currently infested by fleas. FRONTLINE was usually applied every 2 months with no issues (first dose on date not specified - 1 Jan 2017 chosen at random). Environment not treated. 4 other pets of the same household that are also on FL were reported on 18BR006187, 18BR006188, 18BR006190 and 18BR006191. No further information is available.
02-Oct-2018	UAE; 18BR006190; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	01-Jan-2017*	02-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pequena, a 10-year-old, 2 kg, female, Pinscher, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, 2 weeks ago (18 Sep 2018), for flea prevention. Lack of efficacy suspected because the dog is currently infested by fleas. FRONTLINE was usually applied every 2 months with no issues (first dose on date not specified - 1 Jan 2017

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 2 kg				Cutaneous **Was the product used ok?:** Yes					chosen at random). Environment not treated. 4 other pets of the same household that are also on FL were reported on 18BR006187, 18BR006188, 18BR006189 and 18BR006191. No further information is available.
02-Oct-2018	UAE; 18BR006191; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	02-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Logan, a 5-year-old, 8 kg, male, crossbred dog, was treated with FRONTLINE SPRAY (FL) (lot and exp unknown), topic, whole body, by the reporter, 2 weeks ago (18 Sep 2018), for flea prevention. Lack of efficacy suspected because the dog is currently infested by fleas. FRONTLINE was usually applied every 2 months with no issues (first dose on date not specified - 1 Jan 2017 chosen at random). Environment not treated. 4 other pets of the same household that are also on FL were reported on 18BR006187, 18BR006188, 18BR006189 and 18BR006190. No further information is available.
02-Oct-2018	UAE; 18BR006193; RS; Brazil	**Species:** Canine **Breed:** English Bulldog **Sex:** F **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 22 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	28-Sep-2018	29-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Estrela, a female English Bulldog of 3.5 years old and 22 kg, received, for the first time, one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, from btw the shoulder blades to the back), applied by the reporter on 28 Sep 2018, for flea/tick control. The pet was in good health prior to FL and has no history of adverse reactions. One day later, the dog's hair had hardened at the place of application of the product. On 1 Oct 2018, the owner noticed a 'ball' at the application site, application site reddening and application site lesion with pus. No vet care was provided. There is another dog in this household that was treated with FL and it has no issue. No further information is available.
02-Oct-2018	UAE; 18BR006201; RJ; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 11.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Sep-2018	02-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rambo, a male French Bulldog of 1 year old and 11.5 kg, received FRONTLINE PLUS DOG M (FL) (009/16, exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 24 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This dog does not have outdoor access. The environment has not been treated. No further information is available.
01-Oct-2018	UAE; 18BR006202; MG; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2017*	02-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tchutchuco, a male Poodle of 11 years old and 6 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one week ago (25 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). There is another dog in this household with the same issue (See

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						Was the product used ok?: Yes					case 18BR006203). No further information is expected.
01-Oct-2018	UAE; 18BR006203; MG; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	02-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Labrador of 6 years old and 35 kg, was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one week ago (25 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). There is another dog in this household with the same issue (See case 18BR006202). No further information is expected.
02-Oct-2018	UAE; 18BR006205; PR; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 9.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a 12-year-old, 9.3 kg, male, Pekingese, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported on 18BR006206 to 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006206; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bolt, a 7-year-old, 9 kg, male, Shih Tzu, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported on 18BR006205 and from 18BR006207 to 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006207; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bia, a 13-year-old, 8 kg, female, crossbred dog, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported on 18BR006205, 18BR006206 and from 18BR006208 to 18BR006214. No further information is available.

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02-Oct-2018	UAE; 18BR006208; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a 5-year-old, 7 kg, female, Shih Tzu, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006207 and from 18BR006209 to 18BR006210. No further information is available.
02-Oct-2018	UAE; 18BR006209; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dior, a 5-year-old, 7 kg, female, Shih Tzu, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006208 and from 18BR006210 to 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006210; PR; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Isis, a 2-year-old, 7 kg, female, Pekingese, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006209 and from 18BR006211 to 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006211; PR; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, an 18-month-old, 6 kg, female, Dachshund, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2018 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006210 and from 18BR006212 to 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006212;	**Species:** Feline **Breed:** Turkish	1	1	0	**Product used:** FIPRONIL	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dafine, an 11-year-old, 4 kg, female, Turkish Angora cat, was

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	PR; Brazil	Angora **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 4 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006211, 18BR006213 and 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006213; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Filomena, a 3-year-old, 4 kg, female, mixed bredds cat, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006212, and 18BR006214. No further information is available.
02-Oct-2018	UAE; 18BR006214; PR; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frederico, a 4 kg, male mixed breeds cat (age unknown), was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown), topic, base of skull and btw the shoulder blades, by the reporter, on 29 Sep 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested. Flea infestation few days prior to FL, environment treated with K-Othrine. FRONTLINE was usually applied every 4 months, no issues reported (first dose on date not specified - 1 Jan 2017 chosen at random). 9 other pets of the same household that are also on FRONTLINE were reported from 18BR006205 to 18BR006213. No further information is available.
02-Oct-2018	UAE; 18BR006224; BA; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 10.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Baleia, a female Lhasa Apso of 9 years old and 10.9 kg, received FRONTLINE SPOT-ON DOGS M (FL) (003/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006225 to 18BR006229. The environment has been treated with Colosso® and Bolfo®. No further information is available.
02-Oct-2018	UAE; 18BR006225; BA; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Cotoco, a female Lhasa Apso of 12 years old and 13.4 kg, received FRONTLINE SPOT-ON DOGS M (FL) (003/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick

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		Unknown **Age:** 12.00 Year(s) **Weight:** 13.4 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006224 and 18BR006226 to 18BR006229. The environment has been treated with Colosso® and Bolfo®. No further information is available.
02-Oct-2018	UAE; 18BR006226; BA; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 11.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Lulu, a female Lhasa Apso of 14 years old and 11.9 kg, received FRONTLINE SPOT-ON DOGS M (FL) (003/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006224, 18BR006225 and 18BR006227 to 18BR006229. The environment has been treated with Colosso® and Bolfo®. No further information is available.
02-Oct-2018	UAE; 18BR006227; BA; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Month(s) **Weight:** 27.4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Lua, a female German Shepherd of 16 Months old and 27.4 kg, received FRONTLINE SPOT-ON DOGS L (FL) (010/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006224 to 18BR006226, 18BR006228 and 18BR006229. The environment has been treated with Colosso® and Bolfo®. No further information is available.
02-Oct-2018	UAE; 18BR006228; BA; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Corita, a female German Shepherd of 7 months old and 24 kg, received FRONTLINE SPOT-ON DOGS L (FL) (010/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006224 to 18BR006227 and 18BR006229. The environment has been treated with Colosso® and Bolfo®. No further information is available.
02-Oct-2018	UAE; 18BR006229; BA; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products	N/A	02-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim and Suspected Adverse Event: As reported by the pet owner, Lubi, a male crossbred cat of 4 years old, received FRONTLINE SPOT-ON CAT (FL) (005/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 23 Sep 2018 for flea and tick treatment. She believes that FL is not working because she continues to see fleas on her

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 4.00 Year(s) **Weight:** Unknown				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					pet. It is unknown if FL was used in the past. The owner says her pet has developed allergy, and initially she says she does not believe it is related to FL, but later she claims she does not know whether it was caused by the fleas or by FL. Similar cases reported on 18BR006224 to 18BR006228. The environment has been treated with Colosso® and Bolfo®. No further information is available.
01-Oct-2018	UAE; 18BR006230; MG; Brazil	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hana, a White female West Highland of 8 years old and 4.8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (023/17 and unknown exp date, topical, btw the shoulder blades), applied by the reporter on 27 Sep 2018, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. The environment has not been treated and FL has been applied every 45 days since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
02-Oct-2018	UAE; 18BR006232; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 8.50 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a male Yorkshire of 8.5 years old and 2.5 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, parts of the body), applied by the reporter on 26 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since 1 Jan 2017 - chosen at random. A similar case was reported on 18BR006233. No further information is expected.
02-Oct-2018	UAE; 18BR006233; MG; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Siamese of 8 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, parts of the body), applied by the reporter on 26 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). A similar case was reported on 18BR006232. No further information is expected.
03-Oct-2018	UAE; 18BR006237; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Jan-2016*	03-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chica, a female Shih Tzu of 5 years old and 7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (30 Sep 2018), for flea treatment. Lack of efficacy is

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		Age: 5.00 Year(s) **Weight:** 7 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					suspected because the pet remains with fleas. In addition, the pet is scratching herself due to fleas. The environment has not been treated. FL was applied 2 years ago with no issue (1 Jan 2016 - chosen at random). Similar cases reported on 18BR006238 and 18BR006239. No further information is expected.
03-Oct-2018	UAE; 18BR006238; SP; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Magrelo, a male Dachshund of 8 months old and 8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (30 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. The environment has not been treated and it is unknown if FL has previously been applied. Similar cases reported on 18BR006237 and 18BR006239. No further information is expected.
03-Oct-2018	UAE; 18BR006239; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marlom, a male Cocker of 11 months old and 8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (30 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. The environment has not been treated and it is unknown if FL has previously been applied. Similar cases reported on 18BR006237 and 18BR006238. No further information is expected.
03-Oct-2018	UAE; 18BR006246; RS; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	03-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tica, a female Lhasa Apso of 6 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. This dog does not have outdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR006247. The environment has been treated with Talfon Top®. No further information is available.
03-Oct-2018	UAE; 18BR006247; RS; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Jan-2017*	03-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Xuxa, a female Pekingese of 2 years old and 1 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. This dog does not have outdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR006246. The environment has been treated with Talfon Top®. No further information is available.
03-Oct-2018	UAE; 18BR006248; SP; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 50 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	03-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pelé, a male Labrador of 10 years old and 50 kg, received FRONTLINE PLUS DOG XL (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 19 Sep 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. This dog has outdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). There are other dogs living in this household that also received FL and have no issue. The environment has been treated with Butox®. No further information is available.
03-Oct-2018	UAE; 18BR006251; MT; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Sep-2018	03-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ricardo, a male German Shepherd Dog of 2 months old and 8.5 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter 30 days ago (3 Sep 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. The environment has been treated with amitraz. A similar case was reported on 18BR006252. There is another dog in this household that was treated with another product and it has no issue. No further information is expected.
03-Oct-2018	UAE; 18BR006252; MT; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Sep-2018	03-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Down, a male German Shepherd Dog of 2 months old and 7.5 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter 30 days ago (3 Sep 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. The environment has been treated with amitraz. A similar case was reported on 18BR006251. There is another dog in this household that was treated with another product and it has no issue. No further information is expected.
02-Oct-2018	UAE; 18BR006261; -; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 1.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Sep-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a female dog of 3 months old (other signalment is unknown), was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Sep 2018 - chosen at random), for flea/tick treatment. Lack of efficacy is suspected because the pet is scratching itself. No ectoparasites were reported. This is the extent of the information available. UPDATE 9 Oct 2018 - The pet owner informed that Horana, a female Shih Tzu of 4 months old and 1.9 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (5 Sep 2018 – estimated date) for flea and tick treatment. Another dose of FL was applied on 5 Oct 2018 because she continued to see fleas and ticks on her pet. The environment has not been treated. No further information is

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											expected.
03-Oct-2018	UAE; 18BR006262; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	26-Sep-2018	26-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sansão, a 6-year-old, 14 kg, male, crossbred dog, was treated with FRONTLINE SPRAY (FL) (013/16, exp unknown), topic, right after bath, between the shoulder blades and near the tail, by the reporter, on 26 Sep 2018 and 2 Oct 2018, for flea treatment. Lack of efficacy suspected because the dog is still infested by fleas . Flea infestation 5 months prior to FL, environment treated with Butox. It is unknown if FRONTLINE was applied to the dog in the past. No further information is available.
03-Oct-2018	UAE; 18BR006264; RS; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Sep-2018	03-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Negrinho, a male small crossbred dog of 1 year old and 10 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (009/17 and unknown exp date, topical, btw the shoulder blades), applied by the reporter one week ago (26 Sep 2018), for tick treatment. Lack of efficacy is suspected because the number of ticks on her pet has increased. The environment has been treated with cypermethrin. The pet has no outdoor access. No further information is expected.
03-Oct-2018	UAE; 18BR006265; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sirius, a male mixed breed cat of 2 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. It is unknown if FL has previously been applied. Similar cases reported on 18BR006266 to 18BR006269. No further information is expected.
03-Oct-2018	UAE; 18BR006266; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sucri, a male mixed breed cat of 14 months old and 3.7 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. It is unknown if FL has previously been applied. Similar cases reported on 18BR006265, 18BR006267 to 18BR006269. No further information is expected.

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03-Oct-2018	UAE; 18BR006267; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 2.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female mixed breed cat of 18 months old and 2.3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. It is unknown if FL has previously been applied. Similar cases reported on 18BR006265, 18BR006266, 18BR006268 and 18BR006269. No further information is expected.
03-Oct-2018	UAE; 18BR006268; SP; Brazil	**Species:** Other **Breed:** - **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Adelaide, a male mixed breed cat of 7 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. It is unknown if FL has previously been applied. Similar cases reported on 18BR006265, 18BR006266, 18BR006267 and 18BR006269. No further information is expected.
03-Oct-2018	UAE; 18BR006269; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Peixinho, a male mixed breed cat of 7 months old and 2.5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. It is unknown if FL has previously been applied. Similar cases reported on 18BR006265 to 18BR006268. No further information is expected.
04-Oct-2018	UAE; 18BR006271; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teddy, a male Lhasa Apso of 4 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 30 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
01-Oct-2018	UAE; 18BR006275; PR; Brazil	**Species:** Canine **Breed:** Medium	1	1	0	**Product used:** FIPRONIL SPOT ON DOG	30-Jun-2018*	01-Oct-2018*	5 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Biscoito, a male medium crossbred dog of 8 years old and 12 kg, received, for the second time, one vial of FRONTLINE SPOT-ON

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		crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					DOG M (FL) (013/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 27 Aug 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Biscoito has flea allergic dermatitis. The environment has been treated with deltamethrin and FL was applied for the first time on 30 Jun 2018 (estimated date). The pet has no outdoor access. Similar cases reported on 18BR006276 and 18BR006277. No further information is expected.
01-Oct-2018	UAE; 18BR006276; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Jun-2018*	01-Oct-2018*	5 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Polenta, a female medium crossbred dog of 6 years old and 19 kg, received, for the second time, one vial of FRONTLINE SPOT-ON DOG M (FL) (013/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 27 Aug 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has been treated with deltamethrin and FL was applied for the first time on 30 Jun 2018 (estimated date). The pet has no outdoor access. Similar cases reported on 18BR006275 and 18BR006277. No further information is expected.
01-Oct-2018	UAE; 18BR006277; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Jun-2018*	01-Oct-2018*	5 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Foxie, a female medium crossbred dog of 13 years old and 11 kg, received, for the second time, one vial of FRONTLINE SPOT-ON DOG M (FL) (013/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 27 Aug 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has been treated with deltamethrin and FL was applied for the first time on 30 Jun 2018 (estimated date). The pet has no outdoor access. Similar cases reported on 18BR006275 and 18BR006276. No further information is expected.
04-Oct-2018	UAE; 18BR006279; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	04-Sep-2018	04-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female small crossbred dog of 14 years old and 10 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 4 Sep 2018 and 14 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. No further information is expected.
04-Oct-2018	UAE; 18BR006282; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2018*	11-Sep-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toby, a male small crossbred dog of 5 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Sep 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. The owner applied another brand's product on date not informed and says his pet does not have fleas anymore. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					reported on 18BR006283 to 18BR006286. The environment has been treated with K-Othrine. No further information is available.
04-Oct-2018	UAE; 18BR006283; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Sep-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fred, a male small crossbred dog of 3 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Sep 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. The owner applied another brand's product on date not informed and says his pet does not have fleas anymore. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006282 and 18BR006284 to 18BR006286. The environment has been treated with K-Othrine. No further information is available.
04-Oct-2018	UAE; 18BR006284; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Sep-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lilica, a female small crossbred dog of 3 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Sep 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. The owner applied another brand's product on date not informed and says his pet does not have fleas anymore. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006282, 18BR006283, 18BR006285 and 18BR006286. The environment has been treated with K-Othrine. No further information is available.
04-Oct-2018	UAE; 18BR006285; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Sep-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Perla, a female small crossbred dog of 3 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Sep 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. The owner applied another brand's product on date not informed and says his pet does not have fleas anymore. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006282 to 18BR006284 and 18BR006286. The environment has been treated with K-Othrine. No further information is available.
04-Oct-2018	UAE; 18BR006286; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Sep-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bile, a male small crossbred dog of 3 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Sep 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. The owner applied another brand's product on date not informed and says his pet does not have fleas anymore. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006282 to 18BR006285. The environment has been treated with K-Othrine. No further information is available.

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03-Oct-2018	UAE; 18BR006289; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Pregnant **Age:** 18.00 Month(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female pregnant Golden of 18 months old and 27 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. Similar cases reported on 18BR006291 and 18BR006292. No further information is expected.
03-Oct-2018	UAE; 18BR006290; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE SPOT-ON (FL) (unsubstantiated) (lot and exp date, route and application spot unknown), administered by the reporter on date not informed (10 Sep 2018 – estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This is the extent of the information available.
03-Oct-2018	UAE; 18BR006291; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinha, a female mixed breed cat of 7 months old and 1.5 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. Similar cases reported on 18BR006289 and 18BR006292. No further information is expected.
03-Oct-2018	UAE; 18BR006292; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Pregnant **Age:** 14.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female mixed breed cat of 14 months old and 2 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. Similar cases reported on 18BR006289 and 18BR006291. No further information is expected.
03-Oct-2018	UAE; 18BR006298; -; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	N/A	03-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a Lhasa Apso of unknown signalment, received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and application site unknown), applied by the reporter on date not informed (1 Oct 2018 chosen at random) for flea treatment. The owner believes that FL is not working because he continues to see fleas on his pet. This is the extent of the information available.

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						Route: unknown **Was the product used ok?:** Unknown to Company					
04-Oct-2018	UAE; 18BR006304; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of unknown signalment, received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and application site unknown), applied by the reporter on date not informed (10 Sep 2018 chosen at random) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This is the extent of the information available.
04-Oct-2018	UAE; 18BR006306; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2008*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pedro, a male mixed breed cat of 12 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly for the past 10 years (first dose on date not specified - 1 Jan 2008). Similar cases reported on 18BR006307 to 18BR006311. No further information is expected.
04-Oct-2018	UAE; 18BR006307; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Piter Park, a male mixed breed cat of 8 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly (first dose on date not specified - 1 Jan 2015). Similar cases reported on 18BR006306, 18BR006308 to 18BR006311. No further information is expected.
04-Oct-2018	UAE; 18BR006308; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Jan-2015*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female mixed breed cat of 6 years old and 5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly (first dose on date not specified - 1 Jan 2008 chosen at random). Similar cases reported on 18BR006306, 18BR006307, 18BR006309 to 18BR006311. No further information is expected.

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						product used ok?: Yes					
04-Oct-2018	UAE; 18BR006309; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Agatha, a female mixed breed cat of 8 years old and 7 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly (first dose on date not specified - 1 Jan 2015 chosen at random). Similar cases reported on 18BR006306 to 18BR006308, 18BR006310 and 18BR006311. No further information is expected.
04-Oct-2018	UAE; 18BR006310; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Priscila, a female mixed breed cat of 5 years old and 5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly (first dose on date not specified - 1 Jan 2015). Similar cases reported on 18BR006306 to 18BR006309 and 18BR006311. No further information is expected.
04-Oct-2018	UAE; 18BR006311; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	04-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female mixed breed cat of 4 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (005/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied monthly (first dose on date not specified - 1 Jan 2008). Similar cases reported on 18BR006306 to 18BR006310. No further information is expected.
03-Oct-2018	UAE; 18BR006315; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 6 years old and 4.2 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 21 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and it is unknown if FL has previously been applied. Similar case reported on 18BR006316. No further information is expected.
02-Oct-2018	UAE; 18BR006316;	**Species:** Canine **Breed:** Canine	2	2	0	**Product used:** FIPRONIL SPOT	N/A	05-Sep-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via family member, an unknown number of dogs of unknown

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	PR; Brazil	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by an unknown person on date not specified (1 Sep 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the animals remained with fleas. Another product was administered and the animals are currently free of fleas. Similar case reported on 18BR006315. No further information is available.
04-Oct-2018	UAE; 18BR006318; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 43 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	05-Jun-2018*	10-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 dogs of unknown signalment were treated with FRONTLINE SPOT-ON (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Sep 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dogs remain with fleas. This is the extent of the information available. UPDATE 8 Oct 2018 - The pet owner informed that Marley, a male large crossbred dog of 7 years old and 43 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 5 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet after approximately 4 months of treatment (dose frequency - monthly, date of first administration was not provided - 5 Jun 2018 chosen at random). Similar case reported on 18BR006365. The environment has been treated with unknown product. No further information is expected.
05-Oct-2018	UAE; 18BR006320; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	05-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dory, a female large crossbred dog of 2 years old and 30 kg, received FRONTLINE SPOT-ON DOGS L (FL) (010/17, exp date 28 Feb 2019, topical, btw the shoulder blades), administered by the reporter on 1 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was applied 6 months ago with no issue (1 Apr 2018 - estimated date). The environment has not been treated. No further information is available.
04-Oct-2018	UAE; 18BR006332; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3.5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	04-Oct-2018*	3 Day(s)	D-D	Suspected Lack of efficacy Claim: As reported by the pet owner, Manu, a female Pomeranian of 8 years old and 3.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (038/17, Sep 2019, topical, btw the shoulder blades), applied by the reporter on 1 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006338 and 18BR006339. There is an untreated cat in this household and it also has fleas. No further information is expected.
05-Oct-2018	UAE; 18BR006336; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	N/A	05-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Felicia, a female medium crossbred dog of 12 years old and 15 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 3 weeks ago (14 Sep 2018), for flea treatment. Lack of

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 12.00 Year(s) **Weight:** 15 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					efficacy is suspected because the pet remains with fleas . The environment has not been treated and it is unknown if FL has previously been applied. There is another dog in this household with the same issue (see case 18BR006337). No further information is expected.
05-Oct-2018	UAE; 18BR006337; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Paçoca, a female medium crossbred dog of 3.5 years old and 12 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 3 weeks ago (14 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has not been treated and it is unknown if FL has previously been applied. There is another dog in this household with the same issue (see case 18BR006336). No further information is expected.
04-Oct-2018	UAE; 18BR006338; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3.5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	04-Oct-2018*	3 Day(s)	D-D	Suspected Lack of efficacy Claim: As reported by the pet owner, Lucy, a female Pomeranian of 4 years old and 3.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and epx date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has not been treated. Similar cases reported on 18BR006332 and 18BR006339. There is an untreated cat in this household and it also has fleas. No further information is expected.
04-Oct-2018	UAE; 18BR006339; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	04-Oct-2018*	3 Day(s)	D-D	Suspected Lack of efficacy Claim: As reported by the pet owner, Valetim, a male Pomeranian of 6 years old and 3.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and epx date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Oct 2018 for the first time, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006332 and 18BR006338. There is an untreated cat in this household and it also has fleas. No further information is expected.
05-Oct-2018	UAE; 18BR006340; RJ; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2018*	04-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Nino, a male neutered mixed breed cat of approximately 7 years old and 5 kg, was treated with FRONTLINE SPRAY (FL) (002/17, unknown exp date, topical, whole body - except the head), applied by the reporter on 4 Oct 2018, for flea treatment. The pet was in good health prior to FL and has no history of adverse reactions . Some hours after product application, the pet started presenting tremors, apathy, hypersalivation and anorexia. The pet was bathed, but he

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						Was the product used ok?: No (Treatment / vaccination program not respected)					didn't show any improvement. So, Nino was taken to the vet clinic, where was treated with antitoxic. The pet also prescribed dipyrone and coconut water. The symptoms are still ongoing. FL was applied in the past with no issue (first application not provided - 1 Jan 2018 chosen at random). No further informations is available.
05-Oct-2018	UAE; 18BR006349; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg	3	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Oct-2018	05-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Cara de Urso, a male crossbred cat of 2 years old and 2.5 kg, received FRONTLINE SPRAY (FL) (015/16, exp date unknown, topical, neck and back) for the first time, administered by the reporter on 5 Oct 2018 for flea treatment. Cara de Urso was in good health prior to FL. Right after product administration the animal became aggressive. Signals are still ongoing. Related case reported on 18BR006350. No further information is available.
05-Oct-2018	UAE; 18BR006350; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, one female cat of unknown signalment, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical), administered by the reporter on date not informed (1 Jan 2018 - chosen at random) for flea treatment. The cat was in good health prior to FL. After product administration the animal started to drool. The animal has recovered spontaneously on date not informed (2 Jan 2018 - chosen at random). Related case reported on 18BR006349. This is the extent of the information available.
08-Oct-2018	UAE; 18BR006351; SC; Brazil	**Species:** Canine **Breed:** Beagle **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bigão, a male Beagle of 10 years old and 20 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006352 to 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006352; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Baby, a male medium crossbred dog of 3 years old and 12 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no

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		Unknown **Age:** 3.00 Year(s) **Weight:** 12 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 and 18BR006353 to 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006353; SC; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nininha, a female small crossbred dog of 2 years old and 5 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351, 18BR006352 and 18BR006354 to 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006354; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Linda, a female medium crossbred dog of 7 years old and 12 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 to 18BR006353 and 18BR006355 to 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006355; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female medium crossbred dog of 5 years old and 15 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 to 18BR006354 and 18BR006356 to 18BR006359. The environment has been treated with Butox®. No further information is available.

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08-Oct-2018	UAE; 18BR006356; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lady, a female medium crossbred dog of 5 years old and 12 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 to 18BR006355 and 18BR006357 to 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006357; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinho, a male medium crossbred dog of 9 years old and 10 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 to 18BR006356, 18BR006358 and 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006358; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Boby, a male medium crossbred dog of 11 years old and 15 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail), applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006351 to 18BR006357 and 18BR006359. The environment has been treated with Butox®. No further information is available.
08-Oct-2018	UAE; 18BR006359; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	23-Sep-2018	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zu, a female medium crossbred dog of 9 months old and 14 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, from neck to tail) for the first time, applied by the pet owner on 23 Sep 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. Similar cases reported on 18BR006351 to 18BR006358. The environment has been treated with Butox®. No further information is available.

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						ok?: No (Treatment / vaccination program not respected)					
08-Oct-2018	UAE; 18BR006360; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 39 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	08-Oct-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pandora, a female Golden of 3 years old and 39 kg, was treated with one vial of FRONTLINE SPOT-ON DOG L (FL) (001/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 10 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). The pet has outdoor access. There is another dog in this household with the same issue (see case 18BR006361). No further information is expected.
08-Oct-2018	UAE; 18BR006361; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	08-Oct-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sara, a female Golden of 3 years old and 30 kg, was treated with one vial of FRONTLINE SPOT-ON DOG L (FL) (001/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 10 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). The pet has outdoor access. There is another dog in this household with the same issue (see case 18BR006360). No further information is expected.
08-Oct-2018	UAE; 18BR006362; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	08-Oct-2018*	4 Week(s) 5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofie, a female mixed breed cat of 15 months old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (007/16, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 5 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and it is unknown if FL has previously been applied. Similar cases reported on 18BR006363 and 18BR006364. No further information is expected.
08-Oct-2018	UAE; 18BR006363; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	08-Oct-2018*	4 Week(s) 5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zé, a male mixed breed cat of 2 years old and 7 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (007/16, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 5 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and it is unknown if FL has previously been applied . Similar cases reported on 18BR006362 and 18BR006364. No further information is expected.
08-Oct-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	N/A	08-Oct-2018*	4 Week(s) 5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR006364; SP; Brazil	**Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					João, a male mixed breed cat of 2 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (007/16, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 5 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and it is unknown if FL has previously been applied . Similar cases reported on 18BR006362 and 18BR006363. No further information is expected.
04-Oct-2018	UAE; 18BR006365; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jun-2018*	10-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Malu, a female medium crossbred dog of 20 months old and 18 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 5 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet after approximately 4 months of treatment (dose frequency - monthly, date of first administration was not provided - 5 Jun 2018 chosen at random). Similar case reported on 18BR006318. The environment has been treated with unknown product. No further information is available.
08-Oct-2018	UAE; 18BR006369; RJ; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female large crossbred dog of 1 year old and 20 kg, was treated with FRONTLINE SPRAY (FL) (015/16, unknown exp date, topical, whole body), applied by the reporter on 23 Sep 2018, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. The environment has been treated with Butox®. FL has been applied every 6 months (first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006370. No further information is expected.
08-Oct-2018	UAE; 18BR006370; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	08-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luck, a female small crossbred dog 1 year old and 10 kg, was treated with FRONTLINE SPRAY (FL) (015/16, unknown exp date, topical, whole body), applied by the reporter on 23 Sep 2018, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. The environment has been treated with Butox®. FL has been applied every 6 months (first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006369. No further information is expected.
08-Oct-2018	UAE; 18BR006371; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	N/A	08-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by a retail shop staff member, Duck, a male Maltese of 4 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 17 Sep 2018 for flea prevention. The owner believes that FL is not working because she started to see fleas on her pet. It is unknown if FL was used in the past. This dog does not have outdoor access. The environment has not been treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					
08-Oct-2018	UAE; 18BR006372; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	08-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Orio, a male crossbred cat of 5 months old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 2 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
05-Oct-2018	UAE; 18BR006374; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	05-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female cat of unknown signalment was treated with one vial of FRONTLINE PLUS CATS (FL) (lot, exp date, route and location are unknown), applied by the reporter on 14 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL has previously been applied. No further information is available. UPDATE 11 OCT 2018 - Carmen, a female small crossbred dog of 4 years old and 4.5 kg, was treated with FL, topical, btw the shoulder blades. Environment treated with cypermethrin. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is expected.
06-Oct-2018	UAE; 18BR006378; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	08-Oct-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female Maltese of 7 years old and 3 kg, was treated with FRONTLINE PLUS DOG S (FL) (038/17, Sep 2019, topical, btw the shoulder blades), applied by the reporter on 27 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. FL is only applied when the owner sees fleas on her animals (first application was not provided - 1 Jan 2017 - chosen at random). A similar case was reported on 18BR006379. There are 2 cats in this household that were treated with another product and they have no issue. No further information is expected.
06-Oct-2018	UAE; 18BR006379; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	05-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Yorkshire of 5 years old and 2.5 kg, was treated with FRONTLINE PLUS DOG S (FL) (038/17, Sep 2019, topical, btw the shoulder blades), applied by the reporter on 27 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. FL is only applied when the owner sees fleas on her animals (first application was not provided - 1 Jan 2017 - chosen at random). A similar case was reported on 18BR006378. There are 2 cats in this household that were treated with another product and they have no issue. No further information is expected.

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08-Oct-2018	UAE; 18BR006380; SP; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	08-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pandora, a female mixed breed dog of 2 years old and unknown weight, was treated with an unknown dose of FRONTLINE SPOT-ON DOG XL (FL) (009/16, unknown exp date, topical, btw the shoulder blades and back - product was fractioned), applied by the reporter one week ago (1 Oct 2018), for flea control. Lack of efficacy is suspected because the pet has fleas. The environment has not been treated and it is unknown if FL has previously been applied. No further information is expected.
08-Oct-2018	UAE; 18BR006385; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	02-Oct-2018*	05-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cleo, a male crossbred cat of 6 years old, received FRONTLINE SPRAY (FL) (006/17, exp date unknown, topical, whole body), applied by the pet owner on date not specified (2 Oct 2018 - estimated date) for flea treatment. Another application of FL was made on 6 Oct 2018 because the owner believes that FL is not working due to the presence of fleas on her pet. There is an untreated cat living in this household. Similar case reported on 18BR006386. The environment has not been treated. No further information is available.
08-Oct-2018	UAE; 18BR006386; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	02-Oct-2018*	05-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luno, a male crossbred cat of 6 years old, received FRONTLINE SPRAY (FL) (006/17, exp date unknown, topical, whole body), applied by the pet owner on date not specified (2 Oct 2018 - estimated date) for flea treatment. Another application of FL was made on 6 Oct 2018 because the owner believes that FL is not working due to the presence of fleas on her pet. There is an untreated cat living in this household. Similar case reported on 18BR006385. The environment has not been treated. No further information is available.
09-Oct-2018	UAE; 18BR006387; RS; Brazil	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	09-Sep-2018	09-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Izzye, a male Pug of 4 months old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 9 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. The environment has not been treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					
09-Oct-2018	UAE; 18BR006391; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	09-Oct-2018*	6 Week(s) 2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Glei, a male crossbred cat of 1 year old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, back), applied by the reporter on 26 Aug 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006392. The environment has not been treated. No further information is available.
09-Oct-2018	UAE; 18BR006392; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	09-Oct-2018*	6 Week(s) 2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female crossbred cat of 1 year old and 3.5 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, back), applied by the reporter on 26 Aug 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006391. The environment has not been treated. No further information is available.
08-Oct-2018	UAE; 18BR006396; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Jan-2008	08-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cacau, a female Siamese of 3 years old and 6.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (021/16, unknown exp date, topical, btw the shoulders), applied by the reporter on 8 Oct 2018, for flea treatment. The pet was in good health prior to FL and has no history of adverse reactions . Some hours after product application, the pet presented with 1 episode of diarrhea. No vet care was provided. This is the extent of the information available.
07-Oct-2018	UAE; 18BR006397; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Jan-2017*	30-May-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female medium crossbred dog of 3 years old and 17 kg, received FRONTLINE PLUS DOG M (FL) (004/16, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Aug 2018 for flea treatment. She believes that FL is not

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		Sex qualifier: Unknown **Age:** 3.00 Year(s) **Weight:** 17 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					working because she sees flea feces on the bed and her pet continues to itch. Previous application of FL had the same issue (date not specified - 25 May 2018 - estimated date). FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with Butox®. No further information is available.
09-Oct-2018	UAE; 18BR006399; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2014*	09-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Doug, a male Shih Tzu of 4 years old and 4.3 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 2 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL has been applied monthly for the past 4 years (first application on 1 Jul 2014 - chosen at random). No further information is expected. UPDATE 10 OCT 2018 - The pet remains with fleas. No further information is expected.
09-Oct-2018	UAE; 18BR006400; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	06-Oct-2018	09-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julia, a female Yorkshire of 3 months old and 2.5 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 6 Cct 2018, 7 Oct 2018 and 8 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. Similar cases reported on 18BR006401, 18BR006402, 18BR006403 and 18BR006404. No further information is expected.
09-Oct-2018	UAE; 18BR006401; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	06-Oct-2018	09-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pingo, a male Maltese of 4 years old and 6 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 6 Oct 2018, 7 Oct 2018 and 8 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. Similar cases reported on 18BR006400, 18BR006402, 18BR006403 and 18BR006404. No further information is expected.
09-Oct-2018	UAE; 18BR006402; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPRAY **Other products**	06-Oct-2018	09-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rian, a male Shih Tzu of 4 years old and 8 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 6 Oct 2018, 7 Oct 2018

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		Unknown **Age:** 4.00 Year(s) **Weight:** 8 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					and 8 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. Similar cases reported on 18BR006400, 18BR006401, 18BR006403 and 18BR006404. No further information is expected.
09-Oct-2018	UAE; 18BR006403; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	06-Oct-2018	09-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female mixed breed cat of 6 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 6 Cct 2018, 7 Oct 2018 and 8 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. Similar cases reported on 18BR006400, 18BR006401, 18BR006402 and 18BR006404. No further information is expected.
09-Oct-2018	UAE; 18BR006404; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	06-Oct-2018	09-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Paco, a male mixed breed cat of 3 years old and 5 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 6 Oct 2018, 7 Oct 2018 and 8 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment was fumigated. Similar cases reported on 18BR006400, 18BR006401, 18BR006402 and 18BR006403. No further information is expected.
09-Oct-2018	UAE; 18BR006406; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Aug-2018*	24-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Aladin, a male Cocker of 20 months old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 24 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet after 2 applications of the product (date of first administration was not specified - 24 Aug 2018 - estimated date). The environment has been not treated. No further information is available.

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09-Oct-2018	UAE; 18BR006411; PR; Brazil	**Species:** Canine **Breed:** Schnauzer **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	09-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobi, a male Schnauzer of 10 years old and 7 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (F) (009/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 19 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and FL has previously been applied with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is expected. UPDATE 11 OCT 2018 - The pet remains with fleas. No further information is expected.
09-Oct-2018	UAE; 18BR006414; PR; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	09-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toquinho, a male Pinscher of 5 months old and 1.2 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR006415. The environment has not been treated. No further information is available.
09-Oct-2018	UAE; 18BR006415; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	09-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Messi, a male crossbred cat of 1 year old and 2.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR006414. The environment has not been treated. No further information is available.
10-Oct-2018	UAE; 18BR006434; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	10-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chena, a female large crossbred dog of 9 years old and 30 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 26 Sep 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. The environment has been treated with Triatox®. No further information is available.
10-Oct-2018	UAE; 18BR006438; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-Jan-2018*	10-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ariel, a female crossbred cat of 2 years old and 6 kg, received FRONTLINE PLUS CATS (FL) (008/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 20 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated by a specialized company. No

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 6 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					further information is available.
08-Oct-2018	UAE; 18BR006439; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	08-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one female dog of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date are unknown), applied 'per the product label' by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. The owner believes that FL is not working because she continued to see fleas 4 days after product application. The environment has been treated with an unknown product and it is unknown if FL has previously been applied. This is the extent of the information available. UPDATE 11 OCT 2018 - Sofie, a female Lhasa Apso of approximately 6 years old and 6 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL), topical, btw the shoulder blades, applied by the reporter 2 weeks ago (27 Sep 2018), for flea treatment. The pet remains with fleas. The environment has been treated with an unknown product and FL was previously applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is expected.
10-Oct-2018	UAE; 18BR006443; SP; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018	10-Oct-2018	16 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Toy, a male Pekingese of 1 year old and 4.3 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 24 Sep 2018, for flea treatment. The pet was in good health prior to FL and has no history of adverse reactions. On 10 Oct 2018, the owner noticed a lesion with pus of 4 cm at the application site. No vet care was provided. FL was applied in the past with no issue (first application was not provided - 1 Jan 2018 chosen at random). This is the extent of the information available.
10-Oct-2018	UAE; 18BR006452; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	10-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female Yorkshire of 3 years old and 1.2 kg, received a fractionated dose FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006453 and 18BR006454. The environment has not been treated. No further information is available. UPDATE 30 Oct 2018 - The owner informed that his pet was treated with another brand's product and has no more fleas. No further information is expected.
10-Oct-2018	UAE; 18BR006453;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	N/A	10-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tempestade, a female crossbred cat of 3 years old and 3 kg,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	SP; Brazil	mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					received a fractionated dose FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006452 and 18BR006454. The environment has not been treated. No further information is available. UPDATE 30 Oct 2018 - The owner informed that his pet was treated with another brand's product and has no more fleas. No further information is expected.
10-Oct-2018	UAE; 18BR006454; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	10-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alvoroço, a male crossbred cat of 1.5 years old and 4 kg, received a fractionated dose FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006452 and 18BR006453. The environment has not been treated. No further information is available. UPDATE 30 Oct 2018 - The owner informed that his pet was treated with another brand's product and has no more fleas. No further information is expected.
10-Oct-2018	UAE; 18BR006466; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs received FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). The owner believes that FL is not working (details not provided). Other SLOE case reported on 18BR006467. This is the extent of the information available. UPDATE 17 OCT 2018 - Paquita, a female Pinscher of 3 years old and 2.7 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR0065467, 18BR006592 to 18BR006596. No further information is expected.
10-Oct-2018	UAE; 18BR006467; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 21.00	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats received FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). The owner believes that FL is not working (details not provided). Other SLOE case reported on 18BR006467. This is the extent of the information available. UPDATE 17 OCT 2018 - Milkie, a male mixed breed cat of 21 months old and 2.5 kg, was treated

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Month(s) **Weight:** 2.5 kg				**Was the product used ok?:** Yes					with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006592 to 18BR006596. No further information is expected.
11-Oct-2018	UAE; 18BR006478; SP; Brazil	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 13.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2017*	11-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female Poodle of 13 years old and 13.9 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 26 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has not been treated. No further information is available.
11-Oct-2018	UAE; 18BR006479; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	11-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Poodle of 9 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (018/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 21 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). This dog has outdoor access. The environment has been treated with Triatox®. No further information is available.
11-Oct-2018	UAE; 18BR006484; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	26-Aug-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chitooti, a female crossbred cat of 3 years old and 5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 11 Aug 2018 for flea treatment. She believed that FL was not working because she continued to see fleas on her pet, so she has applied FRONTLINE SPRAY (lot and exp date unknown, topical, neck and back) on her pet weekly since date no specified (first dose - 26 Aug 2018 - estimated date, last dose - 7 Oct 2018 - estimated date). Similar case reported on 18BR006485. The environment has been treated with unknown product. No further information is available.
11-Oct-2018	UAE; 18BR006485; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL SPRAY; **Route:** Topical /	N/A	26-Aug-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ronron, a male crossbred cat of 1 year old and 5.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 11 Aug 2018 for flea treatment. She believed that FL was not working because she continued to see fleas on her pet, so she has applied FRONTLINE SPRAY (lot and exp date unknown, topical, neck and back) on her pet weekly since date no specified (first dose - 26

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 5.5 kg				Cutaneous **Was the product used ok?:** Yes					Aug 2018 - estimated date, last dose - 7 Oct 2018 - estimated date). Similar case reported on 18BR006484. The environment has been treated with unknown product. No further information is available.
15-Oct-2018	UAE; 18BR006491; SC; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	13-Oct-2018	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Manu, a female Yorkshire of 9 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 5 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). This dog has outdoor access. The environment has been treated with diazinon. No further information is available. UDPATE 18 OCT 2018 - The pet still has fleas. No further information is expected.
15-Oct-2018	UAE; 18BR006496; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	14-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rebeca, a female Yorkshire of 9 years old and 2.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). This dog has outdoor access. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006497; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	14-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female Shih Tzu of 1 year old and 2.8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 11 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2017 chosen at random). This dog does not have outdoor access. Similar case reported on 18BR006498. The environment has been treated with unknown product. No further information is available.
15-Oct-2018	UAE; 18BR006498; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2017*	14-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kevin, a male Shih Tzu of 1 year old and 3.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 11 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2017 chosen at random). This dog does not have outdoor access. Similar case reported on 18BR006497. The environment has been treated with unknown product. No further information is available.

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						ok?: Yes					
15-Oct-2018	UAE; 18BR006506; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2018	13-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Spike, a male medium crossbred dog of 8 months old and 13 kg, received FRONTLINE SPOT-ON DOGS M (FL) (013/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 13 Oct 2018 for flea treatment. She believes that FL is not working because her pet is still itching due to the fleas. This dog has outdoor access. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006510; PR; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	15-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Django, a male dog of unknown signalment, received FRONTLINE SPOT-ON DOGS M (FL) (019/16, exp date 30 Nov 2018, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. This dog does not have outdoor access. There is another dog that also received FL with no issue living in this household. Similar case reported on 18BR006511.The environment has been treated with unknown product. No further information is available.
15-Oct-2018	UAE; 18BR006511; PR; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 38 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	15-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Shedo, a female Golden Retriever of 7 years old and 38 kg, received FRONTLINE SPOT-ON DOGS M (FL) (019/16, exp date 30 Nov 2018, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. This dog does not have outdoor access. There is another dog that also received FL with no issue living in this household. Similar case reported on 18BR006510. The environment has been treated with unknown product. No further information is available.
15-Oct-2018	UAE; 18BR006516; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 10.4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Jul-2018*	15-Oct-2018*	4 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cleópatra, a female French Bulldog of 3 years old and 10.4 kg, received FRONTLINE SPOT-ON DOGS M (FL) (013/17, exp date 31 Mar 2019, topical, btw the shoulder blades), applied by the reporter on 13 Sep 2018 for flea prevention. She believes that FL is not working because her pet started to itch due to flea bites. No fleas were observed. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not specified - 15 July 2018 - estimated date). The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006517; SP; Brazil	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	01-Jan-2018*	15-Apr-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Suinha, a female Poodle of 12 kg, received FRONTLINE PLUS DOG M (FL) (019/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 30 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet for the last 6 months. FL was used in the past with no issue (dose frequency - monthly, date of first administration was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 12 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					not provided - 1 Jan 2018 chosen at random). It is unknown if the environment has been treated. No further information is available.
15-Oct-2018	UAE; 18BR006519; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.50 Year(s) **Weight:** 34 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	14-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jeck, a male Golden of 5.5 years old and 34 kg, was treated with one vial of FRONTLINE PLUS DOG XL (016/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. No further information is expected. UPDATE 17 OCT 2018 - An unknown product of other brand was applied and the pet is currently free of fleas. In adidition, the owner complained that FL was odorless (see case 18BR006599). No further information is expected.
15-Oct-2018	UAE; 18BR006521; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Cocker of 4 years old and 18 kg, received FRONTLINE PLUS DOG M (FL) (009/16, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar cases reported on 18BR006522 to 18BR006524. The environment has been treated with Decaplus®. No further information is available.
15-Oct-2018	UAE; 18BR006522; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Cocker of 2 years old and 18 kg, received FRONTLINE PLUS DOG M (FL) (009/16, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar cases reported on 18BR006521, 18BR006523 and 18BR006524. The environment has been treated with Decaplus®. No further information is available.
15-Oct-2018	UAE; 18BR006523; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	N/A	15-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snoop, a male Cocker of 2 years old and 18 kg, received FRONTLINE PLUS DOG M (FL) (009/16, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar cases reported on 18BR006521, 18BR006522 and 18BR006524. The environment has been treated with Decaplus®. No further information is available.

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						Was the product used ok?: Yes					
15-Oct-2018	UAE; 18BR006524; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marley, a male Cocker of 6 years old and 24 kg, received FRONTLINE SPOT-ON DOGS L (FL) (023/16, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 10 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar cases reported on 18BR006521 to 18BR006523. The environment has been treated with Decaplus®. No further information is available.
15-Oct-2018	UAE; 18BR006526; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Pregnant **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-Oct-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Megui, a female pregnant Yorkshire of 2 years old and 3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, whole body), administered by the reporter on 26 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL has been used monthly since date not specified (1 Mar 2018 - estimated date). Previous SLOE cases reported on 18BR006528 and 18BR006529. Similar case reported on 18BR006527. This dog has outdoor access. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006527; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-Oct-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, King, a male Yorkshire of 6 years old and 3.5 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, whole body), administered by the reporter on 26 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL has been used monthly since date not specified (1 Mar 2018 - estimated date). Previous SLOE cases reported on 18BR006528 and 18BR006529. Similar case reported on 18BR006526. This dog has outdoor access. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006528; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Pregnant **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-Mar-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Megui, a female pregnant Yorkshire of 2 years old and 3 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, whole body), administered by the reporter on date not specified (1 Mar 2018) for flea treatment. FL was applied again approximately 1 month later (1 Apr 2018 – estimated date). The owner believes that FL was not working because she continued to see fleas on her pet. Another brand's product was used after FL and the animal has recovered. Similar case reported on 18BR006529. This dog has outdoor access. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006529; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	01-Mar-2018*	15-Mar-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, King, a male Yorkshire of 6 years old and 3.5 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, whole body), administered by the reporter on date not specified (1 Mar 2018) for flea treatment. FL was applied again approximately 1 month later (1 Apr 2018 – estimated date). The owner believes that FL was not working because she continued to see fleas on her pet.

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		Weight: 3.5 kg				Cutaneous **Was the product used ok?:** Yes					Another brand's product was used after FL and the animal has recovered. Similar case reported on 18BR006528. This dog has outdoor access. The environment has not been treated. No further information is available.
16-Oct-2018	UAE; 18BR006531; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	15-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female crossbred feline of 1 year old and 3,5 kg, received FRONTLINE SPRAY (FL) (lot and exp unknown, topical, whole body, low dose), applied by the reporter 1 day ago (15 Oct 2018), for flea treatment. The owner believes that FL is not working because her cat still has fleas. It's unknown if FL was applied in the past. The environment has not been treated and the reporter has other animals (around 7 dogs) in the same household that have not been treated. Similar cases reported on 18BR006532 and 18BR006533. No further information is expected.
16-Oct-2018	UAE; 18BR006532; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	15-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snoopy, a male crossbred dog of 4 years old and 10 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp unknown, topical, whole body, low dose), applied by the reporter 1 day ago (15 Oct 2018), for flea treatment. The owner believes that FL is not working because her dog still has fleas. It's unknown if FL was applied in the past. The environment has not been treated and the reporter has other animals (around 7 dogs) in the same household that have not been treated. Similar cases reported on 18BR006531 and 18BR006533. No further information is expected.
16-Oct-2018	UAE; 18BR006533; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	15-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sasha, a female crossbred dog of 12 years old and 35 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp unknown, topical, whole body, low dose), applied by the reporter 1 day ago (15 Oct 2018), for flea treatment. The owner believes that FL is not working because her dog still has fleas. It's unknown if FL was applied in the past. The environment has not been treated and the reporter has other animals (around 7 dogs) in the same household that have not been treated. Similar cases reported on 18BR006531 and 18BR006532. No further information is expected.
16-Oct-2018	UAE; 18BR006540; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	16-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maicon, a male Poodle of 7 years old and 3 kg, received FRONTLINE SPRAY 100 ml (FL) (001/17, Dec 2018, topical, whole body), applied by the reporter 7 days ago (9 Oct 2018), for flea treatment. The owner believes that FL is not working because she continues to see live fleas on her pet. FL was applied in the past (dose frequency unknown) and the first application was not provided (1 Jan 2015 – chosen at random). The environment has not been treated. Similar case reported on 18BR006541. No further information is expected. UPDATE 18 OCT 2018 - PQC reported on 18BR006606. No further information is available.
16-Oct-2018	UAE; 18BR006541; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20	1	1	0	**Product used:** FIPRONIL SPRAY	09-Oct-2018	16-Oct-2018	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Iza Mel, a female crossbred dog of 2 years old and 10 kg, received FRONTLINE SPRAY 100 ml (FL) (001/17, Dec 2018, topical,

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		Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					whole body), applied by the reporter 7 days ago (9 Oct 2018, first application), for flea treatment. The owner believes that FL is not working because she continues to see live fleas on her pet. The environment has not been treated. Similar case reported on 18BR006540. No further information is expected. UPDATE 18 OCT 2018 - PQC reported on 18BR006606. No further information is expected.
16-Oct-2018	UAE; 18BR006542; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2018*	15-May-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chico, a male Shih Tzu of 7 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (9 May 2018 - estimated date) for flea treatment. Approximately 1 month later (9 Jun 2018 - estimated date), the animal started to receive FRONTLINE SPRAY (lot and exp date unknown, topical, whole body) monthly. Last application was made on 9 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR006543 to 18BR006545. The environment has not been treated. No further information is available.
16-Oct-2018	UAE; 18BR006543; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2018*	15-May-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Poodle of 16 years old and 3 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (9 May 2018 - estimated date) for flea treatment. Approximately 1 month later (9 Jun 2018 - estimated date), the animal started to receive FRONTLINE SPRAY (lot and exp date unknown, topical, whole body) monthly. Last application was made on 9 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR006542, 18BR006544 and 18BR006545. The environment has not been treated. No further information is available.
16-Oct-2018	UAE; 18BR006544; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-May-2018*	15-May-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofia, a female crossbred cat of 3 years old and 3 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (9 May 2018 - estimated date) for flea treatment. Approximately 1 month later (9 Jun 2018 - estimated date), the animal started to receive FRONTLINE SPRAY (lot and exp date unknown, topical, whole body) monthly. Last application was made on 9 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR006542, 18BR006543 and 18BR006545. The environment has not been treated. No further information is available.
16-Oct-2018	UAE; 18BR006545; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	09-May-2018*	15-May-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Momo, a female crossbred cat of 1 year old and 3 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (9 May 2018 - estimated date) for

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		Sex qualifier: Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg				**Other products used:** FIPRONIL SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					flea treatment. Approximately 1 month later (9 Jun 2018 - estimated date), the animal started to receive FRONTLINE SPRAY (lot and exp date unknown, topical, whole body) monthly. Last application was made on 9 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR006542 to 18BR006544. The environment has not been treated. No further information is available.
15-Oct-2018	UAE; 18BR006562; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Salem, a male mixed breed cat of 16 years old and 4.2 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR006563 to 18BR006566. There are two dogs in this household that were also treated with FL and they have no issue. No further information is expected.
15-Oct-2018	UAE; 18BR006563; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chiquinha, a female mixed breed cat of 14 years old and 4.4 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR006562, 18BR006564 to 18BR006566. There are two dogs in this household that were also treated with FL and they have no issue. No further information is expected.
15-Oct-2018	UAE; 18BR006564; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rebeca, a female mixed breed cat of 10 years old and 6 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR006562 to 18BR006563, 18BR006565 and 18BR006566. There are two dogs in this household that were also treated with FL and they have no issue. No further information is expected.
15-Oct-2018	UAE; 18BR006565; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fumaça, a male mixed breed cat of 10 years old and 6 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly. Similar cases reported on 18BR006562 to 18BR006564 and 18BR006566. There are two dogs in this household that were also treated with FL and they have no issue. No further information is expected.

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15-Oct-2018	UAE; 18BR006566; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 5.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	15-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tomate, a male mixed breed cat of 9 months old and 5.9 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL has been applied monthly since date not specified (1 Jul 2017 - chosen at random). Similar cases reported on 18BR006562 to 18BR006565. There are two dogs in this household that were also treated with FL and they have no issue. No further information is expected.
16-Oct-2018	UAE; 18BR006567; SC; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	16-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bolinha, a female Pitbull of 3 years old and 23 kg, received one vial of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 6 days ago (11 Oct 2018) for flea treatment. Flea infestation was seen 3 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. It's unknown if FL was applied in the past. The environment is monthly treated with Colosso®. No further information is expected.
15-Oct-2018	UAE; 18BR006570; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Jan-2018*	2 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Melissa, a female Yorkshire of 10 years old and 3 kg, received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), applied by the reporter on date not informed (1 Jan 2018 – chosen at random). Melissa was in good health prior to FL. Some time after product administration the animal experienced itching and crust formation on the skin. It is unknown if the animal was treated, and she recovered on date not informed (1 Feb 2018 – chosen at random). SLOE cases reported on 18BR006568 and 18BR006569. No further information is available.
17-Oct-2018	UAE; 18BR006578; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 3.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2008*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chaninha, a female crossbred cat of 10 years old and 3.2 kg, received FRONTLINE PLUS CATS (FL) (001/18, exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Oct 2008 - estimated date). Similar cases reported on 18BR006579 to 18BR006584. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006579; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-Oct-2009*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Neguinha, a female crossbred cat of 9 years old and 3 kg, received FRONTLINE PLUS CATS (FL) (001/18, exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency -

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 3 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					every 40 days, date of first administration was not provided - 1 Oct 2009 - estimated date). Similar cases reported on 18BR006578 and 18BR006580 to 18BR006584. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006580; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.50 Year(s) **Weight:** 2.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2014*	14-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Amora, a female crossbred cat of 4.5 years old and 2.1 kg, received FRONTLINE PLUS CATS (FL) (001/18, exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Oct 2014 - estimated date). Similar cases reported on 18BR006578, 18BR006579 and 18BR006581 to 18BR006584. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006581; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 1.4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Menina, a female crossbred cat of 1.5 years old and 1.4 kg, received FRONTLINE PLUS CATS (FL) (001/18, exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Jan 2018 - estimated date). Similar cases reported on 18BR006578 to 18BR006580 and 18BR006582 to 18BR006584. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006582; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tifani, a female crossbred cat of 1 year old and 2.2 kg, received FRONTLINE PLUS CATS (FL) (001/18, exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 40 days, date of first administration was not provided - 1 Jan 2018 - estimated date). Similar cases reported on 18BR006578 to 18BR006581, 18BR006583 and 18BR006584. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006583; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 13.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Oct-2015*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Valentina, a female medium crossbred dog of 4 years old and 13.5 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Oct 2015 - estimated date). Similar cases reported on 18BR006578 to 18BR006582 and 18BR006584. The environment

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006584; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 34 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2015*	16-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Eleonora, a female large crossbred dog of 4 years old and 34 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on dates not specified (14 Aug 2018 and 14 Sep 2018 - estimated dates) for flea treatment. Last dose of FL was applied on 14 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Oct 2015 - estimated date). Similar cases reported on 18BR006578 to 18BR006583. The environment has been treated with Butox® and K-Othrine®. No further information is available.
17-Oct-2018	UAE; 18BR006586; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	17-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female small crossbred dog of 2 years old and 10 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 9 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has been treated with unknown product. No further information is available.
15-Oct-2018	UAE; 18BR006587; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Brigipe, a female mixed breed cat of 3 years old and 4.5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 2 weeks ago (30 Sep 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL was applied in the past. Similar cases reported on 18BR006588 to 18BR006590. No further information is expected.
15-Oct-2018	UAE; 18BR006588; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bruck, a female mixed breed cat of 3 years old and 4.5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 2 weeks ago (30 Sep 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL was applied in the past. Similar cases reported on 18BR006587, 18BR006589 and 18BR006590. No further information is expected.
15-Oct-2018	UAE; 18BR006589; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg)	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	N/A	15-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bastião, a male large crossbred dog of 6 years old and 25 kg, received one vial of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied

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		Sex: M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 25 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					by the reporter around 2 weeks ago (30 Sep 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL was applied in the past. Similar cases reported on 18BR006587, 18BR006588 and 18BR006590. No further information is expected.
15-Oct-2018	UAE; 18BR006590; PR; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	15-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bida, a female Maltese of 10 years old and 5 kg, received one vial of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 2 weeks ago (30 Sep 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL was applied in the past. Similar cases reported on 18BR006587 to 18BR006589. No further information is expected.
17-Oct-2018	UAE; 18BR006591; RS; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 3.3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2018	17-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Baylei, a male Yorkshire of 1.5 years old and 3.3 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 5 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The environment has not been treated. No further information is available.
10-Oct-2018	UAE; 18BR006592; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bebe, a female mixed breed cat of 9 months old and 1.5 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006467, 18BR006593 to 18BR006596. No further information is expected.
10-Oct-2018	UAE; 18BR006593; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female mixed breed cat of 3 years old and 2.5 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006467, 18BR006592, 18BR006594 to 18BR006596. No further information is expected.
10-Oct-2018	UAE; 18BR006594; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10	1	1	0	**Product used:** FIPRONIL SPRAY	01-Jan-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tedy, a male small crossbred dog of 22 months old and 7 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown

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		Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 22.00 Month(s) **Weight:** 7 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006467, 18BR006592, 18BR006593, 18BR006595 and 18BR006596. No further information is expected.
10-Oct-2018	UAE; 18BR006595; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female small crossbred dog of 6 years old and 5 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. The pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006467, 18BR006592 to 18BR006594 and 18BR006596. No further information is expected.
10-Oct-2018	UAE; 18BR006596; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	09-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female small crossbred dog of 7 months old and 5 kg, was treated with FRONTLINE SPRAY 100 mL (FL) (001/17, unknown exp date, topical, whole body), applied by the reporter around 1 Oct 2018 (estimated date), for flea treatment. The pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox. Similar cases reported on 18BR006466, 18BR006467, 18BR006562 to 18BR006595. No further information is expected.
16-Oct-2018	UAE; 18BR006597; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2016*	16-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Banze, a male small crossbred dog of 5 years old and 9 kg, was treated, for the second time, with one vial of FRONTLINE PLUS (unsubstantiated) (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the repoter on 1 Oct 2018, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. FL was applied for the first time when the dog was 2 years old. The environment has not been treated. No further information is expected.
16-Oct-2018	UAE; 18BR006601; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2018*	12-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Siamese cat of 2 years old and 4 kg, received FRONTLINE SPRAY (FL) (014/16, exp date unknown, topical, whole body), administered by the reporter on 2 Oct 2018 for flea treatment. Another application of FL (015/16, exp date unknown) was made on 12 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. This cat does not have otdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Treatment / vaccination program not respected)					on 18BR006602 to 18BR006604. The environment has been treated with Butox®. No further information is available.
16-Oct-2018	UAE; 18BR006602; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	12-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chandele, a female crossbred cat of 1 year old and 3.9 kg, received FRONTLINE SPRAY (FL) (014/16, exp date unknown, topical, whole body), administered by the reporter on 2 Oct 2018 for flea treatment. Another application of FL (015/16, exp date unknown) was made on 12 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. This cat does not have otdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006601, 18BR006603 and 18BR006604. The environment has been treated with Butox®. No further information is available.
16-Oct-2018	UAE; 18BR006603; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	12-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nino, a male crossbred cat of 1 year old and 4.2 kg, received FRONTLINE SPRAY (FL) (014/16, exp date unknown, topical, whole body), administered by the reporter on 2 Oct 2018 for flea treatment. Another application of FL (015/16, exp date unknown) was made on 12 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. This cat does not have otdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006601, 18BR006602 and 18BR006604. The environment has been treated with Butox®. No further information is available.
16-Oct-2018	UAE; 18BR006604; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6.8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	12-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zoe, a male crossbred cat of 1 year old and 6.8 kg, received FRONTLINE SPRAY (FL) (014/16, exp date unknown, topical, whole body), administered by the reporter on 2 Oct 2018 for flea treatment. Another application of FL (015/16, exp date unknown) was made on 12 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. This cat does not have otdoor access. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006601 to 18BR006603. The environment has been treated with Butox®. No further information is available.
17-Oct-2018	UAE; 18BR006605; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	18-Sep-2018	17-Oct-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snow, a male Maltese of 3 years old and 3 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 29 days ago (18 Sep 2018) for tick treatment. Tick infestation was seen 7

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 3.00 Year(s) **Weight:** 3 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					days prior to FL application. The owner believes that FL is not working because his dog still has live ticks. It was the first time FL was applied on the animal. The environment is treated with Butox®. No further information is expected.
17-Oct-2018	UAE; 18BR006607; SC; Brazil	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 38 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Jan-2015*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dara, a female Labrador Retriever of 9 years old and 38 kg, received one vial of FRONTLINE PLUS DOG L (FL) (006/17, exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because his dog still has live fleas. FL is applied periodically on the pet and on the other 2 dogs of the same household (dose frequency one vial every 90 days per animal) and the first application was not provided (17 Jan 2015 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006608 and 18BR006610. No further information is expected.
17-Oct-2018	UAE; 18BR006608; SC; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Mar-2017*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hanna, a female German Shepherd Dog of 2 years old and 35 kg, received one vial of FRONTLINE PLUS DOG L (FL) (006/17, exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because his dog still has live fleas. FL is applied periodically on the pet and on the other 2 dogs of the same household (dose frequency one vial every 90 days per animal) and the first application was not provided (20 Mar 2017 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006607 and 18BR006610. No further information is expected.
17-Oct-2018	UAE; 18BR006610; SC; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Jan-2015*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female Lhasa Apso of 9 years old and 7 kg, received one vial of FRONTLINE PLUS DOGS L (FL) (018/17, exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because his dog still has live fleas. FL is applied periodically on the pet and on the other 2 dogs of the same household (dose frequency one vial every 90 days per animal) and the first application was not provided (17 Jan 2015 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006607 and 18BR006608. No further information is expected.
17-Oct-2018	UAE; 18BR006613; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	17-Jan-2018*	17-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Amora, a female crossbred cat of 4 years old and 2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 24 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue approximately 9 months ago (17 Jan 2018 - estimated date). Similar case reported on 18BR006614. The environment has been treated with Butox®. No further information is available.

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						ok?: Yes					
17-Oct-2018	UAE; 18BR006614; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Sep-2018	17-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male crossbred cat of 6 months old and 2.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR006613. The environment has been treated with Butox®. No further information is available.
17-Oct-2018	UAE; 18BR006615; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2017*	17-Oct-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs were treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea/tick treatment. Lack of efficacy is suspected because the animals remain with ectoparasites. This is the extent of the information available. UPDATE 19 OCT 2018 - Sofia, a female medium crossbred dog of approximately 7 years old and 14 kg, was treated with FL (018/16, unknown exp date, topical, whole body), applied 15 days ago (4 Oct 2018) by the reporter. The owner noticed that the ticks died, but she continues to see fleas. The environment has been treated with an unknown product. FL has been applied monthly since 1 Nov 2017 (estimated date). Similar case reported on 18BR006713. No further information is expected.
17-Oct-2018	UAE; 18BR006616; -; Brazil	**Species:** Canine **Breed:** Dalmatian **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female Dalmatian of 28 kg (other signalment is unknown), was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (13 Oct 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching herself due to fleas. This is the extent of the information available.
17-Oct-2018	UAE; 18BR006617; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female Persian of 4 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (007/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 5 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Pulgoff®. FL has been applied every 3 months with no issue since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
17-Oct-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	12-Jan-2015*	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR006618; SP; Brazil	**Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3 kg				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Thor, a male Domestic Shorthair (crossbred) feline of 6 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter around 14 days ago (3 Oct 2018 – chosen at random) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her car still has live fleas. FL has been applied in the past on the pet and on another animal of the same household (1 cat) and the first application date was not provided (12 Jan 2015 – chosen at random). The environment has been treated with specific product, but the mark was not provided. Similar case reported on 18BR006619. No further information is expected.
17-Oct-2018	UAE; 18BR006619; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Jan-2015*	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeus, a male Domestic Shorthair (crossbred) feline of 6 years old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter around 14 days ago (3 Oct 2018 – chosen at random) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. FL has been applied in the past on the pet and on another animal of the same household (1 cat) and the first application date was not provided (12 Jan 2015 – chosen at random). The environment has been treated with specific product, but the brand was not provided. Similar case reported on 18BR006618. No further information is expected.
17-Oct-2018	UAE; 18BR006621; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Aug-2018	17-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mãezinha, a female large crossbred dog of 8 years old and 22 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 17 Aug 2018 for flea treatment. Another dose of FL was applied on 17 Sep 2018. She believes that FL is not working because she continues to see fleas on her pet. The environment has not been treated. No further information is available.
17-Oct-2018	UAE; 18BR006622; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.5 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Oct-2018	17-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Kiara, a female Pinscher of 2 years old and 3.5 kg, was treated, for the first time, with an unknown dose of FRONLTINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades, the product was fractioned), applied by the reporter on 17 Oct 2018, for flea control. The pet was in good health prior to FL and has history of adverse reaction to other products. 20 minutes after product application, the pet presented with lethargy. There are 2 other dogs treated with FL and they have no issue. No further information is available.

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17-Oct-2018	UAE; 18BR006628; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female mixed breed cat of 2 years old and 3.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar cases reported on 18BR006629, 18BR006630 and 18BR006631. No further information is expected.
17-Oct-2018	UAE; 18BR006629; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bá, a male mixed breed cat of 18 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar cases reported on 18BR006628, 18BR006630 and 18BR006631. No further information is expected.
17-Oct-2018	UAE; 18BR006630; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bethoven, a male mixed breed cat of 18 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar cases reported on 18BR006628, 18BR006629 and 18BR006631. No further information is expected.
17-Oct-2018	UAE; 18BR006631; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nikito, a male mixed breed cat of 18 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar cases reported on 18BR006628, 18BR006629 and 18BR006630. No further information is expected.
17-Oct-2018	UAE; 18BR006632; PR; Brazil	**Species:** Canine **Breed:** Medium	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2017*	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mila, a female medium crossbred dog of 7 years old and 14 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL)

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		crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 14 kg				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(009/16, unknown exp date, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and FL has been applied every 6 months with no issue since 1 Jan 2017 (chosen at random). There is one more dog in this household with the same issue (See case 18BR006633). No further information is expected.
17-Oct-2018	UAE; 18BR006633; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pipoca, a male Shih Tzu of 4 years old and 6 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (001/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter 15 days ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and FL has been applied every 6 months with no issue. There is one more dog in this household with the same issue (See case 18BR006632). No further information is expected.
16-Oct-2018	UAE; 18BR006641; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	16-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one female dog of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 13 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
17-Oct-2018	UAE; 18BR006644; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	17-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frederico, a male Siamese of 5 years old and 4,5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (14 Oct 2018) for flea treatment. Flea infestation was seen 10 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There is another animal (1 cat) of the same household that was also treated with FL. It's unknown if FL was applied in the past. The environment has been treated with Butox®. Similar case reported on 18BR006645. No further information is expected.
17-Oct-2018	UAE; 18BR006645; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	N/A	17-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Melissa, a female Domestic Shorthair (crossbred) of unknown age and 3,5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (14 Oct 2018) for flea treatment. Flea infestation was seen 10 days prior to FL application. The owner

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** - **Weight:** 3.5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					believes that FL is not working because his cat still has live fleas . There is another animal (1 cat) of the same household that was also treated with FL. It's unknown if FL was applied in the past. The environment has been treated with Butox®. Similar case reported on 18BR006644. No further information is expected.
17-Oct-2018	UAE; 18BR006646; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 4.1 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	17-Oct-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Atila, a male mixed breed cat of 18 months old and 4.1 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter on 16 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. There is one treated dog in this household with no issue. FL was applied in the past with the same issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). This is the extent of the information available.
18-Oct-2018	UAE; 18BR006651; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Sep-2018*	16-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Aisha, a female Shih Tzu of 4 months old and 3 kg, was treated with FRONTLINE SPRAY (FL) (005/17, unknown exp date, topical, whole body), applied by the reporter on 16 Oct 2018, for flea treatment. Soon after product application, the pet presented with pruritus, reddening of the skin and hair loss. The pet was taken to the vet clinic and no treatment was provided. SLOE case reported on 18BR006652. No further information is available.
18-Oct-2018	UAE; 18BR006652; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Sep-2018*	20-Sep-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Aisha, a female Shih Tzu of 4 months old and 3 kg, was treated with FRONTLINE SPRAY (FL) (005/17, unknown exp date, topical, whole body), applied by the reporter around 1 month ago (16 Sep 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. SAE case reported on 18BR006651. This is the extent of the information available.
17-Oct-2018	UAE; 18BR006653; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2018*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Isadora, a female Domestic Shorthair (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas . There are other animals (4 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (18 Fev 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006654 to 18BR006657. No further information is expected.

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17-Oct-2018	UAE; 18BR006654; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2018*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Valentina, a female Domestic Shorthair (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There are other animals (4 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (18 Fev 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006653 and 18BR006655 to 18BR006657. No further information is expected.
17-Oct-2018	UAE; 18BR006655; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2018*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Favela, a male Domestic Shorthair (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There are other animals (4 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (18 Fev 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006653, 18BR006654, 18BR006656 and 18BR006657. No further information is expected.
17-Oct-2018	UAE; 18BR006656; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2018*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Saci, a male Domestic Shorthair (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There are other animals (4 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (18 Fev 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006653 to 18BR006655 and 18BR006657. No further information is expected.
17-Oct-2018	UAE; 18BR006657; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Feb-2018*	17-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Railander, a male Domestic Shorthair (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 21 days ago (26 Sep 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There are other animals (4 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (18 Fev 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar cases reported on 18BR006653 to 18BR006656. No further information is expected.

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18-Oct-2018	UAE; 18BR006658; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	18-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinha, a female small crossbred dog of 1 year old and 8 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006659 and 18BR006660. The environment has been treated with unknown product. No further information is available. UPDATE 19 Oct 2018 - The owner informed that his pet was treated with Advantage® and no longer has fleas. There is an untreated cat that has access to this household. No further information is expected.
18-Oct-2018	UAE; 18BR006659; PR; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	18-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Malu, a female Poodle of 5 years old and 5 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006658 and 18BR006660. The environment has been treated with unknown product. No further information is available. UPDATE 19 Oct 2018 - The owner informed that his pet was treated with Advantage® and no longer has fleas. There is an untreated cat that has access to this household. No further information is expected.
18-Oct-2018	UAE; 18BR006660; PR; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	18-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Megui, a female Dachshund of 13 years old and 6.5 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006658 and 18BR006659. The environment has been treated with unknown product. No further information is available. UPDATE 19 Oct 2018 - The owner informed that his pet was treated with Advantage® and no longer has fleas. There is an untreated cat that has access to this household. No further information is expected.
18-Oct-2018	UAE; 18BR006661; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 1 year old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar case reported on 18BR006662. Human Exposure reported on 18BR006709. The environment has not been treated. No further information is available.

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18-Oct-2018	UAE; 18BR006662; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Poodle of 10 years old and 6.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. This dog has outdoor access. Similar case reported on 18BR006661. Human Exposure reported on 18BR006709. The environment has not been treated. No further information is available.
18-Oct-2018	UAE; 18BR006664; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	20-Jul-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pituco, a male Pinscher of 1 year old and 2.5 kg, received FRONTLINE SPRAY (FL) (lot unknown, exp date 30 Nov 2018, topical, whole body), administered by the reporter on 18 Jul 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006665 and 18BR006666. The environment has not been treated. No further information is available.
18-Oct-2018	UAE; 18BR006665; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	20-Jul-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Osama, a female crossbred cat of 13 years old and 5 kg, received FRONTLINE SPRAY (FL) (lot unknown, exp date 30 Nov 2018, topical, whole body), administered by the reporter on 18 Jul 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006664 and 18BR006666. The environment has not been treated. No further information is available.
18-Oct-2018	UAE; 18BR006666; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	20-Jul-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frajola, a male crossbred cat of 7 years old and 5 kg, received FRONTLINE SPRAY (FL) (lot unknown, exp date 30 Nov 2018, topical, whole body), administered by the reporter on 18 Jul 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR006664 and 18BR006665. The environment has not been treated. No further information is available.
18-Oct-2018	UAE; 18BR006667; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	15-Oct-2018	18-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bem, a male Pomeranian of 8 months old and 3.2 kg, received FRONTLINE PLUS DOG S (FL) (023/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This dog does not have outdoor access. There are other dogs that were treated with other brand's products living in this household. The environment has been treated with Butox®. No further

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		Weight: 3.2 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					information is available.
18-Oct-2018	UAE; 18BR006668; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	02-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Poliana, a female crossbred cat of 3 years old and 3.8 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 18 Sep 2018 for flea treatment. Another dose of FL was applied on 2 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated by a specialized company. No further information is available.
18-Oct-2018	UAE; 18BR006669; RS; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018	16-Oct-2018	1 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Otavio, a male Shih Tzu of 2 years old and 6 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 15 Oct 2018 for flea and tick control. The dog was in good health prior to FL. Approximately 1 day after product administration the animal experienced apathy, vomiting and diarrhea. On 18 Oct 2018 the animal presented diarrhea with blood. Vomiting has stopped. The animal was treated with Mercepton® by the owner. The owner suspects of oral exposure. Similar case reported on 18BR006670. No further information is available.
18-Oct-2018	UAE; 18BR006670; RS; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018	16-Oct-2018	1 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Maria, a female small crossbred dog of 2 years old and 5.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 15 Oct 2018 for flea and tick control. The dog was in good health prior to FL. Approximately 1 day after product administration the animal experienced apathy, vomiting and diarrhea. On 18 Oct 2018 the animal presented diarrhea with blood. Vomiting has stopped. The animal was treated with Mercepton® by the owner. The owner suspects of oral exposure. Similar case reported on 18BR006669. No further information is available.
18-Oct-2018	UAE; 18BR006672; RS; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2014*	18-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Suzy, a female Dachshund of 16 years old and 6 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen 14 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. There is another animal (1 dog) of the same household that was also treated with FL. FL is applied periodically on the pet (every 6 months) and the first application was not provided (10 Jan 2014 – chosen at random). The environment has been treated with Butox®. Similar

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											case reported on 18BR006673. No further information is expected.
18-Oct-2018	UAE; 18BR006673; RS; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dida, a female crossbred dog of 2 years old and 10 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen 14 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. There is another animal (1 dog) of the same household that was also treated with FL. It's unknown if FL was applied in the past. The environment has been treated with Butox®. Similar case reported on 18BR006672. No further information is expected.
17-Oct-2018	UAE; 18BR006674; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Oct-2018*	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jony, a male medium crossbred dog of 5 years old and 17 kg, received FRONTLINE PLUS DOG M (FL) (013/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006675 to 18BR006677. The environment has not been treated. No further information is available.
17-Oct-2018	UAE; 18BR006675; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Oct-2018*	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jack, a male medium crossbred dog of 5 years old and 16 kg, received FRONTLINE PLUS DOG M (FL) (013/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006674, 18BR006676 and 18BR006677. The environment has not been treated. No further information is available.
17-Oct-2018	UAE; 18BR006676; SP; Brazil	**Species:** Canine **Breed:** Weimaraner **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Oct-2018*	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Latica, a female Weimaraner of 7 years old and 24 kg, received FRONTLINE PLUS DOG L (FL) (010/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 5 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006674, 18BR006675 and 18BR006677. The environment has not been treated. No further information is available.
17-Oct-2018	UAE; 18BR006677; SP; Brazil	**Species:** Canine **Breed:** Retriever Labrador	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2017*	17-Oct-2018*	6 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Labrador of 9 years old and 32 kg, received FRONTLINE PLUS DOG L (FL) (010/17, exp date unknown,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 32 kg				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					topical, btw the shoulder blades), administered by the reporter on 5 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR006674 to 18BR006676. The environment has not been treated. No further information is available.
18-Oct-2018	UAE; 18BR006678; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jpeg, a male Pug of 4 years old and 9.8 kg, received FRONTLINE PLUS DOG S (FL) (034/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR006679. The environment has been treated with Butox®. No further information is available.
18-Oct-2018	UAE; 18BR006679; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nutella, a female Pug of 8 years old and 10 kg, received FRONTLINE PLUS DOG S (FL) (034/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR006678. The environment has been treated with Butox®. No further information is available.
17-Oct-2018	UAE; 18BR006680; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Oct-2018	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of dogs were treated with FRONTLINE PLUS (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter 2 weeks ago (3 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. They have no outdoor access. This is the extent of the information available.
18-Oct-2018	UAE; 18BR006684; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	16-Oct-2018	18-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lolita, a female Siamese cat of 2 years old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 16 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. SAE

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 4.5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					case reported on 18BR006685. The environment has been treated with Butox®. No further information is available.
18-Oct-2018	UAE; 18BR006685; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Oct-2018	17-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Lolita, a female Siamese cat of 2 years old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 16 Oct 2018 for flea treatment. Lolita was in good health prior to FL. Approximately 1 day after product administration the animal experienced apathy, hypersalivation, anorexia and adipsia. Lolita has been treated with Pedialyte® by the owner. Signals are decreasing. SLOE case reported on 18BR006684. No further information is available.
17-Oct-2018	UAE; 18BR006686; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	07-Oct-2018	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Joy, a female Poodle of 16 years old and 3 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 9 days ago (08 Oct 2018) for flea treatment. Flea infestation was seen 1 day prior to FL application. The owner believes that FL is not working because her dog still has live fleas. There are other animals (3 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Feb 2016 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006687 to 18BR006689. No further information is expected.
17-Oct-2018	UAE; 18BR006687; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	18-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juca, a male Domestic Shorthair (crossbred) of 7 years old and 4 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 9 days ago (08 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . There are other animals (1 dog and 2 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Feb 2016 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006686, 18BR006688 and 18BR006689. No further information is expected.
17-Oct-2018	UAE; 18BR006688; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Jun-2016*	18-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Olivia, a female Domestic Shorthair (crossbred) of 3 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 9 days ago (08 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . There are other animals (1 dog and 2 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					was not provided (1 Jun 2016 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006686, 18BR006687 and 18BR006689. No further information is expected.
17-Oct-2018	UAE; 18BR006689; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2017*	18-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tomas, a male Domestic Shorthair (crossbred) of 2 years old and 4 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 9 days ago (08 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . There are other animals (1 dog and 2 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Jun 2017 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006686 to 18BR006688. No further information is expected.
18-Oct-2018	UAE; 18BR006699; MG; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	N/A	05-Jan-2018*	4 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Billy, a male Lhasa Apso of 7 years old and 6.5 kg, was treated with one vial of FRONTLINE (FL) (unsubstantiated) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Jan 2018 - chosen at random). On date not specified (5 Jan 2018 - chosen at random), the pet presented with 'allergy'. The pet recovered on date not specified. The owner doesn't know if the animal really reacted to FL. Similar case reported on 18BR006698. The owner used to apply FRONTLINE PLUS with no issue. No further information is available.
17-Oct-2018	UAE; 18BR006703; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2016*	17-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown gender, age, weight and signalment received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (10 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . There are other animals (3 cats) of the same household that were also treated with FL. It is unknown if FL has been applied in the past . The environment has been treated with specific product, but the brand was not provided. Similar cases reported on 18BR006705 to 18BR006707. No further information is expected. UPDATE 31 Oct 2018 – Samuel, a male Domestic Shorthair cat (crossbred) of 3 years old and 4 kg, was treated with FL. According to the owner, the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past on the pet (dose frequency once a year) and the first application date was not provided (1 May 2016 – chosen at random). The environment has been treated with Butox®. Similar cases reported on 18BR006705 to 18BR006707. No further information is expected.
17-Oct-2018	UAE; 18BR006705; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	01-May-2016*	17-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown gender, age, weight and signalment received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (10 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . There are other animals (3 cats) of the same household that were also treated with FL. It is unknown if FL has been applied in the past . The environment has been treated with specific product, but the

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						Cutaneous **Was the product used ok?:** Yes					brand was not provided. Similar cases reported on 18BR006703, 18BR006706 and 18BR006707. No further information is expected. UPDATE 31 Oct 2018 – Catiel, a male Domestic Shorthair cat (crossbred) of 3 years old and 4 kg, was treated with FL. According to the owner, the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past on the pet (dose frequency once a year) and the first application date was not provided (1 May 2016 – chosen at random). The environment has been treated with Butox®. Similar cases reported on 18BR006703, 18BR006706 and 18BR006707. No further information is expected.
17-Oct-2018	UAE; 18BR006706; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2016*	17-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown gender, age, weight and signalment received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (10 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. There are other animals (3 cats) of the same household that were also treated with FL. It is unknown if FL has been applied in the past. The environment has been treated with specific product, but the brand was not provided. Similar cases reported on 18BR006703, 18BR006705 and 18BR006707. No further information is expected. UPDATE 31 Oct 2018 – Mindy, a female Domestic Shorthair cat (crossbred) of 3 years old and 2 kg, was treated with FL. According to the owner, the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past on the pet (dose frequency once a year) and the first application date was not provided (1 May 2016 – chosen at random). The environment has been treated with Butox®. Similar cases reported on 18BR006703, 18BR006705 and 18BR006707. No further information is expected.
17-Oct-2018	UAE; 18BR006707; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2016*	17-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 cat of unknown gender, age, weight and signalment received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (10 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. There are other animals (3 cats) of the same household that were also treated with FL. It is unknown if FL has been applied in the past. The environment has been treated with specific product, but the brand was not provided. Similar cases reported on 18BR006703, 18BR006705 and 18BR006706. No further information is expected. UPDATE 31 Oct 2018 – Leck, a male Domestic Shorthair cat (crossbred) of 8 years old and 3 kg, was treated with FL. According to the owner, the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past on the pet (dose frequency once a year) and the first application date was not provided (1 May 2016 – chosen at random). The environment has been treated with Butox®. Similar cases reported on 18BR006703, 18BR006705 and 18BR006706. No further information is expected.
19-Oct-2018	UAE; 18BR006710; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	N/A	15-Jan-2018*	12 Month(s) 1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pity, a male Poodle of 16 years old and 9 kg, was treated with FRONTLINE (FL) (lot, exp date, route and location are unknown), applied by the family member last year (1 Jan 2017 - chosen at random), for flea treatment. Lack of efficacy is suspected because

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		Unknown **Age:** 16.00 Year(s) **Weight:** 9 kg				**Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					the pet had fleas. Similar case reported on 18BR006200. No further information is expected.
19-Oct-2018	UAE; 18BR006711; RJ; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	30-Sep-2018	15-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oc 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. This is the extent of the information available. UPDATE 22 Oct 2018 – The pet owner informed that Mike, a male Labrador x Pit Bull of 6 months old and approximately 12 kg, received FRONTLINE PLUS DOG (FL) (unsubstantiated) (lot, exp date, route and application site unknown) for the first time, on 30 Sep 2018 for flea treatment. Another dose of FL was applied on 15 Oct 2018. The owner believes that FL is not working because she continues to see fleas on her pet, which has developed allergy due to the flea bites. This dog has outdoor access. The environment has been treated with Butox® and Fleegard®. No further information is available.
17-Oct-2018	UAE; 18BR006713; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2017*	17-Oct-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fluck, a male Shih Tzu of 4 years old and 9 kg, received FRONTLINE SPRAY 250 ml (FL) (018/16, exp date unknown, topical, whole body), applied by the reporter 15 days ago (4 Oct 2018). The owner noticed that the ticks died after the product application, but she continues to see fleas on her pet. There is another animal (1 dog) of the same household that was also treated with FL. The environment has been treated with an unknown product. FL has been applied monthly since 1 Nov 2017 (estimated date). Similar case reported on 18BR006615. No further information is expected.
19-Oct-2018	UAE; 18BR006720; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018	19-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female small crossbred dog of 18 months old and 6 kg, was treated, for the first time, with one dose of FRONTLINE PLUS DOG S (034/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 15 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. No further information is expected.
19-Oct-2018	UAE; 18BR006729; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products	19-Sep-2018*	23-Sep-2018*	4 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Thor, a male Yorkshire of 4.5 months old and 1.45 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, whole body) for the first time, administered by the reporter on date not informed (19 Sep 2018 - estimated date) for flea treatment. Thor was in good health prior to FL. 4 days after product

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		Age: 4.50 Month(s) **Weight:** 1.45 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administration the animal experienced hair loss on the thighs. Signal is still ongoing. No further information is available.
19-Oct-2018	UAE; 18BR006730; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Oct-2018	19-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ursa, a female crossbred dog of 7 months old and 13 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (12 Oct 2018; first application) for flea treatment. Flea infestation was seen 2 months prior to FL application. The owner believes that FL is not working because her dog still has live fleas. The environment is monthly treated with K-Othrine®. No further information is expected.
20-Oct-2018	UAE; 18BR006734; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Feb-2017*	20-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Divaneide, a female crossbred dog of 2 years old and 26 kg, received one vial of FRONTLINE PLUS DOGS L (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (05 Oct 2018) for flea and tick treatment. The owner believes that FL is not working because his dog still has live fleas and ticks. FL is applied periodically on the pet (dose frequency one vial every 3 months) and the first application was not provided (10 Feb 2017 – chosen at random). The environment has been treated with Butox®. No further information is expected.
22-Oct-2018	UAE; 18BR006739; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	22-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Suki, a male mixed breed cat of 12 years old and 2 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (001/18, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 14 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. Similar case reported on 18BR006740. No further information is expected.
22-Oct-2018	UAE; 18BR006740; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	22-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female mixed breed cat of 10 years old and unknown weight, was treated with one vial of FRONTLINE PLUS CATS (FL) (001/18, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 14 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and it is unknown if FL has previously been applied. Similar case reported on 18BR006739. No further information is expected.

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22-Oct-2018	UAE; 18BR006741; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	10-Oct-2018	10-Oct-2018	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Simba, a male Lhasa Apso of 6 years old and approximately 9 kg, received FRONTLINE SPRAY (FL) (006/17A, exp date 28 Feb 2019, topical, neck and behind the ears) for the first time, administered by the reporter on 10 Oct 2018 for flea treatment. The dog was in good health prior to FL. 2 hours after product administration the animal experienced shortness of breath. The application site was washed and the animal recovered on the same day. Another application of FL was made on 21 Oct 2018 and 6 to 8 hours later the animal presented the same signal. The application site was washed again and the animal recovered on the same day. Similar case reported on 18BR006742. No further information is available. UPDATE 23 OCT 2018 - Simba also reacted to the second application of FL (see case 18BR006796). No further information is known.
22-Oct-2018	UAE; 18BR006742; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	10-Oct-2018	10-Oct-2018	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Niquita, a female neutered Lhasa Apso of 10 years old and 10 kg, received FRONTLINE SPRAY (FL) (006/17A, exp date 28 Feb 2019, topical, neck and behind the ears) for the first time, administered by the reporter on 10 Oct 2018 for flea treatment. The dog was in good health prior to FL. 2 hours after product administration the animal experienced shortness of breath. The animal was treated with antihistamine and the application site was washed. The animal recovered on the same day. Similar case reported on 18BR006741. No further information is available. UPDATE 23 OCT 2018 - According to the owner, Niquita also presented with tachypnea. Another case was reported on 18BR006796. No further information is known.
22-Oct-2018	UAE; 18BR006747; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1.2 kg	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jul-2018*	12-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: As reported by the pet owner, Amora, a female Pomeranian of 3 months old and 1.2 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter on 12 Aug 2018, around 10 am. The pet was in good health prior to FL and had no history of adverse reactions. Approximately 2 hours after product application, the pet presented with hypersalivation and suddenly she died. FL was applied in the past with no issue. No necropsy was performed. There are other animals in this household that were treated with FL and they didn't present any problem. This is the extent of the information available. UPDATE 24 OCT 2018 - According to the vet, the owner only called her to inform about the death of Amora. The vet believes that FL didn't cause the animal's death. No further information is known.
22-Oct-2018	UAE; 18BR006751; PR; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	N/A	13-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cherry, a female cat of 1 year old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. This cat does not have outdoor access. The environment has not been treated. The pet owner suspects that the product could be expired. No further information is available.

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						to Company					
22-Oct-2018	UAE; 18BR006752; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 400 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	21-Oct-2018	22-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cisco, a male mixed breed cat of 2 months old and 400 g, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter on 21 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox. Similar cases reported on 18BR006753 and 18BR006754. Human exposure reported on 18BR006756. No further information is expected.
22-Oct-2018	UAE; 18BR006753; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jun-2018*	22-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female mixed breed cat of 1 year old and 3 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter 10 days ago (12 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox and FL has been applied every 10 days for the past 4 months (1 Jun 2018 - chosen at random). Similar cases reported on 18BR006752 and 18BR006754. Human exposure reported on 18BR006756. No further information is expected.
22-Oct-2018	UAE; 18BR006754; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jun-2018*	22-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mili, a female mixed breed cat of 6 years old and 3 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter 10 days ago (12 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox and FL has been applied every 10 days for the past 4 months (1 Jun 2018 - chosen at random). Similar cases reported on 18BR006752 and 18BR006753. Human exposure reported on 18BR006755. No further information is expected.
20-Oct-2018	UAE; 18BR006759; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Month(s) **Weight:** 1.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Dec-2017*	20-Oct-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Yorkshire Terrier of 16 months old and 1.7 kg, received one vial of FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 24 days ago (28 Sep 2018) for flea prevention. The owner believes that FL is not working because she visualized live fleas on her pet after a walk in the park, one week after the FL application. FL is applied periodically on the pet (dose frequency unknown) and the first application was not provided (17 Dec 2017 – chosen at random). The environment has not been treated. No further information is expected. UPDATE 25 OCT 2018 - The pet still has fleas. According to the owner, another dog was treated with FL in the past and it had an adverse reaction (See case 18BR006872). No further information is expected.
22-Oct-2018	UAE; 18BR006760; SP; Brazil	**Species:** Canine **Breed:** Weimaraner	4	1	0	**Product used:** FIPRONIL SPOT ON DOG	01-Jan-2017*	03-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Weimaraner of 15 years old and 35 kg, received FRONTLINE SPOT-ON DOGS XL (FL) (006/17, exp date

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		Sex: F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 35 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					unknown, topical, btw the shoulder blades), administered by the reporter on 1 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). There are 3 cats that also received FL and have no fleas living in this household. The environment has not been treated. No further information is available.
22-Oct-2018	UAE; 18BR006761; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 2.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	14-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maguinolia, a female Maltese of 4 years old and 2.3 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 7 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar case reported on 18BR006762. The environment has been treated with unknown product. No further information is available.
22-Oct-2018	UAE; 18BR006762; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	N/A	14-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Valente, a male Maltese of 5 months old and 800 grams, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 7 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar case reported on 18BR006761. The environment has been treated with unknown product. No further information is available.
23-Oct-2018	UAE; 18BR006771; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Doninha, a female Poodle of 3 years old and 4.2 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 16 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
22-Oct-2018	UAE; 18BR006773; -; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	N/A	22-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Poodle of unknown signalment was treated with FRONTLINE (FL) (lot, exp date, route and location are unknown), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.

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						Route: unknown **Was the product used ok?:** Unknown to Company					
23-Oct-2018	UAE; 18BR006775; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fofinho, a male Lhasa Apso of 12 years old and 5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 20 days ago (3 Oct 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied 2 months ago (3 Aug 2018 - chosen at random). Similar case reported on 18BR006776. No further information is expected.
23-Oct-2018	UAE; 18BR006776; PR; Brazil	**Species:** Canine **Breed:** Rottweiler **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 50 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Peity, a female Rottweiler of 5 years old and 50 kg, was treated with one vial of FRONTLINE PLUS DOG XL (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reproter 20 days ago (3 Oct 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied 2 months ago (3 Aug 2018 - chosen at random). Similar case reported on 18BR006775. No further information is expected.
23-Oct-2018	UAE; 18BR006777; SP; Brazil	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lancelote, a male Maine Coon of 1 year old and 6 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006778 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006778; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jade, a female Persian of 1 year old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 and 18BR006779 to 18BR006788. The environment has been treated with Butox®. No further information is available.

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23-Oct-2018	UAE; 18BR006779; SP; Brazil	**Species:** Feline **Breed:** Himalayan **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marri, a female Himalayan of 3 years old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777, 18BR006778 and 18BR006780 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006780; SP; Brazil	**Species:** Feline **Breed:** Himalayan **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Vandinha, a female Himalayan of 1 year old and 2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006779 and 18BR006781 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006781; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Monalisa, a female crossbred cat of 6 years old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006780 and 18BR006782 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006782; SP; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nice, a female Turkish Angora of 1 year old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006781 and 18BR006783 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006783; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female crossbred of 1 year old and 3 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006782 and 18BR006784 to 18BR006788. The environment has been treated with Butox®. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
23-Oct-2018	UAE; 18BR006784; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Moli, a female Persian of 1 year old and 2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006783 and 18BR006785 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006785; SP; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one male Chow Chow of 4 years old and approximately 35 kg, received FRONTLINE SPOT-ON DOGS XL (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006784 and 18BR006786 to 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006786; SP; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 30 kg	4	4	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 4 female Chow Chow of 2 years old and 30 kg, received FRONTLINE SPOT-ON DOGS XL (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006785, 18BR006787 and 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006787; SP; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5 kg	3	3	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 male Pekingese of 8 years old and approximately 5 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006786 and 18BR006788. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006788; SP; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 - 3 kg	8	8	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical /	01-Jun-2018*	23-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 8 female Pekingese of 1 to 6 years old and 2 to 3 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 3 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					administration was not provided - 1 Jun 2018 chosen at random). Similar cases reported on 18BR006777 to 18BR006787. The environment has been treated with Butox®. No further information is available.
23-Oct-2018	UAE; 18BR006790; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Oct-2018	23-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a female Pinscher of 5 years old and 2.5 kg, received one vial of FRONTLINE PLUS DOGS S (FL) (038/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (9 Oct 2018; first application) for flea treatment. Flea infestation was seen 1 month prior to FL application. The owner believes that FL is not working because her dog still has live fleas . FL was applied on the 2 other dogs of the same household. The environment has been treated with an unknown product. Similar cases reported on 18BR006791 and 18BR006792. No further information is expected.
23-Oct-2018	UAE; 18BR006791; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Oct-2018	23-Oct-2018	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marlon, a male Pinscher of 3 years old and 2.4 kg, received one vial of FRONTLINE PLUS DOGS S (FL) (038/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (9 Oct 2018; first application) for flea treatment. Flea infestation was seen 1 month prior to FL application. The owner believes that FL is not working because her dog still has live fleas . FL was applied on the 2 other dogs of the same household. The environment has been treated with an unknown product. Similar cases reported on 18BR006790 and 18BR006792. No further information is expected.
23-Oct-2018	UAE; 18BR006792; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2018	23-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toby, a male crossbred dog of 3 years old and 8 kg, received one vial of FRONTLINE PLUS DOGS S (FL) (038/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (9 Oct 2018) for flea treatment. Flea infestation was seen 1 month prior to FL application. The owner believes that FL is not working because her dog still has live fleas. FL was already applied in the past (dose frequency every 6 months) and the first application date was not provided (20 Apr 2018 – chosen at random). FL was applied on the 2 other dogs of the same household. The environment has been treated with an unknown product. Similar cases reported on 18BR006790 and 18BR006791. No further information is expected.
22-Oct-2018	UAE; 18BR006796; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	10-Oct-2018	21-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Simba, a male Lhasa Apso of 6 years old and approximately 9 kg, was treated with FRONTLINE SPRAY (FL) (006/17A, Feb 2019, topical, neck and behind the ears) for the second time, administered by the reporter on 21 Oct 2018, for flea treatment. The dog was in good health prior to FL. 6 to 8 hours later the pet presented with shortness of breath, tachypnea and pruritus. The application site was washed and the animal recovered on the same day. Similar cases reported on 18BR006741 and 18BR006742. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						vaccination program not respected)					
23-Oct-2018	UAE; 18BR006798; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	21-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment was treated with one vial of FRONTLINE PLUS (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter 1 week ago (15 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
22-Oct-2018	UAE; 18BR006799; SP; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	22-Oct-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with FRONTLINE SPRAY (015/16, Nov 2018, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
23-Oct-2018	UAE; 18BR006800; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	23-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lino, a male Persian cat of 3 months old and unknown weight, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (16 Oct 2018) for flea treatment. Flea infestation was seen 10 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There is another animal (1 cat) of the same household that was also treated with FL. It's unknown if FL was applied in the past. The environment has been treated with Butox®. Similar case reported on 18BR006801. No further information is expected.
23-Oct-2018	UAE; 18BR006801; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	23-Oct-2018	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Snol, a male Domestic Shorthair (crossbred) cat of 3 months old and unknown weight, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (16 Oct 2018) for flea treatment. Flea infestation was seen 10 days prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There is another animal (1 cat) of the same household that was also treated with FL. It's unknown if FL was applied in the past. The environment has been treated with Butox®. Similar case reported on 18BR006800. No further information is expected.
23-Oct-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	16-Oct-2018	18-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR006803; RJ; Brazil	**Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 16 kg				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Amarela, a female medium crossbred dog of 3 years old and 16 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 16 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. There are 3 cats that were treated with other brand's product with no issue living in this household. The environment has been treated with unknown product. No further information is available. UPDATE 25 Oct 2018 - The pet owner informed that she have not seen ticks on Amarela for the last 2 days. Also, the environment has not been treated. No further information is expected.
22-Oct-2018	UAE; 18BR006804; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2016*	22-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Loly, a female Lhasa Apso of 8 years old and 5.5 kg, received FRONTLINE SPRAY 250 ml (FL) (005/17, exp date unknown, topical, whole body), applied by the reporter 12 day ago (10 Oct 2018), for flea treatment. The owner believes that FL is not working because her dog still has fleas. FL has been applied in the past (dose frequency every 3 months) and the first application was not provided (10 Jan 2016 – chosen at random). There are other concomitant patients (2 dogs and 2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR006805 to 18BR006808. No further information is expected.
22-Oct-2018	UAE; 18BR006805; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2016*	22-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bartholomeu, a male Lhasa Apso of 4 years old and 5 kg, received FRONTLINE SPRAY 250 ml (FL) (005/17, exp date unknown, topical, whole body), applied by the reporter 12 day ago (10 Oct 2018), for flea treatment. The owner believes that FL is not working because her dog still has fleas. FL has been applied in the past (dose frequency every 3 months) and the first application was not provided (10 Jan 2016 – chosen at random). There are other concomitant patients (2 dogs and 2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR006804 and 18BR006806 to 18BR006808. No further information is expected.
22-Oct-2018	UAE; 18BR006806; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 900 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jun-2018*	22-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jhowu, a male Lhasa Apso of 5 months old and 900 grams, received FRONTLINE SPRAY 250 ml (FL) (005/17, exp date unknown, topical, whole body), applied by the reporter 12 day ago (10 Oct 2018), for flea treatment. The owner believes that FL is not working because her dog still has fleas. FL has been applied in the past (dose frequency every 3 months) and the first application was not provided (10 Jun 2018 – chosen at random). There are other concomitant patients (2 dogs and 2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR006804, 18BR006805, 18BR006807 and 18BR006808. No further information is expected.
22-Oct-2018	UAE; 18BR006807; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products	10-Jan-2016*	22-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mustafa, a male Persian cat of 8 years old and 4.2 kg, received FRONTLINE SPRAY 250 ml (FL) (005/17, exp date unknown, topical, whole body), applied by the reporter 12 day ago (10 Oct 2018), for flea treatment. The owner believes that FL is not working because her cat still has fleas. FL has been applied in the past

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		Unknown **Age:** 8.00 Year(s) **Weight:** 4.2 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(dose frequency every 3 months) and the first application was not provided (10 Jan 2016 – chosen at random). There are other concomitant patients (3 dogs and 1 cat) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR006804 to 18BR006806 and 18BR006808. No further information is expected.
22-Oct-2018	UAE; 18BR006808; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2016*	22-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nefertite, a female Persian cat of 6 years old and 3 kg, received FRONTLINE SPRAY 250 ml (FL) (005/17, exp date unknown, topical, whole body), applied by the reporter 12 day ago (10 Oct 2018), for flea treatment. The owner believes that FL is not working because her cat still has fleas. FL has been applied in the past (dose frequency every 3 months) and the first application was not provided (10 Jan 2016 – chosen at random). There are other concomitant patients (3 dogs and 1 cat) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR006804 to 18BR006807. No further information is expected.
24-Oct-2018	UAE; 18BR006813; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 45.00 Day(s) **Weight:** 500 gms	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	09-Oct-2018	12-Oct-2018	1 Day(s)	D-A	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maju, a female mixed breed cat of 45 days old and 500 g, was treated with FRONTLINE SPRAY (006/17, unknown exp date, topical, parts of the body), applied by the reporter on 9 Oct 2018 and 11 Oct 2018, for flea treatment. Lack of efficacy suspected because the pet remained with fleas. The environment was treated with FL. There are 4 other untreated dogs in this household. On 13 Oct 2018, the pet presented some symptoms and died (see case 18BR006814). No further information is available.
24-Oct-2018	UAE; 18BR006814; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 45.00 Day(s) **Weight:** 500 gms	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	09-Oct-2018	12-Oct-2018*	1 Day(s)	D-A	Suspected Adverse Event: As reported by the pet owner, Maju, a female mixed breed cat of 45 days old and 500 g, was treated with FRONTLINE SPRAY (006/17, unknown exp date, topical, parts of the body), applied by the reporter on 9 Oct 2018 and 11 Oct 2018, for flea treatment. Some days after product application, the pet started presenting apathy and anorexia. She was taken to the vet on 13 Oct 2018 and died. The vet mentioned 'intoxication'. SLOE case reported on 18BR006813. There are 4 other untreated dogs in this household. No further information is available.
24-Oct-2018	UAE; 18BR006815; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Oct-2018	24-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Terceu, a male small crossbred dog of 2 years old and 9 kg, received FRONTLINE SPOT-ON DOGS S (FL) (018/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 19 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The environment has not been treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
24-Oct-2018	UAE; 18BR006817; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018*	24-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female Yorkshire of 8 months old and 1.2 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied for the first time 2 months ago (1 Sep 2018 - estimated date). There is one more dog in this household with the same issue (see case 18BR006818). No further information is expected.
24-Oct-2018	UAE; 18BR006818; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018*	24-Oct-2018*	23 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Lhasa Apso of 9 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied for the first time 2 months ago (1 Sep 2018 - estimated date). There is one more dog in this household with the same issue (see case 18BR006817). No further information is expected.
24-Oct-2018	UAE; 18BR006823; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Oct-2018	24-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female Domestic Shorthair (crossbred) cat of 8 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (20 Oct 2018; first application) for flea treatment. Flea infestation was seen 14 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There is another animal (1 cat) of the same household that was also treated with FL. The environment has been treated with Fleegard®. Similar case reported on 18BR006824. No further information is expected.
24-Oct-2018	UAE; 18BR006824; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Oct-2018	24-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female Persian cat of 1 year old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (20 Oct 2018; first application) for flea treatment. Flea infestation was seen 14 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There is another animal (1 cat) of the same household that was also treated with FL. The environment has been treated with Fleegard®. Similar case reported on 18BR006823. No further information is expected.
25-Oct-2018	UAE; 18BR006832; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2017*	22-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Monseu, a male Pit Bull of 7 years old and 32 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 8 Oct 2018 for tick treatment. He believes that FL is not working because he continues to see ticks on his pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first

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		Weight: 32 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with Butox®. No further information is available. UPDATE 26 Oct 2018 - The pet owner informed that Monseu still has ticks. No further information is expected.
25-Oct-2018	UAE; 18BR006840; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 3 kg	4	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	24-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Anaquin, a male Siamese of 3 years old, 3 kg and neutered, received FRONTLINE SPRAY (FL) (003/17, exp date 31 Jan 2019, topical, whole body) for the first time, administered by veterinarian and the owner on 22 Oct 2018 for flea treatment. Another application of FL was made by the veterinarian on 24 Oct 2018. The owner believes that FL is not working because he continues to see fleas on his pet. There are 3 other cats that received FL with no issue living in this household. The environment has been treated with K-Othrine®. No further information is available.
24-Oct-2018	UAE; 18BR006848; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	24-Oct-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquela, a female crossbred cat of 7 years old and 4.8 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006849. The environment has been treated with Butox®. No further information is available.
24-Oct-2018	UAE; 18BR006849; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	24-Oct-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chica, a female crossbred cat of 4 years old and 5.2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR006848. The environment has been treated with Butox®. No further information is available.
24-Oct-2018	UAE; 18BR006850; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, an unknown number of cats were treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). Soon after product application, the animals presented with agitation and sneezing. They recovered on date not specified (1 Oct 2018 - chosen at random). This is the extent of the information available.
25-Oct-2018	UAE; 18BR006857; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various	1	1	0	**Product used:** FIPRONIL SPRAY	22-Oct-2018	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bartolomeu, a male mixed breed cat of 3 months old and 850 g, was treated, for the first time, with FRONTLINE SPRAY (FL)

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		breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 850 gms				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(010/17, unknown exp date, topical, whole body), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006858 and 18BR006859. No further information is expected.
25-Oct-2018	UAE; 18BR006858; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 900 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Charlote, a female mixed breed cat of 3 months old and 900 g, was treated, for the first time, with FRONTLINE SPRAY (FL) (010/17, unknown exp date, topical, whole body), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006857 and 18BR006859. No further information is expected.
25-Oct-2018	UAE; 18BR006859; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kira, a female Poodle Toy of 16 years old and 4.5 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (010/17, unknown exp date, topical, whole body), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet has dead fleas. The environment has not been treated. Similar cases reported on 18BR006857 and 18BR006858. No further information is expected.
25-Oct-2018	UAE; 18BR006860; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Judite, a female crossbred cat of 9 months old and 3 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 22 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR006861. The environment has been treated with Pulgoff®. No further information is available. UPDATE 26 Oct 2018 - The owner informed that her pet remains with fleas. The environment has been treated with Pulgoff® and Butox®. No further information is expected.
25-Oct-2018	UAE; 18BR006861; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	22-Oct-2018	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobias, a male crossbred cat of 9 months old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 22 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR006860. The environment has been treated with Pulgoff®. No further information is available. UPDATE 26 Oct 2018 - The owner informed that her pet remains with fleas. The environment has been treated with Pulgoff® and Butox®. No further information is expected.

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						ok?: Yes					
24-Oct-2018	UAE; 18BR006862; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2015*	24-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bili, a male crossbred dog of 4 years old and 9 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (20 Oct 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. Flea infestation was seen around 7 to 14 days prior to FL application. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (1 Nov 2015 – chosen at random). The environment has not been treated. No further information is expected.
23-Oct-2018	UAE; 18BR006869; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	20-Aug-2018*	23-Aug-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of unknown signalment, received FRONTLINE SPRAY (FL) (lot, exp date, route and application site unknown), administered by the reporter on dates not informed (20 Aug 2018, 20 Sep 2018 and 20 Oct 2018 - chosen at random). The owner believes that FL is not working because her pet is still itching. This is the extent of the information available.
25-Oct-2018	UAE; 18BR006872; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Jan-2017*	9 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, one female Poodle (other signalment is unknown) was treated with FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter in the past (1 Jan 2017 - chosen at random). After product application (unknown date), the pet presented an allergic reaction. The current status of the animal is unknown. SLOE case reported on 18BR006759. No further information is expected.
25-Oct-2018	UAE; 18BR006879; RS; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	25-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobias, a male Yorkshire of 5 months old and 2.5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 10 days ago, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated and FL was applied 4 months ago (1 Jun 2018 - estimated date). No further information is expected.
24-Oct-2018	UAE; 18BR006886; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	N/A	25-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 male dog (unknown age, unknown weight, unknown especies, unknown reprodutive status and unknown breed) received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site are unknown) for flea treatment on 10 Oct

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		Unknown **Age:** - **Weight:** Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					2018 (chosen at random). The owner believes that FL is not working because she continues to see fleas on her pet. It's unknown if FL was administered in the past. This is the extent of the information available.No more information expected.
26-Oct-2018	UAE; 18BR006901; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	21-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Pneu, a male Pinscher of 2 years old and 2 kg, was treated with FRONTLINE SPRAY (FL) (015/16, unknown exp date, topical, parts of the body), applied by the reporter on 21 Oct 2018, for flea treatment. The pet was in good health prior to FL and has no history of adverse reactions. After product application, the pet presented with application site itching and application site swelling. Due to icthing, the pet presented application site lesion. No vet care was provided. Swelling and lesion still remain. FL was applied in the past with no issue (1 Jan 2018 - chosen at random). No further information is available.
26-Oct-2018	UAE; 18BR006904; SP; Brazil	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	25-Oct-2018	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Guga, a male Bichon Frise of 15 years old and 7 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 23 Oct 2018 for flea treatment. She believes that FL is not working because she found 2 fleas on her pet on 25 Oct 2018. This dog has outdoor access. The environment has not been treated. No further information is available.
26-Oct-2018	UAE; 18BR006905; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	26-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeca, a male Yorkshire of 5 years old and 6 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical), administered by the reporter on 26 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
26-Oct-2018	UAE; 18BR006911; CE; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 30.00 Month(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	21-Oct-2018	26-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with FRONTLINE PLUS DOG S (FL) (lot, exp date, route and location are unknown), applied by the reporter on 21 Oct 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. This is the extent of the information available. UPDATE 30 OCT 2018 - Tobias, a male Pomeranian of 30 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE

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		Weight: 4 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					PLUS DOG S (FL), topical, base of skull and btw the shoulder blades, applied by the reporter on 21 Oct 2018, for tick treatment. The owner still sees ticks on her pet. Environment treated. FL SPRAY was applied in the past with no issue. No further information is expected
29-Oct-2018	UAE; 18BR006916; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	29-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mary, a female Lhasa Apso of 7 months old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (018/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. No further information is expected.
29-Oct-2018	UAE; 18BR006917; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	29-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, John, a male large crossbred dog of 6 years old and 25 kg, was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot, exp date, route and location are unknown), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, he is scratching himself due to fleas. The environment has not been treated and FL has been applied every 3 months since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
26-Oct-2018	UAE; 18BR006918; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Oct-2018	26-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Joni, a male Shih Tzu of 5 years old and 6 kg, received FRONTLINE PLUS DOG S (FL) (023/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR006919. Human exposure reported on 18BR006920. The environment has been treated with K-Othrine. No further information is available.
26-Oct-2018	UAE; 18BR006919; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	24-Oct-2018	26-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Shih Tzu of 2 years old and 6 kg, received FRONTLINE PLUS DOG S (FL) (023/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR006918. Human exposure reported on 18BR006920. The environment has been treated with K-Othrine. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
26-Oct-2018	UAE; 18BR006921; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Jan-2016*	26-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female Shih Tzu of 4 years old and 6 kg, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body), applied by the reporter 30 days ago (26 Sep 2018), for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL was applied in the past (dose frequency every 30 days) and the first application date was not provided (20 Jan 2016 – chosen at random). There are other concomitant patients (4 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006922 to 18BR006925. No further information is expected.
26-Oct-2018	UAE; 18BR006922; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Sep-2018*	26-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Milu, a female Yorkshire of 2 months old and 800 grams, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body), applied by the reporter 30 days ago (26 Sep 2018), for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL was applied in the past (dose frequency every 30 days) and the first application was not provided (05 Sep 2018 – chosen at random). There are other concomitant patients (4 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006921 and 18BR006923 to 18BR006925. No further information is expected.
26-Oct-2018	UAE; 18BR006923; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 600 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Sep-2018*	26-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeca, a male Yorkshire of 2 months old and 600 grams, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body), applied by the reporter 30 days ago (26 Sep 2018), for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL was applied in the past (dose frequency every 30 days) and the first application was not provided (05 Sep 2018 – chosen at random). There are other concomitant patients (4 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006921, 18BR006922, 18BR006924 and 18BR006925. No further information is expected.
26-Oct-2018	UAE; 18BR006924; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 700 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Sep-2018*	26-Oct-2018	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Eva, a female Yorkshire of 2 months old and 700 grams, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body), applied by the reporter 30 days ago (26 Sep 2018), for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL was applied in the past (dose frequency every 30 days) and the first application was not provided (05 Sep 2018 – chosen at random). There are other concomitant patients (4 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006921 to 18BR006923 and 18BR006925. No further information is expected.
26-Oct-2018	UAE; 18BR006925; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier	1	1	0	**Product used:** FIPRONIL SPRAY	05-Sep-2018*	26-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Flor, a female Yorkshire of 2 months old and 700 grams, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body), applied by the reporter 30 days ago (26 Sep

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		Sex: F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 700 gms				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					2018), for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL was applied in the past (dose frequency every 30 days) and the first application was not provided (05 Sep 2018 – chosen at random). There are other concomitant patients (4 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006921 to 18BR006924. No further information is expected.
29-Oct-2018	UAE; 18BR006927; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2017*	29-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Elvis, a male Persian of 8 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (008/17, Aug 2019, topical, btw the shoulder blades), applied by the reporter on 25 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied 1 year ago with no issue (1 Oct 2017 - chosen at random). Similar case reported on 18BR006928. No further information is expected.
29-Oct-2018	UAE; 18BR006928; SP; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2017*	29-Oct-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Yoda, a male Angora of 12 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (008/17, Aug 2019, topical, btw the shoulder blades), applied by the reporter on 25 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox® and FL was applied 1 year ago (1 Oct 2017 - chosen at random). Similar case reported on 18BR006927. No further information is expected.
29-Oct-2018	UAE; 18BR006933; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	25-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hermione, a female medium crossbred dog of 9 years old and 15 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, back, abdomen and paws), administered by the reporter on 22 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). This dog does not have outdoor access. The environment has not been treated. No further information is available. UPDATE 14 Nov 2018 – The pet remains with live fleas. No further information is expected.
29-Oct-2018	UAE; 18BR006936; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	14-Oct-2018*	29-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Magali, a female mixed breed cat of 3 years old and 3.3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (14 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 3.00 Year(s) **Weight:** 3.3 kg				**used:** no other products **Route:** PO-Oral **Was the product used ok?:** Yes					remains with fleas. The environment has not been treated. Similar cases reported on 18BR006937 and 18BR006938. There is also a cat that was treated with NEXGARD (see case 18BR006939). No further information is expected.
29-Oct-2018	UAE; 18BR006937; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** Yes	14-Oct-2018*	29-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mariazinha, a female mixed breed cat of 3 years old and 3.3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (14 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006936 and 18BR006938. There is also a cat that was treated with NEXGARD (see case 18BR006939). No further information is expected.
29-Oct-2018	UAE; 18BR006938; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 20.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** Yes	14-Oct-2018*	29-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Narcisa, a female mixed breed cat of 20 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (14 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has not been treated. Similar cases reported on 18BR006936 and 18BR006937. There is also a cat that was treated with NEXGARD (see case 18BR006939). No further information is expected.
29-Oct-2018	UAE; 18BR006940; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Peralta, a male Domestic Shorthair (crossbred) cat of 7 months old and 2 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Apr 2018 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006941 to 18BR006945. No further information is expected.
29-Oct-2018	UAE; 18BR006941; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Feb-2018*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theo, a male Domestic Shorthair cat (crossbred) of 14 months old and 10 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (1 Feb 2018 – chosen at

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						product used ok?: Yes					random). The environment has not been treated. Similar cases reported on 18BR006940 and 18BR006942 to 18BR006945. No further information is expected.
29-Oct-2018	UAE; 18BR006942; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2018*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofi, a female Domestic Shorthair cat (crossbred) of 14 months old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (1 Feb 2018 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006940, 18BR006941 and 18BR006943 to 18BR006945. No further information is expected.
29-Oct-2018	UAE; 18BR006943; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2018*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pandora, a female Domestic Shorthair cat (crossbred) of 15 months old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (1 Feb 2018 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006940 to 18BR006942, 18BR006944 and 18BR006945. No further information is expected.
29-Oct-2018	UAE; 18BR006944; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rubi, a female Domestic Shorthair cat (crossbred) of 4 years old and 4 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (1 Feb 2016 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006940 to 18BR006943 and 18BR006945. No further information is expected.
29-Oct-2018	UAE; 18BR006945; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Feb-2015*	27-Oct-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lady, a female Domestic Shorthair cat (crossbred) of 6 years old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (15 Oct 2018) for flea treatment. Flea infestation was seen around 10 to 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. There are other concomitant patients (5 cats) of the same household that were also treated with FL. FL has been applied on the pet in the past (dose frequency unknown) and the

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						Was the product used ok?: Yes					first application date was not provided (1 Feb 2015 – chosen at random). The environment has not been treated. Similar cases reported on 18BR006940 to 18BR006944. No further information is expected.
28-Oct-2018	UAE; 18BR006955; RS; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	27-Oct-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Poodle of 6 kg received FRONLINE DOGS S (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas and ticks. This is the extent of the information available.
29-Oct-2018	UAE; 18BR006957; MG; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 29 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** buccal **Was the product used ok?:** Yes	N/A	29-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Duque, a male large crossbred dog of 9 years old and 29 kg, received one vial of FRONLINE PLUS DOG L (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with cypermethrin and it is unknown if FL has previously been applied. Similar cases reported on 18BR006958, 18BR006959 and 18BR006960. No further information is expected.
29-Oct-2018	UAE; 18BR006958; MG; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** buccal **Was the product used ok?:** Yes	N/A	29-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female large crossbred dog of 2 years old and 40 kg, received one vial of FRONLINE PLUS DOG L (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with cypermethrin and it is unknown if FL has previously been applied. Similar cases reported on 18BR006957, 18BR006959 and 18BR006960. No further information is expected.
29-Oct-2018	UAE; 18BR006959; MG; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** buccal **Was the product used ok?:** Yes	N/A	29-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female large crossbred dog of 3 years old and 27 kg, received one vial of FRONLINE PLUS DOG L (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with cypermethrin and it is unknown if FL has previously been applied. Similar cases reported on 18BR006957, 18BR006958 and 18BR006960. No further information is expected.

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29-Oct-2018	UAE; 18BR006960; MG; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** buccal **Was the product used ok?:** Yes	N/A	29-Oct-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinha, a female medium crossbred dog of 9 years old and 19 kg, received one vial of FRONLINE PLUS DOG M (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with cypermethrin and it is unknown if FL has previously been applied. Similar cases reported on 18BR006957, 18BR006958 and 18BR006959. No further information is expected.
26-Oct-2018	UAE; 18BR006962; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	N/A	26-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juli, a female crossbred dog of 10 years old and 18 kg, received one vial of FRONTLINE TRI-ACT 20-40 kg (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 11 days ago (15 Oct 2018) for flea treatment. The owner believed that FL was not working because she visualized live fleas on her pet, so another dose of FRONTLINE PLUS L was administered on 21 Oct 2018 and, even after the last dose, the owner continues to see live fleas. Flea infestation was seen 5 days prior to FL application. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006963 and 18BR006964. No further information is expected.
26-Oct-2018	UAE; 18BR006963; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	N/A	26-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofia, a female crossbred dog of 16 years old and 18 kg, received one vial of FRONTLINE TRI-ACT 20-40 kg (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 11 days ago (15 Oct 2018) for flea treatment. The owner believed that FL was not working because she visualized live fleas on her pet, so another dose of FRONTLINE PLUS L was administered on 21 Oct 2018 and, even after the last dose, the owner continues to see live fleas. Flea infestation was seen 5 days prior to FL application. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006962 and 18BR006964. No further information is expected.
26-Oct-2018	UAE; 18BR006964; SP; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL	N/A	26-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female German Shepherd Dog of 6 years old and 34 kg, received one vial of FRONTLINE TRI-ACT 20-40 kg (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 11 days ago (15 Oct 2018) for flea treatment. The owner believed that FL was not working because she visualized live fleas on her pet, so another dose of FRONTLINE PLUS L was

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		Weight: 34 kg				6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administered on 21 Oct 2018 and, even after the last dose, the owner continues to see live fleas. Flea infestation was seen 5 days prior to FL application. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs) of the same household that were also treated with FL. The environment has not been treated. Similar cases reported on 18BR006962 and 18BR006963. No further information is expected.
29-Oct-2018	UAE; 18BR006967; PR; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	26-Oct-2018	29-Oct-2018	3 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Juninho, a male Border Collie of 11 months old and 20 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (006/17, unknown exp date, topical, parts of the body), applied by the reporter on 26 Oct 2018, for flea treatment. The pet was in good health prior to FL and has no history of adverse reactions. On 29 Oct 2018, the reporter noticed that Juninho was presenting application site reddening and application site itching. No vet care was provided. No further information is available.
29-Oct-2018	UAE; 18BR006968; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.000 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	29-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Koda, a male Pinscher of 6 years old and 3 kg, received FRONTLINE SPRAY 100 ml (FL) (001/17, Dec 2018, topical, whole body), applied by the reporter 3 days ago (26 Oct 2018), for tick treatment. The owner believes that FL is not working because her dog still has live ticks. It's unknown if FL was applied in the past. There is another concomitant patient (1 dog) of the same household that was also treated with FL. The environment has not been treated. Similar case reported on 18BR006969. No further information is expected.
29-Oct-2018	UAE; 18BR006969; RJ; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	29-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bily, a male Cocker Spaniel of 6 years old and 7 kg, received FRONTLINE SPRAY 100 ml (FL) (001/17, Dec 2018, topical, whole body), applied by the reporter 3 days ago (26 Oct 2018), for tick treatment. The owner believes that FL is not working because her dog still has live ticks. It's unknown if FL was applied in the past. There is another concomitant patient (1 dog) of the same household that was also treated with FL. The environment has not been treated. Similar case reported on 18BR006968. No further information is expected.
29-Oct-2018	UAE; 18BR006974; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2014*	29-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pretinha, a female Domestic Shorthair cat (crossbred) of unknown age and 3 kg approximately, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, whole body), applied by the reporter 1 week ago (22 Oct 2018 choose on random), for flea treatment. The owner believes that FL is not working because his cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (10 Jan 2014 – chosen on random). There are concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with Triatox®.

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											Similar cases reported on 18BR006975 to 18BR006977. No further information is expected.
29-Oct-2018	UAE; 18BR006975; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2014*	29-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zequinha, a male Domestic Shorthair cat (crossbred) of unknown age and unknown weight, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, whole body), applied by the reporter 1 week ago (22 Oct 2018 choose on random), for flea treatment. The owner believes that FL is not working because his cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (10 Jan 2014 – chosen on random). There are concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with Triatox®. Similar cases reported on 18BR006974, 18BR006976 and 18BR006977. No further information is expected.
29-Oct-2018	UAE; 18BR006976; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2014*	29-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maia, a female Domestic Shorthair cat (crossbred) of unknown age and unknown weight, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, whole body), applied by the reporter 1 week ago (22 Oct 2018 choose on random), for flea treatment. The owner believes that FL is not working because his cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (10 Jan 2014 – chosen on random). There are concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with Triatox®. Similar cases reported on 18BR006974, 18BR006975 and 18BR006977. No further information is expected.
29-Oct-2018	UAE; 18BR006977; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2014*	29-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mili, a female Domestic Shorthair cat (crossbred) of unknown age and unknown weight, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, whole body), applied by the reporter 1 week ago (22 Oct 2018 choose on random), for flea treatment. The owner believes that FL is not working because his cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (10 Jan 2014 – chosen on random). There are concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with Triatox®. Similar cases reported on 18BR006974 to 18BR006976. No further information is expected.
27-Oct-2018	UAE; 18BR006978; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Oct-2018	27-Oct-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Melissa, a female crossbred cat of 6 months old and 2 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 21 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. There are 2 cats that have access to the external area of this household. The environment has not been treated. No further information is available.

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29-Oct-2018	UAE; 18BR006981; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 1.5 kg	6	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	18-Oct-2018*	10 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Tiquita, a spayed female mixed breed cat of less than 1 year old and 1.5 kg, was treated with FRONTLINE SPRAY (003/17, unknown exp date, topical, unknown location), applied by another person around 20 - 30 days ago (8 Oct 2018 - estimated date), for flea control. The pet was in good health prior to FL and has no history of adverse reactions. Around 10 days after product application, the pet presented with application site hair loss in the neck. There are 5 more cats in this household treated with FL and they have no issue. No further information is available.
28-Oct-2018	UAE; 18BR006982; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Oct-2018	28-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Daniela, a female mixed breed cat of 5 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 20 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has not been treated and it is unknown if FL has previously been applied. Similar case reported on 18BR006983. No further information is expected.
28-Oct-2018	UAE; 18BR006983; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Oct-2018	28-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Adão, a male mixed breed cat of 7 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 20 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has not been treated and it is unknown if FL has previously been applied. Similar case reported on 18BR006982. No further information is expected.
30-Oct-2018	UAE; 18BR006988; SC; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	30-Oct-2018	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female Lhasa Apso of 5 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (029/17, exp date 31 Jul 2019, topical, btw the shoulder blades), administered by the reporter on 27 Oct 2018 for flea treatment. He believes that FL is not working because he found 2 fleas on his pet on 30 Oct 2018. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
29-Oct-2018	UAE; 18BR006990; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Jan-2018*	15-Jan-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Maltese of 4 years old and 4.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on

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		Sex qualifier: Unknown **Age:** 4.00 Year(s) **Weight:** 4.5 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					21 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
28-Oct-2018	UAE; 18BR006994; -; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	13-Oct-2018	28-Oct-2018*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). The owner believes that FL is not working (details were not provided). This is the extent of the information available. UPDATE 1 NOV 2018 - Keite, a female small crossbred dog of 18 months old and 10 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Oct 2018, for tick treatment. The pet remains with ticks. Environment not treated. FL SPOT-ON was applied in the past with no issue. Similar cases reported on 18BR007094 and 18BR007095. No further information is expected. UPDATE 5 NOV 2018 - The dog is losing weight because of the tick infestation and the owner suspects that his pet has tick-borne disease. No further information is available.
29-Oct-2018	UAE; 18BR006995; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** U **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2017*	29-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats were treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). Lack of efficacy is suspected because the animals remain with fleas. This is the extent of the information available. UPDATE 31 OCT 2018 - Mimi, a female mixed breed cat of 3 years old and 4.5 kg, was treated with FRONTLINE SPRAY, topical, whole body, applied by the reporter around 10 days ago (21 Oct 2018 - estimated date), for flea treatment. The pet remains with fleas. FL was applied one year ago with no issue (1 Oct 2018 - chosen at random). Environment not treated. Similar cases reported on 18BR007050 and 18BR007051. No further information is expected.
29-Oct-2018	UAE; 18BR006996; PR; Brazil	**Species:** Canine **Breed:** Belgian Malinois **Sex:** M **Sex qualifier:** Unknown **Age:** 42.00 Month(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Oct-2018	29-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ares, a male Belgian Malinois of 42 months old and 35 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has been treated with an unknown product. Similar cases reported on 18BR006997, 18BR006997 and 18BR006998. No further information is expected.
29-Oct-2018	UAE; 18BR006997;	**Species:** Feline **Breed:** Turkish	1	1	0	**Product used:** FIPRONIL	19-Oct-2018	29-Oct-2018	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bastet, a female Angora of 4 years old and 5 kg, was treated, for

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	PR; Brazil	Angora **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . The environment has been treated with an unknown product. Similar cases reported on 18BR006996, 18BR006998 and 18BR006999. No further information is expected.
29-Oct-2018	UAE; 18BR006998; PR; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Oct-2018	29-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toth, a male Angora of 4 years old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. Similar cases reported on 18BR006996, 18BR006997 and 18BR006999. No further information is expected.
29-Oct-2018	UAE; 18BR006999; PR; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Oct-2018	29-Oct-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Shu, a male Angora of 3 years old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. Similar cases reported on 18BR006996, 18BR006997 and 18BR006998. No further information is expected.
29-Oct-2018	UAE; 18BR007001; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Oct-2018	19-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Wister, a male crossbred cat of 1 year old and approximately 5.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 18 Oct 2018 for flea treatment. Wister was in good health prior to FL. Approximately 12 hours after product administration the animal experienced hair loss on the application site. Hair is starting to grow again. SLOE case reported on 18BR007002. No further information is available.
29-Oct-2018	UAE; 18BR007002; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical /	18-Oct-2018	29-Oct-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Wister, a male crossbred cat of 1 year old and approximately 5.5 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 18 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. SAE case reported on 18BR007001. The

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 1.00 Year(s) **Weight:** 5.5 kg				Cutaneous **Was the product used ok?:** Yes					environment has been treated with unknown product. No further information is available.
29-Oct-2018	UAE; 18BR007003; SP; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2017*	29-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Baby, a female dog of unknown breed, 3 years old and unknown weight, received one vial of FRONTLINE SPOT-ON DOGS L (FL) (003/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 8 days ago (21 Oct 2018) for flea treatment. Flea infestation was seen 15 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. FL was already applied in the past (dose frequency unknown) and the first administration date was not provided (1 Feb 2017 – chosen at random). There is another dog of the same household, however it has been treated with a specific product from another brand. The environment has been treated with K-Othrine®. No further information is expected.
26-Oct-2018	UAE; 18BR007004; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** - **Age:** 2.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	07-Sep-2018	14-Sep-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner via distributor, Batatinha, a male small crossbred dog of 2 months old and 3 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck and back) for the first time, administered by the reporter on 7 Sep 2018 for flea treatment. The dog was in good health prior to FL, and itching due to the flea infestation. Approximately 7 days after product administration the animal experienced hair loss, erythema and pruritus on the application site. Erythema and pruritus have stopped. Hair is starting to grow again. Similar cases reported on 18BR007005 to 18BR007007. No further information is available.
26-Oct-2018	UAE; 18BR007005; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** - **Age:** 2.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	07-Sep-2018	14-Sep-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner via distributor, Caramelo, a male small crossbred dog of 2 months old and 3 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck and back) for the first time, administered by the reporter on 7 Sep 2018 for flea treatment. The dog was in good health prior to FL, and itching due to the flea infestation. Approximately 7 days after product administration the animal experienced hair loss, erythema and pruritus on the application site. Erythema and pruritus have stopped. Hair is starting to grow again. Similar cases reported on 18BR007004, 18BR007006 and 18BR007007. No further information is available.
26-Oct-2018	UAE; 18BR007006; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous	07-Sep-2018	14-Sep-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner via distributor, Marrie, a female small crossbred dog of 2 months old and 3 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck and back) for the first time, administered by the reporter on 7 Sep 2018 for flea treatment. The dog was in good health prior to FL, and itching due to the flea infestation. Approximately 7 days after product administration the animal experienced hair loss, erythema and pruritus on the application

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Month(s) **Weight:** 3 kg				**Was the product used ok?:** No (Treatment / vaccination program not respected)					site. Erythema and pruritus have stopped. Hair is starting to grow again. Similar cases reported on 18BR007004, 18BR007005 and 18BR007007. No further information is available.
26-Oct-2018	UAE; 18BR007007; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	07-Sep-2018	14-Sep-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner via distributor, Margot, a female small crossbred dog of approximately 3.5 years old and 8 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck and back) for the first time, administered by the reporter on 7 Sep 2018 for flea treatment. The dog was in good health prior to FL, and itching due to the flea infestation. Approximately 7 days after product administration the animal experienced hair loss, erythema and pruritus on the application site. Erythema and pruritus have stopped. Hair is starting to grow again. Similar cases reported on 18BR007004 to 18BR007006. No further information is available.
30-Oct-2018	UAE; 18BR007013; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	30-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mili, a female Yorkshire of 4 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 25 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
30-Oct-2018	UAE; 18BR007014; RS; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018	30-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 6 months old and 3 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This dog is bathed 3 times per week. The environment has not been treated. No further information is available.
30-Oct-2018	UAE; 18BR007032; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown	N/A	30-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one cat of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 27 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching itself due to fleas. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					
31-Oct-2018	UAE; 18BR007034; DF; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 12.00 Day(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	29-Oct-2018	30-Oct-2018	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, one intact male Shih Tzu of 12 days old and unknown weight, was treated, for the first time, with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, parts of the body), applied by the reporter on 29 Oct 2018. The pet was in good health prior to FL and has no history of adverse reactions. One day after product application, the pet presented with diarrhea. The symptom is still ongoing. No vet care was provided. This is the extent of the information available.
31-Oct-2018	UAE; 18BR007036; -; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-Jul-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Caca, a female large crossbred dog of 3 years old and approximately 25 kg, was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jul 2018- chosen at random). Lack of efficacy is suspected because fleas were found on her pet. The owner also reported that her animal reacted to NEXGARD (see case 18BR007035). No further information is available.
30-Oct-2018	UAE; 18BR007040; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 5 kg	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	30-Oct-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a male Domestic Shorthair cat (crossbred) of unknown name, 6 months old and 5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 3 days ago (27 Oct 2018) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas . FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (01 Jul 2018 – chosen at random). There is a concomitant patient (1 cat) of the same household that was also treated with FL. The environment has been treated with an unknown product. No further information is expected.
30-Oct-2018	UAE; 18BR007041; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	30-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Salem, a male mixed breed cat of 2 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 6 months since date not specified (1 Jan 207 - chosen at random). Similar cases reported on 18BR007042, 18BR007043 and 18BR007044. No further information is expected.
30-Oct-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	01-Jan-2017*	30-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR007042; SP; Brazil	**Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 3 kg				FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Zac, a male mixed breed cat of 8 months old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 6 months since date not specified (1 Jan 207 - chosen at random). Similar cases reported on 18BR007041, 18BR007043 and 18BR007044. No further information is expected.
30-Oct-2018	UAE; 18BR007043; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	30-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Linda, a female mixed breed cat of 7 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 6 months since date not specified (1 Jan 207 - chosen at random). Similar cases reported on 18BR007041, 18BR007042 and 18BR007044. No further information is expected.
30-Oct-2018	UAE; 18BR007044; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	30-Oct-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ozzy, a male small crossbred dog of 9 years old and 6 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. FL has been applied every 6 months since date not specified (1 Jan 207 - chosen at random). Similar cases reported on 18BR007041, 18BR007042 and 18BR007043. No further information is expected.
31-Oct-2018	UAE; 18BR007046; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	31-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pity, a female Poodle of 14 years old and 3 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, whole body), applied by the reporter on 30 Oct 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007048 and 18BR007049. No further information is expected.
31-Oct-2018	UAE; 18BR007048; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	31-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female small crossbred dog of 2 years old and 3 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, whole body), applied by the reporter on 30 Oct 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007046 and 18BR007049. No further information is expected.

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31-Oct-2018	UAE; 18BR007049; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	31-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sol, a female small crossbred dog of 1 year old and 3 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, whole body), applied by the reporter on 30 Oct 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007046 and 18BR007048. No further information is expected.
29-Oct-2018	UAE; 18BR007050; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	29-Oct-2018*	8 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Ariel, a male mixed breed cat of 13 months old and 3.5 kg, was treated with FRONTLINE SPRAY (lot and exp date are unknown, topical, whole body, applied by the reporter around 10 days ago (21 Oct 2018 - estimated date), for flea treatment. The pet remains with fleas. FL was applied one year ago with no issue (1 Oct 2018 - chosen at random). Environment not treated. Similar cases reported on 18BR006995 and 18BR007051. No further information is expected.
29-Oct-2018	UAE; 18BR007051; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Month(s) **Weight:** 3.5 kg	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	29-Oct-2018*	8 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Odim, a male mixed breed cat of 13 months old and 3.5 kg, was treated with FRONTLINE SPRAY (lot and exp date are unknown, topical, whole body, applied by the reporter around 10 days ago (21 Oct 2018 - estimated date), for flea treatment. The pet remains with fleas. FL was applied one year ago with no issue (1 Oct 2018 - chosen at random). Environment not treated. Similar cases reported on 18BR006995 and 18BR007050. No further information is expected.
31-Oct-2018	UAE; 18BR007057; MG; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	31-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by a retail shop staff member, one male Chow Chow of 6 kg, received FRONTLINE SPOT-ON DOGS S (FL) (011/18A, exp date unknown, topical, btw the shoulder blades), administered by the pet owner on 31 Oct 2018 for flea treatment. The owner believes that FL is not working because the fleas are alive and falling from his pet to the environment. This is the extent of the information available.
31-Oct-2018	UAE; 18BR007058; SP; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown	N/A	31-Oct-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with FRONTLINE SPOT-ON (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter 5 days ago (26 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.

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						to Company					
01-Nov-2018	UAE; 18BR007062; SP; Brazil	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	22-Oct-2018	01-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jade, a female Schnauzer of 7 years old and 12 kg, received FRONTLINE PLUS DOG M (FL) (028/17 exp date unknown, topical, btw the shoulder blades and chest) for the first time, administered by the reporter on 22 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This dog has outdoor access. The environment has not been treated. No further information is available.
31-Oct-2018	UAE; 18BR007064; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	31-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pity, a female crossbred dog of 11 years old and 15 kg, received FRONTLINE PLUS DOGS M (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 2 days ago (29 Oct 2018) for tick treatment. Tick infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her dog still has live ticks. FL has been administered on the pet in the past (dose frequency every 6 months) and the first administration date was not provided (01 Feb 2016 – chosen at random). The environment has not been treated. No further information is available.
01-Nov-2018	UAE; 18BR007065; RS; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014*	01-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pity, a female Shih Tzu of 6 years old and 8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 24 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL has been applied once a year with no issue since date not specified (1 Jan 2014 - chosen at random). No further information is expected.
01-Nov-2018	UAE; 18BR007066; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Nov-2018*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Maltese of 3.5 years old and 3.9 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S(FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 5 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL has been applied every 6 months since date not specified (1 Jan 2017 - chosen at random). The pet has outdoor access. No further information is expected. UPDATE 14 NOV 2018 - The owner complains that Thor is scratching himself (due to fleas) and he has flea allergic dermatitis. Because of that, the dog is also presenting some wounds. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
01-Nov-2018	UAE; 18BR007071; SP; Brazil	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Mar-2018*	01-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theo, a male Maine Coon of 9 months old and 5.5 kg, received FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 25 days ago (7 Oct 2018), for flea treatment. The owner believes that FL is not working because her cat still has live fleas. Flea infestation was seen 45 days prior to FL application. FL has been applied in the past on the pet (dose frequency every 2 months) and the first application date was not provided (2 Mar 2018 – chosen at random). After 17 days of application of FL, was administered one vial of FRONTLINE PLUS CATS (001/18A, exp date unknown, topical, btw the shoulder blades) (FL PLUS), by the owner on 25 Oct 2018 (first application) for the same issue, but the reporter continued to visualize live fleas. There is one concomitant patient (1 cat) of the same household that was also treated with FL and FL PLUS. The environment has not been treated. Similar case reported on 18BR007072. No further information is expected.
01-Nov-2018	UAE; 18BR007072; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-May-2016*	01-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Guerreiro, a male Domestic Shorthair cat (crossbred) of 5 years old and 5 kg, received FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 25 days ago (7 Oct 2018), for flea treatment. The owner believes that FL is not working because her cat still has live fleas. Flea infestation was seen 45 days prior to FL application. FL has been applied in the past on the pet (dose frequency every 2 months) and the first application date was not provided (10 May 2016 – chosen at random). After 17 days of application of FL, was administered one vial of FRONTLINE PLUS CATS (001/18A, exp date unknown, topical, btw the shoulder blades) (FL PLUS), by the owner on 25 Oct 2018 (first application) for the same issue, but the reporter continued to visualize live fleas. There is one concomitant patient (1 cat) of the same household that was also treated with FL and FL PLUS. The environment has not been treated. Similar case reported on 18BR007071. No further information is expected.
01-Nov-2018	UAE; 18BR007076; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Poodle of 10 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for flea and tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR007077. The environment has not been treated. No further information is available.
01-Nov-2018	UAE; 18BR007077; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	N/A	01-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 1 year old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. Similar case reported on 18BR007076. The environment has not been treated. No further information is available.

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					
01-Nov-2018	UAE; 18BR007083; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Jan-2018*	27-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pepi, a male Yorkshire of 9 years old and 7 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, from neck to tail), administered by the reporter on 25 Sep 2018 for flea and tick prevention. Another application of FL was made on 30 Oct 2018. She believes that FL is not working because she started to see ticks on her pet. FL was used in the past (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox®. No further information is available.
01-Nov-2018	UAE; 18BR007086; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2016*	01-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Biga, a female Domestic Shorthair cat (crossbred) of 5 years old and 6 kg, received one vial of FRONTLINE PLUS CATS (FL) (001/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (25 Oct 2018) for flea treatment. Flea infestation was seen around 1 month prior to FL application. The owner believes that FL is not working because her cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Aug 2016 – chosen at random). There are other concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with K-Othrine®. Similar cases reported on 18BR007087 to 18BR007089. No further information is expected. UPDATE 6 Nov 2018 – After using a product of another company, Advocate Cats®, the animal doesn't present fleas anymore. Similar cases reported on 18BR007087 to 18BR007089. No further information is expected.
01-Nov-2018	UAE; 18BR007087; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2016*	01-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Duquesa, a female Domestic Shorthair cat (crossbred) of 6 years old and 3.5 kg, received one vial of FRONTLINE PLUS CATS (FL) (001/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (25 Oct 2018) for flea treatment. Flea infestation was seen around 1 month prior to FL application. The owner believes that FL is not working because her cat still has live fleas. FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Aug 2016 – chosen at random). There are other concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with K-Othrine®. Similar cases reported on 18BR007086, 18BR007088 and 18BR007089. No further information is expected. UPDATE 6 Nov 2018 – After using a product of another company, Advocate Cats®, the animal doesn't present fleas anymore. Similar cases reported on 18BR007086, 18BR007088 and 18BR007089. No further information is expected.
01-Nov-2018	UAE; 18BR007088;	**Species:** Feline **Breed:** Siamese	1	1	0	**Product used:** FIPRONIL	01-Aug-2016*	01-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Siamese cat of 3 years old and 3.5 kg, received

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	SP; Brazil	**Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					one vial of FRONTLINE PLUS CATS (FL) (001/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (25 Oct 2018) for flea treatment. Flea infestation was seen around 1 month prior to FL application. The owner believes that FL is not working because her cat still has live fleas . FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Aug 2016 – chosen at random). There are other concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with K-Othrine®. Similar cases reported on 18BR007086, 18BR007087 and 18BR007089. No further information is expected. UPDATE 6 Nov 2018 – After using a product of another company, Advocate Cats®, the animal doesn't present fleas anymore. Similar cases reported on 18BR007086, 18BR007087 and 18BR007089. No further information is expected.
01-Nov-2018	UAE; 18BR007089; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2016*	01-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female Siamese cat of 3 years old and 3.5 kg, received one vial of FRONTLINE PLUS CATS (FL) (001/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (25 Oct 2018) for flea treatment. Flea infestation was seen around 1 month prior to FL application. The owner believes that FL is not working because her cat still has live fleas . FL has been applied in the past on the pet (dose frequency unknown) and the first application date was not provided (1 Aug 2016 – chosen at random). There are other concomitant patients (3 cats) of the same household that were also treated with FL. The environment has been treated with K-Othrine®. Similar cases reported on 18BR007086 to 18BR007088. No further information is expected. UPDATE 6 Nov 2018 – After using a product of another company, Advocate Cats®, the animal doesn't present fleas anymore. Similar cases reported on 18BR007086 to 18BR007088. No further information is expected.
01-Nov-2018	UAE; 18BR007090; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Preta, a female large crossbred dog of 12 years old and 30 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot unknown, exp date 30 Nov 2018, topical, btw the shoulder blades), administered by the reporter on 24 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet . FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007091. The environment has been treated with unknown product. No further information is available.
01-Nov-2018	UAE; 18BR007091; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bobi, a male large crossbred dog of 15 years old and 25 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot unknown, exp date 30 Nov 2018, topical, btw the shoulder blades), administered by the reporter on 24 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet . FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007090. The environment has been treated with unknown product. No further information is available.

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01-Nov-2018	UAE; 18BR007092; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Nov-2018*	31 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Estiti, a male Lhasa Apso of 5 years old and 8 kg, received one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 1 month ago (1 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and FL was applied in the past (first application not provided - 1 Jan 2018 - chosen at random). Similar case reported on 18BR007093. No further information is expected.
01-Nov-2018	UAE; 18BR007093; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Nov-2018*	31 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Harry, a male Lhasa Apso of 12 years old and 9 kg, received one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 1 month ago (1 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and FL was applied in the past (first application not provided - 1 Jan 2018 - chosen at random). Similar case reported on 18BR007092. No further information is expected.
28-Oct-2018	UAE; 18BR007094; -; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2018	28-Oct-2018*	15 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Leslie, a female medium crossbred dog of 3 years old and 15 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp are unknown, topical, btw the shoulder blades), for the first time, applied by the reporter on 13 Oct 2018, for tick treatment. The pet remains with ticks. Environment not treated. FL SPOT-ON was applied in the past with no issue. Similar cases reported on 18BR006994 and 18BR007095. No further information is expected.
28-Oct-2018	UAE; 18BR007095; -; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 9.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	13-Oct-2018	01-Nov-2018*	19 Day(s)	D-D	Lack of Efficacy Claim: As reported by the pet owner, Thor, a male small crossbred dog of 1 year old and 9.5 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp are unknown, topical, btw the shoulder blades), for the firs time, applied by the reporter on 13 Oct 2018, for tick treatment. The pet remains with ticks. Environment not treated. FL SPOT-ON was applied in the past with no issue. Similar cases reported on 18BR006994 and 18BR007094. No further information is expected.
05-Nov-2018	UAE; 18BR007098; SP; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Nov-2018	05-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mila, a female Labrador of 4 years old and 43 kg, received FRONTLINE PLUS DOG XL (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 1 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The

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		Unknown **Age:** 4.00 Year(s) **Weight:** 43 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					environment has not been treated. No further information is available.
05-Nov-2018	UAE; 18BR007108; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	05-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chanel, a female mixed breed cat of 1 year old and 3 kg, was treated with FRONTLINE SPRAY (FL) (006/17, Feb 2019, topical, whole body), applied by the reporter on 2 Nov 2018, for flea treatment. Flea infestation 1 month prior to FL. Lack of efficacy is suspected because the pet remains with fleas. Environment treated. FL has been applied monthly since date not specified (1 Jul 2018 - chosen at random). Similar cases reported on 18BR007109, 18BR007110 and 18BR007111. No further information is expected.
05-Nov-2018	UAE; 18BR007109; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Oct-2018*	05-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a male cat of 2 months old and 800g, was treated with FRONTLINE SPRAY (FL) (006/17, Feb 2019, topical, whole body), applied by the reporter on 2 Nov 2018, for flea treatment. Flea infestation 1 month prior to FL. Lack of efficacy is suspected because the pet remains with fleas. Environment treated. FL was applied one montg ago (2 Oct 2018 - estimated date). Similar cases reported on 18BR007108, 18BR007110 and 18BR007111. No further information is expected.
05-Nov-2018	UAE; 18BR007110; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Oct-2018*	05-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a male cat of 2 months old and 800g, was treated with FRONTLINE SPRAY (FL) (006/17, Feb 2019, topical, whole body), applied by the reporter on 2 Nov 2018, for flea treatment. Flea infestation 1 month prior to FL. Lack of efficacy is suspected because the pet remains with fleas. Environment treated. FL was applied one montg ago (2 Oct 2018 - estimated date). Similar cases reported on 18BR007108, 18BR007109 and 18BR007111. No further information is expected.
05-Nov-2018	UAE; 18BR007111; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	05-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tacha, a female small crossbred dog of 4 years old and 3 kg, was treated with FRONTLINE SPRAY (FL) (006/17, Feb 2019, topical, whole body), applied by the reporter on 2 Nov 2018, for flea treatment. Flea infestation 1 month prior to FL. Lack of efficacy is suspected because the pet remains with fleas. Environment treated. FL has been applied monthly since date not specified (1 Jul 2018 - chosen at random). Similar cases reported on 18BR007108, 18BR007109 and 18BR007110. No further information is expected.
05-Nov-2018	UAE; 18BR007115;	**Species:** Feline **Breed:** Siamese	1	1	0	**Product used:** FIPRONIL	N/A	05-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bernardo, a male Siamese cat of 3 years old and 6 kg, received

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	SC; Brazil	**Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6 kg				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (21 Oct 2018) for tick treatment. Tick infestation was seen 15 days prior to FL application. The owner believes that FL is not working because she visualizes live ticks attached to the animal's skin. It's unknown if FL has been applied in the past. The environment has not been treated. No further information is available.
05-Nov-2018	UAE; 18BR007118; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Month(s) **Weight:** 3.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Oct-2018	05-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Pinscher of 1 year and 5 months old and 3.1 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 10 days ago (26 Oct 2018; first administration) for flea treatment. Flea infestation was seen 7 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. The environment has been treated with Butox®. In the past she used Topspot monthly with no issue. No further information is available.
05-Nov-2018	UAE; 18BR007119; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Oct-2018	05-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female crossbred cat of 1 year old and 4 kg, received FRONTLINE PLUS CATS (FL) (008/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 29 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This cat does not have outdoor access. The environment has not been treated. No further information is available.
04-Nov-2018	UAE; 18BR007122; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Nov-2018	03-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cloe, a female small crossbred dog of 3 years old and 8 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet has flea allergy dermatitis. The environment has been treated with Butox®. No further information is expected.
01-Nov-2018	UAE; 18BR007125; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	N/A	01-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, an unknown number of dogs of unknown signalment received FRONTLINE PLUS DOG M (lot, exp date, route and location are unknown), applied by the reporter on 30 Oct 2018. The owner believes that FL is not working because her dogs

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		Sex qualifier: Unknown **Age:** 9.00 Year(s) **Weight:** 13 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					continue scratching themselves. This is the extent of the information available. UPDATE 5 NOV 2018 - Bolinha, a male medium crossbred dog of 9 years old and 13 kg, was treated with one vial of FL applied topical, btw the shoulder blades, for flea treatment. The pet remains with fleas and he has flea allergy dermatitis. Environment treated. Similar case reported on 18BR007137. No further information is expected.
05-Nov-2018	UAE; 18BR007126; MG; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	02-Nov-2018*	4 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received FRONTLINE (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for flea treatment. The owner believes that FL is not working because her dog continues with fleas. Environment treated. This is the extent of the information available.
05-Nov-2018	UAE; 18BR007127; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-May-2018*	05-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gilsal, a female Domestic Shorthair cat (crossbred) of 8 months old and 4 kg, received one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 45 days ago (21 Sep 2018) for flea treatment. The owner believed that FL was not working because he visualized live fleas on the pet, so another vial was administered on 29 Oct 2018 and, according to the reporter, the cat remains with live fleas. Flea infestation was seen 30 days prior to FL application. FL has already been applied on the pet in the past (dose frequency every 30 days) and the first application date was not provided (20 May 2018 – chosen at random). There are other concomitant patients (2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007128 and 18BR007129. No further information is expected.
05-Nov-2018	UAE; 18BR007128; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-May-2018*	05-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Domestic Shorthair cat (crossbred) of 8 months old and 4 kg, received one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 45 days ago (21 Sep 2018) for flea treatment. The owner believed that FL was not working because he visualized live fleas on the pet, so another vial was administered on 29 Oct 2018 and, according to the reporter, the cat remains with live fleas. Flea infestation was seen 30 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. FL has already been applied on the pet in the past (dose frequency every 30 days) and the first application date was not provided (20 May 2018 – chosen at random). There are other concomitant patients (2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007127 and 18BR007129. No further information is expected.
05-Nov-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	29-May-2018*	05-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR007129; SP; Brazil	**Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg				FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Maria, a female Domestic Shorthair cat (crossbred) of 1 year old and 5 kg, received one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 45 days ago (21 Sep 2018) for flea treatment. The owner believed that FL was not working because he visualized live fleas on the pet, so another vial was administered 7 days ago (29 Oct 2018) and, according to the reporter, the cat remains with live fleas. Flea infestation was seen 30 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. FL has already been applied on the pet in the past (dose frequency every 30 days) and the first application date was not provided (20 May 2018 – chosen at random). There are other concomitant patients (2 cats) of the same household that were also treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007127 and 18BR007128. No further information is expected.
05-Nov-2018	UAE; 18BR007130; BA; Brazil	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cheirosa, a female Beagle of 8 years old and 20 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 24 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. Similar case reported on 18BR007131. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with K-Othrine®. No further information is available.
05-Nov-2018	UAE; 18BR007131; BA; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Oct-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Dachshund of 13 years old and 20 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 24 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. Similar case reported on 18BR007130. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with K-Othrine. No further information is available.
03-Nov-2018	UAE; 18BR007133; GO; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 1.2 kg	3	3	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	24-Oct-2018*	03-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 3 intact crossbred cats of 2 months old and 1.2 kg received FRONTLINE SPRAY (FL) (lot, exp date unknown, topical, back) for the first time, administered by the reporter around 24 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pets. These animals do not have outdoor access. Similar case reported on 18BR007134. The environment has been treated with Butox® and K-Othrine®. No further information is available.

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						program not respected)					
03-Nov-2018	UAE; 18BR007134; GO; Brazil	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** X **Sex qualifier:** Mixed **Age:** 1.00 Year(s) **Weight:** 4 - 13.2 kg	10	10	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	03-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pets owner, 10 dogs of 1 to 13 years old and 4 to 13.2 kg received FRONTLINE SPRAY (FL) (lot, exp date unknown, topical, back), administered by the reporter on 24 Oct 2018 for flea and tick treatment. She believes that FL is not working because she continues to see ticks on her pets. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). These animals do not have outdoor access. Similar case reported on 18BR007133. The environment has been treated with Butox® and K-Othrine®. No further information is available.
04-Nov-2018	UAE; 18BR007135; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	04-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (30 Oct 2018 – chosen at random) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet . This is the extent of the information available.
05-Nov-2018	UAE; 18BR007136; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2017*	30-Jan-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner, an unknown number of dogs of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on dates not specified (1 Sep 2018 and 1 Oct 2018 – chosen at random). She believes that FL was not working on the last applications , so she started to use another brand's product on her pets. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This is the extent of the information available. UPDATE 9 Nov 2018 - The pets owner was contacted and informed that Nino, a male Yorkshire of 1.5 years old and 5 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not informed (1 Jan 2018 - chosen at random) for flea prevention. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Aug 2017 chosen at random). She believes that FL was not working after last application because she started to see fleas on her pet, so she applied FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time on her pet on date not specified (30 Jan 2018 - estimated date). The pet remained with fleas, so she started to use Bravecto® on her animal and no more fleas were reported. Similar case reported on 18BR007252. The environment was treated with Butox®. No further information is available.
01-Nov-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	N/A	01-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR007137; SP; Brazil	**Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 16 kg				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Flor, a female medium crossbred dog of 4 years old and 16 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL), applied topical, btw the shoulder blades, by the reporter on 30 Oct 2018, for flea treatment. The pet remains with fleas and he has flea allergy dermatitis. Environment treated. Similar case reported on 18BR007125. No further information is expected.
05-Nov-2018	UAE; 18BR007139; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	22-Oct-2018	05-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female small crossbred dog of 11 years old and 4.5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (011/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Oct 2018 and 29 Oct 2018, for flea control. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. The pet has outdoor access. No further information is expected.
05-Nov-2018	UAE; 18BR007140; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fiona, a female mixed breed cat of 3 years old and 3.5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 31 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL has previously been applied. Similar case reported on 18BR007141. No further information is expected.
05-Nov-2018	UAE; 18BR007141; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female mixed breed cat of 2 years old and 2.5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 31 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product and it is unknown if FL has previously been applied. Similar case reported on 18BR007140. No further information is expected.

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05-Nov-2018	UAE; 18BR007142; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Piu, a male mixed breed cat of 1 year old and 4 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. It is unknown if FL has previously been applied. No further information is expected.
05-Nov-2018	UAE; 18BR007143; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 16 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	05-Nov-2018*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female medium crossbred dog of 3 years old and 16 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (019/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 9 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. FL has been applied every 45 days with no issue (first application was not provided - 1 Jan 2018 chosen at random). There are 2 more dogs that were treated with FL and they have no issue. No further information is expected.
03-Nov-2018	UAE; 18BR007144; -; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 15.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2018	03-Nov-2018	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Todd, a male medium crossbred dog of 1 year old and approximately 15.5 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 13 Oct 2018 for flea treatment. She believes that FL is not working because she started to see fleas on her pet again on 3 Nov 2018. The environment has been treated with unknown product. No further information is available.
05-Nov-2018	UAE; 18BR007145; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cleu, a female Domestic Shorthair cat (crossbred) of 6 months old and 3 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 10 days ago (26 Oct 2018) for flea treatment. Flea infestation was seen 15 days prior to FL application. The owner believes that FL is not working because his cat still has live fleas. It's unknown if FL has been applied in the past. There are other 20 animals (not specified if cat or dog) of the same household that were treated with an unknown product. The environment has been treated with K-Othrine®. No further information is expected.
06-Nov-2018	UAE; 18BR007148; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Feb-2018*	06-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Charles, a male Yorkshire of 4 years old and 4.5 kg, was treated, for the second time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 2 weeks ago (23 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied for the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 4.00 Year(s) **Weight:** 4.5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					first time 8 months ago (1 Mar 2018 - chosen at random). No further information is expected.
05-Nov-2018	UAE; 18BR007151; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Nov-2018	02-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Flock, a male small crossbred dog of 7 years old and 14 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 2 Nov 2018, for flea/tick control. The pet was in good health prior to FL and has no history of adverse reactions. Around 15-20 minutes after product application, the pet presented with agitation and the owner noticed application site redness. The affected area was washed, but the pet also had reddening on the abdomen and legs. On 5 Nov 2018, the pet experienced application site lesion. Flock was taken to the vet and he is being treated with an anti-allergic and an ointment. This is the extent of the information available. UPDATE 7 NOV 2018 - According to the vet, the examination revealed erythematous and edematous skin. Fenergan® and Polaramine® were prescribed. The pet is showing improvement. No further information is available.
06-Nov-2018	UAE; 18BR007161; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Feb-2016*	06-Nov-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maya, a female Yorkshire of 8 years old and 6 kg, received FRONTLINE PLUS DOGS S (FL) (018/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter 13 days ago (24 Oct 2018) for flea prevention. The owner believes that FL is not working because her dog has live fleas. FL has been administered on the pet in the past (dose frequency every 30 days) and the first administration date was not provided (1 Feb 2016 – chosen at random). The environment is treated with K-Othrine® every month. No further information is available.
06-Nov-2018	UAE; 18BR007165; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	05-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ágata, a female Lhasa Apso of 9 years old and 6 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, base of skull and btw the shoulder blades), applied by the reporter around 28 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 7 months with no issue (first application was not provided - 1 Jan 2017 - chosen at random). No further information is expected.
06-Nov-2018	UAE; 18BR007178; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	15-May-2018*	06-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Flor, a female crossbred dog of 7 months old and 2.9 kg, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, whole body) for flea treatment on several days in the last month and the last dose was applied by the reporter 2 days ago (4 Nov 2018). The owner believes that FL is not working because his dog still has live fleas. FL was already applied in the past (dose

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		Age: 7.00 Month(s) **Weight:** 29 kg				Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					frequency unknown) and the first application was not provided (15 May 2018 – chosen at random). The environment has not been treated. No further information is expected.
05-Nov-2018	UAE; 18BR007179; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	05-Nov-2018*	5 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, two dogs of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random). Lack of efficacy is suspected because the dogs remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue. No further information is available.
06-Nov-2018	UAE; 18BR007182; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male crossbred cat of 3 years old and 5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) administered by the reporter on 21 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007183 and 18BR007184. The environment has been treated with K-Othrine®. No further information is available.
06-Nov-2018	UAE; 18BR007183; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Miau, a male crossbred cat of 4 years old and 5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) administered by the reporter on 21 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007182 and 18BR007184. The environment has been treated with K-Othrine®. No further information is available.
06-Nov-2018	UAE; 18BR007184; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female crossbred cat of 3.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) administered by the reporter on 21 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007182 and 18BR007183. The environment has been treated with K-Othrine®. No further

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		Weight: 3.5 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					information is available.
07-Nov-2018	UAE; 18BR007194; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 3.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	07-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bebe, a female crossbred cat of 1.5 years old and 3.8 kg, received FRONTLINE PLUS CATS (FL) (008/17B, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 31 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
05-Nov-2018	UAE; 18BR007195; RS; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bigode, a male crossbred dog of 8 years old and 10 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (1 dog and 4 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007196 to 18BR007200. No further information is expected.
05-Nov-2018	UAE; 18BR007196; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tigresa, a female crossbred dog of 6 years old and 20 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (1 dog and 4 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007195 and 18BR007197 to 18BR007200. No further information is expected.
05-Nov-2018	UAE; 18BR007197; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Feliques, a male Domestic Shorthair cat (crossbred) of 5 years old and 5 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs and 3 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007195, 18BR007196 and 18BR007198 to 18BR007200 . No further information is expected.

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05-Nov-2018	UAE; 18BR007198; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rodolfo, a male Domestic Shorthair cat (crossbred) of 7 months old and 3 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs and 3 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007195 to 18BR007197 and 18BR007199 and 18BR007200 . No further information is expected.
05-Nov-2018	UAE; 18BR007199; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Felipia, a female Domestic Shorthair cat (crossbred) of 5 years old and 2 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs and 3 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007195 to 18BR007198 and 18BR007200. No further information is expected.
05-Nov-2018	UAE; 18BR007200; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	05-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Catarina, a female Domestic Shorthair cat (crossbred) of 2 years old and 3 kg, received FRONTLINE SPRAY 100 ml (FL) (lot and exp date unknown, topical, some parts of the body), applied by the reporter 11 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. It's unknown if FL has been applied in the past. There are other concomitant patients (2 dogs and 3 cats) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007195 to 18BR007199. No further information is expected.
07-Nov-2018	UAE; 18BR007203; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	07-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sorte, a male Yorkshire of 4 years old and 3 kg, received FRONTLINE SPRAY (FL) (016/16, exp date unknown, topical, whole body), administered by the reporter on 2 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used for the first time on 23 Oct 2018 with the same issue. This dog does not have outdoor access. Similar cases reported on 18BR007204 to 18BR007207. The environment has been treated with Talfon® and Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007204; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	23-Oct-2018	07-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nicolas, a male Yorkshire of 5 years old and 3 kg, received FRONTLINE SPRAY (FL) (016/16, exp date unknown, topical, whole body), administered by the reporter on 2 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used for the first time on 23 Oct 2018 with the same issue. This dog does not have outdoor access. Similar cases reported on 18BR007203 and 18BR007205

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		Weight: 3 kg				Cutaneous **Was the product used ok?:** Yes					to 18BR007207. The environment has been treated with Talfon® and Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007205; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	07-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female Yorkshire of 5 years old and 5 kg, received FRONTLINE SPRAY (FL) (016/16, exp date unknown, topical, whole body), administered by the reporter on 2 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used for the first time on 23 Oct 2018 with the same issue. This dog does not have outdoor access. Similar cases reported on 18BR007203, 18BR007204, 18BR007206 and 18BR007207. The environment has been treated with Talfon® and Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007206; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	07-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Agorrai, a female Pinscher of 14 years old and 2.5 kg, received FRONTLINE SPRAY (FL) (016/16, exp date unknown, topical, whole body), administered by the reporter on 2 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used for the first time on 23 Oct 2018 with the same issue. This dog does not have outdoor access. Similar cases reported on 18BR007203 to 18BR007205 and 18BR007207. The environment has been treated with Talfon® and Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007207; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	07-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Saludi, a female small crossbred dog of 10 kg, unknown age, received FRONTLINE SPRAY (FL) (016/16, exp date unknown, topical, whole body), administered by the reporter on 2 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used for the first time on 23 Oct 2018 with the same issue. This dog does not have outdoor access. Similar cases reported on 18BR007203 to 18BR007206. The environment has been treated with Talfon® and Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007213; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Nov-2018	06-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Preta, a female Domestic Shorthair cat (crossbred) of 2 years old and 1.5 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 1 day ago (5 Nov 2018; first application) for flea treatment. The owner believes that FL is not working because her cat still has live fleas. The environment has been treated with Butox®. No further information is expected.
07-Nov-2018	UAE; 18BR007218; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	06-Nov-2018	07-Nov-2018	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theo, a male Persian of 6 months old and 2.5 kg, received FRONTLINE PLUS CATS (FL) (007/17, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the

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		Sex: M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 2.5 kg				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					reporter on 6 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The environment has been treated with Arraze®. No further information is available.
07-Nov-2018	UAE; 18BR007220; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	07-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gatinho, a male crossbred cat of 10 months old and 5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 31 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This cat has outdoor access. The environment has not been treated. No further information is available.
07-Nov-2018	UAE; 18BR007221; RJ; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	07-Nov-2018*	5 Week(s) 2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet onwer, an unknown number of dogs were treated with FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Oct 2018 - chosen at random), for tick treatment. Lack of efficacy is suspected because the animals remains with ticks. This is the extent of the information available.
06-Nov-2018	UAE; 18BR007224; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 10 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	25-Oct-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via retail shop, Lupi, a male Poodle of 6 years old and less than 10 kg, received FRONTLINE SPOT-ON DOGS S (FL) (009/17, exp date 31 Dec 2018, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Oct 2018 - estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with Butox®. No further information is available.
08-Nov-2018	UAE; 18BR007237; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.50 Month(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	17-Oct-2018	08-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cookie, a female mixed breed cat of approximately 7.5 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical btw the shoulder blades), applied by the reporter on 17 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar cases reported on 18BR007238, 18BR007239 and 18BR007240. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 3 kg				Cutaneous **Was the product used ok?:** Yes					
08-Nov-2018	UAE; 18BR007238; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	08-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mimi, a female mixed breed cat of 7 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical btw the shoulder blades), applied by the reporter on 17 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with Butox®. Similar cases reported on 18BR007237, 18BR007239 and 18BR007240. No further information is expected.
08-Nov-2018	UAE; 18BR007239; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	08-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Apapagaio, a female mixed breed cat of 1 year old and 2.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical btw the shoulder blades), applied by the reporter on 17 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with Butox®. Similar cases reported on 18BR007237, 18BR007238 and 18BR007240. No further information is expected.
08-Nov-2018	UAE; 18BR007240; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 980 gms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	08-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Filha da Noite, a female mixed breed cat of 6 months old and 980 g, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical btw the shoulder blades), applied by the reporter on 17 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar cases reported on 18BR007237, 18BR007238 and 18BR007239. No further information is expected.
06-Nov-2018	UAE; 18BR007242; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 - 4.5 kg	4	4	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Oct-2018	06-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 4 female Domestic Shorthair cats (crossbred) of approximately 2 years old and around 4 to 4.5 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, whole body), applied by the reporter 26 days ago (11 Oct 2018; first administration), for flea treatment. The owner believed that FL was not working because the cats were presenting live fleas, so another dose was applied on 12 Oct 2018 and they remain with fleas. Flea infestation was seen 7 days prior FL application. There are concomitant patients (7 cats) of the same household that were simultaneously treated with FL and 4 dogs of the same household that were not presenting fleas, but were treated with an unknown product from another brand. The

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											environment has been treated with an unknown product. Similar case reported on 18BR007243. No further information is expected.
06-Nov-2018	UAE; 18BR007243; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1.5 - 8 kg	7	7	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Oct-2018	06-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 7 male Domestic Shorthair cats (crossbred) of around 3 months to 4 years old and around 1.5 to 8 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, whole body), applied by the reporter 26 days ago (11 Oct 2018; first administration), for flea treatment. The owner believed that FL was not working because the cats were presenting live fleas, so another dose was applied on 12 Oct 2018 and they remain with fleas. Flea infestation was seen 7 days prior FL application. There are concomitant patients (4 cats) of the same household that were simultaneously treated with FL and 4 dogs of the same household that were not presenting fleas, but were treated with an unknown product from another brand. The environment has been treated with an unknown product. Similar case reported on 18BR007242. No further information is expected.
07-Nov-2018	UAE; 18BR007244; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Oct-2018	07-Nov-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a female Domestic Shorthair cat (crossbred) of 4 months old and 2 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 13 days ago (25 Oct 2018; first administration) for flea treatment. Flea infestation was seen 1 month prior to FL application. The owner believes that FL is not working because her cat still has live fleas. There is other animal (1 cat) of the same household that was also treated with FL, but is not presenting fleas. The environment has been treated with Talfon®. No further information is expected.
08-Nov-2018	UAE; 18BR007245; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6.6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	08-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Apolo, a male Shih Tzu of 7 years old and 6.6 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 18 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). Similar case reported on 18BR007246. No further information is expected.
08-Nov-2018	UAE; 18BR007246; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12.7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	08-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luck, a male medium crossbred dog of 8 years old and 12.7 kg, was treated with one vial of FRONTLINE SPOT-ON DOG M (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 18 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). Similar case reported on 18BR007245. No further information is expected.
05-Nov-2018	UAE; 18BR007252; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL	01-Aug-2015*	30-Jan-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Yorkshire of 3.5 years old and 2 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not informed (1 Jan 2018 - chosen at random) for flea

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		Unknown **Age:** 3.50 Year(s) **Weight:** 2 kg				10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					prevention. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Aug 2015 chosen at random). She believes that FL was not working after last application because she started to see fleas on her pet, so she applied FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) for the first time on her pet on date not specified (30 Jan 2018 - estimated date). The pet remained with fleas, so she started to use Bravecto® on her animal and no more fleas were reported. Similar case reported on 18BR007136. The environment was treated with Butox®. No further information is available.
07-Nov-2018	UAE; 18BR007253; SP; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	08-Feb-2018*	5 Week(s) 3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location), applied by the reporter on date not specified (1 Jan 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Similar case reported on 18BR007254. No further information is available. UPDATE 13 Nov 2018 - One more case was reported on 18BR007358. No further information is expected.
07-Nov-2018	UAE; 18BR007254; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	07-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail,around three cats of unknown signalment received FRONTLINE (FL)(unsubstantiated)(lot, exp date, route and location), applied by the reporter on date not specified (1 Jan 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar case reported on 18BR007253. No further information is available. UPDATE 13 Nov 2018 – Fadinha, a female Domestic Shorthair cat (crossbred) of 8 months old and 1 kg, received FRONTLINE PLUS CATS (FLP) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (30 Oct 2018) for flea treatment. Lack of efficacy is suspected because the pet still has live fleas . Flea infestation was seen 1 month prior FLP infestation. It is unknown if FLP has been applied in the past. There is a concomitant patient (1 cat) that was simultaneously treated with FLP. The environment has been treated with Fleegard® and Butox®. Similar case reported on 18BR007358. No further information is expected.
08-Nov-2018	UAE; 18BR007255; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	01-Jan-2017*	08-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toddy, a male Domestic Shorthair (crossbred) of 3 years old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (008/17, topical, btw the shoulder blades), applied by the reporter 29 days ago (10 Oct 2018) for flea treatment. The owner believed that FL was not working because her cat presented live fleas some days after the application, so another dose was applied on 30 Oct 2018 and the animal remains with live fleas. FL has been applied on the pet in the past (dose frequency approximately every 30 days) and the first application date was not provided (1 Jan 2017 – chosen at random). The environment has been treated with Butox®. No further information is expected.

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						vaccination program not respected)					
08-Nov-2018	UAE; 18BR007257; PR; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	08-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jhon, a male Domestic Shorthair cat (crossbred) of 3 years old and 3 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (25 Oct 2018) for flea treatment. The owner believes that FL is not working because her cat still has live fleas . FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (01 Jan 2017 – chosen at random). The environment has not been treated. No further information is available.
07-Nov-2018	UAE; 18BR007259; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 25 kg*	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	02-Jan-2015*	07-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female crossbred dog of 5 years old and 25 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, some parts of the body), applied by the reporter 6 days ago (1 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (2 Jan 2015 – chosen at random). There are concomitant patients (3 dogs) of the same household that were simultaneously treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007260 to 18BR007262. No further information is expected.
07-Nov-2018	UAE; 18BR007260; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 25 kg*	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	02-Jan-2015*	07-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Boby, a male crossbred dog of 10 years old and 25 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, some parts of the body), applied by the reporter 6 days ago (1 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (2 Jan 2015 – chosen at random). There are concomitant patients (3 dogs) of the same household that were simultaneously treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007259, 18BR007261 and 18BR007262. No further information is expected.
07-Nov-2018	UAE; 18BR007261; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	02-Jan-2015*	07-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female crossbred dog of 5 years old and 10 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, some parts of the body), applied by the reporter 6 days ago (1 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (2 Jan 2015 – chosen at random). There are concomitant patients (3 dogs) of the same household that were simultaneously treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007259, 18BR007260 and 18BR007262. No further information is expected.
07-Nov-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	02-Jan-2015*	07-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR007262; RS; Brazil	**Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg				FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)					Mel, a female crossbred dog of 5 years old and 25 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, some parts of the body), applied by the reporter 6 days ago (1 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. FL has been applied on the pet in the past (dose frequency unknown) and the first application date was not provided (2 Jan 2015 – chosen at random). There are concomitant patients (3 dogs) of the same household that were simultaneously treated with FL. The environment has been treated with Butox®. Similar cases reported on 18BR007259 to 18BR007261. No further information is expected.
06-Nov-2018	UAE; 18BR007264; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Nov-2018	06-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown) (FL), applied by the reporter on a date not specified (30 Oct 2018 – chosen at random), for an unknown reason. The owner believes that FL is not working. It's unknown if FL has been applied in the past and if the environment has been treated. This is the extent of information available for now. UPDATE 9 Nov 2018 – As reported by the pet owner, Mila, a female Poodle of 12 years old and 6 kg received FRONTLINE PLUS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (2 Nov 2018; first administration) for flea treatment. The owner believes that FL is not working because the animal remains with live fleas. Flea infestation was seen 1 day prior FL application. The environment has not been treated. Similar cases reported on 18BR007287 and 18BR007288. No further information is expected.
08-Nov-2018	UAE; 18BR007265; SP; Brazil	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 9.1 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Nov-2018	08-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maya, a female Schnauzer of 2 years old and 9.1 kg, received FRONTLINE SPOT-ON DOGS S (FL) (018/17b, exp date 30 Apr 2019, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The environment has not been treated. No further information is available.
09-Nov-2018	UAE; 18BR007266; -; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	09-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Pomeranian of 2 years old and 2.7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 24 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The pet has flea allergy dermatitis. Environment not treated. FL has been applied monthly for the past 7 months. No further information is expected.
09-Nov-2018	UAE; 18BR007269;	**Species:** Canine **Breed:** Canine	1	1	0	**Product used:** FIPRONIL	N/A	09-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Glória, a female, crossbred (other signalment is unknown), was

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	RJ; Brazil	(unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					treated with FRONTLINE SPRAY (FL) (003/17, exp date, route and location are unknown), applied by the reporter one week ago (2 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. It is unknown if FL has previously been applied. Similar cases reported on 18BR007270, 18BR007271, 18BR007272 and 18BR007273. No further information is expected.
09-Nov-2018	UAE; 18BR007270; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	09-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female Shih Tzu (other signalment is unknown), was treated with FRONTLINE SPRAY (FL) (003/17, exp date, route and location are unknown), applied by the reporter one week ago (2 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007269, 18BR007271, 18BR007272 and 18BR007273. No further information is expected.
09-Nov-2018	UAE; 18BR007271; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	09-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tata, a female Shih Tzu (other signalment is unknown), was treated with FRONTLINE SPRAY (FL) (003/17, exp date, route and location are unknown), applied by the reporter one week ago (2 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007269, 18BR007270, 18BR007272 and 18BR007273. No further information is expected.
09-Nov-2018	UAE; 18BR007272; RJ; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	09-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Charlote, a female Shih Tzu (other signalment is unknown), was treated with FRONTLINE SPRAY (FL) (003/17, exp date, route and location are unknown), applied by the reporter one week ago (2 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007269, 18BR007270, 18BR007271 and 18BR007273. No further information is expected.
09-Nov-2018	UAE; 18BR007273; RJ; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	09-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rambinho, a male Pomeranian (other signalment is unknown), was treated with FRONTLINE SPRAY (FL) (003/17, exp date, route and location are unknown), applied by the reporter one week ago (2 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. Similar cases reported on 18BR007269, 18BR007270, 18BR007271 and 18BR007272. No further information is expected.

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09-Nov-2018	UAE; 18BR007277; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Oct-2018	09-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kitkat, a female mixed breed cat of 2 years old and 4 kg, was treated, for the first time, one vial of FRONTLINE PLUS CATS (FL) (008/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter 15 days ago (25 Oct 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. The pet has no outdoor access. No further information is expected.
06-Nov-2018	UAE; 18BR007278; PR; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** U **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, one Pit Bull of 7 years old received FRONTLINE PLUS DOGS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the pet owner on 21 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007279 to 18BR007282. The environment has been treated with Koral®. No further information is available.
06-Nov-2018	UAE; 18BR007279; PR; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** U **Sex qualifier:** Unknown **Age:** 3.50 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, one Pit Bull of 3.5 months old received FRONTLINE PLUS DOG (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the pet owner on 21 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007278 and 18BR007280 to 18BR007282. The environment has been treated with Koral®. No further information is available.
06-Nov-2018	UAE; 18BR007280; PR; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** U **Sex qualifier:** Unknown **Age:** 3.50 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, one Pit Bull of 3.5 months old received FRONTLINE PLUS DOG (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the pet owner on 21 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007278, 18BR007279, 18BR007281 and 18BR007282. The environment has been treated with Koral®. No further information is available.
06-Nov-2018	UAE; 18BR007281; PR; Brazil	**Species:** Canine **Breed:** Bull Terrier	1	1	0	**Product used:** FIPRONIL 10%/S	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, one Bull Terrier of 10 years old received FRONTLINE PLUS DOG (FL) (unsubstantiated) (lot and exp date

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		Sex: U **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					unknown, topical, btw the shoulder blades), administered by the pet owner on 21 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007278 to 18BR007280 and 18BR007282. The environment has been treated with Koral®. No further information is available.
06-Nov-2018	UAE; 18BR007282; PR; Brazil	**Species:** Canine **Breed:** Bull Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	06-Nov-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, one Bull Terrier of 4 years old received FRONTLINE PLUS DOG (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the pet owner on 21 Oct 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007278 to 18BR007281. The environment has been treated with Koral®. No further information is available.
06-Nov-2018	UAE; 18BR007287; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Nov-2018	06-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jessi, a crossbred dog of 16 years old and 6 kg received FRONTLINE PLUS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (2 Nov 2018; first administration) for flea treatment. The owner believes that FL is not working because the animal remains with live fleas . Flea infestation was seen 1 day prior FL application. There are other concomitant patients (2 dogs) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007264 and 18BR007288. No further information is expected.
06-Nov-2018	UAE; 18BR007288; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Nov-2018	06-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Neguinho, a male crossbred dog of 6 years old and 7 kg received FRONTLINE PLUS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 4 days ago (2 Nov 2018; first administration) for flea treatment. The owner believes that FL is not working because the animal remains with live fleas . Flea infestation was seen 1 day prior FL application. There are other concomitant patients (2 dogs) of the same household that were simultaneously treated with FL. The environment has not been treated. Similar cases reported on 18BR007264 and 18BR007287. No further information is expected.
12-Nov-2018	UAE; 18BR007293; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2018*	12-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rebeca, a female small crossbred dog of 12 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 28 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was

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		Unknown **Age:** 12.00 Year(s) **Weight:** 8 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. The environment has not been treated. No further information is available.
12-Nov-2018	UAE; 18BR007297; SC; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Nov-2018	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cocada, a male Siamese feline of 17 months old and 3.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 30 Oct 2018 for flea treatment. She believes that FL is not working because she started to see fleas on her pet again on 11 Nov 2018. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). There is a stray cat that has access to this household. The environment has been treated with K-Othrine® and Butox®. No further information is available.
09-Nov-2018	UAE; 18BR007298; PE; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** unknown vaccine; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	23-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Bob, a male small crossbred dog of 1 year old and 5 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (009/17, exp date, route and location are unknown), applied by the reporter on 23 Oct 2018, for tick treatment. An unknown vaccine was also administered in the same date. The pet was in good health prior to FL. FL was administreted in past with no history of adverse reactions, dose and frequency are unknown and first application was not provided, 1 Jan 2018 was chosen randonly. Some hours after products administration, the pet started presenting swelling in the eyes. The owner called to the vet, who said that could be a reaction to FL. The pet was also presenting appetite loss and dark urine color. CBC was performed and some alterations were found (details were not provided). The pet was treated with Hemolitan® and remains under treatment with unknown antibiotic. SLOE case reported on 18BR007299. No further information is available.
09-Nov-2018	UAE; 18BR007299; PE; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** unknown vaccine; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	07-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bob, a male small crossbred dog of 1 year old and 5 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (009/17, exp date, route and location are unknown), applied by the reporter on 23 Oct 2018, for tick treatment. An unknown vaccine was also administered in the same date. Lack of efficacy is suspected because ticks were found on her pet around 15 days after FL application. FL was applied in the past (dose and frequency are unknown and first application was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. SAE case reported on 18BR007298. This is the extent of the information available. UPDATE 13 NOV 2018 - According to the owner, the environment was treated. The pet remains with ticks. No further information is available.
12-Nov-2018	UAE; 18BR007300; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	02-Nov-2018	12-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Shih Tzu of 3 months old and 4.1 kg, received one vial of FRONTLINE PLUS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the attending vet 10 days ago (2 Nov 2018; first administration) for tick treatment. The owner

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		Age: 3.00 Month(s) **Weight:** 4.1 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					believes that FL is not working because he continues to see live ticks on the pet. Tick infestation was seen 4 days prior to FL application. The environment has not been treated. No further information is expected.
12-Nov-2018	UAE; 18BR007301; RS; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	6	6	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	12-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 6 cats of unknown signalment were treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, parts of the body), applied by the reporter one week ago (5 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
12-Nov-2018	UAE; 18BR007302; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Nov-2018	12-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Poodle of 5 years old and 5.5 kg, received FRONTLINE PLUS DOG S (FL) (011/18A, date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 3 Nov 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. FRONTLINE SPOT-ON was used in the past with no issue. This dog does not have outdoor access. The environment has not been treated. No further information is available.
12-Nov-2018	UAE; 18BR007305; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	12-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juli, a female small crossbred dog of 4 years old and 9 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007306. No further information is expected.
12-Nov-2018	UAE; 18BR007306; PR; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2018*	12-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female Shih Tzu canine of 3 years old and 9 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not

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		Weight: 9 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007305. No further information is expected.
10-Nov-2018	UAE; 18BR007308; -; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one small dog of unknown signalment received FRONTLINE SPRAY (FL) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Nov 2018 - chosen at random) for flea and tick treatment. She believes that FL is not working because she continues to see fleas and ticks on her pet. Similar cases reported on 18BR007309 and 18BR007310. The environment has been treated with unknown product. This is the extent of the information available.
10-Nov-2018	UAE; 18BR007309; -; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one medium dog of unknown signalment received FRONTLINE SPRAY (FL) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Nov 2018 - chosen at random) for flea and tick treatment. She believes that FL is not working because she continues to see fleas and ticks on her pet. Similar cases reported on 18BR007308 and 18BR007310. The environment has been treated with unknown product. This is the extent of the information available.
10-Nov-2018	UAE; 18BR007310; -; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one large dog of unknown signalment received FRONTLINE SPRAY (FL) (lot, exp date, route and application site unknown), administered by the reporter on date not informed (1 Nov 2018 - chosen at random) for flea and tick treatment. She believes that FL is not working because she continues to see fleas and ticks on her pet. Similar cases reported on 18BR007308 and 18BR007309. The environment has been treated with unknown product. This is the extent of the information available.
10-Nov-2018	UAE; 18BR007317; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of unknown signalment received FRONTLINE (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random). Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.

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12-Nov-2018	UAE; 18BR007319; RJ; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 42 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	29-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maiki, a male Golden Retriever of 9 years old and 42 kg, received FRONTLINE PLUS DOG XL (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Oct 2018 for flea treatment. Another application of FL was made on 29 Oct 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with unknown product. No further information is available.
11-Nov-2018	UAE; 18BR007320; SP; Brazil	**Species:** Canine **Breed:** Akita **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Nov-2018*	11-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Haxica, a female Akita of 3 months old and15 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter approximately 7 days ago (4 Nov 2018 - chosen at random; first application) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. Flea infestation was seen 14 days prior to FL application. There are an unknown number of cats of the same household that have been treated with a product from another brand. The environment has not been treated. No further information is available.
13-Nov-2018	UAE; 18BR007332; PR; Brazil	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	13-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rubi, a female dog Schnauzer of 4 years old and 8 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 30 Oct 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. The environment has been treated with unknown product. No further information is available.
13-Nov-2018	UAE; 18BR007333; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	05-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pop, a male canine Shih Tzu of 7 years old and 7 kg, received FRONTLINE SPRAY (FL) (001/18, exp date unknown, topical, whole body), administered by the reporter on 15 Oct 2018 for flea and tick prevention. She believes that FL is not working because she started to see fleas and found one attached tick on her pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. The environment has been treated with unknown product. No further information is available.
13-Nov-2018	UAE; 18BR007334; SP; Brazil	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	01-Jun-2017*	12-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frederico, a male crossbred cat of 2 years old and 2 kg, received FRONTLINE SPOT-ON CAT (FL) (023/17A, exp date 30 Nov

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					2019, topical, btw the shoulder blades), administered by the reporter on 11 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used once in the past (1 Jun 2017 - chosen at random). Similar case reported on 18BR007335. The environment has been treated with Butox®. No further information is available.
13-Nov-2018	UAE; 18BR007335; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2017*	12-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leonardo, a male crossbred cat of 4 years old and 4 kg, received FRONTLINE SPOT-ON CAT (FL) (023/17A, exp date 30 Nov 2019, topical, btw the shoulder blades), administered by the reporter on 11 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used once in the past (1 Jun 2017 - chosen at random). Similar case reported on 18BR007334. The environment has been treated with Butox®. No further information is available.
13-Nov-2018	UAE; 18BR007336; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 32 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2016*	13-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female large crossbred dog of 32 kg and unknown age, received FRONTLINE PLUS DOG L (FL) (024/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 9 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - yearly, date of first administration was not provided - 1 Nov 2016 chosen at random). This dog has outdoor access. Similar case reported on 18BR007337. The environment has been treated with Butox®. No further information is available.
13-Nov-2018	UAE; 18BR007337; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 35.00 Month(s) **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2016*	13-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Britney, a female large crossbred dog of 35 months old and 26 kg, received FRONTLINE PLUS DOG L (FL) (024/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 9 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - yearly, date of first administration was not provided - 1 Nov 2016 chosen at random). This dog has outdoor access. Similar case reported on 18BR007336. The environment has been treated with Butox®. No further information is available.
13-Nov-2018	UAE; 18BR007341; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2014*	13-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Junior, a male Poodle of 16 years old and 2 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (029/17, Jul 2019, topical, btw the shoulder blades), applied by the reporter on 10 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied a long time ago (first application was not provided - 1 Jan 2014 chosen at random). No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Yes					
13-Nov-2018	UAE; 18BR007347; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2016*	07-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toty, a male Poodle of 10 years old and 6 kg, received FRONTLINE SPRAY (FL) (006/17A, exp date 28 Feb 2019, topical, whole body), administered by the reporter on 6 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Nov 2016 – estimated date). The environment has been treated with K-Othrine®. No further information is available.
11-Nov-2018	UAE; 18BR007348; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Nov-2018	11-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female cat of unknown signalment was treated, for the first time, with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 8 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, it is scratching itself due to fleas. This is the extent of the information available. UPDATE 22 NOV 2018 - Shakira, a female small crossbred dog of 18 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Nov 2018, for flea treatment. The owner continues to see fleas on her pet. Environment treated with Butox®. No further information is expected.
13-Nov-2018	UAE; 18BR007349; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Apr-2016*	13-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nega, a female crossbred dog of 3 years old and 12 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by a retail shop staff member 14 days ago (30 Oct 2018) for flea treatment. Flea infestation was seen 4 days prior to FL application. The owner believes that FL is not working because his dog still has live fleas . FL has been applied in the past (dose frequency unknown) and the first application date was not provided (30 Apr 2016 – chosen at random). The environment has not been treated. No further information is expected.
07-Nov-2018	UAE; 18BR007358; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 22.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	07-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, around three cats of unknown signalment received FRONTLINE (FL)(unsubstantiated)(lot, exp date, route and location), applied by the reporter on date not specified (1 Jan 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with Butox®. Similar case reported on 18BR007253. No further information is available. Suspected Lack of Efficacy Claim: As reported by the pet owner, Fidu, a male Domestic Shorthair cat (crossbred) of 22 months old and 5 kg, received FRONTLINE PLUS CATS (FLP) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (30 Oct 2018) for flea treatment. Lack of efficacy is suspected because the pet still has live fleas. Flea infestation was seen 1 month prior FLP infestation. It is unknown if FLP has been applied in the past. There is a concomitant patient (1 cat) that was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											simultaneously treated with FLP. The environment has been treated with Fleegard® and Butox®. Similar cases reported on 18BR007253 and 18BR007254. No further information is expected.
12-Nov-2018	UAE; 18BR007362; SP; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	12-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female dog of unknown signalment was treated with one vial of FRONTLINE SPOT-ON DOG M (FL) (lot, exp date, route and location are unknown), applied by the reporter on 5 Nov 2018, for flea/tick control. Lack of efficacy is suspected because the pet has live ticks. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). This is the extent of the information available. UPDATE 16 DEZ 2018 – Mia, a female Cocker Spaniel of 9 years old and 17 kg received FL (topical, btw the shoulder blades). According to the pet owner, after manual removal of the ticks, the ectoparasites were no longer visualized. The environment has been treated with an unknown product. On 17 Dec 2018, the owner contacted BI to report that other animals of the same household were recently treated with FL SPRAY and are presenting the same issue (see SLOE cases 18BR008286, 18BR008287, 18BR008288, 18BR008289 and 18BR008290). No further information is expected.
13-Nov-2018	UAE; 18BR007363; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Jun-2017*	01-Nov-2018*	27 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Laion, a male canine Shih Tzu of 2 years old and 4.8 kg, received FRONTLINE SPRAY 100 ml (FL) (002/17, exp date unknown, topical, whole body), applied by the reporter on a date not specified (5 Oct 2018 – chosen at random) for flea treatment. The owner believed that FL was not working because her dog was still presenting live fleas, so she administered a product from another company (unsubstantiated) on a date not specified and the animal doesn't present fleas anymore (recovered on 05 Nov 2018 - estimated date). FL was applied in the past (dose frequency every 30 days) and the first application date was not provided (8 Jun 2017 – chosen at random). The environment has not been treated. No further information is expected.
13-Nov-2018	UAE; 18BR007365; SP; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 20 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Sep-2018	13-Nov-2018*	7 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Duque, a male canine Golden Retriever of 11 months old and 20 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 25 Sep 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with deltamethrin. There is one more dog treated with FL in this household and it has no issue. No further information is expected.
13-Nov-2018	UAE; 18BR007366; SP; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	08-Nov-2018	13-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Enzo, a male Poodle of 4 years old and 7 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 5 days ago (8 Nov 2018; first administration) for flea treatment. Flea infestation was seen 30 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. There is a

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: 7 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					concomitant patient (1 dog) that was simultaneously treated with FL. The environment has not been treated. Similar case reported on 18BR007367. No further information is expected.
13-Nov-2018	UAE; 18BR007367; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 22.00 Month(s) **Weight:** 3.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Nov-2018	13-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Estrela, a female canine Yorkshire Terrier of 22 months old and 3.6 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 5 days ago (8 Nov 2018; first administration) for flea treatment. Flea infestation was seen 30 days prior to FL application. The owner believes that FL is not working because her dog still has live fleas. There is a concomitant patient (1 dog) that was simultaneously treated with FL. The environment has not been treated. Similar case reported on 18BR007366. No further information is expected.
13-Nov-2018	UAE; 18BR007374; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	13-Nov-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of cats of unknown signalment, received FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random) for flea treatment. She believes that FL is not working because she continues to see fleas on her pets. This is the extent of the information available. UPDATE 16 Nov 2018 - The pet owner informed that Lili, a female crossbred cat of 4 years old and 3 kg, received FRONTLINE PLUS CATS (FL) (001/17A, exp date 31 Dec 2019, topical, btw the shoulder blades) for the first time, administered by the reporter on 10 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR007425. The environment has not been treated. No further information is available.
14-Nov-2018	UAE; 18BR007376; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Oct-2018	14-Nov-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Plin, a male Shih Tzu of 4 months old and 3 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, btw the shoulder blades - incorrect application), applied by the reporter on 1 Oct 2018 and around 28 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
14-Nov-2018	UAE; 18BR007379; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-Jan-2018*	14-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thomas, a male crossbred cat of 3 years old and 6 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random).

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		Weight: 6 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Similar cases reported on 18BR007380 to 18BR007382. There is an untreated animal living in this household. The environment has not been treated. No further information is available.
14-Nov-2018	UAE; 18BR007380; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	14-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marquinha, a female crossbred cat of 4 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007379, 18BR007381 and 18BR007382. There is an untreated animal living in this household. The environment has not been treated. No further information is available.
14-Nov-2018	UAE; 18BR007381; SP; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	14-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cenourinha, a female Turkish Angora of 2 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007379, 18BR007380 and 18BR007382. There is an untreated animal living in this household. The environment has not been treated. No further information is available.
14-Nov-2018	UAE; 18BR007382; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	14-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by a friend of the pet owner, one female cat of unknown signalment, received FRONTLINE PLUS CATS (FL) (lot and exp date, route and application site unknown), administered by the pet owner on date not informed (6 Nov 2018 - chosen at random) for flea treatment. The owner believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. Similar cases reported on 18BR007379 to 18BR007381. Untreated animals have access to this household. No further information is available.
14-Nov-2018	UAE; 18BR007384; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	03-Nov-2018	14-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bulna, a female mixed breed cat of 2.5 years old and 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. SAE case reported on 18BR007385. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
14-Nov-2018	UAE; 18BR007385; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Nov-2018	03-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Bulna, a female mixed breed cat of 2.5 years old and 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Nov 2018, for flea treatment. Soon after product application, the pet presented with appetite loss and she is not drinking water. The symptoms are still ongoing and no vet care was provided. SLOE case reported on 18BR007384. No further information is expected.
13-Nov-2018	UAE; 18BR007386; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	14-Nov-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Willy, a male mixed breed cat of 6 years old and around 6 kg, was treated with FRONTLINE PLUS CATS (FL) (004/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 28 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. SAE case reported on 18BR007387. This is the extent of the information available. UPDATE 30 NOV 2018 - Environment not treated. FL has been applied every 6 months with no issue since date not specified (1 Jan 2017 - chosen at random). In addition, the owner said that she applied FL in another cat and it has the same issue (see case 18BR007800). No further information is expected.
13-Nov-2018	UAE; 18BR007387; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	07-Nov-2018*	10 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Willy, a male mixed breed cat of 6 years old and around 6 kg, was treated with FRONTLINE PLUS CATS (FL) (004/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 28 Oct 2018, for flea treatment. On unknown date, the pet presented with dark skin and hair loss. SLOE case reported on 18BR007386. This is the extent of the information available. UPDATE 30 NOV 2018 - According to the owner, Willy was in good health prior to FL and has no history of adverse reactions. Around 10 days after FL application, the cat presented with the symptoms reported above. No vet care was provided and he recovered by himself. FL has been applied every 6 months with no issue since date not specified (1 Jan 2017 - chosen at random). In addition, there is one more cat that was treated with FL and it remains with fleas (see case 18BR007800). No further information is known.
14-Nov-2018	UAE; 18BR007389; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	13-Nov-2018	14-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Juca, a male medium crossbred dog of 5 months old and 9 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 13 Nov 2018, for the first time, for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available. UPDATE 16 Nov 2018 - The pet owner informed that no more fleas were visualized on Juca since 15 Nov 2018. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
16-Nov-2018	UAE; 18BR007409; SP; Brazil	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2016*	16-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobi, a male dog Terrier-like (breed not specified) of 8 years old and 12 kg, received FRONTLINE PLUS DOGS M (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 14 days ago (2 Nov 2018) for flea treatment. The owner believes that FL is not working because his dog still has live fleas . FL has been used in the past with no issue (dose frequency every 30 days) and the first administration date was not provided (1 Jan 2016 – chosen at random). The environment has not been treated. No further information is expected.
16-Nov-2018	UAE; 18BR007410; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	16-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Pinscher of 3 years old and 2.5 kg, received FRONTLINE PLUS DOG S (FL) (011/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 9 Nov 2018 for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog does not have outdoor access. The environment has been treated with Butox®. No further information is available.
16-Nov-2018	UAE; 18BR007411; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lily, a female Lhasa Apso of 4 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 26 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR0074 to 18BR0074. The environment has been treated with unknown product. No further information is available.
16-Nov-2018	UAE; 18BR007412; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	09-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Enzo, a male Lhasa Apso of 10 years old and 5.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 26 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007411 to 18BR007413. The environment has been treated with unknown product. No further information is available.
16-Nov-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	01-Jan-2018*	09-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR007413; SP; Brazil	**Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 9 kg				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Bobi, a male small crossbred dog of 12 years old and 9 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 26 Oct 2018 for flea prevention. She believes that FL is not working because she started to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007411 to 18BR007412. The environment has been treated with unknown product. No further information is available.
16-Nov-2018	UAE; 18BR007421; PA; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** AFOXOLANER 68 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	14-Jan-2017*	16-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female crossbred dog of 5 years old and 23 kg, received NEXGARD (68 mg) (NG) (lot and exp date unknown), administered orally by the reporter 6 days ago (10 Nov 2018) for tick treatment. The owner believed that NG was not working because she visualized live ticks on her pet, so one vial of FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades) was applied on 14 Nov 2018 and the reporter keep seeing live ticks on the animal. NG has been administered in the past (dose frequency unknown) and the first administration date was not provided (11 Nov 2017 – chosen at random). FL has been administered in the past (dose frequency unknown) and the first application date was not provided (14 Jan 2017 – chosen at random). The environment has been treated with Butox® e Ibatox®. No further information is available.
14-Nov-2018	UAE; 18BR007423; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	14-Jan-2016*	14-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female dog of unknown signalment received FRONTLINE (FL) (unsubstantiated; 009/17, Dec 2018, route and location are unknown), applied by an unknown person on a date not specified (30 Oct 2018 – chosen at random), for flea and tick treatment. The owner believes that FL is not working because the pet remains with ectoparasites. FL has been administered in the past (dose frequency unknown) and the first application date was not provided (14 Jan 2016 – chosen at random). It is unknown if the environment has been treated. This is the extent of information available for now.
13-Nov-2018	UAE; 18BR007425; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Nov-2018	13-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leo, male, cat, Siamese, 4 years old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (001/17A, exp date 31 Dec 2019, topical, btw the shoulder blades) for the first time, administered by the reporter on 11 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar case reported on 18BR007374. The environment has not been treated. No further information is available.

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16-Nov-2018	UAE; 18BR007428; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Sep-2018	16-Nov-2018*	8 Week(s) 1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Neia, a female crossbred cat of 6 years old and 4 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 20 Sep 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. The environment has not been treated. No further information is available.
14-Nov-2018	UAE; 18BR007430; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	14-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 dogs of unknown signalment, received FRONTLINE PLUS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 9 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pets. The environment has been treated with unknown product. This is the extent of the information available.
16-Nov-2018	UAE; 18BR007431; RS; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Month(s) **Weight:** 9.1 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	04-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jade, a female Cocker of 10 months old and 9.1 kg, received FRONTLINE SPOT-ON DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 Nov 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Mar 2018 chosen at random). Similar case reported on 18BR007432. The environment has not been treated. No further information is available.
16-Nov-2018	UAE; 18BR007432; RS; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	04-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Morena, a female Poodle of 6 years old and 5 kg, received FRONTLINE SPOT-ON DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 2 Nov 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 2 months, date of first administration was not provided - 1 Mar 2018 chosen at random). Similar case reported on 18BR007431. The environment has not been treated. No further information is available.
16-Nov-2018	UAE; 18BR007439; -; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	01-Feb-2016*	16-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female dog Shih Tzu of 8 years old and 5 kg, received FRONTLINE PLUS DOGS S (FL) (023/17, Jun 2019, topical, btw the shoulder blades), applied by the reporter approximately 10 days ago (6 Nov 2018 - chosen at random) for flea treatment. The owner believes that FL is not working because his dog still has live fleas. Flea infestation was seen 3 days prior to FL application. FL has been administered in the past (dose frequency unknown) and

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						products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the first administration date was not provided (01 Feb 2016 – chosen at random). There is other animal (1 cat) of the same household that has been treated with FL and has no flea. The environment has not been treated. No further information is available.
16-Nov-2018	UAE; 18BR007441; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 12 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	16-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frederico, a male medium crossbred dog of 6 months old and 12 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). Similar case reported on 18BR007442. There are 2 more treated dogs in this household and they have no issue. No further information is expected.
16-Nov-2018	UAE; 18BR007442; RS; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	16-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bartolomeu, a female Shih Tzu of 14 months old and 10 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. The environment has been treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). Similar case reported on 18BR007441. There are 2 more treated dogs in this household and they have no issue. No further information is expected.
19-Nov-2018	UAE; 18BR007455; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Aug-2018*	05-Nov-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kalli, a female small crossbred dog of 9 years old and 2 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on October 2018 (10 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied on August 2018 (10 Aug 2018 chosen at random) with the same issue. No further information is expected.
19-Nov-2018	UAE; 18BR007461; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 7.50 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	19-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Charlotte, a female Lhasa Apso of 7.5 years old and 13 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 14 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
17-Nov-2018	UAE; 18BR007464; -; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	17-Nov-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female Shih Tzu (other signalment is unknown) was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter less than 1 month ago (20 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). This is the extent of the information available.
19-Nov-2018	UAE; 18BR007476; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Nov-2018	19-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female mixed breed cat of 9 months old and 2 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 13 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Triatox®. No further information is expected.
19-Nov-2018	UAE; 18BR007478; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	16-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Floquinho, a male Lhasa Apso of 2 years old and 6.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG P (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 10 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. Similar case reported on 18BR007479. No further information is expected. UPDATE 1 Dec 2018 - The owner informed that her pet remains with fleas. No further information is expected.
19-Nov-2018	UAE; 18BR007479; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	16-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teca, a female small crossbred dog of 5 years old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG P (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 10 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. Similar case reported on 18BR007478. No further information is expected. UPDATE 1 Dec 2018 - The owner informed that her pet remains with fleas. No further information is expected.
19-Nov-2018	UAE; 18BR007480; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products**	01-Jan-2017*	19-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pérola, a female small crossbred dog of 4 years old and 5 kg, was treated with FRONTLINE SPRAY (FL) (004/17, Jan 2019, topical, whole body), applied by the reporter around 1 Nov 2018 and approximately on 13 Nov 2018, for flea treatment. Lack of efficacy

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		Sex: F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR007481. No further information is expected. UPDATE 21 Nov 2018 – Another dose of FL has been applied again on today's date and, according to the owner, the pet remains with live fleas. Similar case reported on 18BR007481. No further information is expected.
19-Nov-2018	UAE; 18BR007481; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	19-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female small crossbred dog of 14 years old and 10 kg, was treated with FRONTLINE SPRAY (FL) (004/17, Jan 2019, topical, whole body), applied by the reporter around 1 Nov 2018 and approximately on 13 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet has flea allergy dermatitis. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR007480. No further information is expected. UPDATE 21 Nov 2018 – Another dose of FL has been applied again on today's date and, according to the owner, the pet remains with live fleas. Similar case reported on 18BR007480. No further information is expected.
19-Nov-2018	UAE; 18BR007482; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Nov-2018	19-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leky, a male small crossbred dog of 1 year old and 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 16 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. The pet has outdoor access. No further information is expected.
18-Nov-2018	UAE; 18BR007489; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 35.00 Month(s) **Weight:** 7 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	18-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female small crossbred dog of 35 months old and 7 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 14 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. The pet has outdoor access. Similar cases reported on 18BR007490 and 18BR007491. No further information is expected.
18-Nov-2018	UAE; 18BR007490; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	14-Nov-2018	19-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeca, a male small crossbred dog of 35 months old and 8 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 14 Nov 2018, for flea

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		Sex qualifier: Unknown **Age:** 35.00 Month(s) **Weight:** 8 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. The pet has outdoor access. Similar cases reported on 18BR007489 and 18BR007491. No further information is expected.
18-Nov-2018	UAE; 18BR007491; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 35.00 Month(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	18-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, July, a female small crossbred dog of 35 months old and 9 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 14 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. The pet has outdoor access. Similar cases reported on 18BR007489 and 18BR007490. No further information is expected.
19-Nov-2018	UAE; 18BR007493; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	19-Nov-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Stitch, a male Yorkshire of 5 years old and 2 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 3 months since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
19-Nov-2018	UAE; 18BR007495; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2018*	01-Jun-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chimbica, a male small crossbred dog of 17 years old and 7.5 kg, was treated with FRONTLINE SPRAY (009/16, unknown exp date, topical, parts of the body), applied by the reporter around 6 months ago (1 May 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog had fleas. FL was applied every 15 days since date not specified (1 Jan 2018 - chosen at random). Environment treated with Butox®. Other product was administered and the pet is free of fleas. Similar cases reported on 18BR007496, 18BR007497 and 18BR007498. No further information is expected.
19-Nov-2018	UAE; 18BR007496; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2018*	01-May-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alfredo, a male small crossbred dog of 17 years old and 7 kg, was treated with FRONTLINE SPRAY (009/16, unknown exp date, topical, parts of the body), applied by the reporter around 6 months ago (1 May 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog had fleas. FL was applied every 15 days. Environment treated with Butox®. Other product was administered and the pet is free of fleas. Similar cases reported on 18BR007495, 18BR007497 and 18BR007498. No further information is expected.

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19-Nov-2018	UAE; 18BR007497; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2018*	01-May-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chico, a male small crossbred dog of 20 months old and 7 kg, was treated with FRONTLINE SPRAY (009/16, unknown exp date, topical, parts of the body), applied by the reporter around 6 months ago (1 May 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog had fleas. FL was applied every 15 days. Environment treated with Butox®. Other product was administered and the pet is free of fleas. Similar cases reported on 18BR007495, 18BR007496 and 18BR007498. No further information is expected.
19-Nov-2018	UAE; 18BR007498; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 30.00 Month(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2018*	01-May-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tigrão, a male small crossbred dog of 30 months old and 4.5 kg, was treated with FRONTLINE SPRAY (009/16, unknown exp date, topical, parts of the body), applied by the reporter around 6 months ago (1 May 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog had fleas. FL was applied every 15 days. Environment treated with Butox®. Other product was administered and the pet is free of fleas. Similar cases reported on 18BR007495, 18BR007496 and 18BR007497. No further information is expected.
19-Nov-2018	UAE; 18BR007499; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 - 6 kg	9	9	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	21-Dec-2017*	19-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner, 9 mixed Domestic Shorthair cats (crossbred) of around 1 to 10 years old and 3 to 6 kg, received FRONTLINE SPRAY 250 ml (FL) (016/16, exp date unknown, topical, some parts of the body), applied by the reporter 2 days ago (17 Nov 2018) for flea treatment. The owner believes that FL is not working because her cats are still presenting live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past (dose frequency every 30 days) and the first application date was not provided (21 Dec 2017 – chosen at random). The environment has been treated with an unknown product. There is a concomitant patient (1 dog) that was simultaneously treated with FL. Similar case reported on 18BR007500. No further information is expected.
19-Nov-2018	UAE; 18BR007500; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	21-Dec-2017*	19-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pupi, a female crossbred dog of 6 years old and 7 kg, received FRONTLINE SPRAY 250 ml (FL) (016/16, exp date unknown, topical, some parts of the body), applied by the reporter 2 days ago (17 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog is still presenting live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past with no issue (dose frequency every 30 days) and the first application date was not provided (21 Dec 2017 – chosen at random). The environment has been treated with an unknown product. There are concomitant patients (9 cats) of the same household that were simultaneously treated with FL. Similar case reported on 18BR007499. No further information is expected.
21-Nov-2018	UAE; 18BR007501; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Apr-2018*	21-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chabal, a male Pit Bull of 2 years and 6 months old and 32 kg, received FRONTLINE PLUS DOGS L (FL) (015/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter 4 days ago (17 Nov 2018) for flea treatment. Flea infestation was seen 7

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		Unknown **Age:** 2.50 Year(s) **Weight:** 32 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					days prior to FL application. The owner believes that FL is not working because his dog still has live fleas. FL has been administered one time in the past (dose frequency unknown) and the first administration date was not provided (01 Apr 2018 – chosen at random). The environment has been treated with Triatox® and Butox®. No further information is available.
19-Nov-2018	UAE; 18BR007502; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2016*	19-Nov-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the animals remain with fleas. This is the extent of the information available. UPDATE 26 NOV 2018 - Anaquim, a male mixed breed cat of 7 years old and 6 kg, was treated with one vial of FRONTLINE PLUS CATS (topical, neck), applied by the reporter around 16 Nov 2018, for flea treatment. The pet still has fleas. FL has been applied every 6 months (first application was not provided - 1 Jan 2016 chosen at random). Environment treated with deltamethrin. Similar case reported on 18BR007639. No further information is expected.
21-Nov-2018	UAE; 18BR007503; PR; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	15-Oct-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female Persian of 4 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 29 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007504. The environment has been treated with unknown product. No further information is available.
21-Nov-2018	UAE; 18BR007504; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	15-Oct-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Colie, a female crossbred cat of 2 years old and 4.5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 29 Sep 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007503. The environment has been treated with unknown product. No further information is available.
19-Nov-2018	UAE; 18BR007506; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	N/A	15-Oct-2018	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with one dose of FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 15 Sep

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					2018, for flea treatment. Lack of efficacy is suspected because fleas and ticks were found on her pet on 15 Oct 2018. In addition, the pet has skin disease due to ectoparasites. This is the extent of the information available.
21-Nov-2018	UAE; 18BR007508; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	15-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Olivia, a female Domestic Shorthair cat (crossbred) of 3 years and 5 months old and 2.5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (6 Nov 2018) for flea treatment. The owner believed that FL was not working because he was still visualizing live fleas on the pet, so a dose of FRONTLINE PLUS CATS (FL PLUS) (001/17, exp date unknown, topical, btw the shoulder blades) was administered after 6 days (on 12 Nov 2018), and, even then, the owner continued to see live fleas. The reporter said that only after using another company's product (unsubstantiated; date of administration not specified), the animals stopped presenting fleas. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (1 Jul 2018 – chosen at random). FL PLUS has been also administered in the past (dose frequency unknown) and the first application date was not provided (1 Jun 2018 – chosen at random). There are concomitant patients (2 cats) of the same household that were also treated with FL and FL PLUS. The environment has not been treated. Similar cases reported on 18BR007509 and 18BR007510. No further information is available.
21-Nov-2018	UAE; 18BR007509; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	15-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Minnie, a female Domestic Shorthair cat (crossbred) of 2 years old and 2.5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (6 Nov 2018) for flea treatment. The owner believed that FL was not working because he was still visualizing live fleas on the pet, so a dose of FRONTLINE PLUS CATS (FL PLUS) (001/17, exp date unknown, topical, btw the shoulder blades) was administered after 6 days (on 12 Nov 2018), and, even then, the owner continued to see live fleas. The reporter said that only after using another company's product (unsubstantiated; date of administration not specified), the animals stopped presenting fleas. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (1 Jul 2018 – chosen at random). FL PLUS has been also administered in the past (dose frequency unknown) and the first application date was not provided (1 Jun 2018 – chosen at random). There are concomitant patients (2 cats) of the same household that were simultaneously treated with FL and FL PLUS. The environment has not been treated. Similar cases reported on 18BR007508 and 18BR007510. No further information is available.
21-Nov-2018	UAE; 18BR007510; RS; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL	01-Jul-2018*	15-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gateau, a male Domestic Shorthair cat (crossbred) of 7 months old and 1.8 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (6 Nov 2018) for flea

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 7.00 Month(s) **Weight:** 1.8 kg				10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					treatment. The owner believed that FL was not working because he was still visualizing live fleas on the pet, so a dose of FRONTLINE PLUS CATS (FL PLUS) (001/17, exp date unknown, topical, btw the shoulder blades) was administered after 6 days (on 12 Nov 2018), and, even then, the owner continued to see live fleas. The reporter said that only after using another's company product (unsubstantiated; date of administration not specified), the animals stopped presenting fleas. FL has been applied in the past (dose frequency unknown) and the first application date was not provided (1 Jul 2018 – chosen at random). FL PLUS has been also administered in the past (dose frequency unknown) and the first application date was not provided (1 Jun 2018 – chosen at random). There are concomitant patients (2 cats) of the same household that were simultaneously treated with FL and FL PLUS . The environment has not been treated. Similar cases reported on 18BR007508 and 18BR007509. No further information is available.
18-Nov-2018	UAE; 18BR007511; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Nov-2018*	18-Nov-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE SPRAY (FL) (lot, exp date, route and application site unknown) for the first time, administered by the reporter on date not informed (1 Nov 2018 - chosen at random) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This is the extent of the information available.
21-Nov-2018	UAE; 18BR007517; RJ; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Nov-2018	21-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tito, a male mixed breed cat of 1 year old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 10 days ago (11 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
20-Nov-2018	UAE; 18BR007521; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	20-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment was treated with FRONTLINE PLUS DOG S (lot, exp date, route and location are unknown), applied by the reporter on 13 Nov 2018, for flea/tick treatment. Lack of efficacy is suspected because the pet remains with ectoparasites. This is the extent of the information available. UPDATE 3 DEC 2018 - Luck, a male Shih Tzu of 4 years old and 7 kg, was treated with one vial of FL, topical and btw the shoulder blades. The pet is currently free of ticks, but the reporter continues to see fleas on her dog. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jul 2017 chosen at random). It is unknown if the environment has been treated. No further information is available. UPDATE 5 DEC 2018 - According to the owner, the environment has not been treated. The owner continues to see fleas on her dog and she will apply FRONTLINE SPRAY. No further information is expected.

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21-Nov-2018	UAE; 18BR007524; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Nov-2018	16-Nov-2018	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Totóia, a female Poodle of 3 years old and 3.9 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the veterinarian on 8 Nov 2018 for flea and tick prevention. She believes that FL is not working because she started to see fleas and ticks on her pet on 16 Nov 2018. The environment has been treated by a specialized company. No further information is available.
18-Nov-2018	UAE; 18BR007525; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of unknown signalment received FRONTLINE SPRAY 250 ML (FL) (014/15, Nov 2018, route and location are unknown), applied by the reporter approximately 2 months ago (27 Sep 2018 – estimated date), for flea treatment. The owner believed that FL was not working because he continued to visualize live fleas on the pet, so another dose was administered after around 30 days (27 Oct 2018 – estimated date). Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL has been administered in the past and if the environment has been treated. There are other animals (3 cats and 1 dog) of the same household that were also treated, but with another company's product and, according to the reporter, they are not presenting fleas. This is the extent of information available for now. UPDATE 22 Nov 2018 – Bob, a male crossbred dog of 3 months old and 3.5 kg received FL (014/16, Nov 2018, topical, applied only btw the shoulder blades), administered on 1 Oct 2018 (first administration) for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so another dose was applied on 1 Nov 2018. Lack of efficacy was suspected again because the dog remained with live fleas, so, approximately one week after the last dose of FL, a product from another company (Neopet®) was administered and, currently, according to the reporter, the animal is not presenting ectoparasites (14 Nov 2018 - estimated date). Flea infestation was seen 7 days prior to FL application. The environment has not been treated. There are concomitant patients of the same household that were simultaneously treated with FL. Similar cases reported on 18BR007580, 18BR007584, 18BR007586 and 18BR007587. No further information is available. UPDATE 26 NOV 2018 - According to the owner, on 23 Nov 2018, FL SPRAY was applied to the whole body of the animal and he presented an
21-Nov-2018	UAE; 18BR007530; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Neném, a female mixed breed cat of 15 years old and 3 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007531 to 18BR007535. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
21-Nov-2018	UAE; 18BR007531; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female mixed breed cat of 8 months old and 3 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007530, 18BR007532 to 18BR007535. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.
21-Nov-2018	UAE; 18BR007532; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tico, a male mixed breed cat of 8 months old and 4 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007530, 18BR007531, 18BR007533 to 18BR007535. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.
21-Nov-2018	UAE; 18BR007533; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mãe, a female mixed breed cat of 2 years old and 5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007530 to 18BR007532, 18BR007534 and 18BR007535. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.
21-Nov-2018	UAE; 18BR007534; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cinzinha, a female mixed breed cat of 1 year old and 6 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007530 to 18BR007533 and 18BR007535. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.
21-Nov-2018	UAE; 18BR007535; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Nov-2018*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Negão, a male mixed breed cat of 1 year old and 5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007530 to 18BR007534. There are 2 dogs in this household that were treated with other product and they have no issue. No further information is expected.

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						ok?: Yes					
20-Nov-2018	UAE; 18BR007541; SP; Brazil	**Species:** Canine **Breed:** Rottweiler **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Nov-2018	20-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hana, a female Rottweiler of 2 years old and 40 kg received one vial of FRONTLINE SPOT-ON DOGS XL (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (6 Nov 2018; first administration) for flea treatment. The owner believes that FL is not working because the pet still has live fleas. Flea infestation was seen 7 days prior to FL application. There is a concomitant patient (1 dog) of the same household that was simultaneously treated with FL. The environment has been treated with an unknown product. Similar case reported on 18BR007542. No further information is expected.
20-Nov-2018	UAE; 18BR007542; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Nov-2018	20-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Arthur, a male Pomeranian of 3 years old and 6 kg received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (6 Nov 2018; first administration) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. Flea infestation was seen 7 days prior to FL application. There is a concomitant patient (1 dog) of the same household that was simultaneously treated with FL. The environment has been treated with an unknown product. Similar case reported on 18BR007541. No further information is expected.
21-Nov-2018	UAE; 18BR007543; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Nov-2018	21-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Pit Bull of 3 years old and 20 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 6 Nov 2018 for tick treatment. He believes that FL is not working because he continues to see ticks on his pet. The environment has not been treated. No further information is available.
21-Nov-2018	UAE; 18BR007544; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 1.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2008*	21-Nov-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pingo, a male Yorkshire of 12 years old and 1.7 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 4 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2008 chosen at random). This dog does not have outdoor access. The environment has not been treated. No further information is available.
18-Nov-2018	UAE; 18BR007546; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:**	6	6	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other	N/A	10-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner via e-mail, 6 dogs of unknown signalment received FRONTLINE SPRAY 500 ML (FL) (lot, exp date, route and location are unknown), applied by the reporter approximately 19 days ago (30 Oct 2018 – chosen at random), for flea treatment. Lack of efficacy

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		Unknown **Age:** - **Weight:** Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					is suspected because the pets remain with live fleas. It is unknown if FL has been administered in the past. The environment has been treated with an unknown product. Similar cases reported on 18BR007547 and 18BR007548. This is the extent of information available for now.
18-Nov-2018	UAE; 18BR007547; RS; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner via e-mail, 1 cat of unknown signalment received FRONTLINE SPRAY 500 ML (FL) (lot, exp date, route and location are unknown), applied by the reporter approximately 19 days ago (30 Oct 2018 – chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL has been administered in the past. The environment has been treated with an unknown product. Similar cases reported on 18BR007546 and 18BR007548. This is the extent of information available for now.
18-Nov-2018	UAE; 18BR007548; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner via e-mail, 1 dog of unknown signalment received FRONTLINE PLUS (FL) (unsubstantiated; lot, exp date, route and location are unknown) and FRONTLINE SPRAY 500 ML (FS) (lot, exp date, route and location are unknown), applied by the reporter approximately 19 days ago (30 Oct 2018 – chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown inf FL and FS had been used in the past. The environment has been treated with an unknown product. Similar cases reported on 18BR007546 and 18BR007547. This is the extent of information available for now.
20-Nov-2018	UAE; 18BR007553; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	21-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one male Shih Tzu of 8 kg was treated with FRONTLINE S (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . In addition, the pet is presenting some wounds due to fleas. This is the extent of the information available. UPDATE 26 NOV 2018 - Theodoro, a male Shih Tzu of 10 years old and 8 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (11 Nov 2018 - estimated date), for flea treatment. The pet still has fleas. Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is expected.
22-Nov-2018	UAE; 18BR007554; RJ; Brazil	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Jan-2012*	17-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marley, a male Boxer of 7 years old and 30 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (15 Jun 2018 - estimated date) for flea treatment. Another dose of FL was applied on 15 Sep 2018. He believes that FL was not working because he continued to see fleas on his pet, so he applied another brand's product on 15 Nov

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** Yes					2018 and the dog has no more fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2012 chosen at random). The environment has been treated with Butox®. No further information is available.
20-Nov-2018	UAE; 18BR007555; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL SPOT ON DOG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	20-Nov-2018*	5 Month(s) 3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Pinscher of 5 years old and 3 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on a date not specified (30 May 2018 – estimated date) for flea treatment. The owner believed that FL was not working because the dog was still presenting live fleas, so, was administered a fractionated dose of FRONTLINE SPOT-ON M (005/16, exp date unknown, topical, btw the shoulder blades), applied by the DVM, on 27 Jun 2018. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL was administered in the past. The environment has been treated with K-Othrine®. Similar case reported on 18BR007556. No further information is available.
20-Nov-2018	UAE; 18BR007556; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2.500 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL SPOT ON DOG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	20-Nov-2018*	5 Month(s) 3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Diva, a female Pinscher of 3 years old and 2,5 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on a date not specified (30 May 2018 – estimated date) for flea treatment. The owner believed that FL was not working because the dog was still presenting live fleas, so, was administered a fractionated dose of FRONTLINE SPOT-ON DOGS M (005/16, exp date unknown, topical, btw the shoulder blades), applied by the DVM, on 27 Jun 2018. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL was administered in the past. The environment has been treated with K-Othrine®. Similar case reported on 18BR007555. No further information is available.
22-Nov-2018	UAE; 18BR007557; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	21-Nov-2018	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pingo, a male crossbred cat of 3 months old and 2 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 30 Oct 2018 for flea treatment. She believes that FL is not working because she found 2 fleas on her pet on 21 Nov 2018. The environment has not been treated. No further information is available.
19-Nov-2018	UAE; 18BR007559; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown	N/A	18-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the owner, 2 cats of unknown signalment received FRONTLINE SPOT-ON CATS (FL) (lot, exp date, route and location are unknown), applied by the reporter 2 days ago (17 Nov 2018) for an unknown reason. On 18 Nov 2018, the animals presented with hipersalivation and vomiting (it is unknown how many episodes). It is unknown if these symptoms persist and whether the animals were taken to the vet. It is also not known if FL has been administered in the past and if the animals have any history of adverse reactions. This is the extent of the information available for now.

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						to Company					
20-Nov-2018	UAE; 18BR007562; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2016*	20-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Melina, a female Lhasa Apso of 7 years old and 7 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 8 days ago (12 Nov 2018) for flea prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. FL has been administered in the past (dose frequency unknown) and the first administration date was not provided (10 Jan 2016 – chosen at random). The environment has not been treated. There is a concomitant patient (1 dog) that has been simultaneously treated with FL. Similar case reported on 18BR007563. No further information is available.
20-Nov-2018	UAE; 18BR007563; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jan-2016*	20-Nov-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female Lhasa Apso of 4 years old and 6 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 8 days ago (12 Nov 2018) for flea prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. FL has been administered in the past (dose frequency unknown) and the first administration date was not provided (10 Jan 2016 – chosen at random). The environment has not been treated. There is a concomitant patient (1 dog) that has been simultaneously treated with FL. Similar case reported on 18BR007562. No further information is available.
21-Nov-2018	UAE; 18BR007579; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018*	20-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of dogs of unknown signalment received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, whole body) for the first time, administered by the reporter on date not informed (15 Oct 2018 - chosen at random) for flea and tick prevention. She believes that FL is not working because she started to see live ticks on her pets. Another application of FL was made on date not informed (15 Nov 2018 - chosen at random). Her pets remain with ticks. This is the extent of the information available.
22-Nov-2018	UAE; 18BR007580; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Oct-2018	10-Nov-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maila, a female crossbred dog of 5 years old and 3 kg received FRONTLINE SPRAY 250 ML (014/15, Nov 2018, topical, applied only btw the shoulder blades), administered by the reporter on 1 Oct 2018 (first administration) for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so another dose was applied on 1 Nov 2018. Lack of efficacy was suspected again because the dog remained with live fleas, so, approximately one week after, a product from another company (Neopet®) was administered and, currently, according to the reporter, the animal is not presenting ectoparasites. Flea infestation was seen 7 days prior to FL application. The environment has not been treated. There are concomitant patients of the same household that were simultaneously treated with FL. Similar cases reported on 18BR007525, 18BR007584, 18BR007586 and 18BR007587. No further information is available.

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22-Nov-2018	UAE; 18BR007584; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Oct-2018	22-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner, Mari, a female Domestic Shorthair cat (crossbred) of an unknown age and 2 kg received FRONTLINE SPRAY 250 ML (014/15, Nov 2018, topical, applied only btw the shoulders), administered by the reporter on 1 Oct 2018 (first administration) for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so another dose was applied on 1 Nov 2018. Lack of efficacy is suspected because the cat remains with live fleas. Flea infestation was seen 7 days prior to FL application. The environment has not been treated. There are concomitant patients of the same household that were simultaneously treated with FL. Similar cases reported on 18BR007525, 18BR007580, 18BR007586 and 18BR007587. No further information is available. UPDATE 26 NOV 2018 - According to the owner, on 23 Nov 2018, FL SPRAY was applied all over the cat's body and the pet had an adverse reaction (See case 18BR007647). One dog also presented an adverse reaction (see case 18BR007646). No further information is known.
22-Nov-2018	UAE; 18BR007586; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Oct-2018	22-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner, Mario, a male Domestic Shorthair cat (crossbred) of an unknown age and 3 kg received FRONTLINE SPRAY 250 ML (014/15, Nov 2018, topical, applied only btw the shoulders), administered by the reporter on 1 Oct 2018 (first administration) for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so another dose was applied on 1 Nov 2018. Lack of efficacy is suspected because the cat remains with live fleas. Flea infestation was seen 7 days prior to FL application. The environment has not been treated. There are concomitant patients of the same household that were simultaneously treated with FL. Similar cases reported on 18BR007525, 18BR007580, 18BR007584 and 18BR007587. No further information is available.
22-Nov-2018	UAE; 18BR007587; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3.2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Oct-2018	22-Nov-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the owner, Lala, a female Domestic Shorthair cat (crossbred) of an unknown age and 3.2 kg received FRONTLINE SPRAY 250 ML (014/15, Nov 2018, topical, applied only btw the shoulders), administered by the reporter on 1 Oct 2018 (first administration) for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so another dose was applied on 1 Nov 2018. Lack of efficacy is suspected because the cat remains with live fleas. Flea infestation was seen 7 days prior to FL application. The environment has not been treated. There are concomitant patients of the same household that were simultaneously treated with FL. Similar cases reported on 18BR007525, 18BR007580, 18BR007584 and 18BR007586. No further information is available.
23-Nov-2018	UAE; 18BR007591; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Jan-2017*	23-Nov-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cristal, a female Shih Tzu of 6 years old and 3.7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 5 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). No further information is expected.

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						product used ok?: Yes					
22-Nov-2018	UAE; 18BR007594; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-May-2018*	22-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tutty, a female Pomeranian of 9 months old and 4 kg, received FRONTLINE PLUS DOGS S (FL) (011/18A, exp date unknown, topical, btw the shoulder blades), applied by the reporter 10 days ago (12 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. Flea infestation was seen 4 days prior to FL application. FL has been administered in the past (dose frequency unknown) and the first application date was not provided (5 May 2018 – chosen at random). The environment has been treated with K-Othrine® two times a week. There is a concomitant patient of the same household that was simultaneously treated with FL. Similar case reported on 18BR007595. No further information is available.
22-Nov-2018	UAE; 18BR007595; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jan-2016*	22-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Scoth, a male Lhasa Apso of 8 years old and 7 kg, received FRONTLINE PLUS DOGS S (FL) (011/18A, exp date unknown, topical, btw the shoulder blades), applied by the reporter 10 days ago (12 Nov 2018) for flea treatment. The owner believes that FL is not working because her dog still has live fleas. Flea infestation was seen 4 days prior to FL application. FL has been administered in the past (dose frequency unknown) and the first application date was not provided (5 Jan 2016 – chosen at random). The environment has been treated with K-Othrine® two times a week. There is a concomitant patient of the same household that was simultaneously treated with FL. Similar case reported on 18BR007594. No further information is available.
23-Nov-2018	UAE; 18BR007596; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	15-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alemoa, a female medium crossbred dog of 14 years old and 12 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (8 Nov 2018 - estimated date) for flea treatment. She believes that FL is not working because she started to see fleas on her pet again a few days after application. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
23-Nov-2018	UAE; 18BR007599; RJ; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Jun-2017*	23-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leona, a female crossbred dog of 2 years old and 20 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 20 days ago (3 Nov 2018) for flea and tick prevention. Lack of efficacy is suspected because the owner visualizes live ticks on the pet. FL has been administered in the past (dose frequency every 30 days) and the first administration date was not provided (23 Jun 2017 – chosen at random). The environment has been treated with Butox®. No further information is available.
22-Nov-2018	UAE; 18BR007608;	**Species:** Canine **Breed:** Pit Bull	1	1	0	**Product used:** FIPRONIL SPOT	N/A	17-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, Dutch, a neutered male Pit Bull of 3 years old and

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	PR; Brazil	**Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 35 kg				ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					35 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, application site unknown), administered by a pet shop staff member on 16 Nov 2018 for flea treatment. The owner believes that FL was not working because he continues to see fleas on his pet. It is unknown if FL was used in the past. This dog has outdoor access. The environment has not been treated. No further information is available.
23-Nov-2018	UAE; 18BR007611; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 250 gms	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-C	Suspected Lack of Efficacy Claim: As reported by the retail outlet staff member, one female mixed breed cat of 2 months old and 250 g, was treated with FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by an unknown person on date not specified (1 Nov 2018 - chosen at random). After product application, the pet presented with 'intoxication' (malaise - details not provided). The current status of the animal is unknown. PQC reported on 18BR007614. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007621; SP; Brazil	**Species:** Canine **Breed:** Doberman **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 28 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male Doberman of 4 years old and 28 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR007622 to 18BR007624. The environment has been treated with unknown product. No further information is available.
26-Nov-2018	UAE; 18BR007622; SP; Brazil	**Species:** Canine **Breed:** Doberman **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zeus, a male Doberman of 6 years old and 27 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR007621, 18BR007623 and 18BR007624. The environment has been treated with unknown product. No further information is available.
26-Nov-2018	UAE; 18BR007623; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Atena, a female French Bulldog of 2 years old and 13 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR007621, 18BR007622 and 18BR007624. The environment has been treated with unknown product. No further information is available.

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26-Nov-2018	UAE; 18BR007624; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Iris, a female French Bulldog of 10 years old and 10 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR007621 to 18BR007623. The environment has been treated with unknown product. No further information is available.
26-Nov-2018	UAE; 18BR007626; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	24-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Liluque, a female crossbred dog of 13 years old and 19 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 14 Nov 2018 (first administration) for flea and tick prevention. The owner believes that FL is not working because she visualizes live fleas on her pet. The environment has not been treated. No further information is available.
23-Nov-2018	UAE; 18BR007627; -; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	23-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Poodle of unknown signalment received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (20 Nov 2018 – chosen at random) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. This is the extent of the information available. UPDATE 29 NOV 2018 - NEXGARD was administered to the pet and it is current free of fleas. No further information is expected.
24-Nov-2018	UAE; 18BR007631; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jan-2017*	04-Nov-2018	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Vida, a male Poodle of 13 years old and approximately 7 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 1 Nov 2018 for flea and tick treatment. The owner believed that FL was not working because her dog was still presenting live fleas and ticks, so a tablet of NEXGARD (NG) (unsubstantiated) was administered on unknown date and, according to the reporter, the animal does not present ectoparasites anymore (25 Nov 2018 choose randonly). Flea and tick infestation was seen 1 day prior to FL application. FL has been administered in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jan 2017 – chosen at random). The environment has not been treated. There are concomitant patients (2 dogs) of the same household that were simultaneously treated with FL. Similar case reported on 18BR007632 and 18BR007633. No further information is available.
24-Nov-2018	UAE; 18BR007632; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	05-Jan-2017*	04-Nov-2018	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toquinho, a male Pinscher of 10 years old and 5 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 1 Nov 2018 for flea and tick treatment. The owner believed that FL was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg*				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					not working because her dog was still presenting live fleas and ticks, so a tablet of NEXGARD (NG) (unsubstantiated) was administered on unknown date and, according to the reporter, the animal does not present ectoparasites anymore (25 Nov 2018 choose randonly). Flea and tick infestation was seen 1 day prior to FL application. FL has been administered in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jan 2017 – chosen at random). The environment has not been treated. There are concomitant patients (2 dogs) of the same household that were simultaneously treated with FL. Similar case reported on 18BR007631 and 18BR007633. No further information is available.
24-Nov-2018	UAE; 18BR007633; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.000 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jan-2017*	04-Nov-2018	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tancinha, a female crossbred dog of 4 years old and 4 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on 1 Nov 2018 for flea and tick treatment. The owner believed that FL was not working because her dog was still presenting live fleas and ticks, so a tablet of NEXGARD (NG) (unsubstantiated) was administered on unknown date and, according to the reporter, the animal does not present ectoparasites anymore (25 Nov 2018 choose randonly). Flea and tick infestation was seen 1 day prior to FL application. FL has been administered in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jan 2017 – chosen at random). The environment has not been treated. There are concomitant patients (2 dogs) of the same household that were simultaneously treated with FL. Similar case reported on 18BR007631 and 18BR007632. No further information is available.
23-Nov-2018	UAE; 18BR007634; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	23-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Nov 2018 – chosen at random). She believes that FL is not working because her pet has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007635. This is the extent of the information available.
23-Nov-2018	UAE; 18BR007635; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	23-Nov-2018*	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one cat of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Nov 2018 – chosen at random). She believes that FL is not working because her pet has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007634. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007638; -; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	26-Sep-2018*	20-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gata, a female Domestic Shorthair cat (crossbred) of 6 years old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (005/17, Jun 2019, topical, btw the shoulder blades), applied by the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					reporter approximately on 26 Sep 2018 (estimated date; first administration) for flea treatment. The owner believed that FL was not working because her cat was still presenting live fleas, so another dose of the product was applied approximately 1 month later, on 26 Oct 2018 (estimated date). Flea infestation was seen around 1 week prior to FL application. The environment has been treated with an unknown product. No further information is expected.
19-Nov-2018	UAE; 18BR007639; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2016*	19-Nov-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luck, a male mixed breed cat of 6 years old and 6 kg, was treated with one vial of FRONTLINE PLUS CATS (lot and exp date are unknown, topical, neck), applied by the reporter around 16 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL has been applied every 6 months (first application was not provided - 1 Jan 2016 chosen at random). Similar case reported on 18BR007502. No further information is expected.
26-Nov-2018	UAE; 18BR007640; PR; Brazil	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 21 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2006*	15-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Diebe, a male Cocker of 13 years old and 21 kg, received FRONTLINE SPOT-ON DOGS L (FL) (010/17, exp date 28 Feb 2019, topical, btw the shoulder blades), administered by a family member on date not specified (23 Oct 2018 - estimated date) for tick treatment. Another application was made on 23 Nov 2018. She believes that FL is not working because she continues to see ticks on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2006 chosen at random). This dog has outdoor access. The environment has not been treated. No further information is available.
23-Nov-2018	UAE; 18BR007646; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	23-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner via e-mail, Bob, a male small crossbred dog of 3 months old and 3.5 kg, was treated with FRONTLINE SPRAY (FL) (01415, Nov 2018, topical, whole body), applied by the reporter on 23 Nov 2018. Soon after product application, the owner noticed that the dog was 'perturbed' and recovered by himself. SLOE cases reported on 18BR007525, 18BR007580, 18BR007584, 18BR007586 and 18BR007587. One cat also presented an adverse reaction (See case 18BR007647). No further information is available.
23-Nov-2018	UAE; 18BR007647; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products	01-Oct-2018	23-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner via e-mail, Mari, a female mixed breed cat of 2 kg and unknown age, was treated with FRONTLINE SPRAY (FL) (014/15, Nov 2018, topical, whole body), applied by the reporter on 23 Nov 2018. Soon after product application, Mari started licking at application site. The current status of the animal is unknown. SLOE cases reported on

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** - **Weight:** 2 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					18BR007525, 18BR007580, 18BR007584, 18BR007586 and 18BR007587. One dog also presented an adverse reaction (See case 18BR007646). No further information is available.
26-Nov-2018	UAE; 18BR007657; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maria, a female, mixed breed cat of 4 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one month ago (26 Oct 2018), for flea control. Lack of efficacy is suspected because fleas were found on her pet . Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random) Similar case reported on 18BR007658. No further information is expected.
26-Nov-2018	UAE; 18BR007658; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	26-Nov-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tuca, a female, small crossbred dog of 18 months old and 2 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter one month ago (26 Oct 2018), for flea control. Lack of efficacy is suspected because fleas were found on her pet. Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR007657. No further information is expected.
25-Nov-2018	UAE; 18BR007661; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	25-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female cat (other signalment is unknown) was treated with one vial of FRONTLINE PLUS (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 18 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
27-Nov-2018	UAE; 18BR007664; SP; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	28-Oct-2018*	27-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Scoob, a male Dachshund of 8 years old and 9 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 27 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. The pet has outdoor access. FL was applied for the first time around 28 Oct 2018. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
27-Nov-2018	UAE; 18BR007673; BA; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	23-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luck, a male Shih Tzu of 4 years old and 7 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, whole body), administered by the reporter on 12 Nov 2018 for flea treatment. Another application of FL was made on 23 Nov 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Luck received another brand's product on 26 Nov 2018. This dog does not have outdoor access. There are 2 untreated dogs with no fleas living in this household. The environment has been treated with Barrage®. No further information is available.
27-Nov-2018	UAE; 18BR007681; RS; Brazil	**Species:** Canine **Breed:** Great Dane **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 48 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chiva, a female Great Dane of 4 years old and 48 kg, was treated with one vial of FRONTLINE PLUS DOG XL (FL) (011/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007682, 18BR007683 and 18BR007684. No further information is expected.
27-Nov-2018	UAE; 18BR007682; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Godi, a male medium crossbred dog of 17 years old and 10 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (019/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007681, 18BR007683 and 18BR007684. No further information is expected.
27-Nov-2018	UAE; 18BR007683; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2018*	27-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Guinazu, a male medium crossbred dog of 10 years old and 10 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (019/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007681, 18BR007682 and 18BR007684. No further information is expected.

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						ok?: Yes					
27-Nov-2018	UAE; 18BR007684; RS; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Izabela, a female Dachshund of 7 years old and 10 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (019/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007681, 18BR007682 and 18BR007683. No further information is expected.
27-Nov-2018	UAE; 18BR007688; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	25-Oct-2018*	26-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Anitta, a female crossbred cat of 2 years old and 3 kg, received FRONTLINE SPRAY (FL) (015/16, exp date unknown, topical, whole body) for the first time, administered by the reporter on date not specified (25 Oct 2018 - estimated date) for flea treatment. 2 other applications of FL were made on 10 Nov 2018 (estimated date) and 25 Nov 2018. The owner believes that FL is not working because he continues to see fleas on his pet. Similar cases reported on 18BR007689 to 18BR007691. The environment has been treated with Decaplus®. No further information is available.
27-Nov-2018	UAE; 18BR007689; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	25-Oct-2018*	26-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Atena, a female crossbred cat of 4 months old, received FRONTLINE SPRAY (FL) (015/16, exp date unknown, topical, whole body) for the first time, administered by the reporter on date not specified (25 Oct 2018 - estimated date) for flea treatment. 2 other applications of FL were made on 10 Nov 2018 (estimated date) and 25 Nov 2018. The owner believes that FL is not working because he continues to see fleas on his pet. Similar cases reported on 18BR007688, 18BR007690 and 18BR007691. The environment has been treated with Decaplus®. No further information is available.
27-Nov-2018	UAE; 18BR007690; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No	25-Oct-2018*	26-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cloe, a female crossbred cat of 4 months old, received FRONTLINE SPRAY (FL) (015/16, exp date unknown, topical, whole body) for the first time, administered by the reporter on date not specified (25 Oct 2018 - estimated date) for flea treatment. 2 other applications of FL were made on 10 Nov 2018 (estimated date) and 25 Nov 2018. The owner believes that FL is not working because he continues to see fleas on his pet. Similar cases reported on 18BR007688, 18BR007689 and 18BR007691. The environment has been treated with Decaplus®. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						(Treatment / vaccination program not respected)					
27-Nov-2018	UAE; 18BR007691; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	25-Oct-2018*	26-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fergos, a male crossbred cat of 4 months old, received FRONTLINE SPRAY (FL) (015/16, exp date unknown, topical, whole body) for the first time, administered by the reporter on date not specified (25 Oct 2018 - estimated date) for flea treatment. 2 other applications of FL were made on 10 Nov 2018 (estimated date) and 25 Nov 2018. The owner believes that FL is not working because he continues to see fleas on his pet. Similar cases reported on 18BR007688 to 18BR007690. The environment has been treated with Decaplus®. No further information is available.
27-Nov-2018	UAE; 18BR007692; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	27-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Milk, a male mixed breed cat of 1 year old and 4.6 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (001/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 25 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. It is unknown if FL has previously been applied. No further information is expected.
25-Nov-2018	UAE; 18BR007693; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Mar-2017*	25-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a Lhasa Apso of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown), applied by the reporter 14 days ago (11 Nov 2018) for flea and tick treatment. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. It is unknown if FL has been administered in the past and if the environment has been treated. There is 1 concomitant patient (1 dog) of the same household that was simultaneously treated with FL. Similar case reported on 18BR007694. This is the extent of information available for now. UPDATE 30 Nov 2018 – Lipe, a Lhasa Apso of 11 years old and 7 kg received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades). Lack of efficacy is suspected because the animal remains with live fleas . FL has been administered in the past with no issue (dose frequency every 3 months) and the first application date was not provided (16 Mar 2017 – chosen at random). The environment has not been treated. Similar case reported on 18BR007694. No further information is expected.
25-Nov-2018	UAE; 18BR007694; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	16-Mar-2017*	25-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a Yorkshire Terrier of unknown signalment received FRONTLINE (FL) (unsubstantiated; lot, exp date, route and location are unknown), applied by the reporter on 11 Nov 2018 for

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 2.00 Year(s) **Weight:** 7 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					flea and tick treatment. Lack of efficacy is suspected because the owner visualized live ticks on the pet. It is unknown if FL has been administered in the past and if the environment has been treated. There is 1 concomitant patient (1 dog) of the same household that was simultaneously treated with FL. Similar case reported on 18BR007693. This is the extent of information available for now. UPDATE 30 Nov 2018 – Nina, a Yorkshire Terrier of 2 years old and 7 kg received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades). Lack of efficacy is suspected because the animal remains with live fleas and ticks. FL has been administered in the past with no issue (dose frequency every 3 months) and the first application date was not provided (16 Mar 2017 – chosen at random). The environment has not been treated. Similar case reported on 18BR007693. No further information is expected.
26-Nov-2018	UAE; 18BR007701; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	27-May-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Guga, a male large crossbred dog of 10 years old and 40 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (26 May 2018 – estimated date) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. It is unknown if FL was used in the past. There is a cat that was treated with FRONTLINE PLUS DOG S and presented an adverse reaction living in this household. Related cases reported on 18BR007698 to 18BR007700 and 18BR007702 to 18BR007707. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007702; RS; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	27-May-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alemão, a male large crossbred dog of 3 years old and 40 kg, received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (26 May 2018 – estimated date) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. It is unknown if FL was used in the past. There is a cat that was treated with FRONTLINE PLUS DOG S and presented an adverse reaction living in this household. Related cases reported on 18BR007698 to 18BR007701 and 18BR007703 to 18BR007707. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007703; RS; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	27-May-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Spike, a male medium crossbred dog of 7 years old and 15 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (26 May 2018 – estimated date) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. It is unknown if FL was used in the past. There is a cat that was treated with FRONTLINE PLUS DOG S and presented an adverse reaction living in this household. Related cases reported on 18BR007698 to 18BR007702 and 18BR007704 to 18BR007707. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007707; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	26-May-2018*	26-May-2018*	0 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Mila, a female crossbred cat of 6 years old and 4 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by

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		Sex: F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)					the reporter on date not specified (26 May 2018 – estimated date) for flea treatment. 4 to 5 hours after product administration the animal experienced ataxia. She was brought to the veterinarian and recovered on the same day. Related cases reported on 18BR007698 to 18BR007706. No further information is available.
26-Nov-2018	UAE; 18BR007708; RS; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	26-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random). The owner believes that FL is not working. Similar case reported on 18BR007709. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007709; RS; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	26-Nov-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random). The owner believes that FL is not working. Similar case reported on 18BR007708. This is the extent of the information available.
28-Nov-2018	UAE; 18BR007710; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 1.60 Year(s) **Weight:** 3.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Nov-2018	28-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lipe, a male Siamese cat of 1 year and 6 months old and 3.3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter 7 days ago (21 Nov 2018; first administration) for flea treatment. Lack of efficacy is suspected because the owner still visualizes live fleas on the pet. Flea infestation was seen 15 days prior to FL application. The environment has not been treated. No further information is expected.
27-Nov-2018	UAE; 18BR007714; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown	6	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jan-2018*	27-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alice, a female Yorkshire of 3 years old and 1.5 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 3.00 Year(s) **Weight:** 1.5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007715. There are 5 other dogs treated with FL with no fleas living in this household. The environment has not been treated. No further information is available.
27-Nov-2018	UAE; 18BR007715; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	27-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Melissa, a female Yorkshire of 4 years old and 1.5 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Nov 2018 for flea treatment. He believes that FL is not working because he continues to see fleas on his pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007714. There are 5 other dogs treated with FL with no fleas living in this household. The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007719; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 1.7 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Jun-2013*	28-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Junior, a male Yorkshire Terrier of 8 years old and 1.7 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, only on the back), applied by the reporter on 28 Sep 2018 for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so he has been applying weekly doses of the product since. The last application estimated date is 26 Nov 2018 (topical, only on the back) and, according to the owner, the dog remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past with no issue (1 Jun 2013 – chosen at random) and the dose frequency before 28 Sep 2018 is unknown. There is a concomitant patient (1 dog) of the same household that was simultaneously treated with FL. The environment has been treated with K-Othrine®. Similar case reported on 18BR007720. No further information is expected.
28-Nov-2018	UAE; 18BR007720; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Jun-2017*	28-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sandy, a female Yorkshire Terrier of 2 years old and 2 kg, received FRONTLINE SPRAY 250 ml (FL) (015/16, Nov 2018, topical, only on the back), applied by the reporter on 28 Sep 2018 for flea treatment. The owner believed that FL was not working because the pet was still presenting live fleas, so he has been applying weekly doses of the product since. The last application estimated date is 26 Nov 2018 (topical, only on the back) and, according to the owner, the dog remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been applied in the past with no issue (1 Jun 2017 – chosen at random) and the dose frequency before 28 Sep 2018 is unknown. There is a concomitant patient (1 dog) of the same household that was simultaneously treated with FL. The environment has been treated with K-Othrine®. Similar case reported on 18BR007719. No further information is expected.
28-Nov-2018	UAE; 18BR007721; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2018*	28-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female mixed breed cat of 2 years old and 3.2 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (008/17,

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		breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.2 kg				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). Similar cases reported on 18BR007722 and 18BR007723. No further information is expected.
28-Nov-2018	UAE; 18BR007722; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	28-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fifa, a female small crossbred dog of 4 years old and 3.9 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (008/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2018 - chosen at random). Similar cases reported on 18BR007721 and 18BR007723. No further information is expected.
28-Nov-2018	UAE; 18BR007723; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Nov-2018	28-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zoe, a female mixed breed cat of 3 months old and 1 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (008/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR007721 and 18BR007722. No further information is expected.
28-Nov-2018	UAE; 18BR007724; SC; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	28-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mega, a female Pit Bull of 9 years old and 23 kg, was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 23 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied last year (1 Jul 2018 - chosen at random). Similar cases reported on 18BR007725 and 18BR007727. No further information is expected.
28-Nov-2018	UAE; 18BR007725; SC; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Jul-2018*	28-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ady, a female Lhasa Apso 12 years old and 5 kg, was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 23 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL

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		Age: 12.00 Year(s) **Weight:** 5 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					was applied last year (1 Jul 2018 - chosen at random). Similar cases reported on 18BR007724 and 18BR007727. No further information is expected.
28-Nov-2018	UAE; 18BR007727; SC; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	28-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nizzu, a female Shih Tzu of 10 years old and 5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 23 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied last year (1 Jul 2018 - chosen at random). Similar cases reported on 18BR007724 and 18BR007725. No further information is expected.
27-Nov-2018	UAE; 18BR007734; PR; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Nov-2017*	27-Nov-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thomas, a male Domestic Shorthair cat (crossbred) of 3 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter approximately on 17 Nov 2018 (estimated date) for flea treatment. Lack of efficacy is suspected because the owner still visualizes live fleas on her pet. Flea infestation was seen 14 days prior to FL application. FL has been administered in the past with no issue (dose frequency every 30 days) and the first application date was not provided (17 Nov 2017 – chosen at random). The environment has not been treated. Similar case reported on 18BR007735. No further information is available.
28-Nov-2018	UAE; 18BR007738; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	28-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Shih Tzu of 9 years old and 7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 21 Nov 2018, for flea control. Lack of efficacy is suspected because the pet has fleas. Environment treated with Butox®. The pet has no outdoor access. It is unknown if FL has previously been applied. No further information is expected.
25-Nov-2018	UAE; 18BR007739; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	N/A	25-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a Pomeranian of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, topical, btw the shoulder blades) (FL), applied by the reporter on 11 Nov 2018, for flea treatment. Lack of efficacy is suspected because the dog remains with live fleas. It's unknown if FL has been applied in the past and if the environment has been treated. This is the extent of information available for now. UPDATE 29 Nov 2018 - The pet owner informed that Goku, a male Pomeranian of 4.5 kg, received

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					FRONTLINE SPOT-ON DOGS S (lot and exp date unknown, topical, btw the shoulder blades) on 14 Nov 2018. This dog has outdoor access. The environment has not been treated. No further information is expected.
28-Nov-2018	UAE; 18BR007748; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Oct-2018	13-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Katita, a female Shih Tzu of 12 years old and 6 kg, received FRONTLINE SPOT-ON DOGS S (FL) (004/17, exp date 31 Dec 2018, topical, btw the shoulder blades), administered by the reporter on 11 Nov 2018 for flea prevention. He believes that FL is not working because he started to see fleas on his pet after last application. FL was used for the first time on 11 Oct 2018 with no issue. The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007751; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 11.000 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	28-Nov-2018*	5 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female medium crossbred dog of 9 months old and around 10 to 12 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 20 Oct 2018 (estimated date), for flea treatment. Lack of efficcay is suspected because fleas were found on her pet. Environment not treated. SLOE case reported on 18BR007752. There is an untreated dog in this household. No further information is expected.
27-Nov-2018	UAE; 18BR007752; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	28-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinha, a female medium crossbred dog of 9 months old and around 10 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 20 Oct 2018 (estimated date), for flea treatment. Lack of efficcay is suspected because fleas were found on her pet. Environment not treated. SLOE case reported on 18BR007751. There is an untreated dog in this household. No further information is expected. UPDATE 29 Nov 2018 – According to the owner, the pet still presents live fleas and the environment remains not treated. No further information is expected.
29-Nov-2018	UAE; 18BR007767; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), administered by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
26-Nov-2018	UAE; 18BR007769; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F	1	1	0	**Product used:** FIPRONIL SPOT ON DOG	01-Jan-2018*	20-Oct-2018	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Liz, a female Pug of 1 year old and 6 kg, received FRONTLINE SPOT-ON DOGS S (FL) (009/17, exp date 31 Dec 2018, topical,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					btw the shoulder blades), administered by the reporter on 15 Oct 2018 for flea and tick prevention. She believes that FL is not working because she found 3 fleas on her pet 5 days after product application. No more fleas were visualized after 20 Oct 2018. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. Related cases reported on 18BR007770 to 18BR007772. The environment has not been treated. No further information is available.
26-Nov-2018	UAE; 18BR007770; SP; Brazil	**Species:** Canine **Breed:** Beagle **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	20-Oct-2018	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maru, a male Beagle of 4 years old and 10 kg, received FRONTLINE SPOT-ON DOGS S (FL) (009/17, exp date 31 Dec 2018, topical, btw the shoulder blades), administered by the reporter on 15 Oct 2018 for flea and tick prevention. She believes that FL is not working because she found 2 fleas on her pet 5 days after product application. No more fleas were visualized after 20 Oct 2018. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. Related cases reported on 18BR007769, 18BR007771 and 18BR007772. The environment has not been treated. No further information is available.
26-Nov-2018	UAE; 18BR007771; SP; Brazil	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	23-Oct-2018	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Liz, a female Pug of 1 year old and 6 kg, received FRONTLINE SPOT-ON DOGS S (FL) (009/17, exp date 31 Dec 2018, topical, btw the shoulder blades), administered by the reporter on 15 Oct 2018 for flea and tick prevention. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). 8 days after product administration the animal presented skin lesions, erythema and hair loss at the application site region. 2 fleas were visualized on the pet on 20 Oct 2018. Liz has been treated with Peroxyl®, Prediderm® and Dermotrat® by the attending veterinarian, which believes that the signals could be related to the product or to flea allergy dermatitis. Signals are still ongoing. Related cases reported on 18BR007769, 18BR007770 and 18BR007772. No further information is available. UPDATE 3 Dec 2018 - The attending veterinarian informed that Liz presented hair loss at the left shoulder blade, not at the application site. She also presented skin erythematous at the ventral region and thighs and generalized itching, which he suspects that could be related to grass allergy. He prescribed prednisone and Cloresten®. No further information is expected. UPDATE 10 Dec 2018 - The pet owner informed that Liz is still under treatment with cephalexin 250 mg and Dermotrat®. Signals have increased. No further information is available. UPDATE 12 Dec 2018 - The owner informed that her pet is still under treatment and the signals are still ongoing. No further information is available. UPDATE 26 Dec 2018 - The pet owner informed that Liz is still under treatment with Cloresten®, cephalexin and Dermotrat®, and has developed pyoderma. No further information is available. UPDATE 28 Dec 2018 – The pet owner informed that Liz is showing a worsening of the cutaneous lesions. The pet remains under treatment with cephalexin, Cloresten® and corticosteroid. No further
29-Nov-2018	UAE; 18BR007773;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	02-Nov-2018	29-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cosmos, a male mixed breed cat of 3 years old and 5 kg, was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	RS; Brazil	mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg				SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					treated with FRONTLINE SPRAY (FL) (015/16, unknown exp date, topical, whole body), applied by the reporter on 2 Nov 2018, 12 Nov 2018 and 23 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar case reported on 18BR007774. No further information is expected.
29-Nov-2018	UAE; 18BR007774; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	02-Nov-2018	29-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hanna, a female mixed breed cat of 10 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (015/16, unknown exp date, topical, whole body), applied by the reporter on 2 Nov 2018, 12 Nov 2018 and 23 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar case reported on 18BR007773. No further information is expected.
28-Nov-2018	UAE; 18BR007775; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Nov-2018*	06-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tico, a male Pinscher of 1 year old and 2 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck, paws and belly), administered by the reporter on dates not specified (5 Nov 2018, 12 Nov 2018, 19 Nov 2018 and 26 Nov 2018 - estimated dates) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR007776 to 18BR007778. The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007776; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	05-Nov-2018*	06-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teca, a female Pinscher of 1 year old and 2 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck, paws and belly), administered by the reporter on dates not specified (5 Nov 2018, 12 Nov 2018, 19 Nov 2018 and 26 Nov 2018 - estimated dates) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR007775, 18BR007777 and 18BR007778. The environment has not been treated. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						program not respected)					
28-Nov-2018	UAE; 18BR007777; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Nov-2018*	06-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bebe, a male crossbred cat of 10 years old and 10 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck, paws and belly), administered by the reporter on dates not specified (5 Nov 2018, 12 Nov 2018, 19 Nov 2018 and 26 Nov 2018 - estimated dates) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR007775, 18BR007776 and 18BR007778. The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007778; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Nov-2018*	06-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Neguinha, a female crossbred cat of 1 year old and 6 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck, paws and belly), administered by the reporter on dates not specified (5 Nov 2018, 12 Nov 2018, 19 Nov 2018 and 26 Nov 2018 - estimated dates) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR007775 to 18BR007777. The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007782; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jul-2018*	28-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two cats of unknown signalment were treated with FRONTINE PLUS (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. FL was applied in the past with the same issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is available. UPDATE 4 DEC 2018 - Sininho, a female mixed breed cat of 4 years old and 4 kg, received one vial of FRONTLINE PLUS CATS (FL), topical, neck, applied by the reporter on 24 Nov 2018, for flea treatment. The owner continues to see fleas on her pet. Environment treated with deltamethrin. FL was applied on Jul 2018, Oct 2018 and Nov 208 with the same issue. Similar case reported on 18BR007877. No further information is expected.
26-Nov-2018	UAE; 18BR007789; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products	N/A	22-Nov-2018	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a feline of unknown signalment received FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown) (FL), applied by an unknown person on a date not specified (15 Nov 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the owner visualizes live fleas on his pet. It

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		Unknown **Age:** 11.00 Year(s) **Weight:** 9 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					is unknown if FL has been applied in the past and if the environment has been treated. This is the extent of information available for now. UPDATE 30 Nov 2018 - The pet owner informed that Pablito, a male crossbred cat of 11 years old and 9 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter. Lack of efficacy is suspected because the owner started to see fleas on his pet again one week after product application. There are 3 untreated cats with no fleas living in this household. The environment has been treated with Scorpmax® and K-Othrine®. No further information is available.
29-Nov-2018	UAE; 18BR007790; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet onwer, one female dog of unknown signalment was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (unknown lot, Dec 2018, route and location are unknown), applied by the reporter on 22 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching itself due to fleas. This is the extent of the information available.
30-Nov-2018	UAE; 18BR007798; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	30-Nov-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bob, a male Lhasa Apso of 6 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 17 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. Similar case reported on 18BR007799. The environment has been treated with Butox®. No further information is available.
30-Nov-2018	UAE; 18BR007799; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	30-Nov-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female Lhasa Apso of 4 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 17 Nov 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). This dog has outdoor access. Similar case reported on 18BR007798. The environment has been treated with Butox®. No further information is available.
30-Nov-2018	UAE; 18BR007800; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	01-Jan-2017*	11-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female mixed breed cat (other signalment is unknown) was treated with one vial of FRONTLINE PLUS CATS (FL) (004/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 28 Oct 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 6 months with no issue since

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		Age: - **Weight:** Unknown				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					date not specified (1 Jan 2017 - chosen at random). Similar case reported on 18BR007386. SAE case reported on 18BR007387. No further information is expected.
30-Nov-2018	UAE; 18BR007801; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	28-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Samanta, a female crossbred cat of 5 years old and approximately 4.5 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 12 Nov 2018 for flea treatment. Another application of FL was made on 28 Nov 2018. The owner is not sure if he applied the whole dose of FL correctly. Lack of efficacy is suspected because the pet still has fleas. Samanta has contact with other cats. The environment has been treated with Butox®. No further information is available.
30-Nov-2018	UAE; 18BR007803; SP; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	30-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Diamante, a male Labrador of 5 years old and 30 kg, received FRONTLINE PLUS DOG L (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 10 Nov 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. The environment has not been treated. No further information is available.
29-Nov-2018	UAE; 18BR007807; SE; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of 3 kg (other signalment) was treated with FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 9 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available.
29-Nov-2018	UAE; 18BR007810; -; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used**	N/A	29-Nov-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 Poodles of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Nov 2018 – chosen at random) for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. Similar cases reported on 18BR007811 and 18BR007812. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
29-Nov-2018	UAE; 18BR007811; -; Brazil	**Species:** Canine **Breed:** St. Bernard **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one St. Bernard of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Nov 2018 – chosen at random) for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. Similar cases reported on 18BR007810 and 18BR007812. This is the extent of the information available.
29-Nov-2018	UAE; 18BR007812; -; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female medium crossbred dog of unknown signalment received FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (1 Nov 2018 – chosen at random) for tick treatment. She believes that FL is not working because she continues to see live ticks on her pet. Similar cases reported on 18BR007810 and 18BR007811. This is the extent of the information available.
30-Nov-2018	UAE; 18BR007833; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	14-Oct-2018*	6 Week(s) 3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female cat of unknown signalment received FRONTLINE SPOT-ON CAT (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (30 Aug 2018 – estimated date) for flea treatment. FRONTLINE SPRAY (lot and exp date unknown, topical, whole body) was also applied on the cat on dates not specified (30 Sep 2018 and 30 Oct 2018 - estimated dates). The owner believes that FL is not working because she continues to see fleas on her pet. This is the extent of the information available. UPDATE 11 DEC 2018 - Penélope, a female small crossbred dog of 20 months old and 4 kg, was treated with FRONTLINE SPOT-ON CAT (FL) (lot, exp date, route and location are unknown), for flea treatment on an unknown date. Around 45 days later, the owner saw some fleas on her cat. So, she bought FL SPRAY, wich was applied by the reporter on 8 Nov 2018 and 8 Dec 2018. However, the pet remains with fleas. Environment treated with a specific product against fleas. No further information is expected.
03-Dec-2018	UAE; 18BR007835; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 3.3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	03-Jan-2016*	03-Dec-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maria Isabel, a female Domestic Shorthair cat (crossbred) of 13 years old and 3.3 kg, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, only on the back), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency every 30 days) and the first application date was not provided (3 Jan 2016 – chosen at random). The environment has been treated with K-Othrine®. There are concomitant patients (2 cats) of the same household that were also treated with FL. Similar cases reported on 18BR007836 and 18BR007837. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
03-Dec-2018	UAE; 18BR007836; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 4.1 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	03-Jan-2016*	03-Dec-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Augusto, a male Domestic Shorthair cat (crossbred) of 13 years old and 4.1 kg, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, only on the back), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency every 30 days) and the first application date was not provided (3 Jan 2016 – chosen at random). The environment has been treated with K-Othrine®. There are concomitant patients (2 cats) of the same household that were also treated with FL. Similar cases reported on 18BR007835 and 18BR007837. No further information is expected.
03-Dec-2018	UAE; 18BR007837; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 4.4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	03-Jan-2016*	03-Dec-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bartho, a male Domestic Shorthair cat (crossbred) of 11 years old and 4.4 kg, received FRONTLINE SPRAY 100 ml (FL) (003/17, exp date unknown, topical, only on the back), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency every 30 days) and the first application date was not provided (3 Jan 2016 – chosen at random). The environment has been treated with K-Othrine®. There are concomitant patients (2 cats) of the same household that were also treated with FL. Similar cases reported on 18BR007835 and 18BR007836. No further information is expected.
03-Dec-2018	UAE; 18BR007838; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	10-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Théo, a male Shih Tzu of 5 months old and 3 kg, received FRONTLINE SPRAY (FL) (004/17, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Oct 2018 for flea treatment. FL has been applied weekly on the pet (date of last application was not provided - 30 Nov 2018 - estimated date). Lack of efficacy is suspected because the pet still has fleas. The environment has been treated with Butox®. No further information is available.
03-Dec-2018	UAE; 18BR007839; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Nov-2018	03-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lola, a female medium crossbred dog of 11 months old and 15 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (024/17A, Nov 2019, topical, btw the shoulder blades), applied by the reporter on 5 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar case 18BR007840. No further information is expected.
03-Dec-2018	UAE; 18BR007840; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products	05-Nov-2018	03-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Totó, a male medium crossbred dog of 11 years old and 11 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (024/17A, Nov 2019, topical, btw the shoulder blades), applied by the reporter on 5 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas .

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 11.00 Year(s) **Weight:** 11 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Environment treated with an unknown product. Similar case 18BR007839. No further information is expected.
03-Dec-2018	UAE; 18BR007845; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	18-Mar-2018*	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Tica, a female crossbred dog of 9 years old and 25 kg received FRONTLINE SPOT-ON DOGS L (FL) (lot and exp date are unknown, topical, btw the shoulder blades and on the back), applied by the reporter on today's date (3 Dec 2018), for an unknown reason. Approximately 30 minutes after product administration, the dog presented with 'agitation', started to 'run all over the house' and 'rubbed herself on the couch and carpet'. No treatment was provided and the pet recovered on the same day after having a shower. According to the owner, the pet was in good health prior to FL administration, however, it has a history of adverse reaction (same issue) to the use of the product, which occurred on a date not specified (18 Mar 2018 – chosen at random). It is unknown if, before these two episodes of adverse reactions, FL has been used in the past (18 Mar 2018 – first application date chosen at random). No further information is available.
03-Dec-2018	UAE; 18BR007848; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female Shih Tzu of 6 months old and 2.5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 18 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching herself due to fleas. Environment not treated. It is unknown if FL has previously been applied. There is one more dog in this household that was treated with another product and it has no issue. No further information is expected.
03-Dec-2018	UAE; 18BR007849; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bob, a male medium crossbred dog of 11 months old and 11 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 15 Nov 2018 for tick treatment. Lack of efficacy is suspected because the pet still has ticks. It is unknown if FL was used in the past. This dog does not have outdoor access. The environment has been treated with unknown product. No further information is available.
03-Dec-2018	UAE; 18BR007850; PR; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s)	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	01-Jan-2017*	03-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bobi, a male Border Collie of 8 years old and 15 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 7 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL has been applied every 6

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		Weight: 15 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					months, but first application was not provided (1 Jan 2017 - chosen at random). There is one more treated dog in this household with no issue. No further information is expected.
03-Dec-2018	UAE; 18BR007854; MG; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 30.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	03-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hachi, a male Pomeranian of 30 months old and 6 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (unknown lot, Jul 2019, topical, btw the shoulder blades), applied by the reporter on 23 Nov 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. FL has been applied every 3 months, but the first application was not provided - 1 Jan 2017 chosen at random). No further information is expected.
02-Dec-2018	UAE; 18BR007858; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	02-Dec-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, an unknown number of cats were treated with FRONTLINE (FL)(unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Nov 2018 - chosen at random), for flea treated. Lack of efficacy is suspected because the animal remains with fleas . This is the extent of the information available.
03-Dec-2018	UAE; 18BR007865; SC; Brazil	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	03-Aug-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bebeto, a male Poodle of 12 years old and 12 kg, received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not informed (1 Aug 2018 - chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007861 to 18BR007864 and 18BR007866 to 18BR007868. This is the extent of the information available.
03-Dec-2018	UAE; 18BR007866; SC; Brazil	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	01-Jan-2018*	03-Aug-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Poodle of 12 years old and 15 kg, received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not informed (1 Aug 2018 - chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007861 to 18BR007865, 18BR007867 and 18BR007868. This is the extent of the

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						to Company					information available.
03-Dec-2018	UAE; 18BR007867; SC; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	03-Aug-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female Shih Tzu of 7 years old and 14 kg, received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not informed (1 Aug 2018 - chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007861 to 18BR007866 and 18BR007868. This is the extent of the information available.
03-Dec-2018	UAE; 18BR007868; SC; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	03-Aug-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Baiquinho, a male medium crossbred dog of 6 years old and 17 kg, received FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), applied by the reporter on date not informed (1 Aug 2018 - chosen at random) for flea treatment. She believes that FL was not working because she continued to see fleas on her pet. FL was used in the past with the same issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR007861 to 18BR007867. This is the extent of the information available.
04-Dec-2018	UAE; 18BR007869; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 4.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	04-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tico, a male Siamese cat of 8 months old and 4.3 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the retail shop staff member on 1 Dec 2018 (first application) for flea treatment. Lack of efficacy is suspected because, according to the owner, the pet remains with live fleas. Flea infestation was seen 2 days prior to FL application. The environment has not been treated. No further information is expected.
04-Dec-2018	UAE; 18BR007870; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Sep-2017*	04-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bonier, a female Lhasa Apso of 2 years old and 4.5 kg, received FRONTLINE PLUS DOGS S (FL) (018/17, Mar 2019, topical, btw the shoulder blades), applied by the reporter on 27 Nov 2018 for flea treatment. Lack of efficacy is suspected because, according to the owner, the pet remains with live fleas. Flea infestation was seen 1 day prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (27 Sep 2017 – chosen at random). The environment has been treated with Butox®. No further information is expected.
04-Dec-2018	UAE; 18BR007875; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Toy)	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2018*	04-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fred, a male Poodle of 8 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the

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		Sex: M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5 kg				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					shoulder blades), administered by the reporter on 27 Nov 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency – every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
28-Nov-2018	UAE; 18BR007877; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jul-2018*	28-Nov-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tom, a male mixed breed cat of 3 years old and 5.2 kg, received one vial of FRONTLINE PLUS CATS (FL), topical, neck, applied by the reporter on 24 Nov 2018, for flea treatment. The owner continues to see fleas on her pet. Environment treated with deltamethrin. FL was applied on Jul 2018, Oct 2018 and 24 Nov 208 with the same issue. Similar case reported on 18BR007782. No further information is expected.
04-Dec-2018	UAE; 18BR007889; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Nov-2018	04-Dec-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branquinho, a male crossbred cat of 9 years old and 5 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 15 Nov 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. The environment has not been treated. No further information is available.
04-Dec-2018	UAE; 18BR007892; RS; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	04-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female crossbred cat of 1 year old and 1.5 kg, received FRONTLINE SPOT-ON CAT (FL) (015/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Nov 2018 for flea prevention. Lack of efficacy is suspected because the owner started to see fleas on her pet 1 week after product administration. FL was used in the past with no issue (dose frequency – monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007893. The environment has been treated with Butox®. No further information is available. UPDATE 11 Dec 2018 - The owner informed that her pet remains with fleas. No further information is expected.
04-Dec-2018	UAE; 18BR007893;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	01-Jan-2018*	04-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thuthuquinha, a female crossbred cat of 4 years old and 4 kg,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	RS; Brazil	mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg				ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					received FRONTLINE SPOT-ON CAT (FL) (015/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Nov 2018 for flea prevention. Lack of efficacy is suspected because the owner started to see fleas on her pet 1 week after product administration. FL was used in the past with no issue (dose frequency – monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007892. The environment has been treated with Butox®. No further information is available. UPDATE 11 Dec 2018 - The owner informed that her pet remains with fleas. No further information is expected.
03-Dec-2018	UAE; 18BR007894; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 17.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2018	03-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Moah, a male Shih Tzu of 17 months old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 18BR007895. No further information is expected.
03-Dec-2018	UAE; 18BR007895; MG; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	04-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female Poodle Toy of 5 years old and 3 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 19 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR007894. No further information is expected.
04-Dec-2018	UAE; 18BR007896; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	04-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Robertão, a male crossbred cat of 4 years old and 9 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck), administered by the reporter on 4 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet 90 minutes after product administration. It is unknown if FL was used in the past. Similar cases reported on 18BR007897 to 18BR007900. The environment has been treated with K-Othrine®. No further information is available.
04-Dec-2018	UAE; 18BR007897; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various	1	1	0	**Product used:** FIPRONIL SPRAY	N/A	04-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Amora, a female crossbred cat of less than 1 year old and 3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 3 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					topical, neck), administered by the reporter on 4 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet 90 minutes after product administration. It is unknown if FL was used in the past. Similar cases reported on 18BR007896 and 18BR007898 to 18BR007900. The environment has been treated with K-Othrine®. No further information is available.
04-Dec-2018	UAE; 18BR007898; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 17.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	04-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tigresa, a female crossbred cat of 17 years old and 5 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck), administered by the reporter on 4 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet 90 minutes after product administration. It is unknown if FL was used in the past. Similar cases reported on 18BR007896, 18BR007897, 18BR007899 and 18BR007900. The environment has been treated with K-Othrine®. No further information is available.
04-Dec-2018	UAE; 18BR007899; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 0.3 kg	3	3	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	04-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 female crossbred cats of 2 months old and 0.3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck), administered by the reporter on 4 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet 90 minutes after product administration. It is unknown if FL was used in the past. Similar cases reported on 18BR007896 to 18BR007898 and 18BR007900. The environment has been treated with K-Othrine®. No further information is available.
04-Dec-2018	UAE; 18BR007900; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 0.3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not	N/A	04-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one male crossbred cat of 2 months old and 0.3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date unknown, topical, neck), administered by the reporter on 4 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet 90 minutes after product administration. It is unknown if FL was used in the past. Similar cases reported on 18BR007896 to 18BR007899. The environment has been treated with K-Othrine®. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						respected)					
04-Dec-2018	UAE; 18BR007902; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Sep-2018	15-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Wil, a male medium crossbred dog of 12 years old and 12 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 15 Sep 2018, 15 Oct 2018 and 16 Nov 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. It is unknown if FL was used in the past. The environment has been treated with Neocid®. No further information is available.
04-Dec-2018	UAE; 18BR007903; -; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Capstar®; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Nov-2018	01-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ethos, a male Yorkshire of 4 months old and 1.2 kg, received FRONTLINE PLUS DOG S (FL) (lot and expo date unknown, topical, bat the shoulder blades) for the first time, administered by the reporter on 21 Nov 2018 for flea treatment. Cap star® was administered on the same day. She believes that FL is not working because she started to see fleas on her pet again a few days ago, so she administered NEXGARD (11.3 mg) on Ethos on 4 DEC 2018 and it is unknown if fleas still had been visualized. The environment has been treated with unknown product. No further information is available.
03-Dec-2018	UAE; 18BR007905; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of cats (unknown age and weight) were treated with FRONTLINE CATS (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 13 Nov 2018, for flea treatment. Lack of efficacy is suspected because the animals remain with fleas. Environment treated with an unknown product. No further information is available.
04-Dec-2018	UAE; 18BR007908; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	04-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 cats of unknown signalment were treated with FRONTLINE PLUS (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 1 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, they are scratching themselves due to fleas. This is the extent of the information available. UPDATE 13 DEC 2018 - Gigi, a female mixed breed cat of 18 months old and 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Dec 2018, for flea treatment. The pet remains with fleas. Environment not treated. Similar case reported on 18BR008146. No further information is expected.

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05-Dec-2018	UAE; 18BR007909; -; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	22-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Shih Tzu of unknown signalment received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 20 Nov 2018 for tick treatment. She believes that FL is not working because she continues to see live ticks attached to her pet. This is the extent of the information available.
05-Dec-2018	UAE; 18BR007916; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	05-Dec-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nicole, a female Yorkshire of 14 months old and 2.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 14 Nov 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet . The environment has been treated with Butox®. No further information is available.
04-Dec-2018	UAE; 18BR007919; -; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	04-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, Puppy, a male medium crossbred dog of 12 years old and 5 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, parts of the body), applied by the reporter around 20 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, he is presenting hair loss and wounds due to fleas. FL was applied around 6 times since Oct 2018 with the same issue. Similar cases reported on 18BR007920 and 18BR007921. No further information is expected.
04-Dec-2018	UAE; 18BR007920; -; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	01-Oct-2018*	04-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, Zeus, a male Persian of 18 months old and 2 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, parts of the body), applied by the reporter around 20 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied around 6 times since Oct 2018. Similar cases reported on 18BR007919 and 18BR007921. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						program not respected)					
04-Dec-2018	UAE; 18BR007921; -; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	04-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via distributor, Zion, a male Persian of 6 years old and 2 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter around 20 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied around 6 times since Oct 2018. Similar cases reported on 18BR007919 and 18BR007920. No further information is expected.
05-Dec-2018	UAE; 18BR007925; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sheron Stone, a female large crossbred dog of 12 years old and 20 kg, was treated with one vial of FRONTLINE PLUS DOG L (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007926 to 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007926; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Suzi, a female Pinscher of 8 years old and 3 kg, was treated with one vial of FRONTLINE PLUS DOG S (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925, 18BR007927 to 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007927; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Vicente, a male Pinscher of 10 years old and 3 kg, was treated with one vial of FRONTLINE PLUS DOG S (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for

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		Sex qualifier: Unknown **Age:** 10.00 Year(s) **Weight:** 3 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925, 18BR007926, 18BR007928 to 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007928; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Apolo, a male Pit Bull of 8 years old and 30 kg, was treated with one vial of FRONTLINE PLUS DOG L (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925 to 18BR007927, 18BR07929 to 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007929; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Florinda, a female mixed breed cat of 3 years old and 6 kg, was treated with one vial of FRONTLINE PLUS CATS (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925 to 18BR007928, 18BR007930 to 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007930; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Igor Cavallera, a male mixed breed cat of 5 years old and 6 kg, was treated with one vial of FRONTLINE PLUS CATS (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925 to 18BR007929, 18BR007931 and 18BR007932. No further

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						Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					information is expected.
05-Dec-2018	UAE; 18BR007931; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2017*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ozzy, a male mixed breed cat of 4 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR007925 to 18BR007930 and 18BR007932. No further information is expected.
05-Dec-2018	UAE; 18BR007932; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	02-Dec-2018*	29 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lucas, a male mixed breed cat of 1 years old and 1 kg, was treated with one vial of FRONTLINE PLUS CATS (lot and exp date are unknown, topical, head), applied by the reporter on 3 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 2 months since date not specified (1 Jan 2018 - chosen at random). Similar cases reported on 18BR007925 to 18BR007931. No further information is expected.
05-Dec-2018	UAE; 18BR007933; MG; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 11.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Dec-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jack, a male French Bulldog of 5 years old and 11.2 kg, received FRONTLINE PLUS DOG M (FL) (019/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Nov 2018 - estimated date) for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. It is unknown if FL was used in the past. This dog has outdoor access. The environment has been treated with unknown product. No further information is available.

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06-Dec-2018	UAE; 18BR007944; RJ; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2015*	06-Dec-2018*	5 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dimy, a male Pinscher of 4 years old and 2.5 kg, was treated with FRONTLINE SPRAY (FL) (017/16, unknown exp date, topical, parts of the body), applied by the reporter in the of October (28 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL has been applied every 30 - 60 days since 1 Jan 2017 (chosen at random). No further information is expected.
05-Dec-2018	UAE; 18BR007945; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Jan-2017*	04-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female dog of unknown signalment received an unknown dose FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown) (FL), applied by the reporter on a date not specified (28 Nov 2018 – chosen at random), for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. FL has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (20 Jan 2017 – chosen at random). The environment has been treated with Butox®.There is a concomitant patient (1 cat) of the same household that has been simultaneously treated with FL (similar case reported on 18BR007946). This is the extent of information available for now. UPDATE 11 Dec 2018 – Neguinha, a female crossbred dog of 12 years old and 10 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the owner, on 24 Nov 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. Flea infestation was seen 14 days prior to FL application. The environment remains being treated with Butox®. Similar case reported on 18BR007946. No further information is expected.
05-Dec-2018	UAE; 18BR007946; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 2.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	04-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a cat of unknown signalment received an unknown dose FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown) (FL), applied by the reporter on a date not specified (28 Nov 2018 – chosen at random), for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. FL has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (20 Jan 2018 – chosen at random). The environment has been treated with Butox®.There is a concomitant patient (1 cat) of the same household that has been simultaneously treated with FL (similar case reported on 18BR007945). This is the extent of information available for now. UPDATE 11 Dec 2018 – Trovão, a male Domestic Shorthair cat (crossbred) of 9 months old and 2.9 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), applied by the owner, on 24 Nov 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. Flea infestation was seen 14 days prior to FL application. FL has been applied in the past with no issue (dose frequency unknown) and

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											the first application date was not provided (1 Jul 2018 – chosen at random).The environment remains being treated with Butox®. Similar case reported on 18BR00794. No further information is expected.
06-Dec-2018	UAE; 18BR007949; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	06-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kiara, a female mixed breed cat of 2 years old and 4 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades, back), applied by the reporter on 2 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past, but the details were not provided (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007950. No further information is expected.
06-Dec-2018	UAE; 18BR007950; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Month(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	06-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chanel, a female mixed breed cat of 10 months old and 2.5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades, back), applied by the reporter on 2 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past, but the details were not provided (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR007949. No further information is expected.
05-Dec-2018	UAE; 18BR007953; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	30-Nov-2018*	8 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Floquinho, a male crossbred dog of 2 years old and 10 kg, received one vial of FRONTLINE SPRAY 100 ml (FL) (lot and exp unknown, topical, location is unknown), applied by the reporter, on 5 Oct 2018, for flea treatment. The owner believed that FL was not working because she was still visualizing live fleas on her pet, so was administered a pippete of FRONTLINE PLUS S (FL PLUS) (lot and exp date are unknown, topical, btw the shoulder blades) on 4 Nov 2018 and, even after, the owner continued to see live fleas. So, on around 25 Nov 2018 (estimated date) was applied a fractionated pippete of FL PLUS (lot and exp date unknown, topical, btw the shoulder blades) and, according to the reporter, the animal remains with live fleas. Flea infestation was seen 2 months prior to FL application. It's unknown if FL SPRAY has been applied in the past. FL PLUS has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jul 2017 – chosen at random). There is a concomitant patient (1 dog) of the same household that was also treated with FL (similar case reported on 18BR007954). The environment has been treated with Butox®. No further information is expected.

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05-Dec-2018	UAE; 18BR007954; RJ; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	30-Nov-2018*	8 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pequenininho, a male crossbred dog of 9 months old and 7 kg, received one vial of FRONTLINE SPRAY 100 ml (FL) (lot and exp unknown, topical, location is unknown), applied by the reporter, on 5 Oct 2018, for flea treatment. The owner believed that FL was not working because she was still visualizing live fleas on her pet, so was administered a pippete of FRONTLINE PLUS DOGS S (FL PLUS) (lot and exp date unknown, topical, btw the shoulder blades) on 4 Nov 2018 and, even after, the owner continued to see live fleas. So, on around 25 Nov 2018 (estimated date) was applied a fractionated pippete of FL PLUS (lot and exp date unknown, topical, btw the shoulder blades) and, according to the reporter, the animal remains with live fleas. Flea infestation was seen 2 months prior to FL application. It's unknown if FL SPRAY has been applied in the past. FL PLUS has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (5 May 2018 – chosen at random). There is a concomitant patient (1 dog) of the same household that was also treated with FL (similar case reported on 18BR007953). The environment has been treated with Butox®. No further information is expected.
05-Dec-2018	UAE; 18BR007956; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Nov-2018	05-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, Toby, a male Yorkshire of 18 months old and 5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (21 Nov 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 18BR007957. No further information is expected.
05-Dec-2018	UAE; 18BR007957; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 30.00 Month(s) **Weight:** 7 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	05-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, Mutante, a male Pomeranian of 30 months old and 7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 days ago (21 Nov 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Environment not treated. Similar case reported on 18BR007956. No further information is expected.
05-Dec-2018	UAE; 18BR007960; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zezinho, a male crossbred cat of 2 years old and 6 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. FL was not applied according to label instructions (low dose). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Related cases reported on 18BR007961 to 18BR007969. This is the extent of the information available.

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		Weight: 6 kg				**Was the product used ok?:** No (Low dose)					
05-Dec-2018	UAE; 18BR007961; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pit, a male crossbred cat of 5 years old and 6 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. FL was not applied according to label instructions (low dose). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Related cases reported on 18BR007960 and 18BR007962 to 18BR007969. This is the extent of the information available.
05-Dec-2018	UAE; 18BR007962; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frank, a male crossbred cat of 5 years old and 8 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. FL was not applied according to label instructions (low dose). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Related cases reported on 18BR007960, 18BR007961 and 18BR007963 to 18BR007969. This is the extent of the information available.
05-Dec-2018	UAE; 18BR007963; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branca, a female crossbred cat of 2 years old and 5 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. FL was not applied according to label instructions (low dose). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Related cases reported on 18BR007960 to 18BR007962 and 18BR007964 to 18BR007969. This is the extent of the information available.
05-Dec-2018	UAE; 18BR007964; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Preta, a female crossbred cat of 3 years old and 5 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. FL was not applied according to label instructions (low dose). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Related cases reported on 18BR007960 to 18BR007963 and 18BR007965 to 18BR007969. This is the extent of the information available.
05-Dec-2018	UAE; 18BR007965;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Zezinho, a male crossbred cat of 2 years old and 6 kg, received

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	-; Brazil	mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6 kg				SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. The cat was in good health prior to FL. Right after product administration the animal experienced intense itching. Signal is still ongoing. Related cases reported on 18BR007960 to 18BR007964 and 18BR007966 to 18BR007969. No further information is available.
05-Dec-2018	UAE; 18BR007966; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Pit, a male crossbred cat of 5 years old and 6 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. The cat was in good health prior to FL. Right after product administration the animal experienced intense itching. Signal is still ongoing. Related cases reported on 18BR007960 to 18BR007965 and 18BR007967 to 18BR007969. No further information is available.
05-Dec-2018	UAE; 18BR007967; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Frank, a male crossbred cat of 5 years old and 8 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. The cat was in good health prior to FL. Right after product administration the animal experienced intense itching. Signal is still ongoing. Related cases reported on 18BR007960 to 18BR007966, 18BR007968 and 18BR007969. No further information is available.
05-Dec-2018	UAE; 18BR007968; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Branca, a female crossbred cat of 2 years old and 5 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. The cat was in good health prior to FL. Right after product administration the animal experienced intense itching. Signal is still ongoing. Related cases reported on 18BR007960 to 18BR007967 and 18BR007969. No further information is available.
05-Dec-2018	UAE; 18BR007969; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	03-Dec-2018	03-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Preta, a female crossbred cat of 3 years old and 5 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical, whole body) for the first time, administered by the reporter on 3 Dec 2018 for flea treatment. The cat was in good health prior to FL. Right after product administration the animal experienced intense itching. Signal is still ongoing. Related cases reported on 18BR007960 to 18BR007968. No further information is available.

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						product used ok?: No (Low dose)					
06-Dec-2018	UAE; 18BR007977; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	06-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luma, a female Pinscher of 4 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (21 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . FL has been applied every 6 months since date not specified (1 Jan 2017 - chosen at random). Environment not treated. Similar cases reported on 18BR007978 and 18BR007979. No further information is expected.
06-Dec-2018	UAE; 18BR007978; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	06-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Totozinha, a female Pinscher of 8 years old and 5 kg, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (21 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . FL has been applied every 6 months since date not specified (1 Jan 2017 - chosen at random). Environment not treated. Similar cases reported on 18BR007977 and 18BR007979. No further information is expected.
06-Dec-2018	UAE; 18BR007979; MG; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	06-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lolinho, a male Labrador of 8 years old and 25 kg, was treated with one vial of FRONTLINE SPOT-ON DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 15 days ago (21 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . FL has been applied every 6 months since date not specified (1 Jan 2017 - chosen at random). Environment not treated. Similar cases reported on 18BR007977 and 18BR007978. No further information is expected.
06-Dec-2018	UAE; 18BR007981; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	05-Dec-2018*	4 Week(s) 5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female Poodle of 3.2 kg (other signalment is unknown) was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot, exp date, route and location are unknown), applied by the reporter on 2 Nov 2018, for flea treatment. Lack of efficacy is suspected because fleas were found on his pet 34 days after product application. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). This is the extent of the information available.
06-Dec-2018	UAE; 18BR007982; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Jun-2017*	15-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of dogs of unknown signalment were treated with FRONTLINE PLUS (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random). Lack of efficacy is

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					suspected because the animals remain with fleas. Environment treated with an unknown product. This is the extent of the information available. UPDATE 11 Dec 2018 - The pet owner informed that Catarina, a female small crossbred dog of 5 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Jun 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jun 2017 chosen at random). The owner administered Simparic® on her pet on date not informed (10 Dec 2018 – estimated date) and no more fleas were visualized. Similar cases reported on 18BR008060 to 18BR008062. The environment has been treated with Colosso®. No further information is available.
06-Dec-2018	UAE; 18BR007983; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	06-Dec-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, an unknown number of dogs of unknown signalment were treated with FRONTLINE PLUS (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter around 1 Dec 2018. Lack of efficacy is suspected because the animals remain with fleas. Environment treated with an unknown product. This is the extent of the information available.
07-Dec-2018	UAE; 18BR007988; SC; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 4.9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Oct-2018*	07-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Shih Tzu of 9 months old (other signalment is unknown) was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Similar case reported on 18BR007989. This is the extent of the information available. UPDATE 10 DEC 2018 - Alfie, a male Shih Tzu of 9 months old and 4.9 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter around 19 Nov 2018, for flea treatment. The owner still sees fleas on her pet. Environment not treated. FL was also applied less than 1 month after the second application and it was applied incorrectly (parts of the body) and she continued to see fleas. Human exposure reported on 18BR008028. No further information is available.
07-Dec-2018	UAE; 18BR007989; SC; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	25-Oct-2018	07-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Shih Tzu of 9 years old (other signalment is unknown) was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Similar case reported on 18BR007988. This is the extent of the information available. UPDATE 10 DEC 2018 - Tofy, a male Shih Tzu of 9 years old and 10 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body),

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						ok?: Yes					applied by the reporter around 19 Nov 2018, for flea treatment. The owner still sees fleas on her pet. Environment not treated. FL was also applied less than 1 month after the second application and it was applied incorrectly (parts of the body) and she continued to see fleas. Human exposure reported on 18BR008028. No further information is available.
07-Dec-2018	UAE; 18BR007994; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Dec-2018	07-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female Shih Tzu of 20 months old and 12 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 3 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. No further information is expected.
07-Dec-2018	UAE; 18BR008005; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.50 Year(s) **Weight:** 4.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Nov-2018	22-Nov-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Anair, a female crossbred cat of 2.5 years old and 4.2 kg, received FRONTLINE SPOT-ON CAT (FL) (021/17A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 20 Nov 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. The environment has been treated by a specialized company. No further information is available.
08-Dec-2018	UAE; 18BR008011; RJ; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 25.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Dec-2018	08-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female Labrador (other signalment is unknown) received FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on 5 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching itself due to fleas. This is the extent of the information available. UPDATE 10 DEC 2018 - Gaia, a female Labrador of 1 year old and 25.8 kg, was treated, for the first time, with one vial of FL PLUS DOG L, topical, btw the shoulder blades, for flea treatment. The owner continues to see fleas on her pet. Environment not treated. There are 3 cats in this household that were treated with another product and they have no issue. No further information is available. UPDATE 16 Dec 2018 – According to the owner, the pet remains with live fleas. No further information is expected.
10-Dec-2018	UAE; 18BR008012; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 20.00 Month(s) **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jul-2017*	10-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Calvino, a male French Bulldog of 20 months old and 8.5 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 5 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. NG has been given every 3 months since date not specified (1 Jul 2017 - chosen at random). No further information is expected.

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						ok?: Yes					
10-Dec-2018	UAE; 18BR008013; RJ; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018	10-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Blackie, a male Golden Retriever of 3 months old and 9 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (010/17B, Apr 2019, topical, whole body), applied by the reporter on 14 Nov 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. No further information is expected.
10-Dec-2018	UAE; 18BR008019; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 23.00 Month(s) **Weight:** 3.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	10-Dec-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mila, a female Yorkshire of 23 months old and 3.3 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 29 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching herself due to fleas. Environment treated with an unknown product. It is unknown if FL has previously been applied. Similar case reported on 18BR008020. No further information is expected.
10-Dec-2018	UAE; 18BR008020; SP; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 21.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	10-Dec-2018*	11 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fofucha, a female cat of 21 months old and 5 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 29 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching herself due to fleas. Environment treated with an unknown product. It is unknown if FL has previously been applied. Similar case reported on 18BR008019. No further information is expected.
08-Dec-2018	UAE; 18BR008026; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Dec-2018	08-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Joaquim, a male Domestic Shorthair cat (crossbred) of 7 years old and 5 kg, received one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, on 7 Dec 2018 (first administration), for flea treatment. Lack of efficacy was suspected because the owner visualized live fleas on the pet, so she administered a product from another company (Revolution® - unsubstantiated) and, according to her, the animal doesn't present fleas anymore. Flea infestation was seen 1 month prior to FL application. The environment has not been treated. There is a concomitant patient (1 cat) of the same household that was simultaneously treated with FL (similar case reported on 18BR008027). No further information is expected.
08-Dec-2018	UAE; 18BR008027; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	07-Dec-2018	08-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pierre, a male Domestic Shorthair cat (crossbred) of 7 years old and 6 kg, received one vial of FRONTLINE SPOT-ON CATS (FL)

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		(Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, on 7 Dec 2018 (first administration), for flea treatment. Lack of efficacy was suspected because the owner visualized live fleas on the pet, so she administered a product from another company (Revolution® - unsubstantiated) and, according to her, the animal doesn't present fleas anymore. Flea infestation was seen 1 month prior to FL application. The environment has not been treated. There is a concomitant patient (1 cat) of the same household that was simultaneously treated with FL (similar case reported on 18BR008026). No further information is expected.
10-Dec-2018	UAE; 18BR008031; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, a dog of unknown signalment received one vial of FRONTLINE SPOT-ON DOGS (FL) (unsubstantiated; route, location, lot and exp date are unknown), applied by the reporter on 9 Dec 2018 for flea treatment. According to the owner, lack of efficacy is suspected because the animal remains with live fleas and remains itching because of it. It is unknown if FL has been administered in the past and whether the environment has been treated. No further information is available.
10-Dec-2018	UAE; 18BR008033; RJ; Brazil	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Phie, a female Labrador Retriever of 3 months old and 12 kg, received FRONTLINE SPRAY 100 ml (FL) (006/17, exp date unknown, topical, location is unknown), applied by the reporter, on 26 Nov 2018, for flea treatment. Lack of efficacy is suspected because the dog remains with live fleas. It is unknown if FL has been applied in the past. There is another dog of the same household that has not been treated. The environment has been treated with Triatox®. No further information is expected.
10-Dec-2018	UAE; 18BR008035; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 0.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	10-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sassa, a female crossbred cat of 2 months old and 0.2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 7 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. It is unknown if FL was used in the past. The environment has not been treated. No further information is available. UPDATE 20 DEC 2018 - According to the owner, FL didn't kill the fleas. So, she applied Revolution® and now the pet is currently free of ectoparasites. No further information is expected.
11-Dec-2018	UAE; 18BR008042; MG; Brazil	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Jan-2017*	11-Dec-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Brazilian Terrier of 10 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Nov 2018 - estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR008043 to 18BR008045. The environment has been treated with unkonwn product. No further information is

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						product used ok?: Yes					available.
11-Dec-2018	UAE; 18BR008043; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	11-Dec-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tainá, a female Yorkshire of 5 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Nov 2018 - estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR008042, 18BR008044 and 18BR008045. The environment has been treated with unkonwn product. No further information is available.
11-Dec-2018	UAE; 18BR008044; MG; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	11-Dec-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fifi, a female Pekingese of 5 years old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (10 Nov 2018 - estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR008042, 18BR008043 and 18BR008045. The environment has been treated with unkonwn product. No further information is available.
11-Dec-2018	UAE; 18BR008045; MG; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018*	11-Dec-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marley, a male Pekingese of 7 months old and 2 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (10 Nov 2018 - estimated date) for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. Similar cases reported on 18BR008042 to 18BR008044. The environment has been treated with unkonwn product. No further information is available.
11-Dec-2018	UAE; 18BR008048; MG; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	15-Oct-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Caio, a male small crossbred dog of 1 year old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Oct 2018 for tick treatment. She believes that FL is not working because she continues to see ticks on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jun 2018 chosen at random). The environment has not been treated. No further information is available.

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10-Dec-2018	UAE; 18BR008051; RS; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018*	8 Week(s) 5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Lhasa Apso of unknown signalment received FRONTLINE SPOT-ON (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter 2 months ago (10 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. So, the owner applied FRONTLINE PLUS (unsubstantiated) on date not specified and she continues to see fleas on her dog. This is the extent of the information available.
11-Dec-2018	UAE; 18BR008052; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	15-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Piti, a female Yorkshire of 14 years old and 3 kg, received FRONTLINE TRI-ACT 5-10 KG (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 4 Oct 2018 for flea treatment. FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) was applied for the first time on 10 Nov 2018. The owner believes that the products are not working because she continues to see fleas on her pet. FRONTLINE SPOT-ON DOGS was used in the past with no issue. Similar case reported on 18BR008053. The environment has been treated by a specialized company. No further information is available.
11-Dec-2018	UAE; 18BR008053; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2018	15-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Babi, a female Yorkshire of 10 years old and 6 kg, received FRONTLINE TRI-ACT 5-10 KG (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 4 Oct 2018 for flea treatment. FRONTLINE PLUS DOG S (lot and exp date unknown, topical, btw the shoulder blades) was applied for the first time on 10 Nov 2018. The owner believes that the products are not working because she continues to see fleas on her pet. FRONTLINE SPOT-ON DOGS was used in the past with no issue. Similar case reported on 18BR008052. The environment has been treated by a specialized company. No further information is available.
09-Dec-2018	UAE; 18BR008054; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	19-Nov-2017*	09-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, a female dog of unknown signalment received an unknown dose of FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown), applied by the reporter, on approximately 19 Nov 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on her pet. FL has been administered in the past with no issue (dose

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 2.00 Year(s) **Weight:** 20 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					frequency is unknown) and the first administration date was not provided (19 Nov 2017 – chosen at random). It is unknown if the environment has been treated. Similar case reported on 18BR008055. No further information is available. UPDATE 12 NOV 2018 - Filó, a female large crossbred dog of 2 years old and 20 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL), topical, btw the shoulder blades, applied on 21 Nov 2018. The pet remains with fleas. Environment treated with deltamethrin every 15 days. SLOE cases reported on 18BR008055, 18BR008064, 18BR008065 and 18BR008066. No further information is expected.
09-Dec-2018	UAE; 18BR008055; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2013*	09-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of cats of unknown signalment received an unknown dose of FRONTLINE (unsubstantiated; lot, exp date, route and location are unknown), applied by the reporter, on approximately 19 Nov 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the animals. FL has been administered in the past with no issue (dose frequency is unknown) and the first administration date was not provided (19 Nov 2013 – chosen at random). It is unknown if the environment has been treated. Similar case reported on 18BR008054. No further information is available. UPDATE 12 NOV 2018 - Porcaria, a male mixed breed cat of 5 years old and 6 kg, was treated with one vial of FRONTLINE PLUS CATS (FL), topical, btw the shoulder blades), applied on 21 Nov 2018, for flea treatment. The pet remains with fleas. Environment treated with deltamethrin every 15 days. SLOE cases reported on 18BR008054, 18BR008064, 18BR008065 and 18BR008066. No further information is expected.
06-Dec-2018	UAE; 18BR008060; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2017*	15-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofia, a female Yorkshire of 12 years old and 1.2 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Jun 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jun 2017 chosen at random). The owner administered Simparic® on her pet on date not informed (10 Dec 2018 – estimated date) and no more fleas were visualized. Similar cases reported on 18BR007982, 18BR008061 and 18BR008062. The environment has been treated with Colosso®. No further information is available.
06-Dec-2018	UAE; 18BR008061; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jun-2017*	15-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theodoro, a male Shih Tzu of 2 years old and 3 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Jun 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. She believes that FL is not working because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jun 2017 chosen at random). The owner administered Simparic® on her pet on date not informed (10 Dec 2018 – estimated date) and no more fleas were visualized. Similar cases reported on

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						ok?: Yes					18BR007982, 18BR008060 and 18BR008062. The environment has been treated with Colosso®. No further information is available.
06-Dec-2018	UAE; 18BR008062; MG; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** 1.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Jun-2018*	15-Jun-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Todinho, a male Pomeranian of 9 months old and 1.2 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on date not specified (7 Jun 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. She believes that FL is not working because she continues to see fleas on her pet. The owner administered Simparic® on her pet on date not informed (10 Dec 2018 – estimated date) and no more fleas were visualized. Similar cases reported on 18BR007982, 18BR008060 and 18BR008061. The environment has been treated with Colosso®. No further information is available.
09-Dec-2018	UAE; 18BR008064; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.50 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2013*	09-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Xule, a male mixed breed cat of 4.5 years old and 4.5 kg, was treated with one vial of FRONTLINE FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied on 21 Nov 2018, for flea control. Lack of efficacy is suspected because the pet has fleas. Environment treated with deltamethrin every 15 days. FL was applied in the past with no issue (dose frequency is unknown) and the first administration date was not provided (19 Nov 2013 – chosen at random). SLOE cases reported on 18BR008054, 18BR008055, 18BR008065 and 18BR008066. No further information is expected.
09-Dec-2018	UAE; 18BR008065; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2013*	09-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Aninha, a female mixed breed cat of 6 years old and 6 kg, was treated with one vial of FRONTLINE FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied on 21 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet has fleas. Environment treated with deltamethrin every 15 days. FL was applied in the past with no issue (dose frequency is unknown) and the first administration date was not provided (19 Nov 2013 – chosen at random). SLOE cases reported on 18BR008054, 18BR008055, 18BR008064 and 18BR008066. No further information is expected.
09-Dec-2018	UAE; 18BR008066; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2017*	09-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fumaça, a male mixed breed cat of 3 years old and 4.5 kg, was treated with one vial of FRONTLINE FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied on 21 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin every 15 days. FL was applied in the past with no issue (dose frequency is unknown) and the first administration date was not provided (19 Nov 2017 – chosen at random). SLOE cases reported on 18BR008054, 18BR008055, 18BR008064 and 18BR008065. No further information is expected.

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11-Dec-2018	UAE; 18BR008067; MG; Brazil	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Unknown **Age:** 1.60 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Jul-2018*	11-Dec-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Schumaker, a male Brazilian Terrier dog ('Fox Paulistinha') of 1 year and 6 months old and 9 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, on 25 Nov 2018) for tick treatment. Tick infestation was seen 6 days prior to FL application. Lack of efficacy is suspected because the pet remains with live ticks. FL has been administered one time in the past with no issue (25 Jul 2018 – estimated date). The environment has not been treated. No further information is available.
10-Dec-2018	UAE; 18BR008070; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one dog of 9 months old (other signalment is unknown) was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter around 2 months ago (10 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because one flea was found on her pet yesterday (10 Dec 2018). FL was applied for the first time on date not specified (1 Sep 2018 - chosen at random). This is the extent of the information available.
11-Dec-2018	UAE; 18BR008075; BA; Brazil	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 28 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Dec-2018	10-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Zara, a female dog Golden Retriever of 7 years old and 28 kg received FRONTLINE SPRAY 250 ML (FL) (001/18, Apr 2020, topical, whole body), applied by the reporter, on 10 Dec 2018 (first administration), for flea treatment. Three hours after product administration, the dog presented with prostration and, after around 7 hours, experienced vomiting (it is unknown how many episodes). No treatment was provided and the pet was not taken to the vet. The current status of the animal is unknown. According to the owner, the pet was in good health prior to FL administration and it is unknown if there is any history of adverse reactions to other drugs. FL pippete (unsubstantiated) was applied around 5 years ago with no issue. After some hours of the first contact, the owner contacted BI again to report that the animal probably had contact with a pack containing plant fertilizer and probably the vomiting occurred because of this. Human event reported on 18BR008058. No further information is available.
10-Dec-2018	UAE; 18BR008076; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 11.6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	10-Dec-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Malu, a female medium crossbred dog of 6 months old and 11.6 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 1 Dec 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FRONTLINE SPRAY was used once in the past with no issue (date not informed). Similar cases reported on 18BR008077 and 18BR008078. The environment has not been treated. No further information is available.

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10-Dec-2018	UAE; 18BR008077; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 13.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	10-Dec-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Colie, a female medium crossbred dog of 6 months old and 13.5 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 1 Dec 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FRONTLINE SPRAY was used once in the past with no issue (date not informed). Similar cases reported on 18BR008076 and 18BR008078. The environment has not been treated. No further information is available.
10-Dec-2018	UAE; 18BR008078; PR; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 10.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	10-Dec-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Teca, a female medium crossbred dog of 6 months old and 10.8 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 1 Dec 2018 for flea treatment. She believes that FL is not working because she continues to see fleas on her pet. FRONTLINE SPRAY was used once in the past with no issue (date not informed). Similar cases reported on 18BR008076 and 18BR008077. The environment has not been treated. No further information is available.
12-Dec-2018	UAE; 18BR008079; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Nov-2018	12-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Shih Tzu of 5 years old and 3.5 kg, was treated, for the second time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 9 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet is scratching herself . Although fleas are not seen, the owner believes that the pet has fleas. Environment treated with an unknown product. FL was applied for the first time one month ago (9 Nov 2018). No further information is expected.
09-Dec-2018	UAE; 18BR008080; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** AFOXOLANER 11.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Dec-2018	10-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, an unknown number of dogs received NEXGARD (NG) (unsubstantiated) (lot and exp date are unknown), administered orally by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. This is the extent of the information available. UPDATE 12 DEC 2018 - Alfredo, a male Shih Tzu of 6 years old and 6 kg, received, for the first time, one tablet of NEXGARD (11.3 mg) (NG) (lot and exp date are unknown), administered orally by the reporter on 28 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. So, the owner applied FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) on 5 Dec 2018. The owner still sees fleas on her pet. Environment was fumigated. Similar case reported on 18BR008119. No further information is expected.
12-Dec-2018	UAE; 18BR008082; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other	10-Dec-2018	12-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pepa, a female mixed breed cat of 18 months old and 5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (021/17A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 10 Dec 2018, for flea treatment.

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		Sex qualifier: Unknown **Age:** 18.00 Month(s) **Weight:** 5 kg				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. Similar case reported on 18BR008083. No further information is expected.
12-Dec-2018	UAE; 18BR008083; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Dec-2018	12-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female mixed breed cat of 18 months old and 5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (FL) (021/17A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 10 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment not treated. Similar case reported on 18BR008082. No further information is expected.
11-Dec-2018	UAE; 18BR008088; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maya, a neutered female mixed breed cat of 1 year old and 2 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 28 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR008089. There is one dog in this household that was treated with NEXGARD and it has no issue. No further information is expected.
11-Dec-2018	UAE; 18BR008089; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	11-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Malu, a neutered female mixed breed cat of 6 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 28 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR008088. There is one dog in this household that was treated with NEXGARD and it has no issue. No further information is expected.
11-Dec-2018	UAE; 18BR008093; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2018*	10-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bruxinha, a female crossbred cat of 10 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Nov 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. Lack of efficacy is suspected because the pet still has fleas . FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008094 and 18BR008095. The environment has been treated with K-Othrine®. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
11-Dec-2018	UAE; 18BR008094; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	10-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Monalisa, a female crossbred cat of 7 years old and 6 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Nov 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008093 and 18BR008095. The environment has been treated with K-Othrine®. No further information is available.
11-Dec-2018	UAE; 18BR008095; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	10-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Princesa, a female crossbred cat of 7 years old and 6 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not specified (7 Nov 2018 - estimated date) for flea treatment. Another application of FL was made on 7 Dec 2018. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008093 and 18BR008094. The environment has been treated with K-Othrine®. No further information is available.
12-Dec-2018	UAE; 18BR008098; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Sep-2017*	12-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Scooby, a male crossbred dog of 4 years old and 6 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 11 Dec 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first administration date was not provided (11 Sep 2017 – chosen at random). There is another dog of the same household that has been simultaneously treated with FL (similar case reported on 18BR008099). The environment has been treated with Butox®. No further information is expected.
12-Dec-2018	UAE; 18BR008099; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Sep-2017*	12-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Jade, a female crossbred dog of 2 years old and 4 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 11 Dec 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. Flea infestation was seen 7 days prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first administration date was not provided (11 Sep 2017 – chosen at random). There is another dog of the same household that has been simultaneously treated with FL (similar case reported on 18BR008098). The environment has been treated with Butox®. No further information is expected.
11-Dec-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	28-Sep-2018*	12-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner

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	18BR008101; SP; Brazil	**Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 4.3 kg				FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					via e-mail, Thomy, a male Yorkshire of 5 months old and 4.3 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, parts of the body), applied by the reporter on 1 Dec 2018 (estimated date), for flea treatment. FL was applied every 15 days since 28 Sep 2018 (estimated date). Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
11-Dec-2018	UAE; 18BR008109; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	11-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Xuxa, a female Yorkshire of 3 years old and 3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date 31 Jan 2019, topical, whole body except face), administered by the reporter on 8 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008110 to 18BR008112. The environment has been treated with Butox®. No further information is available.
11-Dec-2018	UAE; 18BR008110; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Aug-2018*	11-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sandy, a female Yorkshire of 5 months old and 3.5 kg, received FRONTLINE SPRAY (FL) (003/17, exp date 31 Jan 2019, topical, whole body except face), administered by the reporter on 8 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Aug 2018 chosen at random). Similar cases reported on 18BR008109, 18BR008111 and 18BR008112. The environment has been treated with Butox®. No further information is available.
11-Dec-2018	UAE; 18BR008111; SP; Brazil	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	01-Jan-2018*	11-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dora, a female German Shepherd of 5 years old and 25 kg, received FRONTLINE SPRAY (FL) (003/17, exp date 31 Jan 2019, topical, whole body except face), administered by the reporter on 8 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008109, 18BR008110 and 18BR008112. The environment has been treated with Butox®. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						vaccination program not respected)					
11-Dec-2018	UAE; 18BR008112; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	11-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dick, a male Pinscher of 13 years old and 3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date 31 Jan 2019, topical, whole body except face), administered by the reporter on 8 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008109 to 18BR008111. The environment has been treated with Butox®. No further information is available.
12-Dec-2018	UAE; 18BR008113; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 1.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	12-Dec-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Crinho, a male mixed breed cat of 2 years old and 1.8 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (001/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 3 Dec 2018, for flea control. Lack of efficacy is suspected because the pet has fleas. Environment treated with an unknown product. FL has been applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR008114. No further information is expected.
12-Dec-2018	UAE; 18BR008114; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	12-Dec-2018*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sasha, a female mixed breed cat of 8 years old and 3 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (001/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 3 Dec 2018, for flea control. Lack of efficacy is suspected because the pet has fleas. Environment treated with an unknown product. FL has been applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR008113. No further information is expected.
12-Dec-2018	UAE; 18BR008116; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Aug-2018*	01-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Prince, a male Poodle of 10 years old and 5 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Nov 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with the same issue (dose frequency – monthly, date of first administration was not provided - 27 Aug 2018 - estimated date). This pet does not have outdoor access. Similar cases reported on 18BR008117 and 18BR008118. The environment has been treated with Butox®. No further information is available.

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12-Dec-2018	UAE; 18BR008117; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Aug-2018*	01-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ferrugem, a female small crossbred dog of 1 year old and 3 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Nov 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with the same issue (dose frequency – monthly, date of first administration was not provided - 27 Aug 2018 - estimated date). This pet does not have outdoor access. Similar cases reported on 18BR008116 and 18BR008118. The environment has been treated with Butox®. No further information is available.
12-Dec-2018	UAE; 18BR008118; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Aug-2018*	01-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mia, a female crossbred cat of 2 years old and 3 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 27 Nov 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with the same issue (dose frequency – monthly, date of first administration was not provided - 27 Aug 2018 - estimated date). This pet does not have outdoor access. Similar cases reported on 18BR008116 and 18BR008117. The environment has been treated with Butox®. No further information is available.
09-Dec-2018	UAE; 18BR008119; SP; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** AFOXOLANER 11.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Dec-2018	09-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bobi, a male Poodle Toy of 8 years old and 4 kg, received, for the first time, one tablet of NEXGARD (28.3 mg) (NG) (lot and exp date are unknown), administered orally by the reporter on 28 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. So, the owner applied FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades) on 5 Dec 2018. The owne still sees fleas on her pet. Environment was fumigated. Similar case reported on 18BR008080. No further information is expected.
12-Dec-2018	UAE; 18BR008126; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Sep-2018	30-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maju, a female Siamese of 4 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 20 Sep 2018 for flea treatment. Another application of FL was made on 20 Oct 2018. Lack of efficacy is suspected because the pet still had fleas, so the owner administered another brand's product on date not informed (11 Dec 2018 – chosen at random) and no more fleas were visualized. Similar case reported on 18BR008128. The environment has been treated with Butox®. No further information is available.
12-Dec-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	20-Sep-2018	30-Sep-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner,

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	18BR008128; SP; Brazil	**Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5 kg				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Alana, a female crossbred cat of 6 years old and 5 kg, received FRONTLINE PLUS CATS (FL) (001/18A, exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 20 Sep 2018 for flea treatment. Another application of FL was made on 20 Oct 2018. Lack of efficacy is suspected because the pet still had fleas, so the owner administered another brand's product on date not informed (11 Dec 2018 – chosen at random) and no more fleas were visualized. Similar case reported on 18BR008126. The environment has been treated with Butox®. No further information is available.
12-Dec-2018	UAE; 18BR008131; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Jan-2016*	27-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Cherry, a female Domestic Shorthair cat (crossbred) of 13 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (004/17, exp date is unknown, topical, btw the shoulder blades), applied by the reporter, on 26 Nov 2018, for flea treatment. Approximately one day after product administration, the cat presented with a 'shivered haircoat', apathetic, 'disoriented', stopped eating, remained isolated and avoiding contact with people. It was not specified how many hours after FL administration these clinical signs appeared. The signs persisted for days and have stopped approximately on 10 Dec 2018 (estimated date). Cherry was not taken to the vet and no treatment was provided. At present, the animal remains healthy. According to the owner, the pet was in good health prior to FL administration. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (20 Jan 2016 – chosen at random). It is unknown if there is any history of adverse reactions to other drugs. SLOE case (same patient and product) reported on 18BR008132. No further information is available.
12-Dec-2018	UAE; 18BR008132; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Jan-2016*	12-Dec-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cherry, a female Domestic Shorthair cat (crossbred) of 13 years old and 3 kg, received one vial of FRONTLINE PLUS CATS (FL) (004/17, exp date is unknown, topical, btw the shoulder blades), applied by the reporter, on 26 Nov 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (20 Jan 2016 – chosen at random). The environment has not been treated. SAE case (same patient and product) reported on 18BR008131. No further information is available.
13-Dec-2018	UAE; 18BR008134; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jul-2017*	13-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofia, a female large crossbred dog of 12 years old and 22 kg, was treated with one vial of FRONTLINE PLUS DOG L (024/17, Jun 2019, topical, btw the shoulder blades), applied by the reporter on 10 Dec 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with an unknown product. FL was applied one year ago (1 Jul 2017 - chosen at random). Similar case reported on 18BR008135. No further information is expected.

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						ok?: Yes					
13-Dec-2018	UAE; 18BR008135; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 23 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2017*	13-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Max, a male large crossbred dog of 12 years old and 23 kg, was treated with one vial of FRONTLINE PLUS DOG L (024/17, Jun 2019, topical, btw the shoulder blades), applied by the reporter on 10 Dec 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with an unknown product. FL was applied one year ago (1 Jul 2017 - chosen at random). Similar case reported on 18BR008134. No further information is expected.
04-Dec-2018	UAE; 18BR008146; -; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Dec-2018	04-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Veludo, a male mixed breed cat of 18 months old and 4.8 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 1 Dec 2018, for flea treatment. The pet remains with fleas. Environment not treated. Similar case reported on 18BR007908. No further information is expected.
13-Dec-2018	UAE; 18BR008147; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	13-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Megui, a female Siamese of 8 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008148, 18BR008149 and 18BR008150. No further information is expected.
13-Dec-2018	UAE; 18BR008148; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	13-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ana Francisca, a female mixed breed cat of 5 years old and 3 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008147, 18BR008149 and 18BR008150. No further information is expected.
13-Dec-2018	UAE; 18BR008149; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Jan-2018*	13-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luma, a female small crossbred dog of 16 months old and 9.5 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (019/17, unknown exp date, topical, btw the shoulder blades, overdose), applied by the reporter on 6 Dec 2018, for flea

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 16.00 Month(s) **Weight:** 9.5 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008147, 18BR008148 and 18BR008150. No further information is expected.
13-Dec-2018	UAE; 18BR008150; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	13-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female medium crossbred dog of 8 years old and 12 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (019/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2018 chosen at random). Similar cases reported on 18BR008147, 18BR008148 and 18BR008149. No further information is expected.
13-Dec-2018	UAE; 18BR008154; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	13-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tob, a male Yorkshire Terrier of 7 years old and 6 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, on 3 Dec 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. It is unknown if FL has been administered in the past. The environment has not been treated. No further information is available.
14-Dec-2018	UAE; 18BR008157; SP; Brazil	**Species:** Canine **Breed:** Dalmatian **Sex:** F **Sex qualifier:** Unknown **Age:** 1.80 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	27-May-2018*	14-Dec-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bela, a female Dalmatian of 1 year and 8 months old and 25 kg, received a fractionated dose of FRONTLINE PLUS DOGS XL (FL) (016/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter, on 27 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Flea infestation was seen 3 days prior to FL application. FL has been applied in the past with no issue (dose frequency every 6 months) and the first application date was not provided (27 May 2018 – chosen at random). The environment has been treated with K-Othrine®. Similar case reported on 18BR008158. No further information is available.
14-Dec-2018	UAE; 18BR008158; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	27-Nov-2017*	14-Dec-2018*	17 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female crossbred dog of 3 years old and 38 kg, received one vial of FRONTLINE PLUS DOGS XL (FL) (016/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter, on 27 Nov 2018, for flea treatment. Lack of efficacy is suspected

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 3.00 Year(s) **Weight:** 38 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)					because the pet remains with live fleas. Flea infestation was seen 3 days prior to FL application. FL has been applied in the past with no issue (dose frequency every 6 months) and the first application date was not provided (27 Nov 2017 – chosen at random). The environment has been treated with K-Othrine®. Similar case reported on 18BR008157. No further information is available.
14-Dec-2018	UAE; 18BR008159; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	14-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dimmy, a male small mixed breed cat of 4 years old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (002/17, Jan 2019, topical, btw the shoulder blades), applied by the reporter on 4 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 6 months (first application was not provided - 1 Jan 2017 chosen at random). There is a dog in this household that was treated with Bravecto® and it has itching. No further information is expected. UPDATE 20 DEC 2018 - According to the owner, the environment was treated with Butox®, but she still sees fleas on her pet. No further information is expected.
12-Dec-2018	UAE; 18BR008161; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	05-Jan-2018*	12-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, 5 cats of unknown signalment received an unknown dose of FRONTLINE PLUS (FL) (unsubstantiated; exp date, route and location are unknown), applied by the reporter, on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pets remain with live fleas. FL has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jan 2018 – chosen at random). It is unknown if the environment has been treated. Similar case reported on 18BR008162. This is the extent of information available for now.
12-Dec-2018	UAE; 18BR008162; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	05-Jan-2018*	12-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, 1 dog of unknown signalment received an unknown dose of FRONTLINE PLUS (FL) (unsubstantiated; exp date, route and location are unknown), applied by the reporter, on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency unknown) and the first application date was not provided (5 Jan 2018 – chosen at random). It is unknown if the environment has been treated. Similar case reported on 18BR008161. This is the extent of information available for now.
14-Dec-2018	UAE; 18BR008175; PE; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical /	29-Nov-2018	14-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Dudu, a male crossbred dog of 3 months old and 2 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (014/18A, exp date is unknown, topical, btw the shoulder blades), applied by the reporter, on 29 Nov 2018 (first administration), for tick treatment. Lack of efficacy is suspected because the animal remains with live ticks. The environment has been treated with an unknown product.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 3.00 Month(s) **Weight:** 2 kg				Cutaneous **Was the product used ok?:** Yes					No further information is expected.
14-Dec-2018	UAE; 18BR008176; DF; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 17 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2018*	14-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pipe, a male medium crossbred dog of 4 months old and 17 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter around 30 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. No further information is expected.
14-Dec-2018	UAE; 18BR008186; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Jan-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofia, a female Shih Tzu of 2 years old and 2.5 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, whole body), administered by the reporter on date not specified (1 Jan 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR008187. Lot number, manufacture and expiration dates were missing on the primary packaging, so TPC case was reported on GOTrack (PRID 345609). The environment has not been treated. No further information is available.
14-Dec-2018	UAE; 18BR008187; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	15-Jan-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Banguela, a male crossbred cat of 3 years old and 2 kg, received FRONTLINE SPRAY (FL) (lot and exp date unknown, topical, whole body), administered by the reporter on date not specified (1 Jan 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR008186. Lot number, manufacture and expiration dates were missing on the primary packaging, so TPC case was reported on GOTrack (PRID 345609). The environment has not been treated. No further information is available.
14-Dec-2018	UAE; 18BR008191; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	30-Sep-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, Belinha, a female medium crossbred dog of 9 years old and 20 kg, was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter around 20 Sep 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remained with fleas . In addition, she has flea allergic dermatitis. So, she applied, for the first time, one vial of FRONTLINE PLUS DOG M (topical, btw the shoulder blades) on 27 Nov 2018. However, the owner continues to see fleas on his pet. Environment treated with an unknown product. No further information is expected.

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17-Dec-2018	UAE; 18BR008194; SÃO PAULO; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 15 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-Dec-2018	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alinha, a female medium crossbred dog of 7 years old and 15 kg, was treated with one vial of FRONTLINE PLUS DOG M (lot, exp date, route and location are unknown), applied by the reporter on 26 Nov 2018, for flea control. Lack of efficacy is suspected because 3 fleas were found on 15 Dec 2018. This is the extent of the information available.
17-Dec-2018	UAE; 18BR008195; MG; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lia, a female Lhasa Apso of 6 years old and 3.5 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 29 Nov 2018, for flea/tick control. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). No further information is expected.
14-Dec-2018	UAE; 18BR008210; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2015*	01-May-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Joy, a male Persian of 10 years old and 3 kg, received FRONTLINE CATS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Dec 2018 for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on her pet for the last 7 to 8 months of treatment with FL (dose frequency - every 20 days, date of first administration was not provided - 1 Jan 2015 chosen at random). There is an untreated dog living in this household. SAE case reported on 18BR008211. The environment has not been treated. No further information is available.
14-Dec-2018	UAE; 18BR008211; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not	01-Jan-2015*	13-Dec-2018*	2 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Joy, a male Persian of 10 years old and 3 kg, received FRONTLINE CATS (FL) (unsubstantiated) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 11 Dec 2018 for flea treatment. 2 to 3 days after product administration the animal experienced vomiting and intestinal issues. Joy experienced the same signals after the last few applications of FL (dose frequency - every 20 days, date of first administration was not provided - 1 Jan 2015 chosen at random). Signals were not investigated by a veterinarian and the cat has the habit of eating cockroaches and other small animals. SLOE case reported on 18BR008210. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						respected)					
14-Dec-2018	UAE; 18BR008217; SP; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	08-Dec-2018*	14-Dec-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 1 Pomeranian of unknown sex, 5 months old and 4 kg received FRONTLINE SPRAY 100 ml (FL) (lot, exp date, route and location are unknown), applied by the reporter, on 8 Dec 2018, for flea treatment. The owner believed that FL was not working because his dog was still presenting live fleas, so the product was applied again on approximately 14 Dec 2018 (estimated date) and, currently, the pet remains with live fleas. It is unknown if FL has been applied in the past, before 8 Dec 2018. The environmental factors are not known. This is the extent of information available for now. UPDATE 18 Dec 2018 – Dudu, a male Pomeranian, received FL on 8, 13 and 15 Dec 2018 and, even after last application, remained presenting live fleas. So, was administered NEXGARD® on 15 Dec 2018 and, currently, the pet is not presenting fleas anymore. It is unknown if FL has been applied in the past, before 8 Dec 2018. The environment has not been treated. No further information is expected.
16-Dec-2018	UAE; 18BR008225; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Nov-2017*	13-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rabjio, a male crossbred dog of 3 years old and 25 kg, received FRONTLINE PLUS DOGS (FL) (unsubstantiated; 024/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter, on 17 Nov 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. FL has been administered one time in the past (17 Nov 2017 – chosen at random) and the same issue occurred. The environment has not been treated. Similar case reported on 18BR008226. No further information is available.
16-Dec-2018	UAE; 18BR008226; SP; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Nov-2017*	13-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Luna, a female crossbred dog of 4 years old and 22 kg, received FRONTLINE PLUS DOGS (FL) (unsubstantiated; 024/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter, on 17 Nov 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. FL has been administered one time in the past (17 Nov 2017 – chosen at random) and the same issue occurred. The environment has not been treated. Similar case reported on 18BR008225. No further information is available.
17-Dec-2018	UAE; 18BR008227; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown	N/A	17-Dec-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment was treated with one vial of FRONTLINE PLUS DOG L (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Similar case reported on 18BR008228. This is the extent of the information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					
17-Dec-2018	UAE; 18BR008228; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Dec-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment was treated with one vial of FRONTLINE PLUS DOG (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Similar case reported on 18BR008227. This is the extent of the information available.
17-Dec-2018	UAE; 18BR008229; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 13.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Dec-2018	17-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Branco, a male mixed breed cat of 'more than 1 year old' and 4 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (008/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 15 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
17-Dec-2018	UAE; 18BR008230; SP; Brazil	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Unknown **Age:** 55.00 Day(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Dec-2018	17-Dec-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Raufh, a male Dachshund of 55 days old and around 2 kg received FRONTLINE SPRAY 100 ml (FL) (002/18A, exp date is unknown, topical, some parts of the body), applied by the reporter, on 15 Dec 2018 (first administration), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. According to the owner, since 15 Dec 2018, FL has been administered every time he visualizes fleas on his dog (last application on 17 Dec 2018 – estimated date). The environment has been treated with Butox®. No further information is available.
18-Dec-2018	UAE; 18BR008236; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	11-Dec-2018	18-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Fofa, a female Lhasa Apso of 8 years old and 6 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 11 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with deltamethrin. The pet has outdoor access. Similar case reported on 18BR008237. No further information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
18-Dec-2018	UAE; 18BR008237; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2017*	9 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Pit Bull, was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2017 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remained with fleas. Another product was applied, but the current status of the animal is unknown. Similar case reported on 18BR008236. This is the extent of the information available.
17-Dec-2018	UAE; 18BR008238; MG; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Dec-2018	17-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Rei, a male French Bulldog of 8 years old and 12 kg, received one dose of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 3 Dec 2018 (first administration), for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. The environment has been treated with an unknown product. No further information is expected.
18-Dec-2018	UAE; 18BR008242; SP; Brazil	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	18-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment was treated with FRONTLINE PLUS (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the veterinarian on 1 Dec 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. This is the extent of the information available. UPDATE 19 DEC 2018 - Sofi, a female Maltese of 3 years old and 3.7 kg, was treated with FRONTLINE PLUS DOG S, topical, btw the shoulder blades, applied by the veterinarian on 13 Dec 2018, for flea treatment. The pet remains still has fleas. FL was applied for the first time 8 months ago and the pet continued with the same issue (1 Apr 2018 - chosen at random). No further information is expected.
17-Dec-2018	UAE; 18BR008246; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Dec-2018	18-Dec-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, Bibi, a female medium crossbred dog of 8 years old and 12 kg, was treated, for the first time, with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades, applied by the reporter on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 18BR008247. No further information is expected.
17-Dec-2018	UAE; 18BR008247; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S	06-Dec-2018	16-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, Shakira, a female Pit Bull of 12 years old and 37 kg, was treated, for the first time, with one vial of FRONTLINE PLUS

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		Sex qualifier: Unknown **Age:** 12.00 Year(s) **Weight:** 37 kg				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					DOG L (FL) (lot and exp date are unknown, topical, btw the shoulder blades, applied by the reporter on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. Similar case reported on 18BR008246. No further information is expected.
17-Dec-2018	UAE; 18BR008248; SC; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Unknown **Age:** 1.60 Year(s) **Weight:** 1.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Dec-2018	17-Dec-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lili, a female Siamese cat of 1 year and 6 months old and 1.8 kg, received one vial of FRONTLINE PLUS CATS (FL) (batch number is unknown, Aug 2019, topical, btw the shoulder blades), applied by the reporter, on 5 Dec 2018 (first administration), for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. The environment has not been treated. TPC case reported on GoTrack (PRID 347165; same patient and product). No further information is available.
18-Dec-2018	UAE; 18BR008254; SP; Brazil	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 50 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Dec-2018	18-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kaka, a female Labrador Retriever of 4 years old and 50 kg, received FRONTLINE PLUS DOGS XL (FL) (016/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter, on 3 Dec 2018 (first administration), for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks . Tick infestation was seen 6 months prior to FL application. There are 2 dogs on the same household that were simultaneously treated with NEXGARD with no issue. The environment has been treated with Butox. No further information is available.
18-Dec-2018	UAE; 18BR008259; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	18-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sushi, a male mixed breed cat of 8 months old and 4 kg, was treated with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 20 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. FL is applied only when the owner sees fleas on her pet (dose frequency is unknown and first application was not provided - 1 Jul 2018 chosen at random). No further information is expected.
18-Dec-2018	UAE; 18BR008264; -; Brazil	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	N/A	18-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female cat of unknown signalment received one vial of FRONTLINE CATS (FL) (unsubstantiated) (lot and exp date are unknown, 'according to leaflet instructions'), applied by the reporter 'less than one month' (1 Dec 2018 - chosen at random), for flea/tick prevention. Lack of efficacy is suspected because the pet

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		Age: - **Weight:** Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					is infested by fleas. There is no information about the environmental treatment. No further information is known.
19-Dec-2018	UAE; 18BR008265; SC; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2018	19-Dec-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chico, a male Lhasa Apso of 3 years old and 9 kg, received, for the first time, one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Nov 2018, for flea prevention. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar case reported on 18BR008266. The owner used to apply FL SPOT-ON monthly with no issue. No further information is expected.
19-Dec-2018	UAE; 18BR008266; SC; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2018	19-Dec-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bento, a male Lhasa Apso of 5 years old and 9 kg, received, for the first time, one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 30 Nov 2018, for flea prevention. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar case reported on 18BR008265. The owner used to apply FL SPOT-ON monthly with no issue. No further information is expected.
19-Dec-2018	UAE; 18BR008269; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	19-Dec-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Slin, a male mixed breed cat of 4 years old and 5 kg, received one vial of FRONTLINE PLUS CATS (FL) (002/18A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 11 Dec 2018, for flea prevention. Lack of efficacy is suspected because Slin is scratching himself and the owner believes that he has fleas. In addition, he has flea allergy dermatitis. Environment treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). Similar case reported on 18BR008270. No further information is expected.
19-Dec-2018	UAE; 18BR008270; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Jan-2018*	19-Dec-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female medium crossbred dog of 10 years old and 18 kg, received one vial of FRONTLINE PLUS DOG M (FL) (028/17, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 11 Dec 2018, for flea treatment. Lack of efficacy is suspected because Julie is scratching herself and the owner believes that she has fleas. In addition, she has flea allergy dermatitis. Environment treated with an unknown product. FL has been applied monthly since date not specified (1 Jan 2017 -

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						Cutaneous **Was the product used ok?:** Yes					chosen at random). Similar case reported on 18BR008269. No further information is expected.
19-Dec-2018	UAE; 18BR008272; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	19-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cindy, a female crossbred cat of 9 years old and 2 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 12 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with Butox®. No further information is available.
19-Dec-2018	UAE; 18BR008275; SP; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	18-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pit, a male Lhasa Apso of 2 years old and 7 kg, received FRONTLINE PLUS DOG S (FL) (007/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 15 Dec 2018 for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas during an outdoor walk. It is unknown if FL was used in the past. The environment has not been treated. No further information is available.
19-Dec-2018	UAE; 18BR008279; PR; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 2.3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	19-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maylon, a male Yorkshire of 5 years old and 2.3 kg, was treated with FRONTLINE SPRAY (FL) (010/17a, unknown exp date, topical, whole body), applied by the reporter on 4 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied monthly since date not specified (1 Jan 2017 - chosen at random). No further information is expected.
17-Dec-2018	UAE; 18BR008286; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	03-Dec-2017*	17-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Chiquinho, a male Domestic Shorthair cat (crossbred) of 4 years old and 4.5 kg, received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter, on a date not specified (3 Dec 2018 – estimated date), for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so FL was applied again on 18 Dec 2018 and the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Dec 2017 – chosen at random). The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). The environment has been treated with an unknown product. Similar cases reported on 18BR007362, 18BR008287, 18BR008288, 18BR008289 and 18BR008290. No further information is available.

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17-Dec-2018	UAE; 18BR008287; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	03-Dec-2017*	17-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Brama, a male Domestic Shorthair cat (crossbred) of 2 years old and 5.5 kg, received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter, on a date not specified (3 Dec 2018 – estimated date), for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so FL was applied again on 18 Dec 2018 and the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Dec 2017 – chosen at random). The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). The environment has been treated with an unknown product. Similar cases reported on 18BR007362, 18BR008286, 18BR008288, 18BR008289 and 18BR008290. No further information is available.
17-Dec-2018	UAE; 18BR008288; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	03-Dec-2017*	17-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Floquinho, a male Domestic Shorthair cat (crossbred) of 10 years old and 5.5 kg, received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter, on a date not specified (3 Dec 2018 – estimated date), for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so FL was applied again on 18 Dec 2018 and the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Dec 2017 – chosen at random). The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). The environment has been treated with an unknown product. Similar cases reported on 18BR007362, 18BR008286, 18BR008287, 18BR008289 and 18BR008290. No further information is available.
17-Dec-2018	UAE; 18BR008289; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	03-Dec-2017*	17-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lana, a female Domestic Shorthair cat (crossbred) of 9 years old and 4.5 kg, received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter, on a date not specified (3 Dec 2018 – estimated date), for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so FL was applied again on 18 Dec 2018 and the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Dec 2017 – chosen at random). The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). The environment has been treated with an unknown product. Similar cases reported on 18BR007362, 18BR008286, 18BR008287, 18BR008288 and 18BR008290. No further information is available.
17-Dec-2018	UAE; 18BR008290; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	03-Dec-2017*	17-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Marrie, a female Domestic Shorthair cat (crossbred) of 8 years old and 3.5 kg, received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter, on a date not specified (3 Dec 2018 – estimated date), for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so FL was applied again on 18 Dec 2018 and the cat remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Dec 2017 – chosen at

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						ok?: No (Treatment / vaccination program not respected)					random). The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). The environment has been treated with an unknown product. The reporter used only 1 vial of FL to administered twice in all animals (total 100 ML to 47 kg - low dose). Similar cases reported on 18BR007362, 18BR008286, 18BR008287, 18BR008288 and 18BR008289. No further information is available.
19-Dec-2018	UAE; 18BR008292; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	22-Nov-2018	1 Day(s)	D-C	Suspected Adverse Event: As reported by the pet owner, Nina, a neutered female medium crossbred dog of 2 years old and 16 kg, received FRONTLINE PLUS DOG M (FL) (028/17, exp date unknown, topical, btw the shoulder blades), applied by the reporter on 21 Nov 2018 for flea and tick prevention. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jan 2018 chosen at random). One day after product administration the animal experienced allergic reaction and intense itching. The animal was treated with 20 mg of prednisone for 5 days by the attending veterinarian. Signals recurred after treatment and are still ongoing. No further information is available.
19-Dec-2018	UAE; 18BR008293; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Nov-2018	19-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Boris, a male small crossbred dog of 18 months old and 6 kg, was treated, for the first time, with one vial of FRONTLINE (unsubstantiated) (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 30 days ago (19 Nov 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. No further information is expected.
19-Dec-2018	UAE; 18BR008294; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	30-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nininha, a female crossbred cat of 8 years old and 6 kg, received FRONTLINE SPOT-ON CAT (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by a family member on 30 Oct 2018 for flea treatment. Another application of FL (021/17B, exp date unknown) was made on 30 Nov 2018. Lack of efficacy is suspected because the pet still has fleas . FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2017 chosen at random). The environment has been treated with Butox®. No further information is available.
19-Dec-2018	UAE; 18BR008295; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	05-Dec-2018	19-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one female dog of unknown signalment was treated with FRONTLINE PLUS DOG (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter 2 weeks ago (5 Dec 2018), for flea treatment. Lack of efficacy is suspected because the owner noticed fleas 1 after product application. This is the extent of the information available. UPDATE 20 DEC 2018 - Eliza, a female small crossbred dog of 1 year old and 8 kg, received, for the first time, one vial of FRONTLINE PLUS DOG S (FL) (topical, neck). The owner still sees fleas on her pet. Environment not treated. Eliza has flea allergy dermatitis and she

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					is scratching herself due to fleas. No further information is expected.
20-Dec-2018	UAE; 18BR008301; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	20-Dec-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Hugo, a male small crossbred dog of 14 years old and 9 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 20 Nov 2018 for flea treatment. Lack of efficacy is suspected because she continues to see fleas and flea feces on her pet. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2015 chosen at random). The environment has not been treated. No further information is available.
20-Dec-2018	UAE; 18BR008304; MG; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	20-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one Pomeranian of 4 months old (other signalment is unknown) was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter on 13 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. This is the extent of the information available.
20-Dec-2018	UAE; 18BR008306; PR; Brazil	**Species:** Canine **Breed:** Retriever Labrador **Sex:** X **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 25 kg	5	5	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 5 Labrador Retrievers of 8 to 10 years old and approximately 25 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck to tail) for the first time, administered by the reporter on date not specified (1 Oct 2018 - estimated date) for flea treatment. Weekly applications of FL were made until the end of November (30 Nov 2018 - estimated date). Lack of efficacy is suspected because the owner continues to see fleas on her pets. Similar cases reported on 18BR008307 to 18BR008310. The environment has been treated with unknown product. No further information is available.
20-Dec-2018	UAE; 18BR008307; PR; Brazil	**Species:** Canine **Breed:** Bull Terrier **Sex:** X **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 8 kg*	6	6	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	01-Oct-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 6 Bull Terriers of approximately 8 years old and approximately 8 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck to tail) for the first time, administered by the reporter on date not specified (1 Oct 2018 - estimated date) for flea treatment. Weekly applications of FL were made until the end of November (30 Nov 2018 - estimated date). Lack of efficacy is suspected because the owner continues to see fleas on her pets. Similar cases reported on 18BR008306 and 18BR008308 to 18BR008310. The environment has been treated with unknown product. No further information is available.

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						program not respected)					
20-Dec-2018	UAE; 18BR008308; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 10 kg*	4	4	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 4 female small crossbred dogs of approximately 8 years old and approximately 10 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck to tail) for the first time, administered by the reporter on date not specified (1 Oct 2018 - estimated date) for flea treatment. Weekly applications of FL were made until the end of November (30 Nov 2018 - estimated date). Lack of efficacy is suspected because the owner continues to see fleas on her pets. Similar cases reported on 18BR008306, 18BR008307, 18BR008309 and 18BR008310. The environment has been treated with unknown product. No further information is available.
20-Dec-2018	UAE; 18BR008309; PR; Brazil	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one male large crossbred dog of 8 years old and 40 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck to tail) for the first time, administered by the reporter on date not specified (1 Oct 2018 - estimated date) for flea treatment. Weekly applications of FL were made until the end of November (30 Nov 2018 - estimated date). Lack of efficacy is suspected because the owner continues to see fleas on her pet. Similar cases reported on 18BR008306 to 18BR008308 and 18BR008310. The environment has been treated with unknown product. No further information is available.
20-Dec-2018	UAE; 18BR008310; PR; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 7 - 8 kg	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Oct-2018*	02-Oct-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, two male crossbred cats of 1 year old and 7 to 8 kg, received FRONTLINE SPRAY (FL) (015/16, exp date 30 Nov 2018, topical, neck to tail) for the first time, administered by the reporter on date not specified (1 Oct 2018 - estimated date) for flea treatment. Weekly applications of FL were made until the end of November (30 Nov 2018 - estimated date). Lack of efficacy is suspected because the owner continues to see fleas on her pets. Similar cases reported on 18BR008306 to 18BR008309. The environment has been treated with unknown product. No further information is available.
20-Dec-2018	UAE; 18BR008316; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Jan-2018*	20-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Piquenes, a male medium crossbred dog of 4 years old and 13 kg, received FRONTLINE PLUS DOG M (FL) (0228/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 30 Nov 2018 for flea treatment. Lack of efficacy is suspected because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at

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		Weight: 13 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					random). Similar case reported on 18BR008317. The environment has been treated with Butox®. No further information is available.
20-Dec-2018	UAE; 18BR008317; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	20-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female medium crossbred dog of 6 years old and 12 kg, received FRONTLINE PLUS DOG M (FL) (0228/17, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 30 Nov 2018 for flea treatment. Lack of efficacy is suspected because she continues to see fleas on her pet. FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). Similar case reported on 18BR008316. The environment has been treated with Butox®. No further information is available.
20-Dec-2018	UAE; 18BR008324; PR; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** 10 kg	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Aug-2018*	20-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Gaus, a male crossbred dog of 8 months old and 10 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 6 Dec 2018, for ectoparasite prevention. Lack of efficacy is suspected because the owner visualizes live fleas on the pet. FL has been administered in the past with no issue (dose frequency is unknown) and the first administration date was not provided (6 Aug 2018 – chosen at random). There is another dog of the same household that also received FL with no issue . The environment has been treated with an unknown product. No further information is expected.
19-Dec-2018	UAE; 18BR008325; SP; Brazil	**Species:** Canine **Breed:** English Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 1.10 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	19-Dec-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner via e-mail, Barto, a male English Bulldog of 1 year and 1 month old and 22 kg, received an unknown dose of FRONTLINE SPRAY (100 ml) (010/17, exp date is unknown, topical, whole body), applied by the owner, on 18 Dec 2018, for an unknown reason. Approximately one day after product administration (it is unknown how many hours later), the dog presented with the belly, legs and armpits ' skin injured. It is unknown if Barto has already been taken to the vet and its current status is also unknown. It is unknown if FL has been administered in the past. This is the extent of information available for now.
20-Dec-2018	UAE; 18BR008330; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2017*	01-Jul-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Orion, a male Shih Tzu of 7 years old and 5 kg, was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (25 Jun 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet had fleas. Environment treated with Arraze®. FL was applied every week since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR008331, 18BR008332 and 18BR008333. There is another dog in this household that is not known if it was treated. The owner also complained about the lack of efficacy of NEXGARD (see cases 18BR008326, 18BR008327, 18BR008328 and 18BR008329). No further information is expected.

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20-Dec-2018	UAE; 18BR008331; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2017*	01-Jul-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Morgana, a female Yorkshire of 7 years old and 4.5 kg, was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (25 Jun 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet has fleas. Environment treated with Arraze®. FL was applied every week since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR008330, 18BR008332 and 18BR008333. There is another dog in this household that is not known if it was treated. The owner also complained about the lack of efficacy of NEXGARD (see cases 18BR008326, 18BR008327, 18BR008328 and 18BR008329). No further information is expected.
20-Dec-2018	UAE; 18BR008332; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2.4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2017*	01-Jul-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Boris, a male Yorkshire of 9 years old and 2.4 kg, was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (25 Jun 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet had fleas. Environment treated with Arraze®. FL was applied every week since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR008330, 18BR008331 and 18BR008333. There is another dog in this household that is not known if it was treated. The owner also complained about the lack of efficacy of NEXGARD (see cases 18BR008326, 18BR008327, 18BR008328 and 18BR008329). No further information is expected.
20-Dec-2018	UAE; 18BR008333; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 3.2 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2017*	01-Jul-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bidu, a male Yorkshire of 9 years old and 3.2 kg, was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (25 Jun 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet had fleas. Environment treated with Arraze®. FL was applied every week since date not specified (1 Jan 2017 - chosen at random). Similar cases reported on 18BR008330, 18BR008331 and 18BR008332. There is another dog in this household that is not known if it was treated. The owner also complained about the lack of efficacy of NEXGARD (see cases 18BR008326, 18BR008327, 18BR008328 and 18BR008329). No further information is expected.
20-Dec-2018	UAE; 18BR008334; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Dec-2017*	09-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobias, a male Shih Tzu of 3 years old and 7 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, on 6 Dec 2018, for flea treatment. Lack of efficacy is suspected because the animal remains with live fleas. FL has been administered in the past with no issue (dose frequency unknown) and the first administration date was not provided (6 Dec 2017 – chosen at random). The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008336; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various	1	1	0	**Product used:** FIPRONIL SPRAY	10-Dec-2018	20-Dec-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leia, a female crossbred cat of 5 months old and 2 kg, received FRONTLINE SPRAY (FL) (010/17A, exp date unknown, topical,

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		breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 2 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					whole body) for the first time, administered by the reporter on 10 Dec 2018 for flea treatment. Another application of FL was made on 20 Dec 2018. Lack of efficacy is suspected because the owner continues to see fleas on her pet. The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008343; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 3.4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	21-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sami, a female Yorkshire of 3.4 kg and unknown age, was treated with one vial of FRONTLINE SPOT-ON DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 25 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. It is unknown if FL has previously been applied. No further information is expected.
20-Dec-2018	UAE; 18BR008344; -; Brazil	**Species:** Canine **Breed:** Rottweiler **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	19-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, 2 Rottweiler dogs of unknown signalment received FRONTLINE PLUS DOGS XL (FL) (lot, exp date, route and location are unknown), applied by the reporter on a date not specified (5 Dec 2018 – estimated date), for flea treatment. Lack of efficacy is suspected because the owner dogs remain with fleas . It is unknown if the environment has been treated and whether FL has been administered in the past. This is the extent of information available for now.
21-Dec-2018	UAE; 18BR008346; SP; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-Nov-2018	21-Dec-2018*	24 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nick, a male Siamese of 4 kg and unknown age, was treated, for the first time, with FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 27 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
21-Dec-2018	UAE; 18BR008347; SP; Brazil	**Species:** Canine **Breed:** Border Collie **Sex:** F	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	28-Nov-2018	18-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Shakira, a female Border Collie of 1 year old and 15 kg, received FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 1.00 Year(s) **Weight:** 15 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the reporter on 28 Nov 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. The environment has not been treated. No further information is available.
20-Dec-2018	UAE; 18BR008349; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	17-Dec-2018*	4 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Julie, a female medium crossbred dog of 3 years old and 13 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet has flea allergy dermatitis. Environment treated with Carrapatex®. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). Similar case reported on 18BR008351. On 20 Dec 2018, the owner reported a SAE case reported on 18BR008350. No further information is expected.
20-Dec-2018	UAE; 18BR008350; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	01-Dec-2018*	16 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Julie, a female medium crossbred dog of 3 years old and 13 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 Nov 2018, for flea treatment. On date not specified, the owner noticed that Julie is presenting application site hair change (is getting darker) and skin lesion. FL was applied in the past with no issue (dose frequency is unknown and first application was not provided - 1 Jan 2017 chosen at random). SLOE cases reported on 18BR008349 and 18BR008351. No further information is expected.
20-Dec-2018	UAE; 18BR008351; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	17-Dec-2018*	4 Week(s) 4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Flor, a female medium crossbred dog of 3 months old and 16 kg, received one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter around 15 Nov 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Carrapatex®. It is unknown if FL was previously applied on this puppy. Similar case reported on 18BR008349. SAE case reported on 18BR8350. No further information is expected.
21-Dec-2018	UAE; 18BR008356; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Jan-2018*	21-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Polaca, a female Lhasa Apso of 1.5 years old and 4 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 14 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency - every 6 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has been treated with K-Othrine®. No further

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						product used ok?: Yes					information is available.
20-Dec-2018	UAE; 18BR008357; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner via BI distributor, Preto, a male Domestic Shorthair cat (crossbred) of 1 year old and 4 kg, received an unknown dose of FRONTLINE SPRAY (100 ML) (FL) (002/18A, Jun 2020, topical, whole body), administered by the reporter, on 15 Dec 2018 (first administration), for an unknown reason. Three days after product administration, the cat presented with multiple cutaneous lesions and itching on its face and limbs. The reported signs are still ongoing. It is unknown if the animal has been taken to the vet or whether any treatment has been provided. According to the owner, the cat was in good health prior to FL administration. Three pictures were received. Similar case reported on 18BR008358. No further information is available. UPDATE 26 Dec 2018 - The pet owner informed that Preto received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pet was in good health prior to FL. One week after product administration the animal experienced desquamation at the nose region, belly and paws, itching and hair loss. The veterinarian believes in a reaction to FL and prescribed a specific shampoo for treatment. Signals are still ongoing. Related cases reported on 18BR008422 to 18BR008431. No further information is expected.
20-Dec-2018	UAE; 18BR008358; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Dec-2018	18-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner via BI distributor, Rex, a male crossbred dog of 1 year old and 10 kg, received an unknown dose of FRONTLINE SPRAY (100 ML) (FL) (002/18A, Jun 2020, topical, whole body), administered by the reporter, on 15 Dec 2018 (first administration), for an unknown reason. Three days after product administration, the dog presented with cutaneous lesions and itching on its face and limbs. The reported signs are still ongoing. It is unknown if the animal has been taken to the vet or whether any treatment has been provided. According to the owner, the dog was in good health prior to FL administration. One picture was received. Similar case reported on 18BR008357. No further information is available. UPDATE 26 Dec 2018 - The pet owner informed more animals than related cases reported on 18BR008422 to 18BR008431. No further information is expected.
21-Dec-2018	UAE; 18BR008362; RJ; Brazil	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 3.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	21-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Belinha, a female Poodle of 7 years old and 3.1 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 7 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency - every 3 months, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008365;	**Species:** Canine **Breed:** Shih Tzu	1	1	0	**Product used:** FIPRONIL	01-Jun-2018*	21-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Aisha, a female Shih Tzu of 7 months old and 6 kg, received

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	SP; Brazil	**Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 6 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					FRONTLINE PLUS DOG S (FL) (007/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jun 2018 chosen at random). Similar case reported on 18BR008366. The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008366; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 19.00 Month(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	21-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Sofi, a female Shih Tzu of 19 months old and 7 kg, received FRONTLINE PLUS DOG S (FL) (007/18A, exp date unknown, topical, btw the shoulder blades), administered by the reporter on 6 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jun 2018 chosen at random). Similar case reported on 18BR008365. The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008367; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 19 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Dec-2018	21-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet onwer, Lisa, a female medium crossbred dog of 5 years old and 19 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOGS M (FL) (024/17a, Nov 2019, topical, btw the shoulder blades), applied by the reporter 2 days ago (19 Dec 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. Similar cases reported on 18BR008368 and 18BR008369. No further information is expected.
21-Dec-2018	UAE; 18BR008368; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Dec-2018	21-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet onwer, Barti, a male medium crossbred dog of 5 years old and 16 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (024/17a, Nov 2019, topical, btw the shoulder blades), applied by the reporter 2 days ago (19 Dec 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. Similar cases reported on 18BR008367 and 18BR008369. No further information is expected.
21-Dec-2018	UAE; 18BR008369; RJ; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Month(s)	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	19-Dec-2018	21-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet onwer, Maikon, a male medium crossbred dog of 16 months old and 13 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG M (FL) (024/17a, Nov 2019, topical, btw the shoulder blades), applied by the reporter 2 days ago (19 Dec 2018), for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment treated with Butox®. Similar cases reported on 18BR008367 and 18BR008369. No further information is expected.

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		Weight: 13 kg				**product used ok?:** Yes					
21-Dec-2018	UAE; 18BR008370; SC; Brazil	**Species:** Canine **Breed:** Chowchow **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Dec-2018	21-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tobi, a male Chow Chow of 2 months old and 3 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the veterinarian on 6 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. There is another dog living in this household and it is unknown if he was treated. The environment has not been treated. No further information is available.
21-Dec-2018	UAE; 18BR008373; MG; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	21-Dec-2018*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the retail store staff member, one dog of unknown signalment was treated with FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by unknown person on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the dog still has fleas . This is the extent of the information available.
21-Dec-2018	UAE; 18BR008374; -; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Jan-2017*	21-Dec-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Frida, a female crossbred dog of 5 years old and 12 kg, received one dose of FRONTLINE PLUS DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 26 Nov 2018, for flea treatment. Lack of efficacy is suspected because the dog remains with live fleas. Flea infestation was seen 1 week prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (26 Jan 2017 – chosen at random). The environment has not been treated. This is the extent of information available for now.
21-Dec-2018	UAE; 18BR008375; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Month(s) **Weight:** 0.3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	20-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Bebe, a male crossbred cat of 1.5 months old and 0.3 kg, received FRONTLINE SPRAY (FL) (003/17, exp date, route and application site unknown), applied by the reporter on 20 Dec 2018. Some time after product administration the animal experienced vomiting, lethargy and decreased appetite. Emesis was reported on 20 and 21 Dec 2018, however it is unknown how many episodes occurred and if it is still ongoing. Other signals are still ongoing. No further information is available.
21-Dec-2018	UAE; 18BR008376;	**Species:** Canine **Breed:** Border	1	1	0	**Product used:** FIPRONIL	03-Dec-2018	21-Dec-2018*	18 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nina, a female Border Collie of 7 months old and 11 kg, was

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	MG; Brazil	Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 11 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					treated, for the first time, with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades, low dose), applied by the reporter on 3 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. No further information is expected.
21-Dec-2018	UAE; 18BR008377; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.10 Year(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	21-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Thor, a male small crossbred dog of 4.1 years old and 7.5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by a retail shop staff member on 17 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas . FL was used in the past with no issue (dose frequency - monthly, date of first administration was not provided - 1 Jan 2018 chosen at random). The environment has not been treated. No further information is available.
22-Dec-2018	UAE; 18BR008384; SP; Brazil	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Dec-2018	22-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one female Persian of unknown signalment, received FRONTLINE PLUS CATS (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on date not informed (20 Dec 2018 - chosen at random) for flea treatment. Lack of efficacy is suspected because the pet still has fleas . This is the extent of the information available. UPDATE 26 DEC 2018 - Princesa, a female Persian of 8 years old and 3.5 kg, received, for the first time, one vial of FL, applied one week ago (19 Dec 2018). The owner continues to see fleas on his pet. Environment not treated. No further information is expected.
22-Dec-2018	UAE; 18BR008386; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jun-2013*	30-Sep-2018*	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment, received FRONTLINE PLUS DOGS (FL) (unsubstantiated) (lot, exp date, route and application site unknown), administered by the reporter on date not specified (22 Sep 2018 - estimated date) for flea and tick prevention. Lack of efficacy is suspected because she started to see fleas and ticks on her pet. FL was used in the past with no issue (dose frequency is unknown and date of first administration was not provided - 1 Jun 2013 chosen at random). This is the extent of the information available.
23-Dec-2018	UAE; 18BR008387; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	21-Nov-2018	01-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Otto, a male Shih Tzu of 8 months old and 5 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by

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		Unknown **Age:** 8.00 Month(s) **Weight:** 5 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the reporter on 21 Nov 2018 for flea and tick prevention. Lack of efficacy is suspected because the pet got fleas and developed flea allergy dermatitis. Otto is under treatment with Clorestem® and prednisone for flea allergy dermatitis and currently has no fleas. The environment has not been treated. No further information is available.
24-Dec-2018	UAE; 18BR008399; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Dec-2017*	24-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Francisco, a male Shih Tzu of 3 years old and 12 kg, received FRONTLINE PLUS DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 11 Dec 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with live ticks. Tick infestation was seen 1 month prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (11 Dec 2017 - chosen at random). The environment has been treated with Pulgoff®. No further information is available.
26-Dec-2018	UAE; 18BR008414; SP; Brazil	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Dec-2018	26-Dec-2018*	19 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theo, a male French Bulldog of 11 months old and 10 kg, was treated, for the first time, with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, whole body), applied by the reporter on 7 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with deltamethrin. No further information is expected.
26-Dec-2018	UAE; 18BR008422; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	06-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pandora, a female small crossbred dog of 1 year old and approximately 6.5 kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on his pet. Related cases reported on 18BR008357 and 18BR008423 to 18BR008431. The environment has been treated with Butox®. No further information is available.
26-Dec-2018	UAE; 18BR008423; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical /	05-Dec-2018*	06-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mel, a female small crossbred dog of 10 kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on his pet. Related cases reported on 18BR008357, 18BR008422

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: - **Weight:** 10 kg*				Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					and 18BR008424 to 18BR008431. The environment has been treated with Butox®. No further information is available.
26-Dec-2018	UAE; 18BR008424; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	06-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Prejuízo, a male small crossbred dog of 1 year old and approximately 6.5 kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on his pet. Related cases reported on 18BR008357, 18BR008422, 18BR008423 and 18BR008425 to 18BR008431. The environment has been treated with Butox®. No further information is available.
26-Dec-2018	UAE; 18BR008425; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	10	10	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	06-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 10 male cats of 3 to 18 months old, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on his pets. Related cases reported on 18BR008357, 18BR008422 to 18BR008424 and 18BR008426 to 18BR008431. The environment has been treated with Butox®. No further information is available.
26-Dec-2018	UAE; 18BR008426; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	06-Dec-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 4 female crossbred cats of 5 to 24 months old, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. Lack of efficacy is suspected because the owner continues to see fleas on his pets. Related cases reported on 18BR008357, 18BR008422 to 18BR008425 and 18BR008427 to 18BR008431. The environment has been treated with Butox®. No further information is available.
26-Dec-2018	UAE; 18BR008427;	**Species:** Canine **Breed:** Small	1	1	0	**Product used:** FIPRONIL	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Pandora, a female small crossbred dog of 1 year old and approximately 6.5

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	SP; Brazil	crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6.5 kg				SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pet was in good health prior to FL. One week after product administration the animal experienced desquamation at the nose region and itching. Signals are still ongoing. Related cases reported on 18BR008357, 18BR008422 to 18BR008426 and 18BR008428 to 18BR008431. No further information is available.
26-Dec-2018	UAE; 18BR008428; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Mel, a female small crossbred dog of 10 kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pet was in good health prior to FL. One week after product administration the animal experienced desquamation at the nose region and itching. Signals are still ongoing. Related cases reported on 18BR008357, 18BR008422 to 18BR008427 and 18BR008429 to 18BR008431. No further information is available.
26-Dec-2018	UAE; 18BR008429; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Prejuízo, a male small crossbred dog of 1 year old and approximately 6.5 kg, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pet was in good health prior to FL. One week after product administration the animal experienced desquamation at the nose region and itching. Signals are still ongoing. Related cases reported on 18BR008357, 18BR008422 to 18BR008428, 18BR008430 and 18BR008431. No further information is available.
26-Dec-2018	UAE; 18BR008430; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	8	8	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner, 8 cats of 3 to 24 months old, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pet was in good health prior to FL. One week after product administration the animal experienced desquamation at the nose region and itching. Signals are still ongoing. Related cases reported on 18BR008357, 18BR008422 to 18BR008429 and 18BR008431. No further information is available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						program not respected)					
26-Dec-2018	UAE; 18BR008431; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	5	5	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	05-Dec-2018*	12-Dec-2018*	1 Week(s)	D-D	Suspected Adverse Event: As reported by the pet owner, 5 male cats of 4 to 18 months old, received FRONTLINE SPRAY (FL) (002/18A, exp date 30 Jun 2020, topical, back and belly) for the first time, administered by a family member on date not specified (5 Dec 2018 - estimated date) for flea treatment. The pets were in good health prior to FL. One week after product administration the animals experienced desquamation at the nose region, belly and paws, itching and hair loss. Signals are still ongoing. Related cases reported on 18BR008357 and 18BR008422 to 18BR008430. No further information is available.
26-Dec-2018	UAE; 18BR008433; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mingau, a male mixed breed cat of 6 years old and 6.5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (023/17A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008434 to 18BR008438. No further information is expected.
26-Dec-2018	UAE; 18BR008434; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lucky, a male mixed breed cat of 2 years old and 4 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (023/17A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008433, 18BR008435 to 18BR008438. No further information is expected.
26-Dec-2018	UAE; 18BR008435; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lui, a male mixed breed cat of 2 years old and 4 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON CATS (023/17A, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008433, 18BR008434, 18BR008436 to 18BR008438. No further information is expected.
26-Dec-2018	UAE; 18BR008436; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bianca, a female Shih Tzu of 12 years old and 3 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (018/17B, unknown exp date, topical, btw the shoulder blades),

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		Unknown **Age:** 12.00 Year(s) **Weight:** 3 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008433 to 18BR008435, 18BR008437 and 18BR008438. No further information is expected.
26-Dec-2018	UAE; 18BR008437; SP; Brazil	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Cacau, a female Pekingese of 12 years old and 5.5 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (018/17B, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008433 to 18BR008436 and 18BR008438. No further information is expected.
26-Dec-2018	UAE; 18BR008438; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Dec-2018	26-Dec-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Zara, a female small crossbred dog of 4 months old and 8 kg, was treated, for the first time, with one vial of FRONTLINE SPOT-ON DOG S (018/17B, unknown exp date, topical, btw the shoulder blades), applied by the reporter on 20 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. Similar cases reported on 18BR008433 to 18BR008437. No further information is expected.
26-Dec-2018	UAE; 18BR008439; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Dec-2017*	26-Dec-2018*	16 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tom, a male Domestic Shorthair cat (crossbred) of 3 years old and 4.7 kg, received one vial of FRONTLINE PLUS CATS (FL) (lot and exp unknown, topical, btw the shoulder blades), applied by the reporter, approximately on 10 Dec 2018 (estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first application date was not provided (10 Dec 2017 – chosen at random). The environment has been treated with Butox®. No further information is expected.
26-Dec-2018	UAE; 18BR008444; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 8.9 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	N/A	26-Dec-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Suquinho, a male Shih Tzu of 2 years old and 8.9 kg, received FRONTLINE SPRAY 100 ml (FL) (006/17, topical, btw the shoulders and back), applied by the reporter, on 5 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL has been applied in the past. The environment has not been treated. Similar case reported on 18BR008445. No further information is expected.

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26-Dec-2018	UAE; 18BR008445; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 1 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	N/A	26-Dec-2018*	3 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Coraline, a female Domestic Shorthair cat (crossbred) of 5 months old and 1 kg, received FRONTLINE SPRAY 100 ml (FL) (006/17, topical, btw the shoulders and back), applied by the reporter, on 5 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. It is unknown if FL has been applied in the past. The environment has not been treated. Similar case reported on 18BR008444. No further information is expected.
25-Dec-2018	UAE; 18BR008446; SP; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2018*	25-Dec-2018	22 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Toddy, a male Yorkshire Terrier of 7 months old and 3.5 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 3 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Flea infestation was seen around 1 week prior to FL application. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (3 Aug 2018 – chosen at random). The environment has not been treated. No further information is available.
27-Dec-2018	UAE; 18BR008456; MG; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-May-2018*	20-Nov-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Alex, a male Pinscher of 8 years old and 3 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades), administered by the reporter on 15 Nov 2018 for tick treatment. Lack of efficacy is suspected because the pet still has ticks. FL was used once in the past with no issue (15 May 2018 - estimated date). The environment has not been treated. No further information is available.
26-Dec-2018	UAE; 18BR008457; MG; Brazil	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	26-Dec-2018*	25 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via e-mail, one Poodle of 16 years old (other signalment is unknown) was treated with FRONTLINE PLUS (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available. UPDATE 31 DEC 2018 - The owner was contacted and reported that Squin, a male Poodle of 16 years old and 6 kg, received one vial of FRONTLINE PLUS DOG S (FL), applied topical, btw the shoulder blades, applied by the reporter on 22 Nov 2018, for flea treatment. The pet remains with fleas. Environment not treated. FL was applied in the past, but the dose frequency is unknown and the first application was not provided - 1 Jan 2017 chosen at random. No further information is expected.
27-Dec-2018	UAE; 18BR008458;	**Species:** Feline **Breed:** Siamese	1	1	0	**Product used:** FIPRONIL SPOT	22-Dec-2017*	27-Dec-2018*	5 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nico, a male Siamese cat of 4 years old and 3 kg, received one

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	SP; Brazil	**Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 3 kg				ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					vial of FRONTLINE SPOT-ON CATS (FL) (012/18A, exp date is unknown, topical, btw the shoulder blades), applied by the reporter, on 22 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Flea infestation was seen 1 month prior to FL application. FL has been administered in the past with no issue (dose frequency every 2 months) and the first application date was not provided (22 Dec 2017 – chosen at random). The environment has not been treated. No further information is expected.
26-Dec-2018	UAE; 18BR008460; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	26-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, one dog of unknown signalment received FRONTLINE (unsubstantiated) (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for tick treatment. Lack of efficacy is suspected because the pet is infested by ticks. This is the extent of the information available.
26-Dec-2018	UAE; 18BR008472; SP; Brazil	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	10-Dec-2018	26-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, Biscoito, a male Pit Bull of 3 months old and 5 kg, was treated with FRONTLINE SPRAY (FL) (003/17, Jan 2019, topical, parts of the body), applied by the reporter on 10 Dec 2018 and 24 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated weekly with Butox and Triatox®. There are two more dogs in this household that were treated with FRONTLINE SPOT-ON and they have no issue. No further information is expected.
27-Dec-2018	UAE; 18BR008473; SP; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Dec-2018	27-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Mily, a female Domestic Shorthair cat (crossbred) of 4 years old and 4 kg, received FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 14 Dec 2018 (first administration), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Flea infestation was seen 1 month prior to FL application. The environment has been treated with Butox®. Similar case reported on 18BR008474. No further information is available.
27-Dec-2018	UAE; 18BR008474; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	14-Dec-2018	27-Dec-2018	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Baby, a female Shih Tzu of 4 years old and 6 kg, received FRONTLINE PLUS DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 14 Dec 2018 (first administration), for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. Flea infestation was seen 1 month prior to FL application. The environment has been treated with Butox®. Similar case reported

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					on 18BR008473. No further information is available.
27-Dec-2018	UAE; 18BR008478; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Dec-2018	20-Dec-2018*	2 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Lisa, a female medium crossbred dog of 5 months old and 12 kg, received FRONTLINE PLUS DOG M (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 18 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas . This dog has outdoor access. The environment has been treated with Fleegard® and Asuntol®. No further information is available.
27-Dec-2018	UAE; 18BR008487; MG; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	27-Dec-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Anitta, a female Yorkshire of 5 years old and 7 kg, was treated with one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 15 Dec 2108, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. It is unknown if FL has previously been applied. Similar case reported on 18BR008488. No further information is expected.
27-Dec-2018	UAE; 18BR008488; MG; Brazil	**Species:** Canine **Breed:** Akita **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 27 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	N/A	27-Dec-2018*	12 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Leono, a female Akita of 13 years old and 27 kg, was treated with one vial of FRONTLINE PLUS DOG M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 15 Dec 2108, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. It is unknown if FL has previously been applied. Similar case reported on 18BR008487. No further information is expected.
27-Dec-2018	UAE; 18BR008495; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	14-Dec-2016*	27-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Pan, a female crossbred dog of 10 years old and 13 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 14 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (14 Dec 2016 – chosen at random). The environment has been treated with Butox®. Similar case reported on 18BR008496 and 18BR008497.

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						ok?: Yes					No further information is available.
27-Dec-2018	UAE; 18BR008496; SP; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 14.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Dec-2016*	27-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bob, a male crossbred dog of 7 years old and 14.5 kg, received one vial of FRONTLINE SPOT-ON DOGS M (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter, on 14 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (14 Dec 2016 – chosen at random). The environment has been treated with Butox®. Similar case reported on 18BR008495 and 18BR008497. No further information is available.
27-Dec-2018	UAE; 18BR008497; SP; Brazil	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Dec-2016*	27-Dec-2018*	13 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Preta, a female crossbred dog of 7 years old and 10 kg, received one vial of FRONTLINE SPOT-ON DOGS S (FL) (024/17A, exp date is unknown, topical, btw the shoulder blades), applied by the reporter, on 14 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with live fleas. FL has been administered in the past with no issue (dose frequency is unknown) and the first application date was not provided (14 Dec 2016 – chosen at random). The environment has been treated with Butox®. Similar case reported on 18BR008495 and 18BR008496. No further information is available.
27-Dec-2018	UAE; 18BR008502; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	24-Dec-2018	27-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, 3 cats of unknown signalment were treated with FRONTLINE SPOT-ON (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. This is the extent of the information available. UPDATE 2 JAN 2018 - Salém, a male mixed breed cat of 2 years old and 6 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, back), applied by the reporter on 24 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. Environment treated with deltamethrin. Similar cases reported on 18BR008555 and 18BR008556. No further information is expected.
27-Dec-2018	UAE; 18BR008503; RJ; Brazil	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 850 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	05-Oct-2018*	27-Dec-2018*	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ully, a female Yorkshire of 1 year old and 850 g, was treated with FRONTLINE SPRAY (003/17, Jan 2019, topical, parts of the body), applied by the reporter on 7 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 3 weeks since the first week of October 2018. There are 2 more dogs in this household that were not treated and they have no issue. No further information is expected.
28-Dec-2018	UAE; 18BR008505;	**Species:** Canine **Breed:** Shih Tzu	1	1	0	**Product used:** FIPRONIL	01-Jan-2017*	28-Dec-2018*	3 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Ted, a male Shih Tzu of 6 years old and 8.5 kg, was treated with

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	SP; Brazil	**Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 8.5 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, back), applied by the reporter on 25 Dec 2018, for tick treatment. Lack of efficacy is suspected because the pet remains with ticks. Environment not treated. FL has been applied every 3 months since date not specified (1 Jan 2017 - estimated date). No further information is expected.
28-Dec-2018	UAE; 18BR008508; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Jan-2018*	28-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Flor, a female mixed breed cat of 4 years old and 4 kg, was treated with one vial of FRONTLINE SPOT-ON CATS (FL) (lot and exp date are unknown, topical, head, back and tail) applied by the reporter around 2 months ago (28 Oct 2018 - estimated date) and 2 weeks ago (14 Dec 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. FL has been used in the past with no issue. Environment treated with an unknown product. Similar cases reported on 18BR008510 and 18BR008511. FRONTLINE SPRAY was used in the past with SAE and the case was reported on 18BR008509. Human exposure reported on 18BR00 8512. No further information is expected.
28-Dec-2018	UAE; 18BR008509; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Flor, a female mixed breed cat of 4 years old and 4 kg, was treated with FRONTLINE SPRAY (FL) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Jan 2018 - chosen at random), for flea treatment. After product application, the pet presented with hypersalivation. She recovered on date not specified. SLOE cases reported on 18BR008508, 18BR008510 and 18BR008511. Human exposure reported on 18BR008512. No further information is available.
28-Dec-2018	UAE; 18BR008510; MG; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Oct-2018*	28-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Maria, a female Shih Tzu of 3 months old and 3 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter around 2 months ago (28 Oct 2018 - estimated date) and 2 weeks ago (14 Dec 2018), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with an unknown product. Similar cases reported on 18BR008508 and 18BR008511. SAE case reported on 18BR008509. Human exposure reported on 18BR008512. No further information is expected.
28-Dec-2018	UAE; 18BR008511; MG; Brazil	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg)	1	1	0	**Product used:** FIPRONIL SPRAY **Other products**	28-Oct-2018*	28-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Valentino, a male medium crossbred dog of 6 years old and 15 kg, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, whole body), applied by the reporter around 2

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 15 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					months ago (28 Oct 2018 - estimated date), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas . Environment treated with an unknown product. FL was applied in the past with no issue (first application was not provided - 1 Jan 2017 chosen at random). Similar cases reported on 18BR008508 and 18BR008510. SAE case reported on 18BR008509. Human exposure reported on 18BR008512. No further information is expected.
28-Dec-2018	UAE; 18BR008513; SP; Brazil	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 5.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Dec-2018	28-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Theo, a male Shih Tzu of 1 year old and 5.6 kg, received FRONTLINE PLUS DOG S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 24 Dec 2018 for tick treatment. Lack of efficacy is suspected because the pet still has ticks. The environment has not been treated. No further information is available.
28-Dec-2018	UAE; 18BR008521; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	28-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bili, a male Lhasa Apso of 6 years old and 7 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 13 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 3 months since date not specified (1 Jan 2017 - chosen at random). Similar case reported on 18BR008522. No further information is expected.
28-Dec-2018	UAE; 18BR008522; PR; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	28-Dec-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Kira, a male Lhasa Apso of 7 years old and 6 kg, received one vial of FRONTLINE PLUS DOG S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter 13 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment not treated. FL has been applied every 3 months since date not specified (1 Jan 2017 - chosen at random). Similar case reported on 18BR008521. No further information is expected.
28-Dec-2018	UAE; 18BR008524; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s)	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous	18-Dec-2018	18-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the pet owner, Nala, a female crossbred cat of 13 years old and 4 kg, received FRONTLINE SPOT-ON CAT (FL) (015/17, exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 18 Dec 2018 for flea treatment. Nala was in good health prior to FL. Right after product administration the animal experienced intense itching. Some time later Nala presented skin lesion, erythema and hair loss. The animal was not treated.

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		Weight: 4 kg				**Was the product used ok?:** Yes					Signals are still ongoing. SLOE case reported on 18BR008525. No further information is available.
28-Dec-2018	UAE; 18BR008525; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 13.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Dec-2018	28-Dec-2018*	10 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Nala, a female crossbred cat of 13 years old and 4 kg, received FRONTLINE SPOT-ON CAT (FL) (015/17, exp date unknown, topical, btw the shoulder blades) for the first time, applied by the reporter on 18 Dec 2018 for flea treatment. Lack of efficacy is suspected because the pet still has fleas. SAE case reported on 18BR008524. This is the extent of the information available.
28-Dec-2018	UAE; 18BR008530; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	28-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Flocos, a male mixed breed cat of 2 months old and 800 g, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, unknown location), applied by the reporter on 21 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. It is unknown if FL has previously been applied. Similar case reported on 18BR008531. No further information is expected.
28-Dec-2018	UAE; 18BR008531; SP; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 800 gms	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	28-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Albino, a male mixed breed cat of 2 months old and 800 g, was treated with FRONTLINE SPRAY (FL) (lot and exp date are unknown, topical, unknown location), applied by the reporter on 21 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. It is unknown if FL has previously been applied. Similar case reported on 18BR008530. No further information is expected.
28-Dec-2018	UAE; 18BR008535; SC; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Dec-2018	26-Dec-2018	N/A	D-D	Suspected Adverse Event: As reported by the pet owner, Mel, a female mixed breed cat of 6 years old and 5.5 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, btw the shoulder blades), applied by the reporter on 26 Dec 2018, for flea control. The pet was in good health prior to FL and has no history of adverse reactions. On the same day of application of the product, the animal showed itching. One day later, the pet presented with hair loss and a skin lesion. No vet care was provided. No further information is available.
29-Dec-2018	UAE; 18BR008537; -; Brazil	**Species:** Feline **Breed:** Feline (unknown)	3	3	0	**Product used:** FIPRONIL 10%/S	N/A	15-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 3 cats of unknown signalment were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, application 'according to the

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					product instructions'), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the animals remained with fleas . Another product was applied to eliminate the fleas. There is a dog in this household with the same issue (see case 18BR008538). This is the extent of the information available.
29-Dec-2018	UAE; 18BR008538; -; Brazil	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	15-Dec-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 1 dog of unknown signalment was treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, application 'according to the product instructions'), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the animal remained with fleas . Another product was applied to eliminate the fleas. There are 3 cats in this household with the same issue (see case 18BR008537). This is the extent of the information available.
29-Dec-2018	UAE; 18BR008539; -; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 2 Pomeranian (other signalment is unknown) were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for tick treatment. Lack of efficacy is suspected because the animals remain with ticks . Similar case reported on 18BR008540. This is the extent of the information available.
29-Dec-2018	UAE; 18BR008540; -; Brazil	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, 1 Pomeranian of 3.5 kg (other signalment is unknown) were treated with FRONTLINE (FL) (unsubstantiated) (lot, exp date, route and location are unknown), applied by the reporter on date not specified (1 Dec 2018 - chosen at random), for tick treatment. Lack of efficacy is suspected because the animals remain with ticks . Similar case reported on 18BR008539. This is the extent of the information available.
28-Dec-2018	UAE; 18BR008541; SP; Brazil	**Species:** Canine **Breed:** Pinscher (Miniature) **Sex:** M	1	1	0	**Product used:** FIPRONIL SPRAY **Other products**	27-Dec-2018	28-Dec-2018	1 Day(s)	D-C	Suspected Adverse Event: As reported by the DVM, Bartô, a male Pinscher of 4 months old and 4 kg received FRONTLINE SPRAY 100 ML (FL) (lot and exp date are unknown, topical, whole body), administered by the pet owner, on 27 Dec 2018 (first

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** 4.00 Month(s) **Weight:** 4 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administration), for an unknown reason. Approximately 1 day after product administration, the dog presented with 'neurological symptoms' (vocalization, mydriasis and lack of responsiveness to light). Bartô received propofol and diazepam. No lab tests were performed. The current status of the animal is unknown. According to the DVM, the pet was in good health prior to FL administration and there is no possibility of ingestion or contact with toxic substances. No further information is available.
29-Dec-2018	UAE; 18BR008543; RS; Brazil	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 3.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Nov-2018	31-Dec-2018*	N/A	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Guri, a male Persian of 1 year old and 3.5 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, neck), applied by the reporter on 15 Nov 2018 and 12 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar case reported on 18BR008544. This is the extent of the information available.
29-Dec-2018	UAE; 18BR008544; RS; Brazil	**Species:** Feline **Breed:** Turkish Angora **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	15-Nov-2018	29-Dec-2018*	4 Week(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Bonequinha, a female Turkish Angora of 1 year old and 2.8 kg, was treated with one vial of FRONTLINE SPOT-ON CAT (FL) (lot and exp date are unknown, topical, neck), applied by the reporter on 15 Nov 2018 and 12 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. Environment treated with Butox®. Similar case reported on 18BR008543. This is the extent of the information available.
29-Dec-2018	UAE; 18BR008550; RJ; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	30-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tigrão, a male mixed breeds cat of 6 months old and 3 kg, received FRONTLINE SPRAY 100 (001/17, exp date is unknown, topical, whole body), on 29 Nov 2018 (estimated date), for flea treatment. Lack of efficacy was suspected because the pet remained with live fleas, so, on a date not specified, Tigrão received Revolution® and, currently, is not presenting fleas anymore. The environment has been treated with an unknown product. Same issue reported in the past (see case 18BR005512). Similar cases reported on 18BR008551 and 18BR008552. No further information is expected.
29-Dec-2018	UAE; 18BR008551; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products	N/A	30-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Tevez, a male Domestic Shorthair cat (crossbred) of 11 years old and 6 kg, received FRONTLINE SPRAY 100 (001/17, exp date is unknown, topical, whole body), on 29 Nov 2018 (estimated date), for flea treatment. Lack of efficacy was suspected because the pet remained with live fleas, so, on a date not specified, Tevez

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** 11.00 Year(s) **Weight:** 6 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					received Revolution® and, currently, is not presenting fleas anymore. The environment has been treated with an unknown product. Similar cases reported on 18BR005512, 18BR008550 and 18BR008552. No further information is expected.
29-Dec-2018	UAE; 18BR008552; RJ; Brazil	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	30-Nov-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Propina, a female Domestic Shorthair cat (crossbred) of 2 years old and 4 kg, received FRONTLINE SPRAY 100 (001/17, exp date is unknown, topical, whole body), on 29 Nov 2018 (estimated date), for flea treatment. Lack of efficacy was suspected because the pet remained with live fleas, so, on a date not specified, Propina received Revolution® and, currently, is not presenting fleas anymore. The environment has been treated with an unknown product. It is unknown if FL has been applied before 16 Aug 2018. Similar cases reported on 18BR005512, 18BR008550 and 18BR008551. No further information is expected.
30-Dec-2018	UAE; 18BR008554; PB; Brazil	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 8.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** AFOXOLANER 28.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Dec-2017*	02-Jan-2019*	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner via social media, one dog of unknown signalment received NEXGARD (NG) (unsubstantiated) (lot and exp date are unknown), administered orally by the reporter on date not specified (1 Dec 2018 - chosen at random), for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. This is the extent of the information available. UPDATE 3 Jan 2019 – Luigi, a male Lhasa Apso of 5 years old and 8.5 kg, received one dose of FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date are unknown, topical, btw the shoulder blades), administered by the reporter, on 13 Dec 2018, for flea treatment. Lack of efficacy was suspected because the pet was still presenting live fleas, so was administered one tablet of NEXGARD (28.3 mg) (NG) (lot and exp date are unknown), orally, by the reporter, on 27 Dec 2018. According to the reporter, Luigi remains with live fleas. FL has been applied in the past with no issue (dose frequency is unknown) and the first administration date was not provided (13 Dec 2017 – chosen at random). NG has been administered in the past with no issue (dose frequency is unknown) and the first administration date was not provided (27 Dec 2017 – chosen at random). The environment has been treated with an unknown product. There are concomitant patients of the same household that have not been treated. No further information is available. UPDATE 7 Jan 2019 - The pet owner informed that Luigi remains with fleas. No further information is expected.
27-Dec-2018	UAE; 18BR008555; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment /	24-Dec-2018	28-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Meg, a female mixed breed cat of 2 years old and around 3 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, back), applied by the reporter on 24 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. Environment treated with deltamethrin. Similar cases reported on 18BR008502 and 18BR008556. No further information is expected.

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						vaccination program not respected)					
27-Dec-2018	UAE; 18BR008556; MG; Brazil	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	24-Dec-2018	28-Dec-2018*	4 Day(s)	D-D	Suspected Lack of Efficacy Claim: As reported by the pet owner, Vaia, a female mixed breed cat of 4 months old and around 2 kg, was treated, for the first time, with one vial of FRONTLINE PLUS CATS (FL) (lot and exp date are unknown, topical, back), applied by the reporter on 24 Dec 2018, for flea treatment. Lack of efficacy is suspected because the pet remains with fleas. In addition, the pet is scratching himself due to fleas. Environment treated with deltamethrin. Similar cases reported on 18BR008502 and 18BR008555. No further information is expected.
17-Oct-2018	UAE; 18CL000017; -; Chile	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 5 - 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018	16-Oct-2018	15 Day(s)	D-D	On 16 OCT 2018, animal owner reported lack of efficacy: A 4 –year old poodle (Princesa, weight between 5 to 7 kilograms, female, neutered) received 0,67 cc of FRONTLINE TOP SPOT (batch unknown, expiry date unknown) topically, applied by animal owner on 01 OCT 2018. 10 days after product administration the dog has many live fleas. The owner had used this product before with good effects. There are no other animals in the house. Princesa lives inside the house with access to the courtyard.Before product administration Princesa had a haircut, no bath. The owner doesn´t make environmental treatment
09-Nov-2018	UAE; 18CL000024; -; Chile	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	26-Oct-2018*	08-Nov-2018	13 Day(s)	D-D	on 8 November 2018 owner reported lack of efficacy in three cats: The first one is a 7 year old domestic cat, breed unknown, (“Capela”, 5 kilograms weight, female) that received treatment with dose unknown of FRONTLINE SPRAY (250 ml presentation, batch unknown, expiry date unknown) topical by owner on 26 Oct 2018 approximately. 2 weeks after the treatment cat still has many fleas. The second cat is A 2 year old domestic long hair cat (“Señor Bigotes”, weight unknown, male)that received treatment with dose unknown of FRONTLINE SPRAY (250 ml presentation, batch unknown, expiry date unknown) topical by owner on 26 Oct 2018 approximately. 2 weeks after treatment cat still has many fleas. The last cat is a 7 months domestic short hair cat (“Invasor”, 3 kilograms weight, male) that received treatment with dose unknown oh FRONTLINE SPRAY (250 ml presentation, batch unknown, expiry date unknown) topical by owner on 26 Oct 2018 approximately. 2 weeks after treatment cat still has many fleas. UPDATE 22 NOVEMBER 2018: BATCH NUMBER R01201A AND EXPIRY DATE FEBRUARY 2020
14-Nov-2018	UAE; 18CL000025;	**Species:** Canine **Breed:** Medium	1	1	0	**Product used:** FIPRONIL	10-Nov-2018	13-Nov-2018	3 Day(s)	D-D	On 12 NOV 2018 attending veterinarian reported lack of efficacy: “Cholito”, 10 year-old, 15 kilograms, canine, medium

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; Chile	crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 15 kg				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					crossbreed,male received FRONTLINE PLUS (size unknown, batch unknown, expiry date 15 NOV 2018, topical route, location unknown, dose unknown) administered by unknown on 10 NOV 2018. 3 days later after product administration the dog still has many fleas. On 12 NOV 2018 attending veterinarian reported lack of efficacy: name unknown, 7 year-old, 14 kilograms approx, canine, medium crossbreed,sex unknown received FRONTLINE PLUS (size unknown, batch unknown, expiry date 15 NOV 2018, topical route, location unknown, dose unknown) administered by unknown on 10 NOV 2018. 3 days later after product administration the dog still has many fleas.
15-Nov-2018	UAE; 18CL000026; -; Chile	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Nov-2018	14-Nov-2018	9 Day(s)	D-D	On 15 NOV 2018 owner reported lack of efficacy: Bruno, 4 years old, 5 kilograms weight, dog, poodle, intact received FRONTLINE SPRAY (batch unknown, expiry date unknown, route topical, location whole body, dose unknown) administered by owner on 5 NOV 2018. Dog still has many fleas.
15-Nov-2018	UAE; 18CL000027; -; Chile	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 1.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Nov-2018	14-Nov-2018	9 Day(s)	D-D	On 15 NOV 2018 owner reported lack of efficacy: Floky, between 1 and 2 months old, weight unknown, cat, sex and breed unknown, intact, received FRONTLINE SPRAY (batch unknown, expiry date unknown, route topical, location whole body, dose unknown) administered by owner on 5 NOV 2018. At 14 nov 2018 the cat still has many fleas.
15-Nov-2018	UAE; 18CL000028; Chile; Chile	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 28.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Nov-2018	12-Nov-2018	2 Day(s)	D-D	On 14 NOV 2018 owner reported adverse event: name unknown, age unknown, 5 kilograms weight, canine, breed unknown, reproductive status unknown, On 10 NOV 2018 received FRONTLINE (no more information provided about this product), and the following day the same dog received NEXGARD 28,3mg administered by owner on 11 NOV 2018 (batch unknown, expiry date unknown, oral route, 1 chewable) On 12 NOV 2018 dog presented urinary incontinence, anorexia and restlessness. On 14 NOV 2018 dog is able to urinate.

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07-Dec-2018	UAE; 18CL000030; -; Chile	**Species:** Canine **Breed:** Shih Tzu **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	29-Nov-2018	29-Nov-2018	0 Day(s)	D-D	On 4 DECEMBER 2018 a breeder reported lack of efficacy: A canine, Shih Tzu (name unknown, age unknown, sex unknown, reproductive status unknown, weight 4 kilograms) received 0,67 cc of FRONTLINE PLUS (batch unknown, expiry date unknown), by topical route on 29 NOVEMBER 2018. The dog lives indoor and is constantly treated with antiparasitics. At 4 december 2018, the dog still has many live fleas.
20-Nov-2018	UAE; 18CN000041; -; China	**Species:** Canine **Breed:** Canine (DO NOT USE) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	20-Nov-2018*	20-Nov-2018*	0 Day(s)	D-D	This message is from Chinese social media 'Weibo': After taking bath, the dog was blow dried. After that, it was administrated with Frontline. Then rash and erythema appeared and some drug was sticky to the fur. The Frontline was purchased on line.
07-Dec-2018	UAE; 18CZ000012; -; Czech Republic	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 5.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Purevax RCPCh; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	16-Nov-2018	6 Week(s)	D-C	Suspected Adverse Reaction: as reported by the attending vet, Andy-Felix, a cat, male Ragdoll, 2 years old, 5.6 kg, in a good health condition, received PUREVAX RCPCh (BN L457191, exp date 29 SEP 2019) by vet, SC, 1 dose (1 ml) for vaccination on 31 OCT 2018. On 16 NOV 2018 the cat experienced anorexia, fever (40.5°C), apathy (without vomitus, diarrhoea, ocular or nasal discharge, without oral erosions, without lymphadenomegalia). A treatment was administered on an unknown date : infusion therapy (saline+Duphalyte), meloxicam injection SC and PO for the following 3 days, amoxicillin-clavulanic acid (Noraclav) SC and PO for the following 7 days. Several tests were performed on an unknown date: negative snap test FeIV/FIV, biochemistry (parameters outside the norms ALB-PS=36g/L H (norms 23-35); GLU-PS=7.2mmol/L H (norms 3.1-6.9)) and hematology (parameters outside the norms HCT=24.5% (norms 25.0-45.0), WBC=4.1 10^9/L (norms 5.5-19.5), NA=2.1 10^9/L (norms 2.8-13.0). The cat recovered after 2 days on 18 NOV 2018. The animal had never been exposed to Merial products except FRONTLINE COMBO received on an unknown date. The attending vet's level of suspicion is high. This is the extent of information available.
07-Dec-2018	UAE; 18CZ000013; -; Czech Republic	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Purevax	29-Oct-2018*	09-Nov-2018	11 Day(s)	D-C	Suspected Adverse Reaction: As reported by the attending vet, Pepinka, a cat, female European, 5 years old, 4.5 kg, in a good health condition, received PUREVAX RCPCh (BN L457191, exp date 29 SEP 2019) by vet, SC, 1 dose (1 ml) for vaccination on 29 OCT 2018. On 9 NOV 2018 the cat experienced apathy, anorexia, fever and forelimbs arthralgia. A treatment was administered on an unknown date : infusion therapy (saline+Duphalyte), meloxicam injection SC and PO for the following 3 days, amoxicilin-clavulanic

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						RCPCh; **Route:** unknown **Was the product used ok?:** Unknown to Company					acid (Noraclav) SC and PO for the following 7 days. Several tests were performed on an unknown date: negative snap test FeIV/FIV, biochemistry (parameters outside the norms ALB-PS=36g/L H (norms 23-35), GLU-PS=15.8 mmol/L H (norms 3.1-6.9), TCHO-PS=5.31 mmol/L H (norms 2.00-5.20); GPT-PS=2.23 ukat/L H (norms 0.10-1.00) and hematology (parameters outside the norms RDWR=18.8% (norms 14.0-18.5), PLT=89 10^9/L (norms 200-500), MPV=6.6 fl (norms 8.0-12.0), LA=0.7 10^9/L GP (norms 1.0-7.0)). The cat recovered after 3 days on 12 NOV 2018. The animal had already been exposed to PUREVAX RCP on 24 SEP 2016 and 2 OCT 2017, with no reaction. He also received FRONTLINE COMBO on an unknown date (29 OCT 2018 was chosen by default), within the week of PUREVAX RCPCh administration. The attending vet's level of suspicion is high. This is the extent of information available.
07-Dec-2018	UAE; 18CZ000014; -; Czech Republic	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 5.2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Purevax RCPCh; **Route:** unknown **Was the product used ok?:** Unknown to Company	16-Nov-2018*	24-Nov-2018	8 Day(s)	D-C	Suspected Adverse Reaction: As reported by the attending vet, Micka, a cat, female European, 6 years old, 5.2 kg, in a good health condition, received PUREVAX RCPCh (BN L457191, exp date 29 SEP 2019) by vet, SC, 1 dose (1 ml) for vaccination on 16 NOV 2018. On 24 NOV 2018 the cat experienced anorexia, fever (40.2°C), apathy and reluctancy to move. A treatment was administered on 27 NOV 2018 : infusion therapy (saline+Duphalyte), meloxicam injection SC and PO for the following 3 days, amoxicilin-clavulanic acid (Noraclav) SC and PO for the following 7 days. Hematology analyses were performed on an unknown date: the only parameters outside the norms are PLT=54 10^9/L (norms 200-500) and MPV=7.5 fl (norms 8.0-12.0). The cat recovered 24 hours after the treatment on 28 NOV 2018. The animal had been exposed to PUREVAX RCP on 20 NOV 2017, with no reaction. He also received FRONTLINE COMBO on an unknown date (16 NOV 2018 was chosen by default), within the week of PUREVAX RCPCh administration. The attending vet's level of suspicion is high. This is the extent of information available.
15-Oct-2018	UAE; 18DE000779; -; Germany	**Species:** Feline **Breed:** Ragdoll **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Oct-2018*	15-Oct-2018*	1 Week(s)	D-D	SLEE: As reported by the animal owner a unknown Ragdoll cat was treated with FRONTLINE SPOT ON (MAH comment: as no concrete product was given Frontline Spot on for cats was set as best guess) last week (MAH comment: 8 Oct 2018 was set as best guess). The application´was correct, the skin in the neck was visible´. There were still alive fleas at the time reporting. No more details.
30-Oct-2018	UAE; 18DE000815; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown	2018*	Oct-2018*	N/A	D-D	SLEE: As reported by a pharmacist an animal owner treated 1 out of 4 unknown cats with FRONTLINE (MAH comment: as no concrete product was given FRONTLINE SPOT ON FOR CATS was set as best guess). 3 days later the cat still had fleas. No more details.

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						to Company					
19-Oct-2018	UAE; 18DE000828; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Oct-2018	19-Oct-2018*	3 Day(s)	D-D	SLEE: as reported by the animal owner a unknown dog had fleas and was treated once topically in the neck with 1 ampule of FRONTLINE SPOT ON H10 (which was the correct dosage according to the owner) on 16 Oct 2018 by the animal owner. On 19 Oct 2018 the dog still had fleas. On 25 Oct 2018 another flea product was given, outcome unknown. No more details.
12-Nov-2018	UAE; 18DE000857; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Nov-2018	11-Nov-2018	8 Day(s)	D-D	SLEE: As reported by the animal owner 3 unknown cats were treated once topically with FRONTLINE between the shoulder blades on the 3 Nov 2018 by the owner for prophylaxis and biting lice infection in one cat. (MAH comment: as no concrete product was given FRONTLINE SPOT ON CATS was set as best guess). On 11 Nov 2018 the cats showed no longer biting lice but fleas. Additional information: the cats were allowed to go outside in the garden, where hedgehogs and mice lived. No more information.
11-Dec-2018	UAE; 18DE000969; -; Germany	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	06-Dec-2018	11-Dec-2018	5 Day(s)	D-D	SLEE: As reported by the animal owner dog and cats (no more details) were treated once with 1 dosage form FRONTLINE SPOT ON H40 (FRONTLINE SPOT ON K respectively) according to body weight topically in the neck by the animal owner on 6 Dec 2018 because of flea infestation. On 11 Dec 2018 the owner called and reported, that the dog still had fleas. No more fleas seen on the cats (going outside in a fenced garden). Additional information: last application of FRONTLINE beginning of Oct 2018, before that in about 6 week intervals, environment was vaccumed.
27-Dec-2018	UAE; 18DE000981; -; Germany	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	21-Dec-2018	24-Dec-2018*	3 Day(s)	D-D	SLEE: as reported by a pharmacist an unknown cat was treated once (´according to the weight´) with FRONTLINE SPOT ON FOR CATS (batch no R21222CX, expiry date Jun 2020) because of flea infestation on 21 Dec 2018 by the animal owner. On 24 Dec 2018 the cat still had fleas. No more details.
07-Oct-2018	UAE; 18DK000087; -; Denmark	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products	Sep-2018*	Oct-2018*	N/A	D-C	07-Oct-2018: Adverse event and Suspected Lack of Expected efficacy: Via company Facebook an owner reports that she has used Frontline (product not substantiated) to treat her dogs (no details) against flea infestation. As it did not work as expected the dogs were treated again (interval between treatments unknown). Second time also without desired effect, but one dog reacts with a

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: unknown **Weight:** Unknown				**Route:** unknown **Was the product used ok?:** Unknown to Company					skin ulceration. Owner contacted a vet who informed her that fipronil does not work anymore in the neighborhood, but he has a alternative product from Germany which is still not approved in Denmark.
11-Oct-2018	UAE; 18DK000096; -; Denmark	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.50 Year(s) **Weight:** 5.7 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Milpro vet.; **Route:** Topical / Cutaneous **Was the product used ok?:** -	18-Sep-2018	20-Sep-2018	2 Day(s)	D-D	A 5.5 year old neutered male Domestic cat, weight 5.7 kg was treated with Frontline Combo, topically, dosage unknown on 18-SEP-2018 as a flee prophylaxis. On the 20-SEP-2018 the cat was presented with itching at the application site and had vomitus and respiratory symptoms. The reaction appeared for 1 week. Accroding to the owner the cat had had a similar reaction on the 25-MAY-2018 after Frontline application. The veterinarian had not seen it herself as the cat had almost recovered when the veterinarian was contacted by owner. The cat was also given a deworming treatment with Milpro vet., unknown strength and dosage on 20-SEP-2018.
16-Nov-2018	UAE; 18DK000112; -; Denmark	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Week(s) **Weight:** 5.000 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Sep-2018	14-Sep-2018	N/A	D-D	On 13-SEP-2018 the owner treated a mixed breed (Beagle and French Bulldog) puppy named Bailey (borne 15-JULY-2018, weighing approx. 5 kg). The following day the skin of the belly, legs and in ears became red and itchy. Due to the itching skin excoriation developed (level and severity unknown), and the dog was taken to a veterinarian on 18-SEP-2018 and 24-SEP-2018 for control. The vet gave 0.2 ml dexamethasone 2 mg/ml injection at the first visit and prescribed chlorhexidine 0.5% shampooing for 3 weeks and Isaderm gel (fusidic acid/betamethasone) to treat the allergic skin reaction. The dog recovered and was vaccinated on 09-OCT-2018.
30-Nov-2018	UAE; 18DK000115; -; Denmark	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	15-Nov-2018*	30-Nov-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy (SLOE): As reported by pharmacist, an animal owner returned a package of FRONTLINE COMBO CAT SPOT-ON (Batch R40505), the complaint was regarding lack of efficacy and that the product had a different smell . The pharmacist reported that the owner was used to using the product. There was no information on animal details (MAH assumed it was one cat), date of treatment and start date of SLOE. Outcome is unknown.
27-Nov-2018	UAE; 18DK000123; -; Denmark	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the**	N/A	27-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy. An animal owner called concerning a complaint on lack of efficacy concerning FRONTLINE COMBO VET (MAH chose best match Frontline combo vet spot-on for cats). The owner had five cats (patient details not specified) and had had cats for twenty years and knew how to use the product. Product administration details unknown (dose, dates, number of animals treated, indication). MAH tried to call the owner at several occasions without answer. No more information was available at the time of the report.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					
13-Dec-2018	UAE; 18DK000126; -; Denmark	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 10 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Nov-2018*	27-Nov-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy. As reported by an animal owner on the 13-Dec-2018. A month earliger (approx. 13 NOV 2018) two female neutered Dachshunds (approximate weight 10 kg) were treated with FRONTLINE COMBO VET (FL) spot on solution for dogs 10-20 kg due to fleas. Subsequently no fleas were detected, however approximately 14 days later one of the dogs was itching and the owner thought it was due to inflamed anal sacs and took it to the vet. At the vet fleas were discovered and the dogs were given an antiparasitic tablet instead which helped. The owner had used FRONTLINE SPRAY a couple of year ago with desired effect (MAH comment: unknown if it was used preventative or if there was a flea problem at the time of treatment). The owner informed MAH that the dogs had not been bathed. Sofa and dog beds had been vacuumed and floor had been cleaned.
08-Nov-2018	UAE; 18ES000775; -; Spain	**Species:** Feline **Breed:** European **Sex:** U **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4.000 - 5.000 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Oct-2018	07-Nov-2018	24 Day(s)	D-D	Suspected lack of efficacy: As reported by pet owner, an approximately 6 years old and between 4 and 5 kg of weight, European cat, received Frontline Combo Spot On cats (batch and expiry date unknown), administered topically by pet owner the 14th Oct 2018. On 07th Nov 2018, the animal presented pruritus and owner identified some fleas in the animal's body. This is an indoor and outdoor cat and lived in the countryside with other cats. It used Frontline Spray in the past and recently, the animal used antiparasitic collars. As the animal continued with fleas, pet owner administered Frontline Combo on 14th Oct 2018.
27-Dec-2018	UAE; 18ES000861; Cantabria; Spain	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 4 kg	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	26-Dec-2018	26-Dec-2018	0 Day(s)	D-A	Suspected Adverse Event: As reported by the attending vet, a 4 year-old and 4 kg bw European male neutered cat received half a pipette of FRONTLINE COMBO SPOT-ON DOGS 10-20 KG (batch and expiry date unknown) topically administered by the animal owner on 26DEC2018. The other half pipette was administered to the dog of the owner. About 15-20 minutes after product administration the cat experienced nystagmus, ataxia, incoordination, abnormal breathing and respiratory signs. Finally the animal died the day after (27DEC2018). Although a pipette for dogs was applied to the cat and at a high concentration, the attending vet found very rare such a serious reaction taking into account that fipronil and s-methoprene are also used in the cat's pipettes. Supposedly the animal did not have any other problem/disease. He had already received other pipettes from Frontline brand.
05-Oct-2018	UAE; 18FI000049; -; Finland	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	May-2018*	Aug-2018*	N/A	D-D	05- Oct- 2018: Suspected Lack of Efficacy: A 10 years old male Shipa dog weighing 14 kg was treated by the owner on the skin of the neck with Frontline vet 100 mg/ml, 1,34 mg pipettes once a month four times during the summer. The dog had not been swimming or washed with a shampoo during the summer. Still the owner has found several ticks (attached to the skin, alive, smaller and bigger ones) during using the product. For example one of the ticks was found 2 weeks after administrating the product.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
17-Oct-2018	UAE; 18FI000051; -; Finland	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Jun-2018	25-Jun-2018*	9 Day(s)	D-B	A 10-year old, female, neutered domestic cat, weight unknown was administered 1 pipette of Frontline vet 100 mg/ml on the 16-JUNE-2018 and from around 25-JUNE-2018 the cat got a seizure. The owner has administered Frontline for tick prevention in the summer for years to this same cat. Before summer 2017 there hasn't been any problems. On summer 2017 the cat got one episode of seizure. At that point the cat went to a veterinary clinic but the bloodwork had been normal and the diagnosis had stayed unclear. The treating vet didn't suspect Frontline at that time and seizures stopped during time. Then on the16-JUNE-2018 the owner administered Frontline and the cat got the first seizure around 25-JUNE-2018. The first seizures came often, then the owner had washed the cat a few times and according to the owner the seizures didn't come so often after the washing. In the beginning of August 2018 the cat went to a veterinary clinic, where nothing abnormal was found, and the owner said that the cat was almost normal also at home. The treating vet had seen a video recorded of one seizure: starting with muscle tremors on the head/neck, after that the cat starts drooling. Pupilles are big at first, then they get smaller, then the cat starts meaowing loudly. Drooling until the end of the seizure. The duration of the seizure is about 2-3 minutes. Between the seizures the cat is normal. On 17-OCT-2018 the cat had been at the clinic again (because of dental care), and the owner had told that the cat had been totally normal during the autumn.
04-Oct-2018	UAE; 18FR001294; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 1.3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Sep-2018	24-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a 2-month-old male European kitten, 1.3 kg, in good condition, received 6 sprays of FRONTLINE SPRAY (BN: R04306A; exp. date: NOV 2020) administered topically by the owner on 24 SEP 2018. After product administration (unknown time to onset), fleas were seen on the animal. No further information was available at the time of this report.
01-Oct-2018	UAE; 18FR001346; -; France	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 2.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Aug-2018	16-Aug-2018	0 Day(s)	D-C	FR-ANMV-18 CPVL 01394: D0: dog applied with FRONTLINE SPOT ON CHIEN. Within 30 minutes, it displayed muscle tremor. D1 : vet consultation / still same tremors. Duration of reaction: < or = 24 hours. Duration of reaction (precision): ongoing (< 24 hours). Reason for treatment: ectoparasites. Treatment of SAR: ? Investigations: ? Outcome of SAR: Unknown. FRONTLINE SPOT ON CHIEN () : 1 pipette; duration: once; onset time: < 30 minutes.
02-Oct-2018	UAE; 18FR001350; -; France	**Species:** Canine **Breed:** Yorkshire Terrier	4	2	0	**Product used:** FIPRONIL SPRAY	10-Sep-2018	10-Sep-2018	0 Day(s)	D-D	FR-ANMV-18 CPVL 01569: J0: A yorkshire terrier (lactating bitch) was administered with FRONTLINE SPRAY POMPE. A few hours after, 2 of the 4 puppies were lethargic. J5: the 2 puppies are still

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		Sex: U **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 0.45 kg				**Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Route not indicated / recommended)					lethargic. Duration of reaction: < or = 7 days. Duration of reaction (precision): Ongoing (6 days). Reason for treatment: Preventive. Outcome of SAR: Unknown. FRONTLINE SPRAY POMPE 0,5 ML () : on mother, adapted to the weight; duration: once; onset time: A few hours.
02-Oct-2018	UAE; 18FR001366; -; France	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 19.00 Year(s) **Weight:** 3 - 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Semintra telmisartan 4 mg/ml; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Sep-2018*	22-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 19-year-old neutered male Siamese cat, between 3 and 4 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: R21517AX, Exp. date: SEP 2020) administered topically between the shoulders by the owner around 22 SEP 2018 for flea treatment. After product administration (unknown time to onset), more fleas appeared on the animal. No further information was available at the time of this report. Note: the animal was under SEMINTRA (unsubstantiated product) (BN and exp. date: unknown) (unknown date of treatment start) for support of the renal function. This case is linked with the case 18FR1367: non-serious SLOE in another cat from the same household after administration of the same product.
02-Oct-2018	UAE; 18FR001367; -; France	**Species:** Feline **Breed:** Turkish Angora **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 3 - 4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Sep-2018*	22-Sep-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 11-year-old neutered male crossbred Angora cat, between 3 and 4 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: R21517AX, Exp. date: SEP 2020) administered topically between the shoulders by the owner around 22 SEP 2018 for flea treatment. After product administration (unknown time to onset), more fleas appeared on the animal. No further information was available at the time of this report. Note: This case is linked with the case 18FR1366: non-serious SLOE in another cat from the same household after administration of the same product.
03-Oct-2018	UAE; 18FR001368; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** 2.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-Jul-2018	27-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a 4-month-old European female cat, 2.8 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41205AW, Exp. date: NOV 2020) administered topically between the shoulders by the owner on 27 JUL 2018. After product administration (unknown time to onset), the animal experienced excessive salivation. It recovered on an unknown date after adminsitration of an antiinflammatory drug (unspecified). This case is linked with the case 18FR1369: non-serious AE in the same animal after administration of the same product on 31 AUG 2018.
03-Oct-2018	UAE; 18FR001369; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	31-Aug-2018	31-Aug-2018*	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 4-month-old European female cat, 2.8 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41205AW, Exp. date: NOV 2020) administered topically between the shoulders by the owner on 31 AUG. After product administration (unknown time to onset), the animal experienced

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		Month(s) **Weight:** 2.8 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					limping in hind limbs, signs of neurological weakness (unspecified), and difficulty to move. It was treated with cortisone. At the time of this report, the animal had still difficulty to move and was still trembling. This case is linked with the case 18FR1368: non-serious AE in the same animal after administration of the same product on 27 JUL 2018.
08-Oct-2018	UAE; 18FR001380; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** 8 kg	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	07-Oct-2018	07-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, Effy, a 12-year-old female European cat, 8 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41004DDW, Exp. date: AUG 2020) administered topically by the owner on 07 OCT 2018 at 11:00 am. 10 hours after product administration, on 07 OCT 2018 at 9:00 pm the animal experienced salivation and whitish vomiting, stayed lying down, and did not eat and drink anymore. No trembling and no convulsion were observed. The animal reacted to finger snap and had pinkish gums, but seemed dizzy (coded as Lethargy into Veddra). The signs were still ongoing at the time of this report.
10-Oct-2018	UAE; 18FR001394; -; France	**Species:** Rabbit **Breed:** Rabbit (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	23-Sep-2018	25-Sep-2018	2 Day(s)	D-B	FR-ANMV-18 CPVL 01696: D0: A rabbit was administered with FRONTLINE COMBO SPOT-ON CHAT. D2: it displayed dysorexia and intestinal stasis. Symptomatic treatment. D9, vet examination for control: no more digestive troubles, the rabbit had resumed eating, but vet noticed slight hyperaesthesia. D 11: the rabbit displayed one convulsive fit (reported bythe owner). Duration of reaction: < or = 14 days. Duration of reaction (precision): 9 days. Reason for treatment: Preventive. Treatment of SAR: Symptomatic therapy NOS. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: Once; onset time: 48 h.
09-Oct-2018	UAE; 18FR001404; -; France	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018	05-Oct-2018	3 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a male Maine Coon cat, in poor condition, received a pipette of FRONTLINE CHAT (product unsubstantiated, FRONTLINE SPOT-ON CHAT was chosen by default) (BN and exp. date: unknown) administered topically by the owner in the neck on 02 OCT 2018. 72 hours after product administration, the animal experienced application site alopecia, scratching and licking. The animal was brought to the vet (unspecified) on the following day who observed an application site burn that was extending. The animal received an injection of cortisone and a treatment (unspecified) for 2 days. The animal was then brought back to the clinic and the vet prescirbed the same treatment (unspecified) for 7 additional days. 3 days later, the lesions had not improved and were still extending and the owner had scheduled to brought back the animal to the vet one more time. No further information was available at the time of this report. This case is linked with the case 18FR1405: non-serious SLOE in the same animal after administration of the same product.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
09-Oct-2018	UAE; 18FR001405; -; France	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018	02-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a male Maine Coon cat, in poor condition, received a pipette of FRONTLINE CHAT (product unsubstantiated, FRONTLINE SPOT-ON CHAT was chosen by default) (BN and exp. date: unknown) administered topically by the owner in the neck on 02 OCT 2018. After product administration (unknown time to onset), fleas were still present on the animal. Fleas disappeared (unknown date) after administration of one tablet (unspecified). This case is linked with the case 18FR1404: non-serious AE in the same animal after administration of the same product.
08-Oct-2018	UAE; 18FR001408; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg*	21	21	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jul-2018*	31-Jul-2018*	15 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, 21 male and female cats (unknown signalment), weighing more than 4 kg, in good condition, received each one pipette of FRONTLINE SPOT-ON CHAT (BN: R41004DW, Exp. date: AUG 2020) administered topically by the owner at the beginning of July for flea treatment. 8 days after product administration, fleas reappeared on the animals. A second pipette of FRONTLINE SPOT-ON CHAT was administered to the animals 15 days after the first administration. 15 days after the second administration, fleas reappeared. No further information was available at the time of this report. This case is linked with the case 18FR1407: non-serious SLOE in the dogs from the same household after administration of FRONTLINE TRI-ACT.
10-Oct-2018	UAE; 18FR001409; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018	08-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, Filou, a 7-year-old neutered male cat, 5 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: RA1211AW, Exp. date: NOV 2020) administered topically at the base of the neck by the owner on 01 OCT 2018. 7 days after product administration, on 08 OCT 2018, the animal experienced an allergy overall the body with redness and crusts. It was brought to the vet and treated with cortisone. The vet could not confirmed that the allergy was due to product administration. No further information was available at the time of this report.
17-Oct-2018	UAE; 18FR001464; -; France	**Species:** Feline **Breed:** European **Sex:** U **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 4 - 5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018	15-Oct-2018	2 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 5-year-old neutered European cat, 4 to 5 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: 1R21318AX , Exp. date: JUL 2020) administered topically by the owner between the shoulders on 01 OCT 2018 for flea treatment. 2 weeks after product administration, the owner observed more fleas on the animal. No further information was available at the time of this report. This case is linked with the cases 18FR1463 and 18FR1465: non-serious SLOE in a dog and another cat from the same household after administration of FRONTLINE.
17-Oct-2018	UAE; 18FR001465; -; France	**Species:** Feline **Breed:** European **Sex:** U	1	1	0	**Product used:** FIPRONIL SPOT ON CAT	01-Oct-2018	15-Oct-2018	2 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 8-year-old neutered European cat, 4 to 5 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN:

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		Sex qualifier: Neutered **Age:** 8.00 Year(s) **Weight:** 4 - 5 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					1R21318AX , Exp. date: JUL 2020) administered topically by the owner between the shoulders on 01 OCT 2018 for flea treatment. 2 weeks after product administration, the owner observed more fleas on the animal. No further information was available at the time of this report. This case is linked with the cases 18FR1463 and 18FR1464: non-serious SLOE in a dog and another cat from the same household after administration of FRONTLINE.
18-Oct-2018	UAE; 18FR001466; -; France	**Species:** Other **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	12-Oct-2018*	13-Oct-2018*	1 Day(s)	D-A	Suspected Adverse Event: As reported by the animal's owner, an hedgehog (unknown signalment and health condition prior to product administration) received one pipette of FRONTLINE SPOT-ON CHAT (BN and exp. date: unknown) administered by the owner around 12 OCT 2018. 24 hours after product administration, the animal died. No further information was available at the time of this report. Off-label use: unauthorised species.
26-Oct-2018	UAE; 18FR001490; -; France	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Sep-2018	03-Oct-2018	3 Day(s)	D-C	FR-ANMV-18 CPVL 01750: D0: cat (Maine Coon) administered with FRONTLINE COMBO SPOT-ON CHAT. D3: it displayed application site pyoderma, pruritus, weeping and necrosis. Prescription of local treatment. Dermatological analyses : cocci and neutrophilis. D13: ongoing. Duration of reaction: < or = 14 days. Duration of reaction (precision): Ongoing (13days). Reason for treatment: Preventive. Investigations: Dermatological analyses : cocci and neutrophilis. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: once; onset time: 3 days.
25-Oct-2018	UAE; 18FR001494; -; France	**Species:** Swine **Breed:** - **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 3.000 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Oct-2018	24-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, Isidor, a 4-year-old neutered male crossbred Angora , 3 kg, in good condition, received 1 pipette of FRONTLINE COMBO SPOT ON CHAT (BN:S40605AW, exp. date: MAY 2021) administered topically by the owner between the shoulders on 24 OCT 2018. 10 minutes after product application, the animal experienced reddening of the nose, red external ear canal, watering eyes, clicking of teeth, vomiting, trembling, and diarrhoea. The animal was hospitalised and received fluid therapy and valium. No further information was available at the time of this report. Note: the animal had previously received FRONTLINE SPOT-ON (unknown date) without sign. The case is linked with the case 18FR1495: non-serious AR after administration of the same product to another cat from the same household.
25-Oct-2018	UAE; 18FR001495; -; France	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	24-Oct-2018	24-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, Caline, a 3-year-old spayed female crossbred Angora , 4 kg, in good condition, received 1 pipette of FRONTLINE COMBO SPOT ON CHAT (BN:S40605AW, exp. date: MAY 2021) administered topically by the owner between the shoulders on 24 OCT 2018. 10

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		Sex qualifier: Neutered **Age:** 3.00 Year(s) **Weight:** 4 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					minutes after product application, the animal experienced trembling and divagation. The animal was hospitalised and received fluid therapy. No further information was available at the time of this report. Note: the animal had previously received FRONTLINE SPOT-ON (unknown date) without sign. The case is linked with the case 18FR1494: non-serious AR after administration of the same product to another cat from the same household. Note: case sent twice on the 19Nov 2018, first time with a mistake in ABON assessment.
29-Oct-2018	UAE; 18FR001513; -; France	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Month(s) **Weight:** 2.6 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Oct-2018	28-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a 5-month-old Maltese puppy, 2.6 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHIEN S (BN: S61804AX, Exp. date: JUN 2021) administered topically by the owner between the shoulders on 28 OCT 2018 at noon for flea treatment. About 7 hours after product administration, on 28 OCT 2018 around 19:00 pm, the animal experienced excessive salivation, fatigue and lack of appetite. The event was still ongoing at the time of this report.
06-Nov-2018	UAE; 18FR001534; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Not applicable **Age:** 7.00 Month(s) **Weight:** 2.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** OPOVERMIFUGE P; **Route:** SC-subcutaneous **Was the product used ok?:** Yes	01-Oct-2018	19-Oct-2018	18 Day(s)	D-B	FR-ANMV-18 CPVL 01782: D0: A kitten was administered with FRONTLINE SPOT ON CHAT. No adverse effects. D16: It was administered with OPOVERMIFUGE P. D18: It displayed agitation, equilibrium disorder, mydriasis, and head tilt. D21: It displayed apathy. D23: Improvement. The cat eats and purrs. D26: Recovery but still head tilt. Duration of reaction: < or = 14 days. Duration of reaction (precision): 8 days. Reason for treatment: Preventive. Treatment of SAR: Phytotherapy for stress counselling and renal elimination. Outcome of SAR: Favorable. OPOVERMIFUGE P () : given for 1Kg BW; duration: once; onset time: 48h FRONTLINE SPOT ON CHAT () : 1 pipette; duration: once; onset time: 19 days.
06-Nov-2018	UAE; 18FR001535; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	18-Oct-2018	19-Oct-2018	1 Day(s)	D-C	FR-ANMV-18 CPVL 01783: T0: A cat was administered with FRONTLINE COMBO SPOT ON CHIEN XL. T+12h: it displayed tremor. Duration of reaction: < or = 48 hours. Duration of reaction (precision): Ongoing (2 days). Reason for treatment: Preventive. Treatment of SAR: Valium high dose, Fluids (NaCl then Glucose). Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHIEN XL () : 1 pipette; duration: once; onset time: 12 hours.
06-Nov-2018	UAE; 18FR001538; -; France	**Species:** Feline **Breed:** European **Sex:** U **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	19-Sep-2018	19-Sep-2018	0 Day(s)	D-D	FR-ANMV-18 CPVL 01604: D0: An European kitten (0,8 kg body-weight) was administered with FRONTLINE COMBO SPOT-ON CHAT (considered as of label use). Within a few hours, it displayed apathy. D2: at vet examination, only apathy ("sadness"

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		Unknown **Age:** 2.00 Month(s) **Weight:** 0.8 kg				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)					mentioned by the vet). Duration of reaction: < or = 48 hours. Duration of reaction (precision): Ongoing (2 days). Reason for treatment: Preventive. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: Once; onset time: A few hours.
09-Nov-2018	UAE; 18FR001565; -; France	**Species:** Feline **Breed:** European **Sex:** X **Sex qualifier:** Mixed **Age:** 3.00 Year(s) **Weight:** 3.5 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Oct-2018	24-Oct-2018	0 Day(s)	D-C	FR-ANMV-18 CPVL 01797: D0 evening: Two cats were applied with FRONTLINE SPOT ON CHAT (at the same time, the dog was applied with FRONTLINE SPOT ON CHIEN). The owner didn't know if the dog and the cats were in contact at this time and if the cats licked themselves. D0 night: The 2 cats displayed hypersalivation, trembling, mydriasis. Visit to the vet who gave Valium and fluid therapy. D1: Improvement but no total recovery yet. The cats are aware. Duration of reaction: < or = 12 hours. Duration of reaction (precision): Ongoing (11 hours). Reason for treatment: Preventive. Treatment of SAR: Valium, Fluids therapy. Outcome of SAR: Unknown. FRONTLINE SPOT ON CHAT () : 1 pipette per cat; duration: once; onset time: Few hours.
14-Nov-2018	UAE; 18FR001594; -; France	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	26-Sep-2018	02-Oct-2018	0 Day(s)	D-C	FR-ANMV-18 CPVL 01679: D0-D6: to fight asian hornet, a beekeeper prepared baits (5 beef hearts each with one pipette of FRONTLINE SPOT ON CHIEN L). Considering speed of disapperance of beef hearts, the owner suspected that they had been in fact ingested by his Staffordshire Bull Terrier dog . D6: the dog was presented in rather good condition. Normal body temperature. Lab work-up yielded haemoglobinuria, bilirubinuria, normal RBC and reticulocyte count, elevated ALT (150 IU/L), elevated total bilirubin and albumin (value NOS) ; normal globulin count. Duration of reaction: < or = 12 hours. Duration of reaction (precision): ongoing (< 12 hours). Reason for treatment: (accidental). Treatment of SAR: Investigations: Blood smear not performed. FRONTLINE SPOT ON CHIEN L () : 5 pipettes over 1 week; duration: <1 week; onset time: < 1 week/begin.
12-Nov-2018	UAE; 18FR001598; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 4 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Nov-2018	10-Nov-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 1.5-year-old spayed female European cat, 4 kg, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: F40107DW, Exp. date: DEC 2020) administered topically between the shoulders by the owner on 10 NOV 2018. 3 hours after product administration, the animal experienced spasms. It was brought to the vet who induced coma. It recovered on an unknown date and a control visit was scheduled (unknown date). This case is linked with the case 18FR1599: identical non-serious AR in another cat from the same household after administration of the same product. Note: case not considered as severe since observed signs were non-serious (coma was "only" induced by vet).
12-Nov-2018	UAE; 18FR001599; -; France	**Species:** Feline **Breed:** European **Sex:** M	3	1	0	**Product used:** FIPRONIL 10%/S	10-Nov-2018	10-Nov-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 6.5-year-old neutered male European cat, 4.3 kg, in poor condition (respiratory infection with pulmonary oedema) received one pipette

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		Sex qualifier: Neutered **Age:** 6.50 Year(s) **Weight:** 4.3 kg				METHOPRENE 12% SPOT ON **Other products used:** CORTISONE; ANTIBIOTICS (unspecified); **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					of FRONTLINE COMBO SPOT-ON CHAT (BN: F40107DW, Exp. date: DEC 2020) administered topically between the shoulders by the owner on 10 NOV 2018. 4 hours after product administration, the animal experienced spasms. It was brought to the vet who induced coma. It recovered on an unknown date and a control visit was scheduled (unknown date). This case is linked with the case 18FR1598: identical non-serious AR in another cat from the same household after administration of the same product. Note: the animal was under cortisone and antibiotics (unspecified) when FRONTLINE COMBO SPOT-ON CHAT was applied. Note: case not considered as severe since observed signs were non-serious (coma was "only" induced by vet).
13-Nov-2018	UAE; 18FR001600; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Oct-2018	30-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a cat (unknown signalment) in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered topically by the owner in the neck on 30 OCT 2018 for flea treatment. 2 weeks after product administration (unknown time to onset), the owner reported that a few fleas were still visible on the animal. No further information was available at the time of this report.
14-Nov-2018	UAE; 18FR001605; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 18.00 Month(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	10-Nov-2018	10-Nov-2018	0 Day(s)	D-C	ADVERSE REACTION case: As reported by emergency vet, Nikita, an European neutered female cat, born on 01 MAY 2017 weighing 4 KG (microchip n°250269606912242), had received 1 pipette of FRONTLINE COMBO SPOT ON CHAT (BN: S40107DW, exp.date: 31 DEC 2020) administered topically by owner on the 10 NOV 2018 afternoon. The same day, on the 10 NOV 2018, at 22h40, the cat was brought in emergency for trembling/tremulation. Normal body temperature (38°C). Owners had flushed the application site before the visit. Then, cat hospitalised and treated with midazolam, medetomidine, butorphanol, fluid therapy, diuretic, clanobutin and lipidic intravenous emulsion. On 11 NOV 2018, cat returned to home with improvement of nervous signs. Recommendation to keep the cat inside, quiet. Note: the same day, 5 other cats were treated with FRONTLINE COMBO SPOT ON CHAT (same BN), and 2 dogs with FRONTLINE TRI-ACT. One other cat displayed nervous signs (see linked case 18FR 1606). The vet highly suspected medication error from owner, that owner absolutely denied. Another hypothesis is inidrect exposure of cats to permetherin via treated dogs.
14-Nov-2018	UAE; 18FR001606; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 4.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	10-Nov-2018	10-Nov-2018	0 Day(s)	D-B	ADVERSE REACTION case: As reported by emergency vet, Hugo, an European neutered male cat, born on 01 MARCH2012 weighing 4,3 KG (microchip n°250268732243916), had received 1 pipette of FRONTLINE COMBO SPOT ON CHAT (BN: S40107DW, exp.date: 31 DEC 2020) administered topically by owner on the 10 NOV 2018 afternoon. The same day, on the 10 NOV 2018, at 00h15, the cat was brought in emergency for trembling/tremulation. Normal body temperature (38,6°C). Owners had flushed the application site before the visit. Then, cat

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						Cutaneous **Was the product used ok?:** -					hospitalised and treated with midazolam, medetomidine, butorphanol, fluid therapy, diuretic, clanobutin and lipidic intravenous emulsion. Then, nervous signs improved but the cat displayed respiratory distress on the 11 NOV 2018. Echography revealed acute pulmonary oedema, considered by vet as linked with nervous signs. Tretaed with diuretics and oxygenotherapy. Then, on 11 NOV 2018, cat returned to home withimprovement of genral conditions and recommendation to keep the cat inside, quiet. Note: the same day, 5 other cats were treated with FRONTLINE COMBO SPOT ON CHAT (same BN), and 2 dogs with FRONTLINE TRI-ACT. One other cat displayed nervous signs (see linked case 18FR1605). The vet highly suspected medication error from owner, that owner absolutely denied. Another hypothesis is inidrect exposure of cats to permetherin via treated dogs.
14-Nov-2018	UAE; 18FR001627; -; France	**Species:** Feline **Breed:** Ragdoll **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Nov-2018	13-Nov-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 3-month-old male Ragdoll Birman kitten in good condition received 10 sprays of FRONTLINE SPRAY POMPE (BN and exp. date: unknown) administered topically by the owner on 13 NOV 2018. After product administration (unknown time to onset), on 13 NOV 2018, the animal experienced hyperthermia (41.1°C). The owner planned to bring the animal to the vet on 14 NOV 2018 in the evening. No further information was available at the time of this report. This case is linked with the case 18FR1628: non-serious AR in another cat from the same household after administration of the same product.
14-Nov-2018	UAE; 18FR001628; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Nov-2018	13-Nov-2018	0 Day(s)	D-C	Suspected Adverse Event: As reported by the animal's owner, a 3-month-old female European kitten in good condition received 6 sprays of FRONTLINE SPRAY POMPE (BN and exp. date: unknown) administered topically by the owner on 13 NOV 2018. After product administration (unknown time to onset), on 13 NOV 2018, the animal experienced hyperthermia (39.5°C). No further information was available at the time of this report. This case is linked with the case 18FR1627: non-serious AR in another cat from the same household after administration of the same product.
15-Nov-2018	UAE; 18FR001629; -; France	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 7.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018	02-Oct-2018	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 1.5-year-old spayed female Shi Tzu dog, 7.5 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHIEN S (BN: R21301AX, Exp. date: JUL 2020) administered topically by the owner between the shoulders on 02 OCT 2018 for flea prevention. After product administration (unknown time to onset), fleas appeared on the animal. No further information was available at the time of this report.
19-Nov-2018	UAE; 18FR001633; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Not applicable	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other	03-Oct-2018	06-Oct-2018	3 Day(s)	D-C	FR-ANMV-18 CPVL 01772: D0: European kitten applied with FRONTLINE SPRAY POMPE (spraying on hands then cat application). D3: the kitten displayed ataxia, stupor. Vet suspected toxoplasmosis, prescribed antibiotics (NOS). D15 : vet phonecall. Kitten is beter, but signs are still enduring (despite a bit

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 2.00 Month(s) **Weight:** Unknown				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					decreased). Duration of reaction: < or = 14 days. Duration of reaction (precision): ongoing (10 days). Reason for treatment: ectoparasites / fleas +++. Treatment of SAR: ? Investigations: ? Outcome of SAR: Unknown. FRONTLINE SPRAY POMPE () : spraying on hands, then application; duration: once; onset time: 3 days.
20-Nov-2018	UAE; 18FR001646; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	18-Nov-2018	19-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, a 5-year-old female European cat, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: S20307CW, Exp. date: FEB 2020) administered topically by the owner between the shoulders on 18 NOV 2018. 1 day after product administration, on 19 NOV 2018, the animal experienced anorexia and weakness. The owner had planned to bring the animal to the vet on 20 NOV 2018. No further information was available at the time of this report.
15-Nov-2018	UAE; 18FR001670; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Nov-2018	04-Nov-2018	3 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 4-month-old kitten received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41205AW, Exp. date: NOV 2020) administered by the owner on 01 NOV 2018 for flea treatment. On 04 NOV 2018, no flea was seen on the animal except for one on the face. Fleas were again present on the animal within the week following 04 NOV 2018. No further information was available at the time of this report.
27-Nov-2018	UAE; 18FR001693; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 3.35 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Nov-2018	14-Nov-2018	1 Day(s)	D-D	FR-ANMV-18 ANMV 02351: For pulicosis a 3-year-old European cat was applied one pipette FRONTLINE COMBO SPOT-ON CHAT between the ears and shoulders by the owner on 13/11/2018. One day later the cat displayed crusts at application site and under the neck with pruritus. Treatment with PREDNICORTONE. Case ongoing on 17/11/2018. The owner used this product every 2 month and previous reaction was already observed (no description of signs). Reason for treatment: Curative.
27-Nov-2018	UAE; 18FR001703; -; France	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 6 kg	3	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	19-Nov-2018	20-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: As reported by the attending vet, Jaïa, a 4-year-old Female Shetland dog, 6 kg, ID 250269810260727, in good condition, received one pipette of FRONTLINE SPOT-ON CHIEN S (BN: S20218AL, exp. date: JAN 2020) administered topically by the breeder on 19 NOV 2018. 1 day after product administration, on 20 NOV 2018, the animal experienced crusts (+++) at application sites (one behind the neck and one on the croup). It was treated with Cortanmycétine on 24 NOV 2018. No further information was available at the time of this report. The

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						product used ok?: Yes					vet's level of suspicion was high. Note: the signs were reported by the breeder. The animal had never experienced such signs before . The animal was MDR1 =/-. The breeder had treated several dogs (unknown number: 3 was chosen by default) with pipettes of the same batch but no other dog reacted to the product.
29-Nov-2018	UAE; 18FR001713; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Oct-2018*	25-Oct-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a male cat (unknown signalment and health condition prior to product administration), received one pipette of FRONTLINE SPOT-ON CHAT (BN and exp. date: unknown) administered on an unknown date (25 OCT 2018 was chosen by default) for flea treatment. After product administration (unknown time to onset), the animal experienced a lack of efficacy. A pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) was administered topically by the owner 10 days later but fleas were still visible on the animal. No further information was available at the time of this report. This case is linked with the case 18FR1714: reporting of the non-serious SLOE after application of the pipette FRONTLINE COMBO SPOT-ON CHAT to the same cat.
29-Nov-2018	UAE; 18FR001714; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Nov-2018*	04-Nov-2018	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a male cat (unknown signalment and health condition prior to product administration), received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered on an unknown date (04 NOV 2018 was chosen by default) for flea treatment. After product administration (unknown time to onset), fleas were still visible on the animal. No further information was available at the time of this report. This case is linked with the case 18FR1713: reporting of the non-serious SLOE after application of a pipette of FRONTLINE SPOT-ON CHAT 10 days earlier to the same cat.
28-Nov-2018	UAE; 18FR001715; -; France	**Species:** Feline **Breed:** Chinchilla **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Month(s) **Weight:** 1.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018*	28-Nov-2018*	6 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 6-month-old female Chinchilla kitten, 1.5 kg, in good condition, received three pipettes of FRONTLINE COMBO SPOT-ON CHAT (BN: S40219AW, Exp. date: DEC 2020) administered by the owner between OCT and 22 NOV 2018 for flea treatment. After administration of the third pipette (unknown time to onset, phonecall to report the case on the 28 NOV 2018), the owner still found a few fleas on her animal. No further information was available at the time of this report. Note: the owner had treated the animal's environment against fleas.
28-Nov-2018	UAE; 18FR001717; -; France	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used**	01-Oct-2018*	01-Nov-2018*	31 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a dog (unknown signalment and health condition prior to product administration), received FRONTLINE SPRAY (BN and exp. date: unknown) administered by the owner on an unknown date (01 OCT 2018 was chosen by default) for flea treatment. Within 1 month after product administration, fleas were present on the animal. No further information was available at the time of this report. Note: the animal had been previously treated with FRONTLINE COMBO SPOT-ON CHIENS for 5 years and no fleas or other parasites had

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						ok?: Unknown to Company					been seen by the owner on the animal during this period. The owner regularly "cleans" her dog.
29-Nov-2018	UAE; 18FR001724; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.25 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** MILBELTEL (BIOCANINA); **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Nov-2018	05-Nov-2018*	N/A	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a 1.25-year-old female cat, 3 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R41211AW, Exp. date: NOV 2020) administered topically between the shoulders by the owner on 05 NOV 2018 for flea treatment. After product administration (unknown time to onset), even more fleas were present on the animal. A second pipette of FRONTLINE COMBO SPOT-ON CHAT (same BN and exp. date) was administered on 27 NOV 2018 without improvement. No further information was available at the time of this report. Note: MILBELTEL (Biocanina) was administered concomitantly (unknown date) with FRONTLINE. The animal lives exclusively indoors and the owner had treated the animal's environnement (unknown product).
03-Dec-2018	UAE; 18FR001725; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Nov-2018	01-Dec-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Diamant, a 7-year-old male European cat, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S40906AW, Exp. date: JUN 2021) administered topically by the owner on 24 NOV 2018 for flea treatment. 1 week after product administration, on 01 or 02 DEC 2018, the animal was infested by fleas. No further information was available at the time of this report.
05-Dec-2018	UAE; 18FR001742; -; France	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	26-Nov-2018	26-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Marley, a 2-year-old male Chihuahua dog, 3 kg, in good condition, received 3 pulverizations of FRONTLINE SPRAY (BN: nos, Exp. date: JUN 2019) administered by the owner on 26 NOV 2018. After product administration (unknown time to onset), fleas were still visible on the animal. It was treated with SERESTO on 01 DEC 2018 but still had fleas on 03 DEC 2018. No further information was available at the time of this report. Note: the animal had already been treated with FRONTLINE SPRAY (unknown dates of adminsitrations), but this was the first time the owner still saw fleas on the animal. This case is linked with the case 18FR1743: non-serious SLOE in another animal from the same household after administration of the same product.
05-Dec-2018	UAE; 18FR001743; -; France	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 2.000 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	26-Nov-2018	26-Nov-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Princesse, a 9-year-old female Chihuahua dog, 2 kg, in good condition, received 3 pulverizations of FRONTLINE SPRAY (BN: nos, Exp. date: JUN 2019) administered by the owner on 26 NOV 2018 . After product administration (unknown time to onset), fleas were still visible on the animal. It was treated with SERESTO on 01 DEC 2018 but still had fleas on 03 DEC 2018. No further information was available at the time of this report. Note: the animal had already been treated with FRONTLINE SPRAY (unknown dates of adminsitrations), but this was the first time the

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						ok?: Unknown to Company					owner still saw fleas on the animal. This case is linked with the case 18FR1742: non-serious SLOE in another animal from the same household after administration of the same product.
06-Dec-2018	UAE; 18FR001750; -; France	**Species:** Rabbit **Breed:** Dwarf **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 0.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	05-Nov-2018	06-Nov-2018	0 Day(s)	D-D	FR-ANMV-18 CPVL 01870: D0 evening : A young Dwarf Lop rabbit was administered with 1 pipette of FRONTLINE SPOT ON CHAT. D1 morning: it displayed apathy, anorexia. In spite of washing, still troubles D1 afternoon. Duration of reaction: < or = 12 hours. Duration of reaction (precision): Ongoing (A few hours). Reason for treatment: Preventive. Outcome of SAR: Unknown. FRONTLINE SPOT ON CHAT () : 1 pipette; duration: Once; onset time: A few hours.
13-Dec-2018	UAE; 18FR001792; -; France	**Species:** Other **Breed:** Rat **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 0.5 kg	4	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	10-Nov-2018	13-Nov-2018	3 Day(s)	D-C	FR-ANMV-18 CPVL 01927: D0: 4 Rats were applied with each 4 IU of FRONTLINE COMBO SPOT-ON CHAT. D3: one of them it displayed apathy, with constipation, associated with application site erythema. Examination by vet also revealed ureteric disorder (induration at palpation). Written follow-up : Complete recovery within 6 days, with care. Duration of reaction: < or = 7 days. Duration of reaction (precision): 6 days. Reason for treatment: ectoparasites. Treatment of SAR: Shaving and washing of application site, Activated charcoal, Fluid therapy, Forced feeding, Antalgics. Investigations: ? Outcome of SAR: Favorable. FRONTLINE COMBO SPOT-ON CHAT () : 4 IU (20 mg/kg bw); duration: Once; onset time: 3 days.
13-Dec-2018	UAE; 18FR001793; -; France	**Species:** Rabbit **Breed:** Rabbit (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	24-Nov-2018	25-Nov-2018	1 Day(s)	D-C	FR-ANMV-18 CPVL 02038: D0: rabbit applied by owner with 1 whole pipette of FRONTLINE SPOT ON CHAT. Note : product advised and sold by pharmacist. D1: it began to display lethargy. D1 to D11 : still apathetic condition. D11 (vet phone call) : vet examination because of healthstate decrease, with digestive ileus. Duration of reaction: < or = 14 days. Duration of reaction (precision): ongoing (10 days). Reason for treatment: ectoparasites. Treatment of SAR: probiotics. Investigations: ? Outcome of SAR: Unknown. FRONTLINE SPOT ON CHAT () : 1 pipette; duration: once; onset time: < 24 hours.
10-Dec-2018	UAE; 18FR001810; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous	01-Dec-2018*	09-Dec-2018	8 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, a cat (unknown signalment) in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: 21517AX, Exp. date: SEP 2020) administered by the owner on an unknown date (01 DEC 2018 was chosen by default) for flea treatment. After product administration (unknown time to onset), on 09 DEC 2018, the animal was still scratching and fleas were still visible. No further information was available at the time of this report.

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						Was the product used ok?: Unknown to Company					
14-Dec-2018	UAE; 18FR001812; -; France	**Species:** Feline **Breed:** British Shorthair **Sex:** M **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 3.6 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Nov-2018	09-Nov-2018	1 Day(s)	D-C	FR-ANMV-18 CPVL 01891: D0: A cat was applied with FRONTLINE COMBO SPOT-ON CHAT in spot on with licking. D1 evening: onset of signs. D2: presented with vomiting (with blood traces) and hard stools. Blood work-up yielded elevated liver enzymes (NOS). Duration of reaction: < or = 12 hours. Duration of reaction (precision): Ongoing (12 hours). Reason for treatment: Preventive. Outcome of SAR: unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: Once; onset time: 24 hours.
12-Dec-2018	UAE; 18FR001818; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 4 kg	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Dec-2018	11-Dec-2018*	6 Day(s)	D-D	Suspected Adverse Event: As reported by the animal's owner, Juno, a 4-year-old spayed female cat, 4 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R40505HW, Exp. date: APR 2020) administered between the shoulders by the owner on 05 DEC 2018 for flea treatment for the first time. 6 days after product administration, on 11 DEC 2018 the owner observed a red patch at application site and then slight bleeding and crust. At the time of this report the reaction was improving slowly. No further information was available at the time of this report.
12-Dec-2018	UAE; 18FR001819; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 1 kg*	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Nov-2018*	15-Nov-2018*	0 Day(s)	D-A	Suspected Adverse Event: As reported by the animal's owner, a female European kitten, less than 1 year old, more than 1 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: S0135AX, Exp. date: 12 FEB 2020) administered topically in the neck between the ears mid NOV 2018. 1 hour after product administration, on the same day at 8:00 pm, the animal experienced convulsion and panting. It was brought to the vet (unknown) but died on the following day. Note: the animal had already been treated with FRONTLINE COMBO SPOT-ON CHAT (unknown dates).
14-Dec-2018	UAE; 18FR001821; -; France	**Species:** Feline **Breed:** European **Sex:** F **Sex qualifier:** Not applicable **Age:** 2.00 Month(s) **Weight:** 0.75 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** MILBEMAX COMPRIMES PELLICULES POUR PETITS CHATS ET	04-Dec-2018	05-Dec-2018	1 Day(s)	D-B	FR-ANMV-18 CPVL 02040: D0 afternoon: An European kitten was administered with FRONTLINE COMBO SPOT-ON CHAT and MILBEMAX COMPRIMES PELLICULES POUR PETITS CHATS ET CHATONS by the vet. Same evening, no trouble. D1 morning: good health condition except ear twitching. D1 evening: trembling. D2 morning: cat in recumbency, with some convulsion (NOS), but remained conscious. Note: no reported contact with permethrin. Duration of reaction: < or = 24 hours. Duration of reaction (precision): Ongoing (24h). Reason for treatment: Preventive. Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: Once; onset time: < 18h. MILBEMAX COMPRIMES PELLICULES POUR PETITS CHATS ET

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						CHATONS; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)					CHATONS () : 1/2 tablet; duration: Once; onset time: < 18 h.
17-Dec-2018	UAE; 18FR001828; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 6.3 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Dec-2018	12-Dec-2018	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Baguehra, a 11-year-old male cat, 6.3 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: R40309FW, Exp. date: JAN 2020) administered topically by the owner between the shoulders on 05 DEC 2018 for flea treatment. After product administration (unknown time to onset), on 05 DEC 2018, fleas were still present on the animal. On 07 DEC 2018, the owner administered a second pipette of FRONTLINE COMBO SPOT-ON CHAT from the same box. No improvement was observed and the animal received a third pipette from the same box on 12 DEC 2018 without better results. No further information was available at the time of this report. Note: the animal lives almost exclusively indoors and the owner had treated the animal's environnement with a fogger (unspecified). The owner reported that during the summer 2018 she had to use two pipettes of FRONTLINE COMBO SPOT-ON CHAT (unknown dates of administration) to observe efficacy.
17-Dec-2018	UAE; 18FR001829; -; France	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 3.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Antibiotics (unspecified); **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Nov-2018	13-Nov-2018	2 Day(s)	D-D	FR-ANMV-18 CPVL 01919: D0: European cat applied with FRONTLINE SPOT ON CHAT. D2 evening: it displayed fatigue, reluctance to move, and seemed 'painful'. D3 evening: washed D4 morning: improving. Note: within 3 days after first application (one month before), the cat had displayed similar signs (fatigue, apathy, groaning). At examination, vet had suspected haemobartonellosis. Inconclusive blood smear. Cat had been prescribed with antibiotics for 6 weeks, and signs dramatically improved within 2 days. Cat still receiving antibiotic at time of second application of FRONTLINE. Duration of reaction: < or = 48 hours. Duration of reaction (precision): ongoing (2 days). Reason for treatment: preventive (fleas). Outcome of SAR: Unknown. FRONTLINE SPOT ON CHAT () : 1 pipette; duration: Once; onset time: 2 days.
28-Dec-2018	UAE; 18FR001887; -; France	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00 Month(s) **Weight:** 2.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Dec-2018	08-Dec-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the animal's owner, Niki, a 7-month-old male kitten, 2.1 kg, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN: S41001AW, Exp. date: JUL 2021) administered topically at the base of the neck between the shoulders by the owner on 08 DEC 2018 for flea treatment. After product administration (unknown time to onset), fleas were still visible on the animal. The animal had been treated with ADVANTAGE (unkown date of application) and no more fleas were observed on the animal since. Note: the animal lives exclusively indoors and the owner had treated the animal's environnement against fleas (unspecified treatment).

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01-Oct-2018	UAE; 18IT000140; -; Italy	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 6 kg	1	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Contraindication per label)	10-Sep-2018	10-Sep-2018	0 Day(s)	D-D	As reported by the Owner, a dog, age unknown, 6 kg, female, received Frontline Combo Spot on dog 2-10 kg, on 10.09.2018 (batch lotto r60113cx, exp 12/2019) 1 pipette, administered by (DVM/other…). Anyway dog showed fleas. The previous application was on August 23 (less than 1 mpnth as reported on the abel).
11-Oct-2018	UAE; 18IT000142; -; Italy	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** U **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** -	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	01-Sep-2018*	01-Sep-2018	N/A	D-D	As reported by the animal owner, a Jack Russel, 2 years, sex unknown, weight unknown, received Frontline Combo Spot on Cani (BATCH and EXPIRY DATE unknown) topical, 1 pipette administered by owner on September 1st (chosen by defalult as the precise date is unknown). The dog was treated with same product, starting from 2016, also on March, April, May, June, July, August and 15 days before last application. Despite last treatment the owner saw some fleas on the dog.the dog is in contact with cats not tretated and with another dog
14-Oct-2018	UAE; 18JP000542; -; Japan	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Oct-2018	08-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, in the spring of 2018, two kittens (Age, Sex, BW and Breed: unknown) were adopted and were administered Revolution due to flea infestation. Fleas disappeared soon after administration. Around 08 Oct 2018, same two kittens were administered Frontline Plus Cat (Lot number and Expiry date: unknown, Route: topical, Dose: 0.5 mL), which had been a little cheaper than Revolution and purchased from Amazon , since flea infestation had occurred again. However, flea infestation is still present, on 15 Sep 2018, showing lack of efficacy.
16-Oct-2018	UAE; 18JP000543; Tokyo; Japan	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 4.74 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	Jan-2010*	13-Oct-2018	0 Day(s)	D-C	As reported by the attending veterinarian, on 13 Oct 2018, Frontline Plus Dog XS (Lot number: P62715, Expiry date: Oct-2019, topical, 0.5 mL) was administered to a 9 year old, 4.74 kg, female, spayed toy poodle by animal orner after a walk, and the dog developed reddening on the back after a few minutes of administration. When the dog was brought to the animal hospital, the veterinarian, the director of the hospital, observed urticaria on the middle of the back and on the abdomen. The condition of the dog is stable. Prednisolone 1 mg/kg was subcutaneously administered. The dog recovered on 15 Oct 2018. As for other information, the food for the dog has been changed around 20 Sep

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						product used ok?: Yes					2018.
25-Oct-2018	UAE; 18JP000585; -; Japan	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Pregnant **Age:** 5.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	Oct-2018*	0 Day(s)	D-A	As reported by the animal owner, in Oct 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an about 5 years old, female, intact cat (Breed and BW: unknown), which is one of his cats. Subsequently, in Oct 2018, the cat gave birth to three kittens, of which a small and frail female kitten died on the day of birth. The two kittens died at about a week old. In the past, two other cats that lived in the same house also died after administration of Frontline Plus Cat.
25-Oct-2018	UAE; 18JP000586; -; Japan	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 1.6 kg*	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	Oct-2018*	0 Day(s)	D-A	As reported by the animal owner, in Oct 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an about 1.6 kg adult cat (Breed and Sex: unknown), which was one of his cats. Subsequently, the cat died. (Date of death is unknown.)
25-Oct-2018	UAE; 18JP000587; -; Japan	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 1.6 kg*	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	Jul-2018*	2 Week(s)	D-A	As reported by the animal owner, on 17 Jul 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an abiyt 1.6 kg adult cat (Breed and Sex: unknown), which was one of his cats. Subsequently, the cat died.
01-Oct-2018	UAE; 18NL000185; -; Netherlands	**Species:** Canine **Breed:** Shepherd Dog (Others) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	15-May-2018*	15-Jun-2018*	31 Day(s)	D-C	Suspected Adverse Event: In a message on Social Media the reporter warned owners not to apply anti-fleas drops, Frontline or similar products on Kangal dogs because of possible side effects . 3 or 4 weeks after the administration the dogs can experience hair loss on the application site, followed by a bald spot on the backside. Later itchy bumps may appear on the foreleg or on multiple legs. The reporters' dog has developed these symptoms after the application of FRONTLINE or a similar product (exact product and strength unknown). Application date and event date are fictional. After more than 3 months that dog is still under treatment. According to the reporter, the dermatologist has said

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											that these reactions are probably related to the light hair color or to the sensitivity of this breed. No background information available on this person, so unknown if the dermatologist is a veterinary specialist.
08-Oct-2018	UAE; 18NL000190; -; Netherlands	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 46 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	20-Sep-2018	25-Sep-2018*	N/A	D-D	Suspected lack of efficacy: As reported by the pet owner, the dog (Pit bull, neutered male, 3 years old, 46 kg) received FRONTLINE SPOT ON HOND XL (batch nr and expiry date unknown), topically between the shoulders, administered by the owner on 20092018 and on 27092018 The two cats in the household received Frontline Spot On Kat (batch nr and expiry date unknown) on the same dates. Multiple fleas were present on the animals before the first treatment. The humans in the household are also bitten by fleas. The house was cleaned and treated with an anti-flea spray twice. Despite the treatments, the animals still have fleas. The cats have outdoor access. The SLOE regarding Frontline Spot on Kat is reported separately.
08-Oct-2018	UAE; 18NL000191; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	20-Sep-2018	25-Sep-2018*	N/A	D-D	Suspected lack of efficacy: As reported by the pet owner, the two cats (Domestic Shorthairs, neutered males, cat one is one year old and weights 7 kg, cat two is 7 years old and weights 4 kg)dog (Pit bull, neutered male, 3 years old, 46 kg) received FRONTLINE SPOT ON (batch nr and expiry date unknown), topically between the shoulders, administered by the owner on 20092018 and on 27092018 The Pit bull dog in the household received Frontline Spot On Hond XL (batch nr and expiry date unknown) on the same dates. Multiple fleas were present on the animals before the first treatment. The humans in the household are also bitten by fleas. The house was cleaned and treated with an anti-flea spray twice. Despite the treatments the animals still have fleas. The cats have outdoor access. The SLOE regarding Frontline Spot on Hond XL is reported separately, case number 18NL000190.
10-Oct-2018	UAE; 18NL000194; -; Netherlands	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 2.1 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	30-Sep-2018	02-Oct-2018*	0 Day(s)	D-D	Suspected lack of efficacy: As reported by the owner three dogs (a Jack Russell Terrier, 4 years old, 7 kg, ID name and sex unknown, a Chihuahua, 8 years old, 4.6 kg and a Chihuahua, 4 years old, 2.1 kg) were treated with FRONTLINE SPRAY 250ml (batch and expiry date unknown) by the owner on 30092018 and 2 days later again. Multiple fleas were present on the dogs before the first treatment. It is unknown whether the dogs received the correct amount of spray. After these treatments, the dogs still had fleas. On 04102018 the Jack Russell terrier was shaved and all dogs were bathed with an anti-flea shampoo. On 05102018 all dogs received Bolfo drops (active ingredient unknown). Not known if the dogs are flea free now.
10-Oct-2018	UAE; 18NL000195; -; Netherlands	**Species:** Canine **Breed:** Retriever (N. Scotia Duck Tolling) **Sex:** M **Sex qualifier:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	11-Aug-2018*	13-Aug-2018*	N/A	D-D	Suspected lack of efficacy: As reported by the pet owner, the dog (Nova Scotia Duck Tolling Retriever, intact male, 1 year old, approximately 25 kg) received FRONTLINE COMBO HOND L (batch and expiry date unknown), topically in the neck, administered by the owner on approximately 11082018 and 08092018. In the first week after the first application 3 small ticks

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		Age: 1.00 Year(s) **Weight:** 25 kg				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					were detected on the dog. In the following weeks regularly small ticks were found. Since approximately 2.5 weeks ago daily fleas and flea feces were seen on the dog. Before the application of FL, the dog received Beaphar drops (active ingredient Fipronil) every month. No fleas and ticks were observed then. On approximately 06102018 Beaphar was applied. A few days later the dog still had fleas, but numbers seems to decline. The dog is very active: he roams daily through high grass and rolls a lot in this. Also he swims in the sea almost every day, but not in the first 5 days after the application of an anti-flea product. There are also 2 cats in the household; they received Beaphar every month. The cats are combed every day and no fleas are found on them. Cats have outdoor access.
19-Oct-2018	UAE; 18NL000203; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 4.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -	01-Jun-2010*	09-Oct-2018	N/A	D-D	Suspected lack of efficacy: As reported by the owner the two cats (Domestic Shorthairs, 13 years old, one neutered male weighing 4.9 kg and one neutered female weighing 4.5 kg) received FRONTLINE COMBO KAT (Batch no and expiry date unknown), topically between the shoulders, administered by the owner every six weeks for many years. Start date is fictional. Four days after the administration on 05102018 a routine checkup was performed by the veterinarian and flea feces were observed on the cats. At home the owner detected approximately 7 fleas per cat. On 13102018 the cats received another pipette. Despite these treatments by every inspection fleas are still present on the cats. On 18102018 three fleas were found on the male cat and two small fleas on the female cat. The cats have outdoor access and there are a lot of cats in the neighborhood.
06-Nov-2018	UAE; 18NL000209; -; Netherlands	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	26-Oct-2018*	25 Day(s)	D-D	as reported by the pet owner her dogs, 3 chihuahua's (9 months, 1 and 3 years old, weight and sex unknown) and 3 German Shepherd dogs (6,8 and 10 years old, weight and sex unknown) received Frontline combo respectivaly S and L (both batch number and expiry date unknown) around the beginning of October. The Frontline combo was administered according labeling by the owner.Besides the six dogs, of which two live outdoors, the owner also has three cats, 1 Siamese and 2 domestic shorthairs. The cats were administered Frontline combo cat. On the 26th of October the owner is still experiencing fleas on the animals, unknown how many and if this is less than before treatment with Frontline Combo. The owner has used Frontline Combo before, but only when she experiences fleas on her pets and it's unknown when this was before the last administration. Because she still experiences fleas she suspects lack of efficacy. Unfortunatly she's not willing to answer all questions. This case is the same as 18NL000210: this one is the case concerning the cats.
06-Nov-2018	UAE; 18NL000210; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** unknown **Weight:** unknown	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Oct-2018*	26-Oct-2018*	25 Day(s)	D-D	as reported by the pet owner her cats (1 Siamese, 2 domestic shorthairs, sex, age and weight unknown) received Frontline combo cat (batch number and expiry date unknown) around the beginning of October. The Frontline combo was administered according labeling by the owner.Besides the tree cats the owner also has six dogs, 3 Chihuahuas and 3 German Shepherds. The dogs also received Frontline Combo (S resp.L). On the 26th of October the owner is still experiencing fleas on the animals, unknown how many and if this is less than before treatment with Frontline Combo. The owner has used Frontline Combo before, but only when she experiences fleas on her pets and it's unknown when this was before the last administration. Because she still

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						ok?: Yes					experiences fleas she suspects lack of efficacy. Unfortunatly she's not willing to answer all questions.This case is the same as case 18NL000209, which is the case concerning the dogs.
06-Nov-2018	UAE; 18NL000212; -; Netherlands	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2 kg	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	22-Oct-2018*	3 Week(s)	D-D	As reported by the pet owner her dogs, 2 Chihuahuas (Chanel, intact female, 7 years old, 3kg and Bendy, intact female, 2 years old, 2 kg) received Frontline Combo S (batchnumber and expiry date unknown) on the skin between shoulderblades according labeling. This was somewhere in September or October because all animals are experiencing fleas (also 3 cats with outdoor access). She has used different products before, but only once Frontline Combo S. Approcimately on the 22th of October she administered Bolfo gold on the dogs because she still finds 10 fleas per animal per day. Pet owner used a spray for the environment on a mattress, carpet and couch. She suspect lack of efficacy
06-Nov-2018	UAE; 18NL000213; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 14.00 Week(s) **Weight:** 1.08 kg	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018*	29-Oct-2018*	2 Week(s)	D-D	As reported by the pet owner she administered Frontline Combo cat (batchnumber and expiry date unknown) to her two kittens of 12 weeks old (both domestic shorthair, male, one 1.08 kg, the other 1.118kg) on the skin between shoulderblades on approximately the 15th of October. Kittens came in the house one week before and were seriously infested with fleas. Two weeks later the attending vet experienced one flea on each kitten and owner expects lack of efficacy, although she doesn't find any fleas anymore when combing the kittens.
05-Nov-2018	UAE; 18NL000214; -; Netherlands	**Species:** Canine **Breed:** Shar Pei **Sex:** U **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Oct-2018	24-Oct-2018*	N/A	D-D	as reported by the owner her dog (Sharpei, name and sex unknown, 1.5years old, 18 kg) receives every 8 weeks Frontline Combo M. Owner experienced 7 fleas in the last week before 31th of October. On this day she administered Frontline combo M and unknown if she experienced fleas on her dog the last days. She also has a cat (domestic shorthair, 5 years old) which has outdoor access and is receiving Frontline Combo cat every 4 weeks. Owner expects lack of efficacy.
06-Nov-2018	UAE; 18NL000215; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 5 kg	-	-	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2018*	02-Nov-2018*	4 Week(s)	D-D	As reported by the owner her cats (both Domestic Shorthair, Ollie, neutered male , 7 years old, 7 kg and Rovertje, intact female, 5 years and 5 kg) receive several antifleaproducts every 4 weeks. Last 3 times this was Frontline spot on Cat (batchnumber and expiry date unknown). On approximately the 2th of November the attending vet discoverd some fleas and fleafaeces and adviced to give Frontline Combo Cat instead of spot on. She administered this on the skin just above the shoulderblades. Cats live in a forestrich environment with a lot of other cats etc. She suspects lack of efficacy

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07-Nov-2018	UAE; 18NL000216; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Month(s) **Weight:** na	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Jun-2018	27-Jun-2018	3 Day(s)	D-D	As reported by the owner her cat Jerry (now neutered male, Domestic Shorthair, 9 months old, weight unknown) received on the 24 th of June Frontline Combo Cat on the skin unknown exactly where, because he was experiencing a lot of fleas when he came in on the 22th of June. The other 5 indoor cats in this household were also treated with Frontline Combo cat. After 3 days the owner still saw several fleas and went to a vet who subscribed Stronghold. One day later no fleas have been seen anymore. Owner suspects lack of efficacy
13-Nov-2018	UAE; 18NL000220; -; Netherlands	**Species:** Canine **Breed:** Canine Other **Sex:** U **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 5 kg	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	21-Oct-2018	07-Nov-2018*	17 Day(s)	D-D	As reported by the owner she administered Frontline Combo S (batch and expiry date unknown) to her 4 dogs (3 Chihuahua's, 1 Boomer, 1.5 year to 8 years of age, max 5kg, sex and names unknown) on the 21th of October on the skin between shoulderblades and backwards. After a few weeks she experienced fleas on her dogs, unknown how many. Follow up one day later owner reported she had seen fleas one week before but not anymore this moment. Owner also has 2 cats that are not treated with any kind of insecticide. She used Frontline Combo once before with at least 6 weeks in between. Owner suspects lack of efficacy.
29-Nov-2018	UAE; 18NL000228; -; Netherlands	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 20 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Nov-2018	28-Nov-2018	0 Day(s)	D-D	As reported by the owner her dog Apachi (female pitbull, 2 years old, approximately 20kg) received on the 28th of November Frontline combo L (batchnumber and expiry date unknown) on her skin in the neck. It was admistered by the owner herself. After approximately 5 hours the dog experienced shaking, bended through her legs and was panting. This lasted during the night. The following day the dog recovered. Owner did not consult a vet. It's unclear whether the dog also took in some Frontline combo orally and the owner states that it's not impossible Apachi ate something else which could have caused the adverse event. It was the first time the dog was administered Frontline combo.
28-Nov-2018	UAE; 18NL000229; -; Netherlands	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 25 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2016*	24-Oct-2018*	N/A	D-D	As reported by pet owner, Kruimel, a 2 year old 25 kilo German Sheppard Dog of unknown reproductive status received FRONTLINE COMBO L batch number R61609AR with expiry date Jul 2020 cutaneous between the shoulder blades by the dog owner every 6 weeks. Approximately 5 weeks after product last administration the animal owner experienced fleas on the dog for the first time. The dog is combed daily by the owner, resulting in discovery of 4 fleas on average per day.

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27-Nov-2018	UAE; 18NL000235; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	27-May-2018*	26-Oct-2018*	N/A	D-D	As reported by pet owner, cats of unknown breed, unknown age, unknown weight and of unknown reproductive status received FRONTLINE COMBO KAT by the cats owner for approximately 6 months with unknown frequency. Prior to first treatment, fleas were present on the cats. The animal owner experienced fleas on the cats more than a month ago. Last product administration was 27-nov-2018. It is unknown if the cats have contact with other animals. It is unknown if the cats are housed with other animals and if the cats go outside. 2018.12.13 despite trying could not contact owner for more information
28-Nov-2018	UAE; 18NL000236; -; Netherlands	**Species:** Feline **Breed:** European **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** Unknown to Company	09-Sep-2018	11-Sep-2018*	2 Day(s)	D-D	As reported by pet owner, male European neutered cat Jones, 8 years old approximately 5 kg received FRONTLINE COMBO KAT by the cat owner once on 09-Sep-2018. The animal owner experienced fleas on the cat a few days after this dose of the product. Cat owner reports almost immediately after treatment the cat experienced scratching, licking and scabs. It is unknown if the cat has contact with other animals. It is unknown if the cat is housed with other animals. The cat goes outside. Owner has treated the cat with Activyl for the past 2 months and fleas disappeared in under 1 week. 17-Dec-2018 follow up information received, case updated.
28-Nov-2018	UAE; 18NL000237; -; Netherlands	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	07-Nov-2018	21-Nov-2018*	2 Week(s)	D-D	As reported by pet owner, mini doodle cross dog Luna, 7 kg, 3 years old of unknown reproductive status received FRONTLINE SPOT ON S on the skin between the shoulder blades from the dog owner on 07-Nov-2018. The animal owner experienced many fleas on the dog approximately 2 weeks after this dose of the product. Dog has been treated with an unspecified flea shampoo by a groomer and no more fleas have been found since. 2 days after this treatment FRONTLINE SPOT ON S has been administered. 13-Dec-2018 case updated based on follow up contact with pet owner. No more flees have been found for 2 consecutive days.
03-Dec-2018	UAE; 18NL000238; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** -	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	19-Nov-2018	19-Nov-2018*	0 Day(s)	D-D	As reported by pet owner, 2 cats, 1 adult and 1 13 weeks old of unknown weight, unknown sex and unknown reproductive status received FRONTLINE SPOT ON KAT by the owner on 19-nov-2018. Prior to treatment, fleas were present on the cats. The animal owner experienced 1 flea and flea poop on the cats after treatment. It is unknown if the cats are housed with other animals or have contact with other animals.
03-Dec-2018	UAE; 18NL000240; -; Netherlands	**Species:** Canine **Breed:** Canine	3	3	0	**Product used:** FIPRONIL 10%/S	01-Jun-2018*	25-Nov-2018*	24 Day(s)	D-D	as posted on the BI facebook page a dog owner states that Frontline (unknown which Frontline product) didn't work as expected on her 3 dogs (unknown breed, gender, age, weight)

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		(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					
10-Dec-2018	UAE; 18NL000243; -; Netherlands	**Species:** Feline **Breed:** - **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 4.6 kg	2	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Comfortis 270 mg chewable tablets for dogs and cats; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Contraindication per label)	15-Nov-2018	17-Nov-2018	N/A	D-A	On 19 Nov 2018, the attending vet contacted Elanco to report an adverse event associated to Comfortis in 2 to 3 year, 4.6 kg, male neutered domestic-shorthair feline of an unknown condition. The cat was having very bad flea infestation so the owner had washed the cat with dish cleaner on 15 Nov 2018 afternoon but that did not work well so in the evening on the same day, the owner applied a spot on. That was also does not had any good result. The owner came to the vet and bought a Comfortis tablet for both cats in the household. The cats were not seen by the vet. The owner administered the Comfortis 270mg tablet Saturday morning at 5:30 am on 17 Nov 2018. The cat was fine all day, eating, drinking and playing. Then on 17:00h the same day, the animal was suddenly found dead under the kitchen table. The other cat was fine. The attending veterinarian expressed a Medium level of suspicion that the sign was related to product use. Elanco considers this case closed; additional information will be filed as received. Update 3 Dec2018: The necropsy results were updated. Animal with moderate pulmonary congestion and edema and marked congestion of the liver. These lesions were commonly seen in cats suffering from a functional heart problem. The lesions of spinosad intoxication in cats have not been described as far as we know. In other species, (rats and dogs) chronic spinosad intoxication causes vacuolization of lymphoid tissue as well as epithelial cells; no such lesions were present in this case. In addition, no signs of hepatitis or hepatic necrosis, as observed in idiosyncratic toxicity were present either. The mineralization seen in the kidney are considered to be of small importance regarding the death of the animal. The toxoplasma bradyzoites are likely of small relevance in this case due to the lack of associated inflammatory infiltration in the brain of this animal as well as the lack of neurological signs. The cat was well muscled and with prominent fat deposits.
10-Dec-2018	UAE; 18NL000244; -; Netherlands	**Species:** Canine **Breed:** Rottweiler **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 32.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRALONE 2.5 mg/ml huidspray hond en kat; UNKNOWN AEROSOL; **Route:** Topical / Cutaneous	2018	06-Sep-2018	unknown period	D-B	Medical history of the dog: Dog was presented at the veterinarian on the 6th of September with epileptic seizures, possible clusters. Dog had multiple seizures within 24 hours. Biochemical analysis in blood was done, no deviations. Treatment was started with phenobarbital. After 3 weeks dosage phenobarbital was lowered with 25%. The dog had another seizure in the weekend of November 17th and 18th. Veterinarian can't rule out the use of biocide/VMP's as trigger/cause, but other causes aren't ruled out and idiopathic epilepsy is still possible. Multiple VMP's and one biocide were used in period prior to the start of the seizures. Owner is convinced there's a relation between

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						Was the product used ok?: Unknown to Company					the use of the biocide/VMP's and the start of the seizures. Biocide with permethrin 0,25% and tetramethrin 0,05% was sprayed on the dogbed two days prior to the first seizure. Unknown when the other VMP's are used in relation to the first seizure. Reason for treatment: Flea Treatment Treatment of SAR: Phenobarbital; After 3 weeks dosage phenobarbital was lowered with 25%. Outcome of SAR: Unknown
27-Dec-2018	UAE; 18NL000260; -; Netherlands	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** unknown **Weight:** unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Nov-2018	15-Nov-2018	N/A	D-D	Owner called via phone service on 24 DEC 2018; 3 cats, all were treated twice with FTL Combo, flees were present at the start of treatment, and were still present after second treatment. First treatment date 15 NOV 2018, estimated second treatment 4 weeks later; 14 DEC 2018. Owner is not satisified with result and has started treatment with another product. After start of the other product flees are no longer seen. Explanation that treatment will not prevent investation of new flees from environment during 6 weeks or longer can still occur when the house is invested with flee eggs and pops is not accepted by the owner.
12-Oct-2018	UAE; 18NZ000279; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 18.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2018	13-Oct-2018	0 Day(s)	D-D	As reported to me by the owner she applied Frontline Plus for Cats (FLP), batch P41509AW, expiry 01 November 2019, to her 18 year old, FN, DSH cat, on 10 Oct 2018. On 13 Oct 2018 the owner complained the cat jumped off her lap and left behind six twitching fleas and that those fleas should have been dead by now after three days. The owner said recently she had flea-bites on herself and that this FLP treatment was the first she had given her cat in at least four months. She complained to the clinic who then treated the cat with Comfortis. No further information is available.
22-Oct-2018	UAE; 18NZ000287; -; New Zealand	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Oct-2018	10-Oct-2018	0 Day(s)	D-D	As reported by the owner, FRONTLINE Plus (FLP) for dogs (size, expiry and batch number unknown) was applied topically to a puppy (further details unknown) by the owner on 10 October 2018. At the same time, FLP for cats (size, expiry and batch number unknown) was applied to two cats (further details unknown). Previous flea treatment products and time of applications are unknown. According to the owner, she has since seen one small flea on the puppy and noticed the puppy scratching. It is unknown if she has seen fleas on the cats. All spend time both indoors and outdoors.
16-Oct-2018	UAE; 18NZ000289; -; New Zealand	**Species:** Canine **Breed:** Maltese **Sex:** U	1	1	0	**Product used:** FIPRONIL 10%/S	22-Sep-2018	22-Sep-2018	N/A	D-D	As reported by the owner, FRONTLINE PLUS for Dogs (FLP), unknown batch and expiry, was applied topically to a 7 year old Maltese dog called Louie on approximately 22 September 2018

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		Sex qualifier: Unknown **Age:** 7.00 Year(s) **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					(exact date unknown). On 6 October 2018, approximately two weeks after the initial application, the owner noted one flea in the coat and a small amount of flea dirt. She repeated application of FLP at this time on the advice of her local veterinarian. No flea treatment had been given for 4-5 months prior to the initial FLP treatment reported. The owner may have showered the dog 24 hours post the initial FLP treatment. No flea problems had been previously noted by the owner. Currently, the owner is seeing flea dirt in the hair coat.
24-Oct-2018	UAE; 18NZ000290; -; New Zealand	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 3.5 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	17-Oct-2018	0 Day(s)	D-D	As reported by the owner, FRONTLINE Plus for cats (FLP), BN R41015 expiry 8/2020, was applied topically on the 17 October 2018 to Winter, a 1yo 3.5kg female neutered Domestic Long Hair cat. Currently the owner is seeing 2-4 live fleas, mostly around the base of the tail. Previously, Winter was treated with Advantage on approximately 21 September 2018, after which the owner continued to see live fleas. The house was treated with a flea bomb on 22 October 2018.
23-Oct-2018	UAE; 18NZ000295; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 3.5 kg*	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Oct-2018	03-Aug-2018	N/A	D-D	As reported by the owner, FRONTLINE PLUS (FLP) for cats, batch P41302BW expiry October 2018, was applied topically to her cat Tick Tick, a 3 year old female neutered Domestic Short Hair, on 3 August 2018 and 2 October 2018. She also applied FLP to the other cat in the household on these dates (no other information available). The owner had noticed fleas prior to beginning treatment. Tick Tick was taken to her vet clinic on 17 October where alopecia at the tail base and flea dirt was noted. The owner also had noted Tick Tick scratching frequently. The local vet clinic applied Bravecto and the owner describes the signs resolving after this treatment. Her other cat is reported to have no signs of flea related concerns and no members of the household have noted flea bites. Both cats spend time indoors and outdoors.
13-Nov-2018	UAE; 18NZ000305; -; New Zealand	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Oct-2018	29-Oct-2018	N/A	D-D	As reported by the owner, a 4 month old male kitten and 12 year old cat (further information unavailable) were treated with FRONTLINE PLUS for cats, administered by the owner, on 29 Oct 2019, then again on 10 Nov 2018. The kitten was previously flea treated with an unknown product by a veterinarian. Following the first flea treatment, the owner noted around 10-20 fleas on the kitten only and described most of these as small. She combed the kitten to remove the adult fleas but more were seen the next day and this is ongoing. Flea bites were also noted on a child in the house although this has reduced. Both cats spend a large amount of time outdoors.
04-Dec-2018	UAE; 18NZ000319; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	01-Apr-2018*	01-Apr-2018*	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLUS for cats (unknown batch and expiry) was applied to "Pikelet', a 6 year old female neutered 3.9kg domestic short hair cat in April 2018 (exact date unknown) by the owner. Immediately after product application, the cat began running around excessively and was very aggitated.

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		Sex qualifier: Neutered **Age:** 6.00 Year(s) **Weight:** 3.94 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					This continued for 20 minutes, after which the cat settled and returned to normal. No alopecia or skin changes were noted at the application site and there are no on going concerns. Pikelet had not had any previous flea treatment applied. She is otherwise well.
21-Dec-2018	UAE; 18NZ000338; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Dec-2018	05-Dec-2018	0 Day(s)	D-D	As reported by the owner, FRONTLINE Plus for Cats (batch and expiry unknown) was applied topically to two cats in a household on 5 Dec 2018. One of these is Forest, a 3 year old female neutered Domestic Shorthair, weight unknown. The owner reports she is seeing approximately 8 fleas per day on Forest and this is ongoing. Adult fleas were seen prior to FRONTLINE PLUS application and no flea treatment had been applied for at least two months before this application. Previously, Advantage flea treatment had been used. Forest has access to the outdoors. This case is linked to 18NZ000339
21-Dec-2018	UAE; 18NZ000339; -; New Zealand	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Dec-2018	05-Dec-2018	0 Day(s)	D-D	As reported by the owner, FRONTLINE PLus for Cats (batch and expiry unknown) was applied to two cats in a household on 5 Dec 2018. One of them, Wolf, is a 2 year old male neutered Domestic Shorthair, weight unknown. The owner reports she is seeing approximately 8 fleas per day on Wolf and this is ongoing. Adult fleas were seen prior to FRONTLINE PLUS application and no flea treatment had been applied for at least two months prior to this application. Previously, Advantage flea treatment had been used. Wolf has access to the outdoors. This case is linked to 18NZ000338 (other cat in household).
15-Nov-2018	UAE; 18SE000184; -; Sweden	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 4.43 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Mar-2015	29-Mar-2015	<=6 hours	D-D	An adverse event report received by the MPA on April 09, 2015, regarding a cat, domestic short-hair, neutered male, 15 years old, bodyweight 4,43 kg. The cat was treated with Frontline spot-on on March 29, 2015 due to tick prevention. No concomitant medications. 5-6 hours after administration the cat started to vomit. After Frontline administration the cat has not wanted to eat. Dull. On April 01, 2015 the cat had completely recovered.
15-Nov-2018	UAE; 18SE000185; -; Sweden	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** M **Sex qualifier:** - **Age:** 13.00 Year(s) **Weight:** 10.8 kg	4	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous	15-Oct-2018	15-Oct-2018	<=6 hours	D-B	A serious adverse event report from a veterinarian received by the MPA on October 25, 2018, regarding a dog, Shetland Sheepdog, male, 13 years old and bodyweight 10.8 kg. On October 15, four dogs were treated with Frontline vet., spot-on solution 100 mg/mL, dose one pipette with 0.67 mL on the skin, batch no. unknown, as tick prophylaxis. One of the dogs got adverse reactions.

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						Was the product used ok?: Yes					Two hours after application of Frontline the dog got a tonic seizure , the dog fell on the side and had horizontal nystagmus. The seizure lasted for 1-2 minutes; afterwards the dog was a bit dull but otherwise normal. Two days later, the dog got a seizure with impact on the eyes, stiff front legs, impaired balance and horizontal nystagmus. After 1-2 minutes the dog was normal. On October 22, the third episode occurred, the dog had impaired balance and panted, but had not nystagmus, and this lasted for 10-20 seconds. After veterinary examination the dog was prescribed Gabapentin, and Andapsin could be given if necessary. Apart from of a disability with epileptic seizures, the dog has recovered.
17-Oct-2018	UAE; 18TR000022; -; Turkey	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 18 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	17-Oct-2018*	0 Day(s)	D-C	Suspected Adverse Reaction: As reported by the BI employee, a dog (other signalments unknown), in an unknown health condition, received FRONTLINE SPRAY (BN and exp date unknown), route and dose unknown, administered by an unknown person, on an unknown date (18 OCT 2018 was chosen by default). On an unknown date (18 OCT 2018 was chosen by default), the dog experienced tremors for an unknown period of time. The evolution of the event is unknown. The attending vet level of suspicion is unknown. This is the extent of information available. UPDATE 8 NOV 2018: Suspected Adverse Reaction: As reported by the BI employee, a dog, female, Beagle, 9 years old, 18 kg, in a good health condition, received FRONTLINE SPRAY (BN R04006A, exp date 10/2020), 8 pumps externally, administered by the attending vet, on 17 OCT 2018, against flea infestation. Following application (17 OCT 2018 was chosen by default), the dog experienced tremors. The symptoms were treated but details are not documented. The dog recovered on an unknown date (18 OCT 2018 was chosen by default). The attending vet level of suspicion is unknown. This is the extent of information available.
13-Nov-2018	UAE; 18TW000048; -; Taiwan	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Oct-2018*	12-Oct-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy Claim: Species: canine Dachshund), female; As reported by the owner, she applied one tube of FRONTLINE PLUS DOG S (R62507AL) topically around the dorsal neck skin during early October (5 Oct 2018 used for reporting purposes) because of flea infection. However, little improvement was found. There's no regular parasite prevention to the dog so this was her first time using the product. The correct administration of Frontline Plus was advised to the owner, however, she insisted on lack of efficacy claim.
18-Dec-2018	UAE; 18TW000051; -; Taiwan	**Species:** Canine **Breed:** Canine Other **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 40 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Jan-2015*	10-Dec-2018*	3 Week(s)*	D-D	Suspected Lack of Efficacy Claim: On 18 Dec 2018, the pet owner reported the following event for a 40 kg, adult Takasago dog greater than 4 years old, other signalment unknown. 19 Nov 2018: The owner applied a tube of FRONTLINE PLUS DOG L (P63107AR, 30 Nov 2019) to her dog. 10 Dec 2018* Several engorged ticks were found around the neck and foot of the dog. The dog has received Frontline Plus for nearly 4 years, however, there's no such experience after using this product in the past. Therefore, the lack of efficacy was suspected by the owner. It is unknown if any treatment was given. The event is ongoing.

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						product used ok?: Unknown to Company					
02-Oct-2018	UAE; 18UK002168; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Sep-2018	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown, product unsubstantiated) via an unknown route to an unknown site, by an unknown administrator at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they are finding fleas on the animal even after being treated, a week or two after treatment. The animal owner queries if it is possible that the product they ordered online is bad, and state that they have checked to make sure that it is legitimate. Start date added for submission purposes only.
01-Oct-2018	UAE; 18UK002314; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Sep-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG L (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for an unknown reason. They have used Frontline for years without any problems. The animal owner reports that they are concerned about a packet of FRONTLINE they purchased online as there are slight differences between this packaging and the packaging of an old packet they have retained. The animal owner reports that when they used a pipette from the packet they bought online, their dog became very itchy and dug clumps of fur out. Start date for submission purposes only.
01-Oct-2018	UAE; 18UK002316; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Unspecified flea collar; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	30 Day(s)	D-D	As reported by the animal owner, a neutered male feline of unknown age, weight, breed, and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that the cat is wearing a flea collar and the animal owner applied FRONTLINE a month ago (estimated 01 SEP 2018) and the cat still has fleas. The animal owner reports that people in the house are being bitten. Start date for submission purposes only.
01-Oct-2018	UAE; 18UK002318; -; United Kingdom	**Species:** Canine **Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 6.1 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	18-Sep-2018	20-Sep-2018	2 Day(s)	D-D	As reported by the animal owner, Emily a female neutered Lhasa Apso canine aged 4 years and weighing 6.1 kg, and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number R62211AL expiry date FEB 2020) on 18 SEP 2018 topically to the back of the neck by the animal owner for an unknown reason. The animal owner reports that the dog began scratching like mad 48 hours (20 SEP 2018) after the FRONTLINE PLUS was applied. The animal owner then noticed a sore patch where the FRONTLINE PLUS was applied at the back of the neck, so the animal owner gave the dog a bath to wash the product off her skin. The animal owner reports that there is now a big red scab about 3 inches wide with no hair loss. The animal owner states that there is one other spot slightly on the right where they think the product might have run. The animal owner reports that the dog is not scratching as much now but is still sore.

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											The animal owner reports that they have previously used FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown). No report of any adverse event following FRONTLINE.
02-Oct-2018	UAE; 18UK002324; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, three felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have been using FRONTLINE PLUS regularly every month for a year and FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY (batch and expiry date unknown), 2 cans per week, all year and the cats are still scratching like mad. The animal owner reports that they are being bitten and they can see fleas jumping out so they believe the products are not working. The animal owner states that they have been treating the house since last year (dates unknown) and there have been no breaks at all in the treatment of the cats. Start date for submission purposes only.
02-Oct-2018	UAE; 18UK002331; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately two canines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, two weeks ago (estimated 18 SEP 2018) for an unknown indication. The animal owner reports that they treated the dogs but not the cats, and that the fleas have returned with a vengeance. Start date added for submission purposes only.
02-Oct-2018	UAE; 18UK002332; Suffolk; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2017*	01-Oct-2018*	N/A	D-D	As reported by the attending vet, a canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The attending vet reports that the animal owner has been using FRONTLINE PLUS on their dog and two cats (see linked case 18UK002333) for a year (estimated starting on 01 OCT 2017) and are still seeing live fleas and flea dirt. Start date for submission purposes only.
02-Oct-2018	UAE; 18UK002333; Suffolk; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown	01-Oct-2017*	01-Oct-2018*	N/A	D-D	As reported by the attending vet, two felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON CAT, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The attending vet reports that the animal owner has been using FRONTLINE PLUS on their dog (see linked case 18UK002332) and two cats for a year (estimated starting on 01 OCT 2017) and are still seeing live fleas and flea dirt. Start date for

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					submission purposes only.
02-Oct-2018	UAE; 18UK002334; -; United Kingdom	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Sep-2018	02-Oct-2018	N/A	D-D	As reported by the animal owner, Mini, a 3 year old female neutered Yorkshire Terrier, weighing 7 kg and in good condition, was administered FRONTLINE SPOT ON DOG S (Batch S20106, expiry DEC 2020) topically to an unknown site by the animal owner at a dose of 1 dosage form on 22 SEP 2018 as they had seen fleas. The animal owner reports that they are still seeing live fleas. They have also used Acclaim household flea spray. The animal owner reports that they live on a farm and are surrounded by wildlife and animals.
02-Oct-2018	UAE; 18UK002335; -; United Kingdom	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male West Highland Terrier of unknown age, weight, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG S (batch number and expiry date unknown) on approximately 18 AUG 2018 via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that the dog has a skin problem and used to be on steroids. The animal owner reports that they recently) used two doses of FRONTLINE PLUS SPOT ON DOG S on the dog three weeks apart, with the second of the two applications being on 08 SEP 2018. Between the first and second applications, the animal owner had been washing the dog in emulsifying ointment because it immobilises the fleas so they can be washed off. The animal owner then purchased FRONTLINE PLUS SPOT ON DOG M (batch number 60316AL expiry date JAN 2021) and applied this to the dog on 28 SEP 2018. The animal owner reports that the dog has access to the garden, woods and fields, the dog does not go swimming and gets bathed occasionally only with water, the dog was wearing a collar when FRONTLINE PLUS was applied, the dog is treated every month with FRONTLINE and no one in the house is being bitten. The animal owner reports that they have boil washed all the bedding, hoovered and used an indoor flea spray (Indorex). The animal owner reports that they have seen fleas a couple of times and brushed the dog yesterday (01 OCT 2018) and got 3 fleas off with a comb. Start date for submission purposes only.
03-Oct-2018	UAE; 18UK002340; -; United Kingdom	**Species:** Canine **Breed:** Cavalier King Charles **Sex:** X **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 3.2 - 7.6 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	24-Mar-2018	02-Oct-2018*	8 Day(s)	D-D	As reported by the animal owner, Molly a female Cavachon canine weighing 7.6 kg and Milo a Cavachon canine weighing 3.2 kg, both aged 2 years and both of unknown reproductive status and in unknown condition, were given FRONTLINE SPOT ON DOG S (batch number R20714 expiry date APR 2020) on 24 SEP 2018, applied topically between the shoulder blades at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they could see fleas on their dogs, up to 5 fleas at a time, before they applied the product on 24 SEP 2018. The animal owner parts the dogs' fur when applying the product so as to get it directly on to the skin and they use the product every 2 months or when they see fleas, and the last four applications were on 24 MAR 2018, 24 MAY 2018, 24 JUL 2018, 24 SEP 2018. The animal owner reports that they found fleas on their dogs on 03 OCT 2018. The animal owner reports that the dogs spend time indoors and outdoors, all animals in the house have been treated with a flea

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											product, people in the house are not being bitten by fleas, the dogs do not get bathed or go swimming more than once a week, the animal owner has lived in the house for longer than a year, they have treated the home with an environmental flea spray, have washed the pets bedding at over 60 degrees Celsius and regularly vacuum all areas the pets can access.
03-Oct-2018	UAE; 18UK002344; Devon; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, approximately 2 canines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON DOG L (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. Owner reports that they use the product regularly on the animal, but noticed that the animal was still getting several ticks two months ago, in the summer, estimated as 01 AUG 2018, and noticed that even after a few weeks the ticks were still there, even after pulling them off. The animal owner owns 4 dogs, which are treated with FRONTLINE SPOT ON DOGS M (case 18UK002345) and FRONTLINE SPOT ON DOG S (CASE 18UK002346). The animal owner thinks that the products might not have worked as the animals were still picking up ticks, and that the ticks were not being killed within 48 hours. The animal owner also reported that they live on a moor and are very thorough, and so check for and remove ticks every day. The animal owner has been removing big ticks that were still alive. The animal owner treats the animals regularly , every three months, and has a good routine. The animal owner has four animals in total (see linked cases)
03-Oct-2018	UAE; 18UK002345; Devon; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they use the product regularly on the animal, but noticed that the animal was still getting several ticks two months ago, in the summer, estimated as 01 AUG 2018, and noticed that even after a few weeks the ticks were still there, even after pulling them off. The animal owner owns 4 dogs, which are treated with FRONTLINE SPOT ON DOGS L (case 18UK002344) and FRONTLINE SPOT ON DOG S (CASE 18UK002346). The animal owner thinks that the products might not have worked as the animals were still picking up ticks, and that the ticks were not being killed within 48 hours. The animal owner also said that they live on a moor and are very thorough, and so check for and remove ticks every day. The animal owner has been removing big ticks that were still alive. The animal owner treats the animals regularly , every three months, and has a good routine. The animal owner has four animals in total (see linked cases)
03-Oct-2018	UAE; 18UK002346; Devon; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they use the product regularly on the animal, but noticed that the animal was still getting several ticks two months ago, in the summer, estimated as 01 AUG 2018, and noticed that even after a few weeks the ticks were still there, even

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						Was the product used ok?: Unknown to Company					after pulling them off. The animal owner owns 4 dogs, which are treated with FRONTLINE SPOT ON DOGS L (case 18UK002344) and FRONTLINE SPOT ON DOG M (CASE 18UK002345). The animal owner thinks that the products might not have worked as the animals were still picking up ticks, and that the ticks were not being killed within 48 hours. The animal owner also said that they live on a moor and are very thorough, and so check for and remove ticks every day. The animal owner has been removing big ticks that were still alive. The animal owner treats the animals regularly , every three months, and has a good routine. The animal owner has four animals in total (see linked cases)
03-Oct-2018	UAE; 18UK002350; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 3.2 - 3.32 kg	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTEL 8.3% / EPRINOMECTIN 0.4% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	18-Sep-2018*	01-Oct-2018*	N/A	D-D	As reported by the animal owner, Ozzy and Biscuit, two female neutered domestic shorthair felines, weighing between 3.2 and 3.3 kg and aged between 1 year and 2 years, were given BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 kg (batch number and expiry date unknown) on an unknown date, applied topically to an unknown site at an unknown dose by the animal owner as a parasiticide. The attending vet nurse reports that the animal owner brought the cats into the practice in January 2017 (estimated 01 JAN 2017) and fleas were found. The cats were prescribed BROADLINE which the animal owner reports they have used monthly on both cats since then. Fleas have been found on multiple occasions since then. The animal owner reports to the vet nurse that in January 2017 they had their whole house stripped out, replacing carpets and redecorating. Both the cats are house cats. The animal owner reports to the vet nurse that they are being bitten and constantly sees fleas on the cats. The animal owner has also had the house professionally fumigated. Start date for submission purposes only. UPDATE 18 NOV 2018: The animal owner reports that they have tried treating the house in every way possible for fleas and use BROADLINE every month on their cats for the past two years (estimated starting on 18 NOV 2016), having used FRONTLINE for one cat (exact cat unknown) for the past two months (estimated starting on 18 SEP 2018) due to BROADLINE not working.
03-Oct-2018	UAE; 18UK002352; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Overdose)	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, at an unknown dose by the animal owner on an unknown date for an unknown indication. The animal owner reports that they have used two pipettes in two weeks as the first one had no effect, and the second one has still not had any effect. The animal owner states that they have bought another brand and the effect was immediate. The animal owner reports that this is the second time that they have had an issue with the product purchased from the manufacturer, but gave it the benefit of the doubt thinking maybe it just takes time over a period and you have to use them all, but now after using just one from a different supplier and a much cheaper brand, taking immediate effect, they question whether the product is a genuine FRONTLINE branded product. Start date added for submission purposes only.
05-Oct-2018	UAE; 18UK002370; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:**	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	01-Jun-2018*	01-Oct-2018*	N/A	D-D	As reported by the animal owner, three felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The

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		Unknown **Age:** - **Weight:** Unknown				**Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company					animal owner reports that they have been treating all three cats with FRONTLINE PLUS since June (estimated 01 JUN 2018) and have treated the house with Frontline spray (assumed FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY, batch number and expiry date unknown) on an unknown date. The animal owner reports that despite this they are still seeing fleas. The animal owner reports that before using the spray on the house they used a steam cleaner and are hoovering every day with the nozzle mostly. The animal owner reports that they have combed one of the cats and caught three live fleas which they drowned in boiling water with fairy liquid. The animal owner states that they wondered if the product is not working. Start date for submission purposes only.
05-Oct-2018	UAE; 18UK002379; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner via social media, a female canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on 02 OCT 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have applied the product but they are still seeing fleas on the dog and the dog is still biting and scratching herself sometimes. Start date for submission purposes only.
05-Oct-2018	UAE; 18UK002381; -; United Kingdom	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 11 - 18 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Sep-2018*	N/A	D-D	As reported by the animal owner, Scrappy aged 8 years and weighing 18 kg and Chucky aged 5 years and weighing 11 kg, both male Staffordshire Bull Terrier canines of unknown reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON DOG M, batch number R61703AL expiry date JUL 2020) about three weeks ago (17 SEP 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that before they used the product they treated the whole house top to bottom with flea spray. They have thrown out their front room carpet, used FRONTLINE PLUS as directed but both their dogs still have fleas. The animal owner states that they have used the product twice (dates unknown) and that they treat the pets with FRONTLINE PLUS when they see fleas on them as they bathe them with flea shampoo regularly and go over their house with spray and always hoover. The animal owner reports that they started seeing fleas three weeks ago (estimated 17 SEP 2018) and when applying the product, they did so according to the packet instructions. People in the house are being bitten by fleas, the dogs spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owners are seeing more than 5 fleas at a time, the dogs do not get bathed or go swimming more than once a week and this is not within 2 days of the application and the animal owners have lived in the house for longer than one year. The home has been treated with an environmental flea treatment, pet's bedding has been washed at over 60 degrees Celsius and the owner regularly vacuum all areas the pets can access.
05-Oct-2018	UAE; 18UK002383; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown)	3	3	0	**Product used:** FIPRONIL 10%/S	N/A	05-Oct-2018*	N/A	D-D	As reported by the animal owner, three canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE PLUS (assumed FRONTLINE PLUS

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					SPOT ON DOG M, batch number and expiry date unknown) three weeks ago (estimated 14 SEP 2018) via an unknown route by the animal owner as a parasiticide. The animal owner reports that they applied the product as directed but after three weeks (estimated 05 OCT 2018) they have found it to be totally useless. The dogs still have fleas.
06-Oct-2018	UAE; 18UK002389; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a female kitten feline, of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPRAY, batch and expiry unknown) twice via an unknown route to an unknown site, by the animal owner at an unknown dose, on unknown dates for an unknown indication. The animal owner reports that they recently bought the kitten and have treated it twice, sprayed the home twice, washed everything in sight, but that their son is still getting bites on his legs. Start date added for submission purposes only.
07-Oct-2018	UAE; 18UK002391; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 4.500 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	22-Sep-2018	22-Sep-2018	N/A	D-D	As reported by the animal owner, a 10 year old male feline of unknown reproductive status, breed and condition, weighing 4.5 kg, was administered FRONTLINE PLUS SPOT ON CATS (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of 1 dosage form on 22 SEP 2018 as the animal had fleas. The animal owner reports that they applied the product again, following the instructions, on 06 OCT 2018. The animal still has bad fleas and the treatment has clearly failed. The animal owner reports that in addition to the FRONTLINE treatment, they have vacuumed the carpets and thoroughly washed all the hard floors several times a week. The animal owner reports that people in the home are being bitten, that the animal spends time both indoors and outdoors, that they are seeing more than 5 fleas at the same time, that the animal is never bathed or swims and that they have treated the home with an environmental flea treatment, have washed the animal's bedding at over 60 degrees C and regularly vacuumed all areas that the animal can access. The animal owner reports that they treat the animal when they see fleas and all year round and that they first noticed fleas on the animal in SEP 2018. The animal owner reports that they have used the product prior to SEP 2018 with apparent success.
07-Oct-2018	UAE; 18UK002392; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** Medicated shampoo; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male canine of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M) (batch and expiry unknown) via an unknown route to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they treated the animal with both FRONTLINE and medicated shampoo, and that the animal now has fleas again. Start date added for submission purposes only.

N/A signifies the information for this field is either not available or not applicable

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
08-Oct-2018	UAE; 18UK002399; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 6.5 - 9.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Capstar; Advantage large cat; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, sex, reproductive status, breed and condition, weighing 6.5 kg and a male Maine Coon feline, of unknown age, reproductive status and condition, weighing 9.5 kg (case 18UK002553), were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they have been using the product for some time, but that they are having real problems with a flea infestation over the last few months (estimated to start 01 AUG 2018). The animal owner thinks that this is because their neighbours have three semi-feral adopted farm cats that probably aren't treated. The animal owner reports that they have treated the home with FRONTLINE HOMEGARD PET CARE HOUSEHOLD FLEA SPRAY, washed all the bedding and have been having to use Capstar weekly to teat the fleas on the animals as they keep re-infesting. The animal owner reports that they have had Capstar three times since their last FRONTLINE PLUS treatment and the fleas keep coming back in droves. The animal owner doesn't think that this is just the number of fleas that they are picking up from outside, they fear that the FRONTLINE isn't fully effective given how quickly their numbers increase. The animal owner reports that one of their concerns is that the Maine Coon animal is too large for the FRONTLINE PLUS to be fully effective with untreated animals in the vicinity. This animal weighs 9.5 kg, which is 50 percent more than the upper weight limit for cats. The other animal is 6.5 kg and so is on the limit of the weight limit of the cat product. The animal owner reports that they did try Advantage Large Cat with the animals once, but it made their fur fall out where it was applied and so they do not want to use that again.
08-Oct-2018	UAE; 18UK002403; Staffordshire; United Kingdom	**Species:** Canine **Breed:** West Highland White **Sex:** F **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the veterinary nurse, Tilly, a 6 year old female intact West Highland White Terrier canine, of unknown weight and in good condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (batch and expiry unknown) topically to an unknown site by the animal owner at an unknown dose, on an unknown date for flea treatment. The veterinary nurse reports that the animal owner purchased the product from a Pet store, and that over a week since applying the product they are still seeing live fleas. The animal owner wants either to reapply or use a different product as they do not believe that it has worked. Start date for submission purposes only.
09-Oct-2018	UAE; 18UK002405; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	21-Jul-2018*	N/A	D-D	As reported by the animal owner, two canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE SPOT ON DOG S (batch number and expiry date unknown) on approximately 21 JUL 2018 via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that both their dogs are absolutely riddled with fleas and they have had to have the council fumigate their home. The animal owner reports that they have been to their vet who prescribed Nexgard for each dog. Start date for submission purposes only.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
09-Oct-2018	UAE; 18UK002406; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	07-Oct-2018	N/A	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on 07 OCT 2018 via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they were late by about 2 weeks from the dog's regular 4 weekly application. The animal owner reports that they have just bathed the dog (estimated 09 OCT 2018) and have found fleas, one alive and one dead. The animal owner reports that the dog was scratching a lot and they thought he had a skin condition but ended up finding the fleas.
09-Oct-2018	UAE; 18UK002418; -; United Kingdom	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Dexadreson; Prednicortone 5 mg; Hibiscrub; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	19-Sep-2018	0 Day(s)	D-C	As reported by the animal owner, a male Siberian Husky canine, of unknown age, reproductive status, weight and condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG L, batch R61512AR and expiry JUN 2020) applied topically to the back of the neck, by the animal owner at an unknown dose, on 19 SEP 2018 for an unknown indication. The animal owner reports that after purchasing the FRONTLINE PLUS for fleas and ticks and applying it to their animal they are disgusted. After application, the animal broke out in huge welts all over the back and thighs. The animal was taken to the vets. The veterinary clinic staff member reports that the animal owner reported that less than one hour following product administration the animal was chewing at the skin over the dorsum. The welts came up and the animal could not be distracted from chewing. The animal has since developed diarrhoea, but is still defecating, urinating, drinking and eating fine. The irritation and chewing has persisted since application. On examination the animal was defensive and aggressive, but settled as the consult went on. The animal did well with a muzzle on and tolerated it well. Auscultation and abdominal palpation were within normal limits. There were four main areas of erythema and surface skin grazing from licking and chewing, over the hips and caudal dorsum. It is reported that it was difficult to see if there were small lesions present due to the thickness of the fur. The animal was given a Dexadreson injection of 0.5 ml and prescribed Prednicortone 5 mg tablets to be administered 4 tablets twice daily for 3 days, then 4 tablets once daily thereafter. The animal was also prescribed Hibiscrub and the animal owner was advised to monitor for diarrhoea and worsening of the skin wounds. The veterinary clinic staff member reports that they have not seen the animal back again. The animal owner reported that they have been nursing the animal back to health all this time as the animal
10-Oct-2018	UAE; 18UK002420; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** other **Was the product used**	04-Oct-2018	05-Oct-2018	1 Day(s)	D-D	Fur fallen out (we assume at treatment site) the day after frontline plus application. Cat angry, pink skin visible at treatment site. Outcome unknown.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
10-Oct-2018	UAE; 18UK002432; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a female feline of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have been using FRONTLINE on the cat for 5 months now and the cat still has fleas. The animal owner reports that they have even taken to bathing the cat and have treated their house 3 times with flea bombs and sprays even though they are not seeing any fleas in the home. The animal owner reports that they are combing through the cat twice a day and pulling at least 5 live fleas each time. Start date for submission purposes only.
10-Oct-2018	UAE; 18UK002437; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 3.5 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Profender; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2013*	09-Oct-2018*	4 Week(s) 5 Day(s)	D-D	As reported by the animal owner, Lily a neutered female domestic shorthair cat born on 01 JAN 2013 and weighing approximately 3.5 kg, and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number R2180BX expiry date unknown) on 06 SEP 2018, applied topically to the back of the neck by the animal owner for parasite control. The animal owner reports that they have always used FRONTLINE SPOT ON CAT on their cats over the years and has used FRONTLINE on Lily since they got her in 2013. The animal owner reports that they have never had any issues with the product, however they think the most recent application may have caused two bald patches on the area where they applied the product. The animal owner took Lily to the vets around four or five days after application (estimated 10 OCT 2018) and the attending vet was unsure what caused the bald patch, but it could possibly be a claw mark, cat fight or reaction to something. Lily was given 0.15 ml Dexadresson subcutaneously and Isaderm cream dispensed to apply twice a day after cleaning area with salted water. The attending vet nurse reports that there was redness and scratches between the shoulders, and that prior to the last time the customer was in she purchased Profender (assumed applied) on 04 JUL 2018.
10-Oct-2018	UAE; 18UK002445; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have purchased FRONTLINE PLUS for both the cat and the dog (see linked case 18UK002446), completely flea treated the house, hoovered everyday but the fleas are back on the pets. The animal owner reports that they even re-treated the animals within two weeks of the original treatment (dates unknown) as the fleas were back with a vengeance on the animals. Start date for submission purposes only.
10-Oct-2018	UAE; 18UK002446; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)					SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have purchased FRONTLINE PLUS for both the cat (see linked case 18UK002445) and the dog, completely flea treated the house, hoovered everyday but the fleas are back on the pets. The animal owner reports that they even re-treated the animals within two weeks of the original treatment (dates unknown) as the fleas were back with a vengeance on the animals. Start date for submission purposes only.
11-Oct-2018	UAE; 18UK002449; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Oct-2018*	N/A	D-D	As reported by the animal owner via social media, approximately two canines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOGS S, batch number and expiry date unknown) four weeks ago (estimated 12 SEP 2018) via an unknown route at an unknown dose by the animal owner for an unknown reason. The animal owner reports that they used the product on their small dogs. They report that their dogs are scratching yet the product states it covers them for 8 weeks.
11-Oct-2018	UAE; 18UK002452; -; United Kingdom	**Species:** Feline **Breed:** Ragdoll **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a Ragdoll feline of unknown age, weight, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for an unknown reason. The animal owner reports that the product didn't work at all. The cat is mainly an indoor cat but does go out only into the garden. Start date for submission purposes only.
07-Oct-2018	UAE; 18UK002456; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Year(s) **Weight:** 3.6 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2013*	14-Sep-2018*	N/A	D-D	As reported by the animal owner, Bisous and Caline, two 9 year old female felines weighing 3.6 kg, of unknown breed, reproductive status and condition, were given FRONTLINE PLUS SPOT ON CAT (batch number R40804AW, and expiry date JUL 2020) administered topically to the back of the neck, by the animal owner at a dose of 1 dosage form from 2013 (estimated as 01 JAN 2013) every 4 weeks, for an unknown indication. The animal owner reports that they applied the product properly and it didn't have any effect whatsoever and that the cats are still scratching like mad and still have fleas. The animal owner reports that they use the product all year round, and that they started to notice fleas on the pets two weeks ago (estimated 14 SEP 2018). The animal owner applied the treatment the next day, and the cats were still scratching. The animal owner combed the animals and they still had lots of live fleas. The last four dates that the animal owner applied the product were 28 SEP 2018, 28 AUG 2018, 21 JUL 2018 and 10 JUN 2018. The animal owner reports that people in

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											the home are being bitten, that the animals spend time indoor and outdoor, all animals that live in the household, and in contact animals, have been treated with a flea product, they are seeing more than 5 fleas at the same time on the animals, the animals are never bathed or go swimming and that they have treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees C and regularly vacuumed all areas that the pets can access.
11-Oct-2018	UAE; 18UK002458; Tyne and Wear; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	27-Sep-2018*	0 Day(s)	D-D	As reported by the attending veterinary surgeon, a canine, of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE SPRAY (batch and expiry unknown) via an unknown route to an unknown site, by the attending vet at an unknown dose, two weeks ago (27 SEP 2018) as a flea treatment. The attending vet reports that the animal still has some fleas, and they want to use Endectrid. Start date added for submission purposes only.
11-Oct-2018	UAE; 18UK002459; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	11-Jun-2018*	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have an ongoing flea problem and have been treating the dog for 3 to 4 months (estimated starting 11 JUN 2018). The animal owner reports that the dog still has fleas and they have seen fleas in the bedrooms and living room, on white furnishings including human bedding and in the fleas traps that they have set. The animal owner reports that they have used various sprays around the house and flea bombs upstairs and downstairs. The animal owner reports that they have got rid of all their clothes that were stored under the bed, put some clothes in vacuum packed bags in the attic, as well as children's cuddly toys. The animal owner reports they still have some bedding stored under the beds and clothes in the cupboards and drawers. The animal owner reports that they don't have carpets downstairs apart from a flat pile rug in each of the living areas. The animal owner reports that they have been hoovering regularly and still have fleas. Start date for submission purposes only.
11-Oct-2018	UAE; 18UK002460; -; United Kingdom	**Species:** Feline **Breed:** British Shorthair **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Advantage; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	02-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, Sascha, a male British Shorthair feline aged 1 year and weighing 4.5 kg, and of unknown reproductive status and condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) topically to the back of the neck at an unknown dose by the animal owner on 02 OCT 2018 for parasite control. The animal owner reports that they usually use Advantage, but decided to give FRONTLINE a try as it was more convenient on the day. The animal owner bought and applied the product to the animal on 02 OCT 2018. There were still fleas on the animal the day after they applied the product, they checked after 30 hours, and on the ninth day they are still finding fleas on the animal. The animal owner reports that they treat the animal for fleas monthly and applied Advantage on 02 SEP 2018, 02 AUG 2018 and 02 JUL 2018. The animal owner reports that they first saw fleas on the cat on 01 OCT 2018. The animal owner reports that people in the house are not being bitten by fleas, the

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											cat spends time indoors and outdoors, all animals in the house have been treated, there is evidence of fleas and flea dirt in the cat's fur, the animal owner is seeing less than 5 fleas at a time, the cat does not get bathed or go swimming, the animal owner has lived in the house for longer than a year, the animal owner has washed the pet's bedding at over 60 degrees Celsius and regularly vacuumed all areas the cat can access.
11-Oct-2018	UAE; 18UK002461; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 6.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Metacam meloxicam 0.5 mg/ml oral suspension cats guinea pigs; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Aug-2018*	N/A	D-C	As reported by the animal owner via Social Media, Toffee, a female neutered Domestic Shorthair feline, born AUG 2005 (estimated 01 AUG 2005) weighing 6.5 kg and in good condition, was administered FRONTLINE PLUS SPOT ON CAT (batch P40905AW and expiry JUL 2019) topically to an unknown site, by the animal owner at a dose of 1 dosage form on 05 AUG 2018 and 07 OCT 2018, as preventative care. The owners report the animal receives the product every 4 to 5 weeks. The animal has a history of arthritis in the shoulders and knees, and has a dose of METACAM (assumed METACAM 0.5 MG/ML ORAL SUSPENSION batch 760674, expiry OCT 2020) at a 5 kg dose (0.04 mg/kg) once daily for this. The animal owner reported that the product (FRONTLINE PLUS SPOT ON CATS) appears to have burnt the animal's skin (following application on 07 OCT 2018), the area is scabby and there is hair loss. The animal owner reports that this is the second time that the animal has had a reaction to FRONTLINE PLUS and each time the animal owner has used a steroid / antibiotic cream (Isaderm) to soothe the burn. The animal also had a scabby area at the application site after application on 05 AUG 2018. The animal owner did not take the animal to the vets for the reaction. The animal owner reports that they are treating the area with a previously prescribed Isaderm cream (for skin issue with the animal's chin), and reports that they are aware that they should really take the animal to the vets to check the skin on the back of the neck, but feels that the Isaderm is helping. The animal owner reports that they do not want to use FRONTLINE PLUS on the animal again, and so wants to find a different flea control product. Start date added for submission purposes only.
12-Oct-2018	UAE; 18UK002463; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	13-Sep-2018*	0 Day(s)	D-D	As reported by the animal owner, three felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch S40505AW, expiry FEB 2021) via an unknown route to an unknown site, by an unknown administrator at an unknown dose, roughly four weeks ago (13 SEP 2018) for an unknown indication. The animal owner reports that the animals were treated roughly 4 weeks ago and 6 or 7 weeks before that. They treat the animals all year round every 4 to 6 weeks, and according to the animal owner, the most recent application definitely did not work. The animal owner reports that they are seeing flea dirt and the animals are constantly scratching. The animal owner reports that there are 3 cats in the household, 1 rabbit outside and one tortoise outside. The cats are outdoor cats and there are other animals that visit the garden. The animals are not bathed, and the house has been treated with a long term spray for the carpets and soft furnishings. They cannot remember when they treated the home, but they have been bitten on the ankles, but not so much since they treated the house.
13-Oct-2018	UAE; 18UK002468;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a kitten feline of unknown age, sex, reproductive status, breed, weight and condition, was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; United Kingdom	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					administered a flea product (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) via an unknown route, to an unknown site, by an unknown administrator at an unknown dose, on an unknown date as a parasiticide. The animal owner reports that they have a kitten that has been flead, but the vet has advised getting the house sprayed with a spray, which they have bought and used. The animal owner reports that they have a baby and a 4 year old and so they are a little worried about them. The kitten is reported to spend most of its time with their 16 year old in their bedroom, which they checked and under the bed there was a lot of flea dropping. They have cleaned and sprayed that room, and have also sprayed and vacuumed all the other rooms. The animal owner reports that they are not convinced that they house is free from fleas as the previous owner had two dogs. The animal owner is constantly vacuuming now. Start date added for submission purposes only.
13-Oct-2018	UAE; 18UK002469; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** 2 - 5 kg	3	3	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Advocate; **Route:** unknown **Was the product used ok?:** Yes	03-Sep-2018*	01-Oct-2018*	11 Day(s)	D-D	As reported by the animal owner, Bear a male feline aged 3 years and weighing 5 kgs, Jazzy a female feline aged 6 months and weighing 4 kgs, and Rhino, a feline of unknown age and weighing 2 kgs, all of unknown breed, reproductive status and in unknown condition, were given FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on 01 OCT 2018 topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that they purchased the product in August (date unknown) and have been using the product for about 6 weeks, starting around 03 SEP 2018 and the latest application being on 01 OCT 2018. They previously used FRONTLINE many years ago (estimated starting on 01 JAN 2015) but switched to Advocate as fleas remained on their cats after using FRONTLINE. The last Advocate was administered to the cats on 09 JUL 2018 and 06 AUG 2018. The animal owner reports that their cats have fleas (first noticed about 3 days ago). The animal owner reports that the cats are indoor cats and therefore come into limited contact with other animals, they have used a flea spray inside the house. A flea product has been used on the pets every 4 weeks all year round, people in the home are being bitten, all animals in the house have been treated, fleas are being seen occasionally in the house (no more than 5 at a time), the cats do not get bathed or go swimming, the animal owner has lived in the house for less than a year, the home has been treated with an environmental flea spray, the cats' bedding has been washed at 60 degrees Celsius and all areas the pets can access are regularly vacuumed. UPDATE 16 NOV 2018: Following internal review, Advocate changed from concomitant to suspect product. No new data received.
12-Oct-2018	UAE; 18UK002470; Oxfordshire; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used**	N/A	01-Oct-2018*	N/A	D-C	As reported by the manager at the retail outlet, two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch S40310AW, expiry JAN 2021) via an unknown route, to an unknown site, by an unknown administrator at an unknown dose, on an unknown date, for an unknown indication. It is reported that the customer has 2 cats that had had a serious skin problem after using FRONTLINE PLUS CAT. They have seen a vet, who has treated the cats, but the vet thought that it was not an allergic reaction but an issue with the product. The animals are reported to be doing fine. Start date added for submission purposes only.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
13-Oct-2018	UAE; 18UK002471; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	13-Jul-2018*	01-Oct-2018*	N/A	D-D	As reported by the animal owner, two felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have been using the product on both cats for the last four months (estimated starting on 13 JUL 2018) and it hasn't worked. The animal owner has sprayed the house but they are still getting bitten by fleas on their legs and ankles and their cats are still scratching. Start date for submission purposes only.
14-Oct-2018	UAE; 18UK002472; -; United Kingdom	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 6 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	10-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, Lilly a Beagle cross canine aged 8 years and weighing approximately 6 kgs, and of unknown reproductive status and in unknown condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch number S60328 and expiry date JAN 2021) topically to the back of the neck by the animal owner at an unknown dose, on 10 OCT 2018, for fleas. The animal owner reports that they purchased the product for their animal and their two cats this week and applied it to them all at the same time. They always use the treatment, but their dog had been staying with another dog and returned with fleas and so they treated all the pets. The animal owner reports that the dog still has fleas even after the treatment. They usually use a flea product every 6 months all year round. They started seeing fleas last week (estimated 10 OCT 2018) and people in the home are not being bitten. The pets go indoors and outdoors and to a second environment. All pets in the household have been treated, fleas are occasionally being seen (less than 5 at a time) and none of the pets are ever bathed and do not go swimming. The animal owners have lived in their home for longer than a year, the home has been treated with an environmental flea treatment, the pets' bedding has been washed at over 60 degrees Celsius and the animal owners regularly vacuum all areas the pets can access.
14-Oct-2018	UAE; 18UK002476; Nottingham; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** U **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Jan-2018*	N/A	D-D	As reported by the animal owner, a 2 year old Cockapoo canine weighing 20 kg, of unknown sex and reproductive status and in unknown condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) topically by the animal owner at a dose of 1 dosage form on unknown dates as a parasiticide. The animal owner reports that the first time they tried FRONTLINE earlier this year, estimated 01 JAN 2018, after disappointing results from other treatments, they were delighted with the results from FRONTLINE. The animal was completely flea-free within 24 hours of the first treatment and with one treatment per month, the animal remained flea-free. The animal owner reports that they were a little baffled when the animal was infested again a few weeks after the third treatment. The animal owner reports that they purchased an identical pack of FRONTLINE and treated again, with the same great results. Again, a few weeks after the final (third) treatment the animal was infested with fleas again. The animal owner reports that they later realised that the fleas were coming from their sister's black labrador who they occasionally looked after. The animal's coat was so thick and black that fleas

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											were rendered invisible and the animal was so old that it was unable to scratch itself, and so they never guessed that it was infested. With the problem identified, they went and invested in the more expensive FRONTLINE PLUS SPOT ON DOG, and bought FRONTLINE PLUS SPOT ON DOG L as their Cockapoo is exactly 20 kg, and the animal's fluffy coat and inability to sit still makes it difficult to apply exactly as directed, and so they thought that it would be better to go for the heavier weight in case of any product being lost or soaked up in the hair. The animal owner reports that the product appears genuine and bears a hologram on the front and the batch number is R60906AR, expiry is unknown. The product arrived on 16 JUL 2018 and they gave the first treatment to their dog that day.
14-Oct-2018	UAE; 18UK002477; Nottingham; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Aug-2018*	N/A	D-A	As reported by the animal owner, a male Labrador of unknown age, reproductive status, weight and condition, was administered FRONTLINE PLUS SPOT ON DOG L (batch R60906AR, expiry unknown) topically to the back of the neck by the animal owner, at a dose 1 dosage form on 16 JUL 2018 as a parasiticide. The animal is reported to have a thick, black coat, and to be so old that it was unable to scratch himself. The animal owner reports that the animal was put down a few weeks later. Start date added for submission purposes only.
15-Oct-2018	UAE; 18UK002485; Middlesex; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 9.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the attending vet, a canine aged 9 months and of unknown weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) one week ago (estimated 08 OCT 2018) via an unknown route at an unknown dose by an unknown person as a parasiticide. The attending vet reports that the dog still has fleas and flea dirt. The attending vet does not think the animal owner was using any other products previously to this application of frontline, and doesn't think any people in the house are being bitten as the animal owner hasn't mentioned this. The animal owner has treated the house twice (product unknown) and there are more animals on the vet's records but it is unknown if they are treated with a flea product regularly. The attending vet has not examine the animal but spoke to the animal owner on the phone. Start date for submission purposes only.
15-Oct-2018	UAE; 18UK002487; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown	N/A	14-Oct-2018	5 Day(s)	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on 09 OCT 2018 topically to the neck at an unknown dose by the animal owner for an unknown reason. The animal owner reports that on Sunday morning (14 OCT 2018) there was a bit of a rash on the dog's neck next to where the FRONTLINE PLUS had been applied and the dog has been a bit lethargic.

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						to Company					
10-Oct-2018	UAE; 18UK002491; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, and condition, weighing 13 kg, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date to treat fleas. The animal owner reports that they are disappointed as the animal does not have a lot of fleas, and they thought that using this product would kill them off and this has not been the case. The animal owner reports that they have followed the instructions on the package. Start date added for submission purposes only.
16-Oct-2018	UAE; 18UK002500; -; United Kingdom	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	16-Oct-2018	2 Day(s)	D-D	As reported by the animal owner, a Staffordshire Terrier canine, of unknown age, sex, reproductive status, weight and condition, was administered FRONTLINE SPOT ON DOG S (batch and expiry unknown) topically to an unknown site by the animal owner, at a dose of 1 dosage form every 4 weeks from an unknown date, for an unknown indication. The animal owner reports that they have used the product "forever". They treated the animal 48 hours ago and would like to make a complaint as they have found one live flea today. The animal is reported to be itching and there is no home infestation.
13-Oct-2018	UAE; 18UK002502; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 19.00 Year(s) **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2016*	12-Oct-2018	N/A	D-A	As reported by the animal owner, Willow, an approximately 19 year old female neutered Domestic Shorthair feline, of unknown weight and condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by an unknown administrator at an unknown dose and frequency, from approximately 2016 (estimated 01 JAN 2016) as a parasiticide. On 12 OCT 2018 the animal was found collapsed and unresponsive. The cause was unknown. The animal was euthanased later the same day. The animal owner reported that the animal had a good appetite but had been losing weight recently (date of onset not known).
16-Oct-2018	UAE; 18UK002505; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	13-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, Pusscat, a male feline of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE SPOT ON CAT (batch P20710BW, MAY 2019) topically to an unknown site, by the animal owner at a dose of 1 dosage form, on 13 OCT 2018 for an unknown indication. The animal owner reports that they have always used FRONTLINE SPOT ON CATS, every 4 weeks without fail. The animal now has fleas on it and is scratching. The house is very clean, they have sprayed the whole house with flea spray, and they have never previously had a problem with fleas. The animal owner reports that they are not being bitten. The animal goes outside. The animal owner went to the local vet and they voiced the opinion that they have been having trouble with FRONTLINE and that it is not working anymore. The animal owner is now concerned that FRONTLINE doesn't work. On 06 NOV 2018 the animal owner reported that FRONTLINE SPOT ON CAT is categorically not working, the cat goes in and out, is treated every four weeks and having been treated 3 weeks and 3 days ago (13 OCT 2018) the cat still has lots of fleas and is full of flea dirt. The

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											animal owner is pulling the fleas off and putting them into soapy water. Three vet practices and a cat charity have told the animal owner the FRONTLINE doesn't work. On 06 NOV 2018 the animal owner reported that after having waited the minimum interval after the last application of FRONTLINE SPOT ON CAT, they have applied Stronghold Cat to the animal following the vets advice. In the last 24 hours, following the Stronghold application, the flea issue has stopped and the animal is so much happier. As a result of this, the animal owner was able to comb the animal's fur and counted 200 plus dead fleas. The animal owner added that they have had cats since a child, and has always been loyal to FRONTLINE and never used anything different as had never had an issue. It always did as it claimed and knows how it works, as well as
15-Oct-2018	UAE; 18UK002506; Norfolk; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	01-Oct-2018*	N/A	D-D	As reported by the veterinary clinic staff member, Ella, a Domestic Short Hair feline, of unknown age, sex, reproductive status, weight and condition, was administered FRONTLINE SPRAY (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The veterinary clinic staff member reports that the animal owner purchased the product from the practice on 14 SEP 2018 and that they have used it in the past for other cats. The practice recommended the FRONTLINE SPOT ON as the animal has fleas, but the animal owner declined and would only have the spray. The reporter is unsure when the product was first given, but mentioned that the animal owner may have applied it every 4 days. The animal still has fleas and the animal owner is very angry that the product is not working. It is reported that the spray does not smell as strong as before and thinks that the iron levels are less than before. Start date added for submission purposes only.
16-Oct-2018	UAE; 18UK002507; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** X **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 4.5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Sep-2017*	01-Oct-2018*	N/A	D-D	As reported by the animal owner, two felines, Snowy a neutered female domestic shorthair feline and Casper a neutered male domestic shorthair feline, both aged 7 years and both weighing 4.5 kg, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) nearly 4 weeks ago (estimated 16 SEP 2018) applied topically by the animal owner for parasite control. The animal owner reports that they have used the product on the cats for about a year (estimated starting on 16 SEP 2017) and apply the product to each cat every 4 weeks. Since the summer (estimated starting on 01 JUL 2018) the animal owner has found that there have been more fleas present on the cats and members of the household are getting bitten, so they feel the product is not working like it used to. Start date for submission purposes only. This case is linked to 18UK002564.
16-Oct-2018	UAE; 18UK002508; West Yorkshire; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 10.00 Week(s) **Weight:** 0.55 kg	4	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** PUREVAX RCP FELV; FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTE	N/A	14-Oct-2018	4 Week(s)	D-A	As reported by the attending veterinary surgeon, Grace, neutered female intact Domestic Short-haired cat (date of birth 05 AUG 2018), weighing 0.55 kg and of good health, was vaccinated with PUREVAX RCP FELV (batch number: L457950 and expiry date: 04 NOV 2019) subcutaneously on 12 OCT 2018 administered by the veterinary surgeon, as the cats 1st vaccination. The cat was also given a health check at the same time and no abnormalities were detected. BROADLINE SPOT-ON SOLUTION FOR CATS < 2.5 kg (batch number: CES009BAA and expiry date: 31 MAR 2020) was also administered the same day by the animal owner, when they returned home. The owner was confident that no ingestion of the product occurred. The cat originally presented at

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						L 8.3% / EPRINOMECTIN 0.4% SPOT ON; Milbemax; Fucithalmic eye drops; Metacam meloxicam 2 mg/ml solution for injection cats; **Route:** unknown **Was the product used ok?:** Unknown to Company					the veterinary practice as a stray on 11 SEP 2018, the cat was snotty and had conjunctivitis and was given FRONTLINE SPRAY, Milbemax and Fucithalmic eye drops. The cat was rehomed after 6 days, the cat was described as bright as a button at this time. On the morning of 15 OCT 2018 at 8:30 am the cat was presented to the vet, the cat had a snotty nose, runny eyes, the cat's 3rd eye lids were visible and the cat's temperature was over 40.3°C. The cat had experienced vomiting and diarrhoea, the previous evening on 14 OCT 2018. The cat's heart and lungs were ok and the cat was given METACAM 2 MG/ML SOLUTION FOR INJECTION FOR CATS 0.05 ml 0.2% cat (at a dose of 0.18 mg/kg) the cat then when home for supportive care and to be observed. On 15 OCT 2018 in the evening at approximately 9pm the cat was brought into the see the vet again, the owner reported that the cat was asleep most of the day, not eating or drinking until 5pm (the cat had eaten a tablespoon of food) and then went back to sleep. At 8.15pm the cat experienced muscle tremors and was ataxic all over. The cat collapsed but was conscious, could not walk, the cat's temperature was 40.9°C and the cat's 3rd eyelids were over. Bloods were taken and IV fluids and rectal diazepam were given on the
15-Oct-2018	UAE; 18UK002516; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018	N/A	D-D	As reported by the animal owner, two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) via an unknown route, to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they have used FRONTLINE on their two cats and they still appear to have fleas. The animals seem to be clear for a day or two, and then the animal owner brushes them and they have flea dirt and they find the odd flea. The animal owner reports that there never seem to be many. The animal owner hoovers the house daily and have sprayed FRONTLINE HOMEGARD (FRONTLINE PET CARE HOMEGARD HOUSEHOLD FLEA SPRAY) (batch and expiry unknown). It is reported that both animals do go outside and sometimes sit in the bushes in the front garden. Start date added for submission purposes only.
17-Oct-2018	UAE; 18UK002526; -; United Kingdom	**Species:** Feline **Breed:** Feline Other **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3 - 5 kg*	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, five moggy felines, Marty, a female aged 3 years and weighing approximately 3 kg, Nell a female aged 11 years and weighing approximately 4 kg, Zorro a male aged 9 years and weighing approximately 5 kg, Spot a male aged 3 years and weighing approximately 4 kg and Kinkytail, a male aged 6 years and weighing approximately 4 kg, all of unknown reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number R40718 expiry date JUN 2020) on 18 SEP 2018 topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that the product doesn't work, it just deters a few fleas as it's not strong enough and the flea comb does better. They flea comb the cats daily and treat with FRONTLINE every few months, using the product all year round. The animal owner reports that they started using the product a few months ago but cannot be specific. Sometimes there are not many fleas and at other times there are more, some of the cats seem to be more likely to have them than others and the animal owner notices fleas when they comb the cats, seeing both occasional and many fleas at a time. The last four dates the product was applied to the cats were 18 SEP 2018,

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											July, May and March 2018 (estimated 01 JUL 2018, 01 MAY 2018 and 01 MAR 2018). People in the home are not being bitten by fleas, the cats spend time indoors and outdoors, all pets in the household have been treated, the cats do not get bathed or go swimming, the animal owner has not lived in the house for less than a year, the cats' bedding has been washed at over 60 degrees Celsius and the animal owner regularly vacuums all areas the cats can access. Start date for submission purposes only.
18-Oct-2018	UAE; 18UK002531; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a canine, of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M) (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that the animal has still managed to get fleas. Start date for submission purposes only.
18-Oct-2018	UAE; 18UK002540; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, two felines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route, to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that the product did not work on their animals, in fact they are scratching more now than before using the product. The animal owner reports that they have found the product not to work and that the animals are suffering. Start date added for submission purposes only.
18-Oct-2018	UAE; 18UK002541; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, two canines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON DOG (batch and expiry unknown) via an unknown route, to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that the product did not work on their animals, in fact they are scratching more now than before using the product. The animal owner reports that they have found the product not to work and that the animals are suffering. Start date added for submission purposes only.
17-Oct-2018	UAE; 18UK002542; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND	N/A	17-Oct-2018*	2 Day(s)	D-D	As reported by the animal owner, a male feline aged 3 years and of unknown weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CATS (batch number and expiry date unknown) 48 hours ago (estimated 15 OCT 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner has also used 3 cans of FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY (batch number and expiry date unknown) environmentally and after a full 48 hours and loads of combing, the cat still has fleas.

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						ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company					
18-Oct-2018	UAE; 18UK002544; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	13-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, Zak, a 4 year old male neutered Cardigan Corgi canine, weighing 11 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG (assumed M, batch R61910AL, expiry AUG 2020) topically to an unknown site by the animal owner at a dose of 1 dosage form on 13 OCT 2018 as a preventative. The animal owner reports that the animal has had FRONTLINE SPOT ON DOG prior to this application but could not recall when it was last used. They applied FRONTLINE PLUS 5 days ago, and are still seeing live fleas. The animal owner reports that they saw 5 live fleas when using a comb just now. The animal owner reports that they bought the product from a large Pet Shop, recommended to them by their son who went to get FRONTLINE for his pets too as he has a home infestation. The animal owner reports that they used Bob Martin a week a go but that didn't seem to work either. The animal owner reports that they are concerned that their son's home infestation had infected their animal.
17-Oct-2018	UAE; 18UK002545; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON DOG; Advantage; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	17-Oct-2018	N/A	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) 48 hours ago (estimated 15 OCT 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that the dog still has a significant quantity of fleas. The dog has been kept in a flea free area of the house since being treated, and they have had a new kitchen extension with a sealed cork floor which has been hoovered and treated. The dog's bedding has been thrown away and the plastic bed has been hoovered and disinfected and moved to the flea free area of the house whilst the rest of the house has been treated. The animal owner states that the dog doesn't just have 1 to 2 fleas on him, he is jumping with them but there are less fleas than there were 48 hours ago. It is still a significant amount of fleas to make him miserable and the animal owner caught 10 fleas this morning (17 OCT 2018). The animal owner reports that the current problem with fleas only started happening a few years ago, and they have previously used original FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown, dates of use unknown) and their dogs were flea free within 24 hours. In previous properties the animal owner didn't treat the environment and yet their dogs did not have the problem their current dog now has. The animal owner states that they have used all the modern flea spot ons and none of them work like they used to. The dog was treated with FRONTLINE and Advantage over the summer (estimated starting on 01 JUN 2018) but these products were still not dealing with the problem so the animal owner decided to try FRONTLINE PLUS.
16-Oct-2018	UAE; 18UK002547;	**Species:** Canine **Breed:** Canine	2	2	0	**Product used:** FIPRONIL	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately two canines, of unknown age, sex, reproductive status, breed, weight and

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	-; United Kingdom	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					condition, were administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they use a general flea shampoo every 4 weeks, and have tried FRONTLINE PLUS, which didn't work. They used a carpet spray as well on the bed area and the carpets in general. When bathing the animals, again the animal owner found more fleas. The animal owner reports that they live at the side of a golf course and have an abundance of wildlife. They report that they have always used FRONTLINE and have not had a problem like this before. Start date added for submission purposes only.
18-Oct-2018	UAE; 18UK002548; -; United Kingdom	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 3.4 kg	3	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	30-Sep-2018	0 Day(s)	D-D	As reported by the animal owner, Bluebell, a 3 year old female intact Chihuahua canine, weighing 3.4 kg and in unknown condition, and two other Chihuahua canines, were administered FRONTLINE SPOT ON DOG S (batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form on 30 SEP 2018. The animal owner reports that they have three Chihuahuas and always use FRONTLINE. They got the product and put it on the animals 18 days ago. Two of the animals are fine, but one still has fleas. The animal owner reports that when they pick the animal up, they see black bits and fleas crawling. The animal owner has not bathed the animal and everyone in the house is being bitten.
17-Oct-2018	UAE; 18UK002549; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Advocate; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	15-Oct-2018*	2 Day(s)	D-D	As reported by the animal owner, Duggie a male Cockerpoo canine aged 6 years and of unknown weight, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG S, batch number S60316AL expiry date JAN 2021) 48 hours ago (15 OCT 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they own the dog and two cats and just over one month ago (estimated 17 SEP 2018) they noticed dirt on their dog's fur and increased scratching. The dog was treated with Advocate, which was due. The animal owner used a household flea spray (product unknown) on the main areas of the house, and also treated their cats with fipronil (exact product unknown). The animal owner reports that they have continued to be bitten over the last month but their animals did not seem to be affected as they did not notice them scratching or see any fleas . However, in the last week the animal owner noticed some adult fleas on the dog. The animal owner used a flea shampoo and flea bombs in the house and this weekend (15 OCT 2018) the dog was given FRONTLINE PLUS. After 48 hours, on combing the dog the animal owner has found some very active adult fleas and lots of dirt. Previously the dog has been very sensitive to topical treatments and the animal owner changed preparations as the dog would vomit (products unknown). The animal owner has not been bitten in the 48 hours since applying the product and was previously the only person in the house being bitten. The animals in the house are not treated every month but usually every 6 weeks or so. The house is being vacuumed and the pet bedding is being washed. On 19 OCT 2018 the animal owner reported that they were still seeing some fleas but they were smaller and slowing down so they hope they are nearly there.

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18-Oct-2018	UAE; 18UK002550; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	18-Oct-2018*	2 Week(s)	D-D	As reported by the animal owner via Social Media, two canines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, two weeks ago (estimated 04 OCT 2018) for an unknown indication. The animal owner reports that they would like the manufacturer to confirm if they have a faulty batch of FRONTLINE PLUS FOR DOGS. They treated both the animals two weeks ago as per the instruction, and both animals now have a flea problem. The animal owner reports that they are aware that they can still get fleas but they should then die.
19-Oct-2018	UAE; 18UK002551; Suffolk; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	12-Oct-2018*	0 Day(s)	D-D	As reported by the animal owner, two felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on approximately 12 OCT 2018 topically at an unknown dose by the animal owner for parasite control. The animal owner reports that they applied the product to their cats just as their treatment from last month was finishing. Both cats are continually scratching themselves, it's like the animal owner hasn't put anything on them and it has been completely ineffective . The animal owner reports that they have been using FRONTLINE for years so they know how to put it on their cats, how effective it normally is and this is the first time they have ever had this problem.
08-Oct-2018	UAE; 18UK002553; -; United Kingdom	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 9.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Capstar; Advantage large cat; **Route:** unknown **Was the product used ok?:** No (Low dose)	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, a male Maine Coon feline, of unknown age, reproductive status and condition, weighing 9.5 kg, and another feline (case 18UK002399) were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they have been using the product for some time, but that they are having real problems with a flea infestation over the last few months (estimated to start 01 AUG 2018). The animal owner thinks that this is because their neighbours have three semi-feral adopted farm cats that probably aren't treated. The animal owner reports that they have treated the home with FRONTLINE HOMEGARD PET CARE HOUSEHOLD FLEA SPRAY, washed all the bedding and have been having to use Capstar weekly to teat the fleas on the animals as they keep re-infesting. The animal owner reports that they have had Capstar three times since their last FRONTLINE PLUS treatment and the fleas keep coming back in droves. The animal owner doesn't think that this is just the number of fleas that they are picking up from outside, they fear that the FRONTLINE isn't fully effective given how quickly their numbers increase. The animal owner reports that one of their concerns is that the Maine Coon animal is too large for the FRONTLINE PLUS to be fully effective with untreated animals in the vicinity. This animal weighs 9.5 kg, which is 50 percent more than the upper weight limit for cats. The other animal is 6.5 kg and so is on the limit of the weight limit of the cat product. The animal owner reports that they did try Advantage Large Cat with the animals once, but it made their fur fall out where it was applied and so they do not want to use that again.

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19-Oct-2018	UAE; 18UK002557; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 7 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	01-Oct-2012*	01-Oct-2018*	N/A	D-B	As reported by the animal owner, Louis, a 12 year old male neutered feline of unknown breed, weighing 7 kg and in good condition, was administered FRONTLINE SPOT ON CAT (batch S20215AW, expiry JAN 2021) via an unknown route to an unknown site, by the animal owner at an unknown dose for the last 6 years (estimated to start 01 OCT 2012) for an unknown indication. The animal owner reports that for the last six years the product has been good with no issues. They recently repurchased the product and used it on their animal. Approximately 1 minute after use, it caused the animal to have a seizure, the animal went up on it's back legs like it was standing up, then the right side of the animal's body wasn't working. The animal owner immediately washed and wiped it off and after 5 to 6 minutes the animal was back to normal. The animal did not vomit or have diarrhoea and did not salivate. The animal did not go to the vets as it was fine. Start date added for submission purposes only.
22-Oct-2018	UAE; 18UK002559; -; United Kingdom	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** .8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	22-Oct-2018	20 Day(s)	D-D	As reported by the animal owner, Chloe, a 6 year old female Miniature Schnauzer canine of unknown reproductive status, weighing 7.8 kg and in unknown condition, was given FRONTLINE PLUS SPOT ON DOG S, batch number R62211AL and expiry date SEP 2020, on 02 OCT 2018 at a dose of one dosage form topically to the back of the neck by the animal owner as a parasiticide. The animal owner reports that they used the product on their dog because she had fleas, but on 22 OCT 2018 they were still finding live fleas on her in significant numbers when grooming. The animal owners state that they have used spot on flea treatments including FRONTLINE (assumed FRONTLINE PLUS as above) on their dogs and cats for many years so are confident they have applied the product correctly to their dog's skin. The animal owners report that the carpets, soft furnishings and car interiors are regularly treated with an insecticide, Acclaim, they regularly change and wash the dog's bedding and so do not feel that environmental infestation is a likely explanation; therefore they think that the FRONTLINE PLUS they purchased isn't working. The animal owner reports that they first noticed fleas on the animal a few days prior to ordering the FRONTLINE PLUS on 27 SEP 2018, and that they use the product as required if fleas are found while grooming. The animal owner reports that the animal spends time indoors and outdoors, that they are seeing many fleas, 5 or more fleas at the same time, that the animal never bathes or swims, that people in the home are not being bitten and that they have treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees C and regularly vacuumed all areas that the pet can access. The animal owner reports that having visited their vet this afternoon (23 OCT 2018), they have been advised that flea immunity to FRONTLINE PLUS is a problem in their area and so the product is no longer effective. The vet believes that based on their experience,
22-Oct-2018	UAE; 18UK002561; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Bob Martin flea treatment;	N/A	22-Oct-2018	1 Week(s)	D-D	As reported by the animal owner, one male feline of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on 15 OCT 2018 at an unknown dose via an unknown route by the animal owner as a parasiticide (Treatment was not used according to the SPC as not all in contact animals were treated). The animal owner reports that they also have two 8 month old kittens who have never had a flea treatment. The animal owner saw fleas on the male cat three weeks ago (estimated 30 SEP

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: unknown **Was the product used ok?:** No (Others)					2018) so used a Bob Martin flea treatment, which didn't work. As of 22 OCT 2018, the animal owner is still seeing fleas on the older cat.
22-Oct-2018	UAE; 18UK002562; Cleveland; United Kingdom	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** U **Sex qualifier:** Unknown **Age:** 2.00 Month(s) **Weight:** 1.1 kg	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** Nobivac Tricat Trio; Milbeworm kitten tablet; Nobivac FELV; **Route:** unknown **Was the product used ok?:** Yes	N/A	09-Oct-2018	0 Day(s)	D-B	As reported by the veterinary nurse, Kiki, a 2 month old female Persian kitten of unknown reproductive status, weighing 1.1 kg and in good condition, was administered FRONTLINE SPRAY (batch and expiry unknown) via an unknown route to an unknown site, by the veterinary nurse at an unknown dose, on 09 OCT 2018 at 10:45 for an unknown indication. It is reported that the animal also had a vaccine at this time (product unknown). The animal owner took the animal home and at around 16:30 the animal had a worming tablet (product unknown). Two hours later, the animal owner went upstairs to find that the animal was very floppy. The animal owner took the animal to the out of hours service, and the notes from 23:41 state respiratory rate strong, mucous membranes pink, non responsive, no pupil reflex, heart rate 210 bpm, body twitching. The animal was admitted for oxygen therapy, aggressive fluid therapy and Colvasone. Two hours after the treatment was started the animal was better. The morning of 10 OCT 2018 the animal was transferred back to the day hospital for observations. No treatment was given and the animal was sent home the evening of 10 OCT 2018. The animal was seen back for a check on 12 OCT 2018 and was absolutely fine. The attending vet thinks that this was the worming tablet. UPDATE from authority 27 NOV 2018: 31 Oct 2018 NCA Comment - Vaccines given were Nobivac Tricat Trio and FELV and wormer was Milbeworm kitten. Case received to MAH on 17 Oct 2018 Suspected Adverse Reaction. On 9 Oct 2018, at 10.30 am, the cat was clinically well and was vaccinated with Nobivac Tricat Trio and Nobivac FeLV. During the same consultation Frontline flea spray was applied and Milbeworm tablet was prescribed to be given later in the day. The owner administered the tablet at 4.30 pm. Within 2 hours from the tablet administration, the cat was taken to the Out Of Hours service; he had heart rate = 220, dilated pupils, body twitching and non-responsive. Treatment with intravenous
16-Oct-2018	UAE; 18UK002564; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Sep-2017*	01-Oct-2018*	15 Day(s)	D-D	As reported by the animal owner, Snowy, a neutered female domestic shorthair feline, aged 7 years, weighing 4.5 kg and in unknown condition was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) nearly 4 weeks ago (estimated 16 SEP 2018) applied topically by the animal owner for parasite control. The animal owner reports that they have used the product on the cat for about a year (estimated starting on 16 SEP 2017) and apply the product every 4 weeks. After the last application (estimated 16 SEP 2018), Snowy ended up with a red irritated area at the application site, and the hair on her back legs seems to be shorter from overgrooming. Start date for submission purposes only.
22-Oct-2018	UAE; 18UK002568; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:**	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately two felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE PLUS SPOT ON CAT, batch number and expiry date unknown), on an unknown date via an unknown route at an

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		Unknown **Age:** - **Weight:** Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					unknown dose by the animal owner as a parasiticide. The animal owner reports that they purchased FRONTLINE online but they believe it's a fake product as the cats still have fleas days later. Start date for submission purposes only.
21-Oct-2018	UAE; 18UK002569; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 2.25 Year(s) **Weight:** 4.30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Apr-2018*	02-Oct-2018*	N/A	D-D	As reported by the animal owner, Merlin a male Ginger Domestic Cat aged 2 years and 3 months and weighing 4.30 kg, and of unknown reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number S40304AW expiry date JAN 2021) on 21 SEP 2018 topically to the back of the neck at an unknown dose by the animal owner for parasite control. The cat is treated every four weeks and the animal owner has been using the product since April or May of this year (estimated 01 APR 2018) and the last three times the product was applied to the cat before the current administration were 22 AUG 2018, 23 JUL 2018 and 17 JUN 2018. The animal owner reports that one and a half weeks after the most recent application of the product (estimated 02 OCT 2018), fleas were found on the cat and the animal owner was finding flea dirt and eggs on the end of their bed, where the cat sleeps. The animal owner vacuumed all that they could find and sprayed the bed, floor and curtains and vacuums their bed and bedroom every day. The animal owner has not yet turned the heating on, no one in the home is being bitten by fleas, the cat spends time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner sees fleas occasionally (less than 5 at a time), the cat never gets bathed or goes swimming, the animal owner has not lived in the house for less than a year, the home has been treated with an environmental flea spray (product unknown), the cat's bedding has been washed at over 60 degrees Celsius and all areas the cat can access are regularly hoovered.
22-Oct-2018	UAE; 18UK002570; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG S (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have used FRONTLINE correctly on their small dog twice and he still has fleas, they have never had this problem before. Start date for submission purposes only.
23-Oct-2018	UAE; 18UK002572; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY;	02-Oct-2018*	02-Oct-2018*	N/A	D-D	As reported by the animal owner, a male canine of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOGS M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose three weeks ago (estimated 02 OCT 2018) for an unknown indication. The animal owner reports that they recently just got the FRONTLINE PLUS (3 weeks ago) to start treating their animal. The animal owner treated the house with FRONTLINE HOMEGARD HOUSEHOLD FLEA SPRAY on an unknown date. The animal owner has not seen a single flea on the animal or any flea dirt on him, but they know that they have a home infestation as they had one last year and they are being bitten. The animal owner

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						Route: unknown **Was the product used ok?:** Unknown to Company					has only seen one flea in the house, on the sofa, a couple of weeks ago and nothing since, but the animal owner is getting bitten in strange places, unexposed places such as the waist, tops of legs and armpits. The animal owner's husband and child do not appear to be being bitten. The animal owner closed of the rooms. The animal owner reports that they live by a woodland.
23-Oct-2018	UAE; 18UK002573; Nottinghamshire; United Kingdom	**Species:** Canine **Breed:** Rottweiler **Sex:** M **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 41 kg	2	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Loxicom; Amoxyclav; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Oct-2018*	3 Day(s)	D-A	As reported by the attending veterinary surgeon, Jackson, a male intact Rottweiler canine, born 2012 (estimated 01 JAN 2012), weighing 41 kg and in good condition, and one other dog (details unknown) were administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG XL, batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form, on approximately 02 OCT 2018, for an unknown indication. Three to four days later (estimated 05 OCT 2018), Jackson showed some neurological signs; general weakness, falling to one side and dizziness. On 18 OCT 2018 the animal presented to the attending vet with neurological signs; head tilt, lethargic, dizziness, and the animal was eating less than normal, weak and sore on the tail. The animal was given Loxicom and Amoxyclav. On Sunday, 21 OCT 2018, night the animal collapsed and had been unable to walk since this day when the animal was presented to the attending vet on 23 OCT 2018. The animal had severe neurological signs, no deep pain reflex from legs, weak, unable to stand, minimal hind limb movement, barely any front limb movement, hadn't passed any urine over the last few days, weak pulses and cold extremities. The animal had vomited once. The attending vet offered MRI and CT scans but the animal owner did not want to pursue these. The animal was euthanased. The attending vet suspects that something else was probably going on but the animal owner wanted the attending vet to report the case.
23-Oct-2018	UAE; 18UK002580; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form on an unknown date monthly for an unknown indication. The animal owner reports that they use FRONTLINE religiously every month, and have recently started using FRONTLINE PLUS, which they get as a delivery every month so know that they are not leaving any treatment gaps. The animal owner has a dog, one outdoor cat and one indoor cat (this animal). The animal owner reports that they are finding fleas on the animal that does not go outside. There are none on the dog or the outdoor cat. The animal owner states that they have never had any trouble with FRONTLINE before, and that they flea bomb the house every three months, and spray Bob Martin spray once a week in the house. No one in the home is being bitten. The animal owner does not have the batch numbers as they throw the packet away once it has been used. Start date added for submission purposes only.
20-Oct-2018	UAE; 18UK002582; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** -	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	N/A	01-Oct-2018*	N/A	D-C	As reported by the animal owner, two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch S40304AW, expiry JAN 2021) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for an unknown indication. The animal owner reports that they bought the product in good faith thinking that it

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		Weight: Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					would eliminate and protect their two cats, but in fact it has caused a severe allergic reaction on the back of their necks, leaving the area very itchy and sore. Start date added for submisison purposes only.
21-Oct-2018	UAE; 18UK002583; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Unknown - other flea product; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Aug-2018*	21-Oct-2018	N/A	D-D	As reported by the animal owner, one male canine and one canine of unknown sex, both of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route by the animal owner as a parasiticide. The animal owner reports that they have been using the product on both dogs for about 2 months (estimated starting on 01 AUG 2018) because the male dog has fleas, even though the animal owner had used a different product on the dog before (product unknown). The animal owner has just noticed (21 OCT 2018) that the dog has fleas again but is not due another dose of FRONTLINE PLUS for another week, and is highly disappointed in the product. The animal owner has also treated the home with the spray (assumed FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY, batch number and expiry date unknown, date of use unknown).
24-Oct-2018	UAE; 18UK002584; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Oct-2018	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a canine aged 8 months and of unknown breed, sex, weight, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on 05 OCT 2018 topically to an unknown site by the animal owner as a parasiticide. The animal owner reports that they are still seeing fleas. The dog has had no previous flea treatment before this administration. Fleas have been seen emerging in the home and jumping on the humans. Start date for submission purposes only.
24-Oct-2018	UAE; 18UK002585; East Sussex; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 43 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male canine weighing 43 kgs and of unknown age, breed, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG XL (batch number and expiry date unknown) on an unknown date via an unknown route by the animal owner for parasite control. The animal owner reports that they have been using FRONTLINE on their dog for months (dates unknown) and the dog has sores where he bites, especially his tail. The dog also has fleas running that the animal owner catches with a flea comb. The animal owner states that other people they know who have cats and dogs also notice that FRONTLINE isn't working. The animal owner states that they will be using Advocate next time. Start date for submission purposes only.
24-Oct-2018	UAE; 18UK002594; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products**	N/A	21-Oct-2018	0 Day(s)	D-D	As reported by the attending vet, two felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on 21 OCT 2018 topically

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					by the animal owner at an unknown dose to an unknown site as a parasiticide. The animal owner reported on 24 OCT 2018 that the fleas appear to be active still. The cats are both longer haired cats so the animal owner is not sure if the liquid got to the skin as the cats had sticky hair at the application site.
25-Oct-2018	UAE; 18UK002603; -; United Kingdom	**Species:** Feline **Breed:** Feline Other **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 2.98 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Nobivac Tricat; Ketofen; Drontal Cat 250 mg; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2005	3 Day(s)	D-C	Suspected Adverse Reaction. On 26 Nov 2005, cat was vaccinated with Nobivac Tricat and was clinically well at time of vaccination. The cat was also Drontal Cat 250 mg and Frontline Spot (unknown if these were administered). On 29 Nov 2005, cat presented as was hit by a car, hind nails scuffed, some superficial abrasions to head. The cat was dispensed Ketofen. On 1 Dec 2005, owner observed reclusive walking hunched up a possible favouring the hind limb. Radiographs taken but no abnormalities were noted. No further information expected. The cat had suspect reactions to vaccination of Nobivac Tricat Trio and Vidalta. See linked case: 2015-UK-01708.
25-Oct-2018	UAE; 18UK002607; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4.5 - 6.5 kg	5	5	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	30-Sep-2018*	N/A	D-D	As reported by the animal owner, Madison, a 7 year old female Maine coon feline weighing 6.5 kg and Matilda, a 7 year old female Maine Coon feline weighing 6 kg, Casper, a male Maine Coon feline aged 5 years, weighing 6.5 kg, Shadow a male domestic shorthair feline aged 4 years, weighing 6 kg, and Riley a male domestic shorthair cat aged 6 years and weighing 4.5 kg, all of unknown reproductive status and in unknown condition, were given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on 16 SEP 2018 topically to the back of the head and neck at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have used FRONTLINE for years with no problems and now it won't work. One of the female cats (exact cat unknown) now has flea dermatitis. Approximately 2 weeks (assumed 05 OCT 2018) after giving all of the cats FRONTLINE, the animal owner gave them FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) topically to the back of the neck and head at an unknown dose. The last time the animal owner used any FRONTLINE products on the cats was mid to late March 2018 (assumed 15 MAR 2018), and the animal owner usually uses a FRONTLINE product around March and September every year. They also spray the house with a flea product (exact product unknown) twice a year. The animal owner noticed fleas on their cats at the end of September (estimated 30 SEP 2018). No people in the house are being bitten by fleas, the cats spend time indoors and outdoors in the garden only. The animal owner is seeing occasional fleas, the cats never get bathed, all animals in the house have been treated and the animal owner has lived in the house for more than a year. The home has been treated with a flea spray (product unknown), the cats' bedding has been washed at over 60 degrees Celsius and the areas the cats can access are regularly vacuumed.
25-Oct-2018	UAE; 18UK002608;	**Species:** Canine **Breed:** Mixed	2	2	0	**Product used:** FIPRONIL SPOT	N/A	25-Oct-2018*	N/A	D-D	As reported by the animal owner, two canines, a Cocker Spaniel and a Teckel, both of unknown age, weight, sex, reproductive

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	-; United Kingdom	Breeds / various **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					status and in unknown condition, were given FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on approximately 18 OCT 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they weighed their dogs prior to purchasing the product to ensure they got the correct dosage but both dogs seem to still have fleas as the animal owner keeps finding fleas on them. The animal owner has kept the dogs out of the woods and fields whilst the treatment should have taken effect, but every time they comb them they are still finding fleas. The dogs have only been allowed on a concreted yard and have not been anywhere to have further fleas jump on them.
25-Oct-2018	UAE; 18UK002612; -; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	25-Oct-2018	N/A	D-D	As reported by the animal owner, a Labrador Retriever canine of unknown age, weight, sex, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) about a week ago (estimated 18 OCT 2018) topically at an unknown site and an unknown dose by the animal owner for parasite control. The animal owner reports that they noticed just now (25 OCT 2018) that there were a lot of tick eggs near where the product was applied. The animal owner tried to remove one of the eggs and noticed that the blood of the egg was black.
25-Oct-2018	UAE; 18UK002613; -; United Kingdom	**Species:** Canine **Breed:** Tibetan Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a Tibetan Terrier of unknown age, weight, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG S, batch number and expiry date unknown) on an unknown date via an unknown route by the animal owner for parasite control. The animal owner reports that the product dose not seem to control lice on their dog. Start date for submission purposes only.
25-Oct-2018	UAE; 18UK002618; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	25-Sep-2018	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of 3 dosage forms in the last month (estimated between 25 SEP 2018 and 25 OCT 2018) for an unknown indication. The animal owner reports that they want to enquire about the product, FRONTLINE PLUS for small dogs 2 to 10 kg, as they have bought two boxes from different places now. They have put three lots on in the last month and the animal still has fleas. The animal owner asks if there is a problem with a certain batch. They have been using FRONTLINE (assumed PLUS) since the beginning of the year, but only seem to be experiencing issues with these two new boxes that they have recently bought, both from different places but are the same batch number. The animal owner reports that their poor animal is driving them and itself nuts by digging all the time, maybe the fleas around their way have got used to it.
26-Oct-2018	UAE; 18UK002619; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown)	2	2	0	**Product used:** FIPRONIL 10%/S	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately 2 felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					number and expiry date unknown) at the beginning of October (estimated 01 OCT 2018) via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have had cats for many years and used FRONTLINE for a long time. After applying the product at the beginning of October the cats are riddled with fleas and are scratching a lot. The animal owner has been advised by their vet not to reapply the product for 4 weeks and the animal owner uses the product monthly. They have seen one flea jump onto themselves but the animal owner is not being bitten. Every time the cats lay down the animal owner can see flea eggs as dark specks. Start date for submission purposes only.
26-Oct-2018	UAE; 18UK002620; -; United Kingdom	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 19.9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	26-Oct-2018	N/A	D-D	As reported by the animal owner, a female Border Collie canine, of unknown age, reproductive status and condition, weighing 19.9 kg, was administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown) via an unknown route to an unknown site by the animal owner at a dose of 1 dosage form five days ago (21 OCT 2018) for an unknown indication. The animal owner reports that they just found a flea on the animal (assumed 26 OCT 2018). The animal owner reports that they are happy with the level of flea control provided by FRONTLINE PLUS.
26-Oct-2018	UAE; 18UK002621; -; United Kingdom	**Species:** Canine **Breed:** Schnauzer **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	25-Oct-2018	N/A	D-D	As reported by the animal owner, a male schnoodle (schnauzer x poodle) canine of unknown age, weight, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on 19 OCT 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that their dog is white so it is easy to spot flea dirt and fleas on him. The animal owner treated the dog as soon as they spotted them (assumed fleas) and treated the house on Sunday (21 OCT 2018, product unknown). The animal owner reports that the fleas seemed to be gone by Monday (22 OCT 2018) but last night (25 OCT 2018) they found more dirt and a flea. They can only wash bedding so many times.
26-Oct-2018	UAE; 18UK002622; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 2 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	24-Oct-2018	0 Day(s)	D-D	As reported by the animal owner, Cally, a 2.5 year old female neutered Domestic Shorthair feline, weighing 2 kg and in good condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on 24 OCT 2018 for an unknown indication. The animal owner reports that they are a new cat owner and applied the product to the animal 2 days ago. They have seen two fleas, one live flea was found today and they had to search a lot for it in the animal's coat. The animal is scratching and they are not being bitten.
26-Oct-2018	UAE; 18UK002623; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Sep-2018*	01-Sep-2018*	N/A	D-D	As reported by the animal owner, a male neutered feline of unknown age, breed weight and in good condition, was administered FRONTLINE PLUS SPOT ON CAT (batch S40310AW, JAN 2021) topically to an unknown site, by the animal

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		Sex qualifier: Neutered **Age:** - **Weight:** Unknown				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					owner at a dose of 1 pipette in early SEP 2018 (estimated 01 SEP 2018) and 2 pipettes on an unknown date in OCT (estimated 26 OCT 2018) for an unknown indication. The animal owner reports that the animal is still covered in flea dirt and fleas and that people in the home are being bitten. The animal owner has sprayed the carpets, has never used FRONTLINE PLUS before and feels that it is not working and claims that there have been no gaps in treatment. It is reported that the animal owner has a home infestation.
26-Oct-2018	UAE; 18UK002635; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for the animal's flea problem. The animal owner reports that upon applying the product and waiting for a couple of days the animal got quite ill and the fur around the area applied started to fall out. The animal owner states that worst of all the animal still has fleas. Start date added for submission purposes only.
27-Oct-2018	UAE; 18UK002637; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch S40310AW and expiry JAN 2021) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they are very disappointed with the product. This is the second month running that they have used the product, and when combing their cat, they have removed, and continue to remove live fleas. The animal owner reports that they regularly treat their animal for fleas but this is the first time that they have purchased this product and they will not be repurchasing it. The animal owner reports that before using FRONTLINE they were using something from their vet. They are not being bitten and the animals are both indoor and outdoor animals. The animal owner reports that they are seeing 5 to 6 fleas a day when combing the animals and that they have treated the house and washed the bedding and have vacuumed. Start date added for submission purposes only.
28-Oct-2018	UAE; 18UK002638; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** X **Sex qualifier:** Lactating **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used**	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, approximately two canines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route, to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner also reports that one of her dogs has been done with FRONTLINE PLUS (details unknown, assumed one of the same dogs already treated with FRONTLINE SPOT ON). The animal owner reports that they always use FRONTLINE for their dogs but this time they think that it has stopped working and the owner doesn't know how to protect small puppies and their mum, who is

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					still feeding. Start date added for submission purposes only.
29-Oct-2018	UAE; 18UK002641; North Yorkshire; United Kingdom	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** - **Age:** 9.00 Week(s) **Weight:** 0.66 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)	27-Oct-2018	28-Oct-2018	1 Day(s)	D-B	As reported by the attending veterinary surgeon, Jack, a 9 week old male intact Maine Coon feline, weighing 0.66 kg and in good condition, was administered FRONTLINE SPOT ON CAT (batch S20306AW, expiry FEB 2021) topically to the back of the neck, by the animal owner at a dose of 2 drops from a pipette, on 27 OCT 2018, for routine flea control. The animal owner reported to the attending vet that the animal seemed paralysed yesterday (28 OCT 2018). The animal was brought into the vets and was trembling, shaking and not fitting. The animal's temperature was over 40.4 degrees C, which the attending vet was unsure if was the cause or the effect of the shaking. The animal was put onto fluids and they got food into the animal, and it is looking better. Routine biochemistry bloods were all normal. The animal has eaten enthusiastically and is trembling less and seems to be improving. The attending vet reports that it was not a seizure. The animal owner has one other kitten that they got at the same time. This kitten is over 1 kg and a Rag Doll kitten and has a heavy worm burden.
29-Oct-2018	UAE; 18UK002642; -; United Kingdom	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a Chihuahua, of unknown age, sex, reproductive status, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG S, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date for a bad bout of fleas. The animal owner reports that they used the product and have done everything correctly, but after six days the fleas are back on the animal. They have been treating the house as well with sprays but they feel that the animal is mithered. Start date added for submission purposes only.
30-Oct-2018	UAE; 18UK002648; Lancashire; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 12 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	30-Oct-2018	N/A	D-D	As reported by the animal owner, a male canine aged 4 years, weighing 12 kg, and of unknown breed, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG M (batch number S21001AL expiry date JUN 2021) on 20 OCT 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they noticed the dog had fleas 10 days ago, so treated the dog with FRONTLINE. This morning (30 OCT 2018), 10 days following product administration, the animal owner noticed that the dog is still infected with fleas. The animal owner reports that they have treated the house and they purchased the product online. The dog is treated with FRONTLINE every 4 to 6 weeks and the product is used all year round. The last four dates that the product was applied to the dog were 15 SEP 2018, 11 AUG 2018, 07 JUL 2018 and 31 MAY 2018. People in the home are not being bitten by fleas, the dog spends time indoors and outdoors, all animals in the house and all in-contact animals have been treated with a flea product, the animal owner has seen many fleas on their pet at the same time, the dog only gets bathed when he goes to the clippers and does not go swimming, the animal owner has lived in the home for longer than a year, the home has been treated with an environmental spray, the dog's bedding has been washed at over 60 degrees Celsius and all areas the dog can access are regularly vacuumed. The animal owner further reports that 15 days after application (04 NOV 2018) they are still brushing fleas off the dog.

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30-Oct-2018	UAE; 18UK002655; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.42 Month(s) **Weight:** 1.79 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Nobivac Lepto 2; Nobivac DHPPi, Lyophilisate for Suspension for Injection for Dogs; Milpro 2.5 mg/25 mg Film-coated Tablets for Small Dogs and Puppies; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Oct-2018	22-Oct-2018	2 Week(s)	D-D	Lack of efficacy. Live fleas found 22/10/18.
30-Oct-2018	UAE; 18UK002662; -; United Kingdom	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Aug-2018*	03-Aug-2018*	N/A	D-D	As reported by the animal owner, a male standard Labradoodle (Labrador cross poodle) canine of unknown age, weight, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on approximately 01 AUG 2018 topically to an unknown site at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have used the product monthly for the past three months (application dates estimated as 01 AUG 2018, 01 SEP 2018 and 01 OCT 2018). The animal owner ensured the product went on the dog's skin and not just on his mass of fur. The animal owner reports that they are vigilant with flea treatment as there are a lot of cats in and out of the garden, and the dog is not aggressive so he often plays with them. However, for each of the three applications over the past three months, the animal owner reports that within two days of treatment their dog has fleas. The animal owner used the first treatment because the dog had contracted fleas and this did nothing. They are very disappointed in the product.
30-Oct-2018	UAE; 18UK002663; -; United Kingdom	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 2 - 10 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a Pomeranian canine, weighing 2-10 kg, and of unknown age, sex, reproductive status and condition, was administered FRONTLINE SPOT ON DOG S (batch R219008AX, expiry NOV 2020) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they have used FRONTLINE SPOT ON CAT and DOG for ages but it hasn't worked this time (cat case reported in linked case UK18002664). The animal owner hasn't actually seen any fleas on the animals (1 cat, 1 dog) at all, they are occasionally scratching and nibbling at themselves so they know that it is fleas. Start date added for submission purposes only.

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30-Oct-2018	UAE; 18UK002664; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a Domestic Shorthair feline, of unknown age, sex, reproductive status, average (unknown) weight and unknown condition, was administered FRONTLINE SPOT ON CAT (batch S20308AW, expiry FEB 2021) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they have used FRONTLINE SPOT ON CAT and DOG for ages but it hasn't worked this time (canine case reported in linked case 18UK002663). The animal owner hasn't actually seen any fleas on the animals (1 dog and 1 cat) at all, they are occasionally scratching and nibbling at themselves so they know that it is fleas. Start date added for submission purposes only.
31-Oct-2018	UAE; 18UK002668; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Unspecified home flea treatment product; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Oct-2018*	24-Oct-2018*	N/A	D-D	As reported by the animal owner, Bruno, a 3 year old entire male cat, of unknown breed and weight and in good condition, and one other cat of unknown age, weight, breed, sex and in unknown condition were treated with FRONTLINE COMBO SPOT ON CAT (batch number and expiry date unknown), for the first time, applied by the animal owner three weeks previously (date estimated as 10 OCT 2018) and the owner reported that the FRONTLINE did not work at all and the cats were scratching a lot. The owner waited a couple of weeks and then saw a lot more fleas, so the owner went to the vets who gave the cats a tablet. The owner reported that there were then no more fleas. The owner treats the house every year with an unspecified product, as the owner reported that they have had home infestations previously. The owner sees fleas every year and reported that their daughter gets bitten as they like her skin. No further information was supplied. Start date added for submission purposes only.
31-Oct-2018	UAE; 18UK002669; Kent; United Kingdom	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Oct-2018	28-Oct-2018	1 Day(s)	D-C	As reported by the veterinary nurse, Bear, a 2 year old male neutered French Bulldog canine, weighing 11 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form on 27 OCT 2018 for an unknown indication. The animal owner reported that on 28 OCT 2018 the animal started catching flies, snapping at thin air and appeared to be hallucinating. On 30 OCT 2018 the attending vet attempted to examine the animal but couldn't as the animal was aggressive and trying to get at the vet. The animal was given Gabapentin to take for an examination tomorrow. The episodes stopped that evening, 30 OCT 2018. On 31 OCT 2018, the animal was examined and was treated for facial dermatitis (given antibiotics and steroids). The animal has shown no hallucinating or fly-catching today, and the episodes had reduced in frequency and magnitude. It is reported that the skin problem is an ongoing problem that is chronic and not new.
30-Oct-2018	UAE; 18UK002677; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown	N/A	04-Sep-2018*	0 Day(s)	D-D	As reported by the animal owner, approximately two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, about 8 weeks ago (04 SEP 2018) for an unknown indication. The animal owner reports that they use the product regularly, around every 4 weeks as recommended. However, they used it about 8 weeks ago and it failed to get rid of the fleas. The animal owner therefore bought

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						Was the product used ok?: Unknown to Company					some more as usual and applied after 4 weeks, but they can still see fleas on the animals, and an awful lot of scratching and licking, which is tormenting the animals. The animal owner is disappointed that it hasn't worked as it had worked throughout the summer.
01-Nov-2018	UAE; 18UK002698; -; United Kingdom	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Sep-2018*	01-Nov-2018*	0 Day(s)	D-D	As reported by the animals owner, Gizmo, a male Yorkshire Terrier Dog, of unknown weight breeding status or health status was given FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS S) (batch number: s60328al and expiry date: unknown) via an unknown route and frequency starting 2 months previously (start date estimated as 01 SEP 2018), administered by the animal's owner, as a flea treatment. On 01 NOV 2018 the owner reported that the dog was still troubled constantly with fleas and the dog was constantly scratching. The owner had combed the dog and always found live fleas on him. The owner also used an unspecified spray for the home. The owner reported that they had been using FRONTLINE to control fleas for years and had always been happy with it. However this year it was simply not working on their dog. Start date of adverse event added for submission purposes only.
04-Nov-2018	UAE; 18UK002699; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Seresto collar; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a female feline of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON CAT, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, two weeks ago (22 OCT 2018) for an unknown indication. The animal also has on a Seresto collar. The animal owner treated the house and washed the blankets and bedding, but is still seeing flea dirt and occasional fleas where the animal lays down. Start date added for submission purposes only.
04-Nov-2018	UAE; 18UK002700; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 9.00 Week(s) **Weight:** 2 lbs*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Low dose)	N/A	21-Oct-2018*	0 Day(s)	D-D	As reported by the animal owner, a 9 week old female feline, of unknown reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of less than the full packet, two weeks ago (21 OCT 2018) for an unknown indication. The animal owner reports that they treated their 9 week old kitten with FRONTLINE but did not use the full packet because they were scared she was so young, but she was over 2 pounds (exact weight unknown). It has been two weeks and the animal still has quite a few fleas. The animal owner reports that they think that not using the entire pack was their mistake and it is not effective .
02-Nov-2018	UAE; 18UK002703; -; United Kingdom	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown	N/A	01-Nov-2018*	N/A	D-C	As reported by the animal owner, a male West Highland White Terrier canine, of unknown age, sex, reproductive status, weight and condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of two dosage forms at an unknown frequency, from an unknown date for an unknown indication. The animal was then administered FRONTLINE PLUS SPOT ON DOG M (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of two dosage forms one month apart for an unknown indication. The

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					animal owner reports that none of the FRONTLINE flea treatments have worked, and that the animal still has fleas. The animal owner has hoovered, sprayed Indorex and boil washed all the animal's bedding. The animal owner reports that the animal now also has infected ears, and that the animal is a Westie and that they are prone to skin irritation and allergies from bites and that they have kept the animal clear of fleas and with spotless ears for several years prior to this. Start date added for submission purposes only.
02-Nov-2018	UAE; 18UK002724; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	23-Oct-2018	N/A	D-D	As reported by the animal owner, two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (Batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, 10 days ago (23 OCT 2018) for an unknown indication. The animal owner reports that they sprayed the house with Indorex and that the animals are still scratching constantly. The animal owner combed the animals and they have loads of live fleas still. The animal owner states that they cannot believe that these are all reinfestations or hijacking fleas who have jumped on that day, they must have combed at least a dozen out from each animal. The animal owner reports that they can only conclude that FRONTLINE isn't as effective as the marketing suggests.
05-Nov-2018	UAE; 18UK002727; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	05-Nov-2018	N/A	D-D	As reported by the animal owner, three canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on 30 OCT 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they took one of their dogs to the vet for an unrelated issue and the vet discovered the dog had fleas. The animal owner therefore purchased FRONTLINE and used the product on all three of their dogs. The animal owner also purchased FRONTLINE SPRAY (batch number and expiry date unknown) but it is unknown whether the product was used on the animals. On the evening of 05 NOV 2018 the animal owner noticed that two of the dogs seemed to be irritable. On inspecting both dogs, they discovered some fleas on two of the dogs and started using a flea comb on them. There were a few live fleas which were popped once caught. The animal owner then bathed all three dogs with flea shampoo.
05-Nov-2018	UAE; 18UK002730; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	17-Jun-2018*	01-Nov-2018*	19 Day(s)	D-D	As reported by the animal owner, four felines of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on approximately 13 OCT 2018 via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have treated the cats every four weeks since they purchased a subscription on 17 JUN 2018. The cat's next treatment is due on 10 NOV 2018. The animal owner also reports that they have treated all carpets, rugs and soft furnishings have been treated with a spray (product unknown). In November (estimated 01 NOV 2018) the animal owner reports that all of the cats still have fleas and there are hatching eggs. This is after 5 treatments with the product.
07-Nov-2018	UAE; 18UK002740; -; United Kingdom	**Species:** Canine **Breed:** Bichon Frise	1	1	0	**Product used:** FIPRONIL SPOT ON DOG	22-Oct-2018	22-Oct-2018	within 24 hours	D-D	On 22 Oct 2018 a male 3 year old Bichon Frise 8kg dog had 0.67ml Frontline Spot on Dog 10% w/v Spot on Solution 2-10 kg applied. (NCA best guess product). Within 24 hours the dog was

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex: M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 8 kg				**Other products used:** no other products **Route:** other **Was the product used ok?:** Unknown to Company					shaking and hair loss, redness, scabs appeared. Pet owner called their vet, the advice was to shower the treatment off, the dog immediately started to feel better after, and 10 days later is doing well.
06-Nov-2018	UAE; 18UK002744; -; United Kingdom	**Species:** Canine **Breed:** Border Collie **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Sep-2018*	01-Nov-2018*	N/A	D-D	As reported by the animals owner, a Border Collie dog, of unknown sex, age, weight, reproductive status, and health status was treated with FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS M) batch number and expiry date unknown, frequency unknown, first applied by the dog's owner two months previous to the date of reporting (date estimated as 06 SEP 2018) and on 06 NOV 2018 the owner reported that the dog still had fleas and the fleas were still hopping around a treat, however no-one was being bitten. No flea treatment had been given before that. No further information was supplied. Start date of adverse event added for submission purposes only.
06-Nov-2018	UAE; 18UK002745; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Mixed **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, one male feline and one female feline, both of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have recently discovered what look like flea eggs or larvae on their own bedding. They have boil washed everything in their linen cupboard but whilst steam ironing the sheets they can see tiny white bumps that they can pull out using a pair of tweezers. They are like a tiny piece of cotton with a feathered sort of tail. They are mostly about 2 mm in total length and there are loads of them in every sheet and duvet cover. The animal owner reports that they adopted the two cats as feral cats two years ago and they try to keep the cats inside but they escaped last year and the inevitable happened, fleas plus one litter of kittens. Both cats are treated monthly with FRONTLINE PLUS (dates unknown) and the female doesn't go outside at all anymore. The male is not so easy to keep indoors but the animal owner watches them constantly. Start date for submission purposes only.
06-Nov-2018	UAE; 18UK002747; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 4 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	28-Sep-2018	30-Sep-2018*	2 Day(s)	D-D	As reported by the sales manager at an online pharmacy, Billie a female domestic shorthair feline born on 20 APR 2016 and weighing approximately 4 kg, of unknown reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number S40720AW expiry date MAY 2021) applied topically to the back of the neck at an unknown dose by the animal owner for an unknown reason at the end of September (estimated 30 SEP 2018). A customer of the online pharmacy contacted the sales manager to report that the product had not worked. The animal owner reports that they have used all 6 pipettes in the packet on the cat since the end of September (estimated 30 SEP 2018) and they are still seeing fleas. The animal owner reports that they use the product all year round but specifically when they see fleas. The last four dates they have used the product are 28 SEP 2018, 10 OCT 2018, 20 OCT 2018 and 6 NOV 2018. The animal

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											owner states that they are aware that the frequency of dosing they have used means that they have overdosed the cat, but they believe that the product is not working and they know that because the cat is not being poorly or even itching when the product is applied to the cat. People in the home are being bitten by fleas, the cats spend time indoors and outdoors, all animals in the house have been treated, the animal owner is seeing many fleas (5 or more at a time), the cats do not get bathed or go swimming, the animal owners have lived in the house for longer than a year, the home has been treated with an environmental flea spray, the cat's bedding has been washed at over 60 degrees Celsius, and all areas in the home that the pets can access are regularly vacuumed. The animal owner reports that they have already carried out suggested recommendations such as continually treating all pets in the home for at least 3 months, vacuuming more than usual, regularly washing pet bedding, treating the home with a household flea spray and ensuring pets have
06-Nov-2018	UAE; 18UK002748; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, one kitten of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (batch R421801AX, expiry NOV 2020) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date as a parasiticide. The animal owner reports that they are a breeder and that the kittens were living outside in a cattery and then were weaned and taken into a room in the house by themselves. The animals had not been treated for fleas. The animal owner took the animals to the vets, who noticed flea dirt. The animal owner bought FRONTLINE and applied it but is still seeing a couple of fleas on one kitten and flea dirt. The mum of the animals still lives in an outside cattery and the animal owner also has a dog which is treated with FRONTLINE every month. No one in the home is being bitten and the animal owner has sprayed the room. The animal owner has been breeding animals for 15 years. Start date added for submission purposes only.
07-Nov-2018	UAE; 18UK002749; -; United Kingdom	**Species:** Feline **Breed:** Feline Other **Sex:** X **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 4 - 5 kg	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Advantage; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	07-Nov-2018	4 Day(s)	D-D	As reported by the animal owner, Milo, a 7 year old male domestic feline weighing 5 kg, and Maizie, a 10 year old female domestic feline weighing 4 kg, of unknown reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number S40813AW and expiry date JUN 2021) on 03 NOV 2018, topically to the back of the neck, at a dose of one dosage form, by the animal owner for parasite control. The animal owner reports that they have had the product on their cats for five days now and not one flea is dead. The cats are still scratching and when the animal owner flea combs them they are getting live fleas from them. The animal owner reports that prior to using FRONTLINE PLUS, they used Advantage 80 Large Cat (batch and expiry unknown) on 18 SEP 2018, 25 JUL 2018 and 03 MAY 2018. The animal owner first noticed fleas on the animals on 27 OCT 2018, and use products all year round, when they are needed - approximately every three months. The animal owner reports that no one in the home is being bitten, they are seeing many fleas on the animals - more than 5 at the same time, the animals spend time indoors and outdoors, all animals that live in the household are treated with a flea product, the animals are never bathed or go swimming, and all areas that the animals can access are regularly vacuumed.

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06-Nov-2018	UAE; 18UK002750; -; United Kingdom	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.50 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	06-Nov-2018	0 Day(s)	D-D	As reported by the animal owner, Maisie a female Jack Russell Terrier canine aged 3.5 years and of unknown weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG L (batch number S20201 expiry date JAN 2021) on 06 NOV 2018 topically by the animal owner at an unknown dose for an unknown reason. The animal owner reports that they purchased the product from an online auction site. The animal owner applied it to their dog and about 2 hours after application the dog became fidgety and there was a general change in demeanour. The skin around the area became really red and the dog was irritated by the area. The dog's fur also looks like it is bleached but there is no hair loss.
07-Nov-2018	UAE; 18UK002753; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Aug-2018	01-Nov-2018*	11 Week(s)	D-D	As reported by the animal owner, a canine weighing 30 kg and of unknown age, breed, sex, reproductive status and in unknown condition was given FRONTLINE PLUS SPOT ON DOG L (batch number and expiry date unknown) on 16 AUG 2018 topically at an unknown site and an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have also treated their cat (see linked case 18UK002754). The animal owner is also using an household flea spray (Indorex) and their child is being bitten by fleas. Start date for submission purposes only.
07-Nov-2018	UAE; 18UK002754; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Indorex household spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	16-Aug-2018	01-Nov-2018*	11 Week(s)	D-D	As reported by the animal owner, a feline weighing 4 kg and of unknown age, breed, sex, reproductive status and in unknown condition was given FRONTLINE PLUS SPOT CAT (batch number and expiry date unknown) on 16 AUG 2018 topically at an unknown site and at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have also treated their cat (see linked case 18UK002753). The animal owner is also using a household flea spray (Indorex) and their child is being bitten by fleas. Start date for submission purposes only.
07-Nov-2018	UAE; 18UK002756; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Oct-2018*	N/A	D-D	As reported by the animal owner, a male feline of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reported on 26 OCT 2018 that the product does not work. They have tried to de-flea their cat using the instructions, but they are now on their final pipette and they can still see fleas crawling through his fur.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
07-Nov-2018	UAE; 18UK002762; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a female feline of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have always treated their cats with FRONTLINE and last time they used Stronghold. They have recently got a new kitten who is covered in fleas. The kitten has been treated with FRONTLINE and still has hundreds of fleas. The animal owner has bathed her in warm water, dogged the house with flea foggers and used RIP fleas and is still seeing them. Start date for submission purposes only.
06-Nov-2018	UAE; 18UK002766; Lincolnshire; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Jul-2018*	N/A	D-D	As reported by the animals owner, their cats (estimated number as 2), of unknown breed, sex, age, weight, reproductive status, and health status were treated with FRONTLINE (assumed to be FRONTLINE SPOT ON CAT) batch number and expiry date unknown, route unknown, frequency unknown, administered by the cat's owner on an unknown date, as a flea treatment for their cat's. The owner reported that in the last few months, especially over the summer the FRONTLINE has been useless. The owner reported that they had made enquires with their local vet who informed them that the product no longer worked. The owner felt it was their duty as a consumer, to raise this as a concern as a high price is charged for the product, which in short is not fit for purpose, the owner felt the product was ineffective. Start date for submission purposes only.
07-Nov-2018	UAE; 18UK002768; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Nov-2018	1 Day(s)	D-C	As reported by the animal owner, Deedee a female neutered domestic shorthair feline aged 16 years and of unknown weight and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number and expiry date unknown) on 01 NOV 2018 topically to an unknown site by the animal owner as a parasiticide. The animal owner reports that the cat was taken to the vets on 01 NOV 2018 for possible bladder issues, as the cat had been peeing in places in the house that she shouldn't have been. The animal owner had put down some puppy pads and there was something strange on them that didn't look like urine. The vet gave the cat something to ease the irritation of the bladder but the animal owner is not sure what it was. The cat was also given something for stiffness, some drops like an anti inflammatory (product unknown). The animal owner then applied FRONTLINE when they got back from the vets. The cat started showing symptoms the day after (02 NOV 2018), she began to get a bit wobbly and disorientated, the cat was falling down and had no power in her leg, so they took her back to the vets. The cat had some blood tests and there were no kidney, liver, or spleen problems. The animal owner does not think the cat was checked for diabetes. The cat's abdomen was scanned, which showed thickened bowels so the animal owner is not sure if there is something else going on which has led to how thin she is. The animal owner states they think it is possible that FRONTLINE may have caused the cat's neurological signs. On 14 NOV 2018 the animal owner reported that the cat is perfectly fine now. She is feisty, has been on antibiotics and steroids and her stool has changed; it was hard before and now it is softer. The attending vet reported that the cat came to the practice on 31 OCT 2018 for a urinary tract infection. The attending vet noted that the cat had fleas and the owner stated they had Advocate at home to apply. The cat was seen by the attending vet again on 05 NOV

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											2018 for neurological
08-Nov-2018	UAE; 18UK002769; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	08-Nov-2018	N/A	D-D	As reported by the animal owner, 3 small dogs, of unknown breed, sex, age, weight, reproductive status, and health status were treated with FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS S) batch number and expiry date unknown, route unknown, frequency unknown, administered by the animal owner 10 days prior to the date of reporting (date estimated as 29 OCT 2018) as the dogs had 1 flea. On 08 NOV 2018 (10 days later) the owner reported on that they were still finding the odd flea on the dogs. The owner thought the product was supposed to kill fleas and eggs and had not found this was the case. The owner was now going to have to go to their vet to buy something else that worked.
08-Nov-2018	UAE; 18UK002770; -; United Kingdom	**Species:** Canine **Breed:** Greyhound **Sex:** X **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 32 - 35 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Oct-2018	08-Nov-2018*	12 Day(s)	D-D	As reported by the animal owner via social media, Finn, a male 5 year old Greyhound dog, weighing 35 kg and Willow, a female 8 year old Greyhound dog, weighing 32 kg, both of unknown reproductive status and in unknown condition, were given FRONTLINE SPOT ON DOG L (batch number: R21901AR and expiry date: 30 NOV 2020) on 27 OCT 2018, applied by the owner as per information given on the inside of the packet, between the shoulder blades directly onto the skin of the dogs, as the owner had seen fleas on the dogs. The owner reported that they regularly groomed the dogs, so they were constantly watching for any signs of a flea infestation. This was the first time they had had to treat the dog's for fleas since the dogs had left their greyhound retirement kennels. The animal owner reported that two weeks after applying the product (date estimated as 08 NOV 2018), there were still fleas crawling around on both dogs (occasional fleas, less than 5 at any one time) and the product was completely useless. No one was being bitten by the fleas and the owner reported that the dogs spent their time indoors and outdoors. The dogs were never bathed and never went swimming. The home had also been treated with an unspecified environmental flea treatment, had been regularly vacuumed and the dog's bedding had been washed at over 60°C. The animal owner had visited their vet to get an alternative treatment. The animal owner confirmed that the vet said that the Spot on had not killed the fleas and prescribed an alternative flea treatment. The vet is reported to also have added that the fleas were becoming resistant to Spot On and that other people have said that it is not working on their animals. The animal owner reports that they will not be using the Spot on treatment again and is pretty annoyed that they have paid for something that is not doing what it says on the box. The animal owner reports that the fleas did not become hyperactive or come to the surface of the fur, and that they
08-Nov-2018	UAE; 18UK002771; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 8.00 Week(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used**	N/A	08-Nov-2018*	N/A	D-D	As reported by the animal owner, approximately two felines aged 8 weeks and of unknown weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) 2 weeks ago (estimated 25 OCT 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that at first the product seemed to kill the fleas pretty quickly, but they have noticed that there are more, smaller fleas on their kittens and perhaps hatched eggs.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: -					
08-Nov-2018	UAE; 18UK002774; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	08-Nov-2018*	N/A	D-D	As reported by the animal owner, 2 dogs, of unknown breed, sex, age, weight, reproductive status, and health status were treated with FRONTLINE SPOT ON (estimated to be FRONTLINE SPOT ON DOG M) batch number and expiry date unknown, route unknown, frequency unknown, administered by the dog's owner on multiple unspecified dates in an effort to rid the dogs of fleas . The owner reported on 08 NOV 2018, that the FRONTLINE did not work and that the product was far too expensive not to be effective . The owner had also treated the home with an unspecified product. No further information was supplied. Date of adverse event added for submission purposes only.
09-Nov-2018	UAE; 18UK002778; Cambridgeshire; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 4.900 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	05-Nov-2018	08-Nov-2018	N/A	D-D	As reported by the veterinary nurse, Sox, a 13 year old male neutered Domestic Shorthair feline, weighing 4.9 kg (in 2014) and in unknown condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 3 dosage forms starting on 05 NOV 2018 as the animal was scratching. On the 08 NOV 2018, the animal started scratching and licking excessively, and running around like mad as if the animal was going loopy. The animal has not vomited, been lethargic or had diarrhoea. It is reported that the animal seemed hyperexcited. The animal has not been seen at the practice since 2014 and so they do not feel that they can accurately describe the animal's health otherwise. There is no batch number available as the animal owner has thrown the box away. The animal is well today and will be coming into the practice this afternoon.
09-Nov-2018	UAE; 18UK002780; -; United Kingdom	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Aug-2018*	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a female Staffordshire Terrier canine, of unknown age, reproductive status, weight and condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) topically to an unknown site, by the animal owner at an unknown dose for a few months (estimated to start 01 AUG 2018) for an unknown indication. The animal owner reports that the animal has very short hair and it is virtually impossible to part the fur to apply the treatment. The fur is now discoloured where the pipettes have been applied and the animal owner is not at all happy about this. Start date added for submission purposes only.
08-Nov-2018	UAE; 18UK002781; -; United Kingdom	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 9 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014*	26-Oct-2018*	N/A	D-D	As reported by the animal owner, Rio, an 8 year old male intact Shih Tzu canine, weighing 9 kg and in good condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG S, batch and expiry unknown) topically to the back of the neck, by the animal owner at a dose of 1 dosage form monthly for the last 4 to 5 years since the animal had a reaction to Advantix when the animal was twitching and it seemed to affect it's nervous system (estimated to start 01 JAN 2014) as parasite control. The animal has a history of a slight heart murmur. The animal owner reports that over the last week or two (estimated to start 26 OCT 2018), they have noticed the animal scratching the hind legs and sides, not continuously, but the animal has never been one to scratch, especially this much. The animal will suddenly turn round like something lands on it, and then starts

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											scratching. The animal owner is a qualified groomer and has checked the animals entire body, and is always cleaning and grooming, has checked the animal's skin and there is nothing present and there are no changes. The last time the product was applied was three days ago, 06 NOV 2018. on 14 NOV 2018, the animal owner reported that they have not taken the dog to the vets as she now thinks the dog's symptoms are due to dry skin and not fleas.
08-Nov-2018	UAE; 18UK002782; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 22 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** AFOXOLANER 68 MG CHEWABLE TABLETS; Effipro; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, Milo a male neutered Springer Spaniel canine aged 9 years, weighing 22 kg, and in unknown condition, was given FRONTLINE SPOT ON DOG L (batch number S20509AR expiry date MAR 2021) on an unknown date at an unknown dose topically by the animal owner as a parasiticide. The animal owner reports that they have used FRONTLINE SPOT ON DOG M (batch number S20224AL expiry date JAN 2021) on another dog and this product appears to have worked, but the product used on Milo hasn't. Milo still has fleas (the animal owner has seen 3-4 fleas on him) so the attending vet advised them to apply another FRONTLINE pipette within 2 weeks, which the animal owner did (dates unknown), and shaved the back of Milo's neck to ensure correct application. Milo had not had FRONTLINE before this application but has had NEXGARD (assumed NEXGARD 68 mg, batch number and expiry date unknown, date of administration unknown) and Effipro. The animal owner thinks they may have a home infestation but are not sure. They have sprayed the house with a flea spray (product unknown) and there have been gaps in between treatment with NEXGARD and Effipro. Milo gets walked in a very dog populated area, very rural with lots of wildlife. Start date for submission purposes only.
08-Nov-2018	UAE; 18UK002783; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, approximately two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CATS (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner, at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they recently bought FRONTLINE PLUS for their cats, applied it as directed and it hasn't worked. They have even bought new bedding and they don't have carpets, and the animals are not allowed in the front room or bedrooms. The animal owner is very disappointed. Start date added for submission purposes only.
10-Nov-2018	UAE; 18UK002791; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Nov-2018	N/A	D-D	As reported by the animal owner, a female cat, weighing 14 lbs of unknown breed, age, reproductive status and health status was treated with FRONTLINE SPOT ON CAT (batch number and expiry date unknown), route unknown, frequency unknown, administered by the cat's owner 8 days previous to the date of the report (date estimated as 02 NOV 2018) and 8 days later on 10 NOV 2018 the owner reported that they had seen a flea on the cat and they were still getting flea dirt when the owner combed the cat. No further information was supplied.
11-Nov-2018	UAE; 18UK002795;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL SPOT	03-Oct-2018	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a feline, of unknown age, sex, reproductive status, breed, weight and condition, was administered

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	-; United Kingdom	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					FRONTLINE SPOT ON CAT (batch and expiry unknown) via an unknown route, to an unknown site, by the animal owner at a dose of 1 dosage form on 03 OCT 2018 and again on 04 NOV 2018 for an unknown indication. The animal owner reports that the animal still has fleas and is scratching like mad. The animal owner asks surely the product should have got rid of the fleas and should be keeping them at bay, and wonders if they have purchased a bad batch. The animal owner reports that they are really disappointed as they have used the product before with no problem. Start date added for submission purposes only.
12-Nov-2018	UAE; 18UK002796; -; United Kingdom	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	09-Nov-2018	5 Week(s) 4 Day(s)	D-D	As reported by the animal owner, Isaac, a 6 year old male neutered Domestic Longhaired feline, weighing 4.8 kg and in good condition, was administered FRONTLINE SPOT ON CAT (batch R21140AW, expiry MAY 2020) topically to an unknown site, by the animal owner at a dose of 2 dosage forms in one month, approximately 1 month ago (estimated as 01 OCT 2018) for an unknown indication. The animal owner reports that the animal goes outside and is a mouser, and that there have been no gaps in treatment with a previous flea treatment (the animal owner cannot remember the product) and the animal is treated every 30 days approximately. The animal owner is very vigilant as they have had infestations in the past and spray the house if they notice the animal is itching. No humans are being bitten and so there is no home infestation. The animal owner reports that on Friday morning (09 NOV 2018) they found flea dirt on the animal, who had been itching and uncomfortable. The animal owner has not seen any fleas but the animal owner's wife saw one. The animal owner went to the vets and got a steroid injection for the skin, and Advocate. The animal is much better today, like a new cat, with no itching and a nice coat. The animal owner feels that the product hasn't worked.
12-Nov-2018	UAE; 18UK002797; Devon; United Kingdom	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 18.2 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Nov-2018*	N/A	D-D	As reported by the attending veterinary surgeon, Mika, a 3 year old female neutered crossbred canine, weighing 18.2 kg and in good condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) topically to the back of the neck, by the animal owner at a dose of 1 dosage form 2 to 3 weeks ago (estimated 22 OCT 2018) for an unknown indication. The attending vet reports that the client is still seeing fleas after applying FRONTLINE SPOT ON 2 to 3 weeks ago. Start date added for submission purposes only.
12-Nov-2018	UAE; 18UK002802; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** 0.92 Year(s) **Weight:** 14 - 15 kg	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, 2 Cocker Spaniel canines, one male aged 2 years and weighing 15 kg and one female aged 11 months and weighing 14 kg, both of unknown reproductive status and in unknown condition, were treated with FRONTLINE SPOT ON DOG M (batch number R20905 and expiry date MAY 2020), applied topically to the skin between the shoulder blades, monthly, administered by the owner recently (date estimated as 07 NOV 2018) and the owner reported that five days after application the fleas were still very much in evidence. The owner reported that they regularly treated both dogs with FRONTLINE and also treated the room with spray and washed the beds. The dogs are working Cockers so are out and about a lot. The owner had picked five fleas off one of the dogs yesterday evening. They are also finding flea dirt. The other dog was black, so they were less easy to spot on him. The animal owner reports that the pets are out in the fields

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											most days, they occasionally come into contact with wild animals and farm animals, they are not bathed and don't swim regularly, the product is applied when the pets are wearing a collar, no one in the home is being bitten, the animal owner has lived in the home for 25 years and they use Indorex spray in the house when fleas are in evidence. Having looked at the timings the owner could see that perhaps they needed to give things a bit more time. The owner was worried about leaving the dogs in discomfort, particularly as one has just had major surgery to have a damaged tail amputated (the one the owner picked the fleas off, tail damage assumed to pre-exist product application). Start date for submission purposes only.
13-Nov-2018	UAE; 18UK002813; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	4	4	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018	N/A	D-D	As reported by the animal owner, four felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have used the same spot on treatment from their vet for the last couple of years (product unknown) without any problems on their four cats and a dog (see linked case 18UK002814). As soon as they used FRONTLINE spot on products they have been inundated with fleas. The animal owner reports that this isn't the first time this has happened and they had to take the cats to the vets because they were scratching a few years ago (date unknown) after relying on FRONTLINE products, and now they are in the same situation again. The animal owner reports that their friends and family say the same thing and end up having to take their pets to the vet to get another brand. Start date for submission purposes only.
13-Nov-2018	UAE; 18UK002814; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, one canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have used the same spot on treatment from their vet for the last couple of years (product unknown) without any problems on their four cats (see linked case 18UK002813) and dog. As soon as they used FRONTLINE products they have been inundated with fleas. The animal owner reports that this isn't the first time this has happened and they had to take the cats to the vets because they were scratching a few years ago (date unknown) after relying on FRONTLINE products, and now they are in the same situation again. The animal owner reports that their friends and family say the same thing and end up having to take their pets to the vet to get another brand. Start date for submission purposes only.
13-Nov-2018	UAE; 18UK002819; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** X **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 4 kg*	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Thyronorm; **Route:** Topical /	20-Jan-2018*	01-Nov-2018*	N/A	D-D	As reported by the animal owner, Rascal a domestic longhair neutered feline aged 16 years and of unknown sex, Misty a female neutered domestic shorthair feline and Merlin, a neutered male domestic shorthair feline, both aged 3 years, all three cats weighing approximately 4 kg, received FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on 20 SEP 2018 topically to an unknown site, administered by the animal owner for parasite control. The animal owner reports that they have been using the product for years and have never had a problem, however they now keep finding fleas and flea dirt on the older cat

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						Cutaneous **Was the product used ok?:** Unknown to Company					(Rascal) who mostly stays indoors sleeping and very occasionally pops outside to the garden for a brief walk about. The other two cats, Misty and Merlin, who are brother and sister, are real out and about cats and there's not a flea or flea dirts on them. The animal owner has used a household flea spray at least once a year (product unknown), following the directions on the can. The animal owner considers themselves to be a well practiced and knowledgeable cat owner and therefore feels that the recent batches they have purchased on monthly prescription isn't working as it used to, at least on the oldest cat. They used to use FRONTLINE COMBO (assumed FRONTLINE COMBO SPOT ON CAT, batch number and expiry date unknown) from their vet, but heard about FRONTLINE PLUS, so has been using that product for approximately 8 months (start date estimated 20 JAN 2018). Rascal also has a thyroid issue and is on Thyronorm 0.75 mg twice a day. Start date for submission purposes only.
14-Nov-2018	UAE; 18UK002823; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown	5	5	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Jun-2018*	01-Nov-2018*	N/A	D-D	As reported by the animal owner, 5 felines, Lily a female aged 14 years, Chip, a male aged 11 years, Omalley, a male and Zsa Zsa a female, both aged 8 years, and Walter a male aged 4 years, all of unknown weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number S40310AW and expiry date JAN 2021) on 13 NOV 2018 applied topically to the back of the neck by the animal owner for parasite control. The animal owner reports that they use FRONTLINE PLUS every 4 weeks on all of the cats, but they don't seem to be getting rid of the fleas on their cats. The owner is quite military about their timings of applications but they are still seeing live fleas. The owner swapped to using FRONTLINE PLUS, having used FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) until 5 months ago. They have been using FRONTLINE PLUS for 5 months (estimated starting 13 JUN 2018) but they are still seeing live fleas. The last four dates they have applied FRONTLINE PLUS are 13 NOV 2018, 16 OCT 2018, 18 SEP 2018 and 21 AUG 2018. The owner uses a flea product all year round but first started seeing fleas on the cats about 3 months ago. People in the home are being bitten by fleas, the cats spend time indoors and outdoors, all animals in the house have been treated, the animal owner is seeing flea dirt and occasional fleas, the cats never get bathed or go swimming, the animal owner has lived in the house for longer than a year, regularly vacuums all the areas the cats can access, has not used an environmental flea treatment and has not washed the pets bedding at over 60 degrees. Start date for submission purposes only.
14-Nov-2018	UAE; 18UK002829; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	8 Day(s)	D-D	As reported by the animal owner, a feline of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) 3 weeks ago (estimated 24 OCT 2018) via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have noticed a couple of fleas on their dog (see linked case (18UK002830) and flea dirt on the cat. Start date for submission purposes only.

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14-Nov-2018	UAE; 18UK002830; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) 3 weeks ago (estimated 24 OCT 2018) via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have noticed a couple of fleas on their dog and flea dirt on the cat (see linked case 18UK002829). Start date for submission purposes only.
13-Nov-2018	UAE; 18UK002835; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 3.00 Month(s) **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	06-Oct-2018*	13-Nov-2018*	N/A	D-D	As reported by the animal owner, 3 six month old felines of unknown breed, sex, reproductive status and condition, received FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on 06 NOV 2018 applied topically to the back of the neck at a dose of 1 dosage form per animal by the animal owner as a parasiticide. The animal owner reports that they used the product as directed by the packet on their cats (assumed correct application), this is their second lot of treatment (first was a month before, estimated 06 OCT 2018) and they have never left the house. The animal owner states that they bathed them after the 48 hour period (the cats were bathed 3 days after application). The animal owner states that they have used flea foggers (product unspecified) in all rooms in their house and their cats are still full of fleas. The animal owner is also washing at 60 degrees and vacuuming the whole house. People in the house are being bitten. Start date for submission purposes only.
14-Nov-2018	UAE; 18UK002836; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have also treated the house and vacuum regularly but they are still finding fleas on the dog. Start date for submission purposes only.
15-Nov-2018	UAE; 18UK002841; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, three canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON DOG S, batch number and expiry date unknown) last week (estimated 08 NOV 2018) via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they noticed their dogs scratching like crazy and noticed that they had a flea infestation. They quickly purchased the treatment but it hasn't worked. They have treated both the dogs and the home (product unknown). Start date for submission purposes only.
15-Nov-2018	UAE; 18UK002843; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE	N/A	01-Nov-2018	N/A	D-D	As reported by the animal owner, approximately two felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on an unknown date via

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					an unknown route and unknown dose by the animal owner for parasite control. The animal owner reports that they have to flea all their animals (assumed approximately 2 dogs also, see linked case 18UK002844) very regularly as they live on a farm. At the same time as using FRONTLINE PLUS they also spray all furnishings (product unknown). The animal owner reports that for some reason the product has not worked this time round and all the animals are scratching. it is first time they have used the PLUS products. Start date for submission purposes only.
15-Nov-2018	UAE; 18UK002844; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, approximately two canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON DOG L (batch number and expiry date unknown) on an unknown date via an unknown route and unknown dose by the animal owner for parasite control. The animal owner reports that they have to flea all their animals (assumed approximately 2 cats also, see linked case 18UK002843) very regularly as they live on a farm. At the same time as using FRONTLINE PLUS they also spray all furnishings (product unknown). The animal owner reports that for some reason the product has not worked this time round and all the animals are scratching. it is first time they have used the PLUS products. Start date for submission purposes only.
16-Nov-2018	UAE; 18UK002850; West Sussex; United Kingdom	**Species:** Canine **Breed:** Spaniel (Clumber) **Sex:** U **Sex qualifier:** Unknown **Age:** 14.00 Year(s) **Weight:** 26 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** Ear Drops (unspecified); **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	06-Nov-2018	N/A	D-D	As reported by the attending veterinary surgeon, a 14 year old Clumber Spaniel canine, weighing 26 kg and of unknown sex, reproductive status and condition, was administered FRONTLINE SPOT ON DOG (assumed FRONTLINE SPOT ON DOG L, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on 06 NOV 2018, for an unknown indication. The animal has a history of skin problems and is currently receiving ear drops. The attending vet reports that the animal owner applied the product 10 days ago and the animal still has fleas. There are no other details available. The attending vet intends to administer another product.
16-Nov-2018	UAE; 18UK002851; Northamptonshire; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 3.65 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	10-Jun-2018*	10-Jun-2018*	N/A	D-D	As reported by the veterinary nurse, Nivana, a 13 year old female neutered Domestic Short Hair feline, weighing 3.65 kg and in good condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form monthly from approximately 10 JUN 2018 to approximately 10 NOV 2018 as they were seeing fleas. The veterinary nurse reports that the client brought the animal in and lifted it out of the basket and could see what they believed to be flea eggs. The animal owner has been using FRONTLINE SPOT ON since JUN 2018 due to seeing fleas on the animal, and also applied in error the last two applications only 1 week apart. The animal owner is getting the house fumigated this week.
31-Oct-2018	UAE; 18UK002855; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products	N/A	31-Oct-2018	N/A	D-D	As reported by the animal owner, two felines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on 28 OCT 2018 for an unknown indication. The animal owner reports that they flead

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		Age: - **Weight:** Unknown				**Route:** unknown **Was the product used ok?:** Unknown to Company					both the animals on Sunday and sprayed the house, but they have checked them today, Wednesday 31 OCT 2018 and there are still active fleas on them. The animals are indoor animals and they have also washed all the bedding and cushions.
15-Nov-2018	UAE; 18UK002857; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	31-Oct-2018	31-Oct-2018	N/A	D-D	As reported by the animal owner, a male feline of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on 31 OCT 2018 for an unknown indication. The animal owner reports that they noticed that the animal had fleas on it, a few hours after they had given the product. Since then, they have treated the animal again as there were still alive fleas on the animals. The animal owner has found about 15 alive throughout the house since the treatment on 31 OCT 2018, and this is after spraying the house with a flea spray (product unknown), constantly hoovering and also steam cleaning all carpets and hard flooring. The animal owner reports that they have stopped the animal entering the bedrooms.
15-Nov-2018	UAE; 18UK002858; Devon; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 11.00 Week(s) **Weight:** 0.840 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	N/A	15-Nov-2018	1 Day(s)	D-C	As reported by the attending veterinary surgeon, Milly an intact female Domestic shorthair feline born on 25 AUG 2018 and weighing 840 grams and in unknown condition, was administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) topically to an unknown site, by the animal owner at an unknown dose, on 14 NOV 2018 for parasite control. The attending vet reports that the animal was coming down to be seen at the practice because it had had FRONTLINE PLUS applied yesterday and was vomiting and hypersalivating. The cat was seen on 15 NOV 2018 by the attending vet and nothing abnormal was detected, possibly slightly raised respiratory effort, hypersalivation but no vomiting, dull in itself. The attending vet prescribed antibiotics, Cerenia and Meloxicam. The attending vet could not rule out if the cat licked the application site. The cat was seen again the following day and was a little brighter. The attending vet came to the conclusion that FRONTLINE PLUS was not the cause of the kitten's ill health - in her opinion it's a poorly kitten.
17-Nov-2018	UAE; 18UK002872; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, two canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they have used FRONTLINE on their 2 dogs twice in 8 weeks and the dogs still have fleas. The animal owner reports that the products were in date when they used them. Start date for submission purposes only.
19-Nov-2018	UAE; 18UK002884; East Sussex; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** -	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products	19-Nov-2018	19-Nov-2018	0 Day(s)	D-D	As reported by the veterinary nurse, Chilli, a 6 month old male intact Domestic Shorthair feline, weighing 3 kg and in good condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form on 19 NOV 2018 as a flea treatment. The veterinary nurse reports that

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		Age: 6.00 Month(s) **Weight:** 3 kg				**Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					the animal licked the product after application and salivated. The nurse did not have any information about which FRONTLINE product it was, nor the batch or expiry date.
19-Nov-2018	UAE; 18UK002886; Nottinghamshire; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, Nirvana, a 13 year old female neutered feline of unknown breed and weight and in good condition, was administered FRONTLINE SPOT ON CAT (batch R21104AW, expiry MAY 2020) topically to an unknown site, by the animal owner at a dose of 1 dosage form monthly from an unknown date, for an unknown indication. The animal owner reports that they bought the product online and the animal is still scratching and dropping eggs after application. The animal is very irritated. The animal is treated religiously every month with FRONTLINE, and the animal owner has sprayed two cans of Permagard in the house, washed and tumble dried everything, moved furniture and hoovered and sprayed everywhere. The animal owner has taken the curtains down and treated them and has put salt outside the front door. The rugs have gone to the dry cleaners and the animal owner bought a new hoover and a new washing machine. The house is not new and the heating has been on since SEP 2018. The animal is the only pet in the house and no one in the house is being bitten. The animal owner reports that they are still seeing eggs, that are white pin pricks, about half the size of a pin head. The animal owner took the animal to the vet, who found two fleas and no flea dirt, and who looked at the eggs under the microscope confirming that they were eggs and that they could see larvae in the eggs. The animal owner counted the eggs where the animal had been lying for 15 minutes and there were 20 eggs, 150 eggs on a cushion that the animal had been lying on overnight. The animal owner reports that they know that the fleas cannot be resistant to the product and that they would be very surprised if the product was not working properly. The animal owner states that they might not have been able to get all the product on to the skin every time they apply it to the animal, but that the amount of eggs that they are seeing is excessive. Start date added for submission purposes only.
19-Nov-2018	UAE; 18UK002893; Surrey; United Kingdom	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	12-Nov-2018*	0 Day(s)	D-D	As reported by the animal owner, a Pomeranian canine, of unknown sex, age, weight, reproductive status, and health status was treated with FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS S) batch number and expiry date unknown, route unknown, frequency unknown, administered by the dog's owner a week ago, date of treatment estimated as 12 NOV 2018 and on 19 NOV 2018 the owner reported on that the dog was still struggling with fleas, a week after treatment. The owner reported that 2 other pets were also in the house (unknown if the owner had treated these 2 animals also). No further information was supplied.
20-Nov-2018	UAE; 18UK002895; -; United Kingdom	**Species:** Canine **Breed:** Bedlington Terrier **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Oct-2018	20-Nov-2018*	N/A	D-D	As reported by the animal owner, a female Beddlington Terrier cross Whippet dog, weighing 18.5 kg, age unknown, reproductive status, and health status unknown, was treated with FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS M) batch number and expiry date unknown, applied as per

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		Unknown **Age:** - **Weight:** 18.5 kg				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					instructions. The owner reported that 2 applications had been made, a month apart, from the beginning of OCT 2018 (first application estimated as 01 OCT 2018, second application estimated as 01 NOV 2018) and on 20 NOV 2018 the owner reported that the dog's fleas had worsened. The owner reported that the dog was not very densely hairy and now had tiny scabs where the dog had been biting itself and was getting bald round the tail and the end of the dog's back, where the fleas were driving the dog mad. The owner had cleaned all the places the dog sat, and had vacuumed all the time, but the FRONTLINE PLUS SPOT ON did not seem to be working.
19-Nov-2018	UAE; 18UK002901; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, approximately 2 felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they bought two packs of FRONTLINE and both times the animals still have live fleas. The house has been completely hoovered daily, sometimes twice, and the bedding of the animals have been washed and it has still not worked. The animals are indoor cats and the animal owner reports that they are being bitten and there are live fleas on the animals. Start date added for submission purposes only.
20-Nov-2018	UAE; 18UK002914; -; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 11 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; Indorex; **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Dec-2017*	20-Oct-2018*	13 Day(s)	D-D	As reported by the animal owner, Holly a 1 year old female Sprocker spaniel (cocker cross springer spaniel) canine weighing 11 kg and of unknown reproductive status and condition, was administered FRONTLINE PLUS SPOT ON DOG M (batch number S60424AL and expiry date JAN 2021) topically to the back of the neck on 08 NOV 2018 as a parasiticide. The animal owner has also used FRONTLINE SPOT ON DOG M (batch number and expiry date unknown), and the last four dates the animal owner used FRONTLINE products are 23 JUN 2018, 31 AUG 2018, 07 OCT 2018 and 08 NOV 2018. It is not clear which products were used on which dates but the animal owner states that they have been using FRONTLINE SPOT ON DOG M since December 2017 (estimated 01 DEC 2017) and started using FRONTLINE PLUS on 05 NOV 2018. The animal owner reports that they bought the product to use on their animal, in six weeks they have used three pipettes and the animal still has fleas and lots of eggs. The animal owner is combing the animal every day and removing live fleas. They have also sprayed the house and furniture with flea spray (Indorex). The animal owner has also been treating their cat but has not seen any fleas on the cat. The animal owner has used the product as stated on the box instructions but used the products on the dog more frequently as they didn't think it was working. The products are used all year round, they started seeing fleas approximately 2 months ago (estimated 20 OCT 2018), they apply the product to the back of the neck under the collar,people in the home are not being bitten by fleas, the animals spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner sees occasional fleas, about 5 fleas per day on the dog, the dog does not get bathed or go swimming more than once a week and this does not happen within 2 days of application of the product, the animals owners have not lived in the home for less than one year, the home has been treated

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22-Nov-2018	UAE; 18UK002916; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, a canine, of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE SPOT ON DOG L (batch and expiry unknown) via an unknown route, to an unknown site, by the animal owner at an unknown dose on an unknown date to prevent fleas etc. The animal owner reports that they have had dogs for thirty plus years and have always used FRONTLINE. One of their animals has just been to the vet because they noticed some tiny black pin head sized things crawling under the fur. The attending vet said to the animal owner that the animal has fleas, and that fleas have now formed a resistance to FRONTLINE. The attending vet recommended that the animal owner use another brand. Start date added for submission purposes only.
19-Nov-2018	UAE; 18UK002926; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, Martha, a female feline aged 7 years, and Garfield, a male feline aged 6 years, both of unknown breed and reproductive status, of average weight and in unknown condition, were given FRONTLINE SPOT ON CAT (batch number S20306 expiry date FEB 2021) on approximately 01 NOV 2018 topically to the back of the neck at an unknown dose by the animal owner for parasite control. The animal owner reports that FRONTLINE has not worked for their cats or their dog (see linked case 18UK002927). The product was purchased online but they have found it to be ineffective and are concerned the product is fake. The animal owner reports that they have used the product for 20 years plus and have never had this problem before. The animal owner states that they use the product all year round, at least every 3 months, sometimes more often and they started seeing fleas on their pets in September (estimated 01 SEP 2018). The last four times they used the product was in July, September, October and November (estimated 01 JUL 2018, 01 SEP 2018, 01 OCT 2018 and 01 NOV 2018). The product is applied to the back of the animal's necks, people in the home are being bitten, the animals spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner is seeing occasional fleas, the animals do not get bathed or go swimming more than once a week and this does not occur within 2 days of product application, the animal owners have lived in the house for longer than a year, the home has been treated with an environmental flea spray, the animals' bedding has been washed at over 60 degrees Celsius and all areas the animals can access are regularly vacuumed. Start date for submission purposes only.
19-Nov-2018	UAE; 18UK002927; -; United Kingdom	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** 35 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, Roobarb, a male Golden Retriever canine aged 1.5 years and weighing 35 kg, and of unknown reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG L (batch number S20410 expiry date FEB 2021) on approximately 01 NOV 2018 topically to the back of the neck at an unknown dose by the animal owner for parasite control. The animal owner reports that FRONTLINE has not worked for their cats (see linked case 18UK002926) or their dog. The product was purchased online but they have found it to be ineffective and are concerned the product is fake (quality investigation instigated). The animal owner reports that they have used the product for 20 years plus and have never had this problem before. The animal owner states that they use the product all year round, at least every 3 months, sometimes more often and they started seeing fleas on their pets in September (estimated 01 SEP 2018). The last four times they used the product was in July,

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											September, October and November (estimated 01 JUL 2018, 01 SEP 2018, 01 OCT 2018 and 01 NOV 2018). The product is applied to the back of the animal's necks, people in the home are being bitten, the animals spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner is seeing occasional fleas, the animals do not get bathed or go swimming more than once a week and this does not occur within 2 days of product application, the animal owners have lived in the house for longer than a year, the home has been treated with an environmental flea spray, the animals' bedding has been washed at over 60 degrees Celsius and all areas the animals can access are regularly vacuumed. Start date for submission purposes only.
23-Nov-2018	UAE; 18UK002928; Kent; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** M **Sex qualifier:** Unknown **Age:** 1.80 Year(s) **Weight:** 13 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Johnson's Flea Shampoo; Advocate; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018*	18-Nov-2018	1 Day(s)	D-D	As reported by the animal owner, Benson a male Cockapoo canine aged 1 year and 10 months, weighing 13 kg, of unknown reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON DOG M (batch number S60316AL expiry date unknown) on 17 NOV 2018 applied topically by the animal owner as a parasiticide. The animal owner reports that they gave the dog FRONTLINE and sprayed the whole house with the house spray (assumed FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY, batch number 8353500A expiry date unknown). The house has been sprayed twice last week (estimated starting on 17 NOV 2018) and the animal owner started using HOMEGARD in October 2018 (estimated 01 OCT 2018). The animal owner moved all the household furniture to get full coverage. The animal owner reports that Benson had fleas when they administered FRONTLINE and he still had fleas afterwards, and they were just as bad as before treatment, if not worse. The animal owner reports that they have treated the whole house and bedding with FRONTLINE HOMEGARD so in view of this, one would assume that the flea life cycle would be broken. However, they caught six fleas on their animal today alone and the animal is constantly scratching. The morning after application Benson was scratching furiously, the owner was surprised as she assumed the FRONTLINE would have killed the fleas present. She thought maybe it needed more time to work but every day since treatment she has found numerous fleas and Benson is constantly scratching. A week after application of FRONTLINE (estimated 23 NOV 2018) the dog is still scratching and has fleas. The animal owner checks the dog every day and he had lots of flea dirt too so they are obviously still living on him. The animal owner reports that they treat the dog with a flea product usually once a month and they started using the product in October 2018 (estimated 01 OCT 2018), the animal owner parts the dog's fur between the shoulders with a comb to show a line of skin and
21-Nov-2018	UAE; 18UK002929; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	6	6	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPOT ON DOG; **Route:** unknown	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner via Social Media, six canines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose on an unknown date as they suspected that the animals had fleas. The animal owner reports that they bought the product as after moving house they suspected that the animals had fleas. They treated the animals, only to have to purchase after no improvement, FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown). Again the animal

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Was the product used ok?: Unknown to Company					owner bathed the animals and applied the spot on treatment to no avail. The animal owner reports that in summary, they had to go to the vets as two of the animals suffered severely and needed vet treatment incorporating steroids to overcome the problem and the reaction that the animals had to the fleas. The animal owner reports that they had to treat all the animals again, accompanied by bathing them all again and treating the house with spray. The animal owner reports that the vet treatment was effective. Start date added for submission purposes only.
22-Nov-2018	UAE; 18UK002933; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the attending vet via the animals owner, a cat, of unknown breed, sex, age, weight, reproductive status, and health status had been treated with FRONTLINE (assumed to be FRONTLINE SPOT ON CAT) batch number and expiry date unknown, route unknown, frequency unknown, administered by the cat's owner on unknown dates. The owner reported that they have switched from FRONTLINE to Bravecto as the FRONTLINE did not seem to be as effective against ticks. The owner reported to the vet that the cat went out, and laid under neighbouring enormous hedges, where it frequently picked up ticks and fleas. The cat also shared the hedge location with hedgehogs and foxes. The attending vet also reported that the cat had a nasty flea allergic dermatitis so wanted to know if Bravecto could be used with Frontline. No further information was supplied. Start date for submission purposes only.
23-Nov-2018	UAE; 18UK002935; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	23-Nov-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, two weeks ago (estimated 09 NOV 2018) for an unknown indication. The animal owner reports that two weeks ago they used the product on their animal but he still has fleas. They do not know why because they gave it to him like the instructions.
24-Nov-2018	UAE; 18UK002937; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	24-Nov-2018	N/A	D-D	As reported by the animal owner, approximately 3 felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, 16 days ago (08 NOV 2018) for an unknown indication. The animal owner reports that they recently bought a pack of FRONTLINE fipronil treatments. The treatment was applied 16 days ago, however they checked two of the animals this evening (24 NOV 2018) and they are both still infested with fleas. The animal owner states that all instructions were followed but it just doesn't seem to have worked this time. The animal owner reports that they have bought FRONTLINE for a number of years.
23-Nov-2018	UAE; 18UK002939; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** -	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:**	02-Nov-2018	02-Nov-2018	N/A	D-D	As reported by the animal owner, 3 dogs, 1 Staffordshire Bull Terrier and 2 dogs of unknown breed, all of unknown age, sex, weight and health status, were given FRONTLINE PLUS SPOT ON DOGS L (batch number: S60205AR and expiry date: 31 JAN 2021) applied topically to the back of the neck, from 02 NOV 2018 and ongoing, administered by the animal owner. On 23 NOV 2018 the owner reported that the FRONTLINE PLUS did not work, all 3

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Weight: Unknown				FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; Indorex spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					dogs had fleas. The fleas being seen by the owner were not the 'drunk' fleas, the fleas looked like the fipronil had not worked. The Staffie was itching a lot but the other two dogs did not care . The owner combed them on the night of 22 NOV 2018 and saw 6 fleas on the Staffie. The owner used FRONTLINE SPRAY throughout the summer of 2018. The owner had also Indorexed the house but they hated using that product as there were too many chemicals. The owner had washed and tumble dried all bedding and was not being bitten in the house. The owner reported that there were hedgehogs in the garden. The owner reported they do not give the dogs flea treatment throughout the winter, as they reported that fleas do not survive in the winter.
26-Nov-2018	UAE; 18UK002943; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	25-Nov-2018	N/A	D-D	As reported by the pharmacovigilance officer at the pharmacy , a feline of unknown age, sex, reproductive status, breed weight and condition, was administered FRONTLINE PLUS SPOT ON CAT (batch S40711AW, expiry MAY 2021) via an unknown route to an unknown site, by an unknown administrator at an unknown dose on 25 NOV 2018 for an unknown indication. The reporter states that the patient used the product and said that it was ineffective . The animal has since been to the vet and received further treatment. The attending vet said that the product must be faulty.
25-Nov-2018	UAE; 18UK002949; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** 4.5 - 5.2 kg*	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** FIPRONIL SPOT ON CAT; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	13-Oct-2018	17-Nov-2018	0 Day(s)	D-D	As reported by the animal owner, two male felines, Akira, a Birman cat aged 10 years and weighing approximately 5.2 kg, and Nova, a mixed breed (exact breeds unknown) aged 8 years and weighing approximately 4.5. kg, both of unknown reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on 17 NOV 2018 topically by the animal owner to the back of the neck at an unknown dose for parasite control. The animal owner reports that they have used FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown), successfully on their two cats for many years now, last using the product from March to October 2018 (estimated 01 MAR 2018 and 01 OCT 2018), however the last couple of treatments they have switched to FRONTLINE PLUS. This product was used on 13 OCT 2018 and 17 NOV 2018. The animal owner reports that this does not appear to have worked at all on one of their cats and he is now suffering from fleas (exact cat unknown). The animal owner reports that they use the product every five weeks and typically not over the winter, between the months of December and February. People in the home are being bitten by fleas, the cats spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner is seeing occasional fleas, they never get bathed or go swimming, the animal owner has lived in the house for longer than one year and all areas the pets can access are regularly vacuumed. Start date for submission purposes only.
25-Nov-2018	UAE; 18UK002950; Kent; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other	N/A	13-Nov-2018	0 Day(s)	D-D	As reported by the animal owner, a female canine of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on 13 NOV 2018 for an

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Unknown **Age:** - **Weight:** Unknown				products **Route:** unknown **Was the product used ok?:** Unknown to Company					unknown indication. The animal owner reports that they purchased the product on 13 NOV 2018 and put it on the animal as per the instructions on the box. The previous day the animal noticed a couple of fleas whilst combing the dog. They sprayed the rooms in the house and the animal's beds. The animal owner reports that the animal was still itching on the Tuesday (14 NOV 2018) and so they combed the animal again and found fleas. This happened each day until the Saturday when the animal owner purchased some flea shampoo and bathed the animal. The animal owner reported that the spot on dog treatment did not work, that they purchased the correct solution for the animal's weight and used it as per the instructions. They have used the product before and it always worked, about which they are shocked as it has always been their first product to use.
27-Nov-2018	UAE; 18UK002952; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, approximately two canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they believe that the FRONTLINE and FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch number and expiry date unknown) have stopped working. The product has always worked on their dogs and cat (see linked case 18UK002953), but now when they put the product on them it doesn't seem to have any effect at all. Start date for submission purposes only.
27-Nov-2018	UAE; 18UK002953; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, one feline of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on an unknown date via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they believe that the FRONTLINE and FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON CAT, batch number and expiry date unknown) have stopped working. The product has always worked on their dogs (see linked case 18UK002952) and cat, but now when they put the product on them it doesn't seem to have any effect at all. Start date for submission purposes only.
27-Nov-2018	UAE; 18UK002956; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** Unspecifed household flea spray; **Route:** Topical / Cutaneous **Was the product used**	N/A	10-Nov-2018*	N/A	D-D	As reported by the animal owner, a feline of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE SPOT ON CAT (batch S20308AW, expiry FEB 2021) topically to the back of the neck by the animal owner at a dose of 1 dosage form every six weeks for many years for an unknown indication. The animal owner reports that they have used the product for years and have never had a problem. They got a new packet and it has had no effect. The animal is very sensitive to fleas and so they know when the animal has fleas, as it scratches a lot. The animal owner has not seen any fleas on the animal, only scratching. The product was last applied two weeks ago (14 NOV 2018) and the scratching started approximately 2 to 3 weeks ago estimated 10 NOV 2018). The animal owner took the animal to the vets for another issue, and the vet said that the animal had fleas

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						ok?: Unknown to Company					and saw two flea bites on the animal. The vet said that the fleas are resistant to FRONTLINE. No one in the house is being bitten and they have washed all bedding and sprayed the whole house (product unknown). The animal does not go outside and so they do not think that the animal could have picked anything up. The animal owner lives in London and so reports that there is not a huge amount of wildlife around. The animal owner wondered if the batch could be fake. This was checked by the MAH and it is reported that it is not falsified.
27-Nov-2018	UAE; 18UK002958; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Aug-2018*	N/A	D-D	As reported by the animal owner, a female canine of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they have been using FRONTLINE for their animal for years bought from the vets. The last few months (estimated to start 01 AUG 2018) the animal has been itching a lot. The animal owner has had to keep putting it on a few days early each time. The animal had been itching so bad of late that they had to take the animal to the vets. The vet said that they were having experience of FRONTLINE not working in this area, and another product was suggested.
27-Nov-2018	UAE; 18UK002959; -; United Kingdom	**Species:** Canine **Breed:** Cockapoo **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 10 kg*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	25-Nov-2018	N/A	D-D	As reported by the animal owner, a female neutered Cockapoo canine, of unknown age, weighing just under 10 kg and in good condition, was administered FRONTLINE PLUS SPOT ON DOG S (batch S60328BL, expiry JAN 2021) topically to an unknown site, by the animal owner at a dose of one dosage form on 25 NOV 2018 as a preventative/ saw fleas. The animal owner reports that they applied the product 48 hours ago after returning from holiday and seeing fleas. The fleas are still present and the reporter believes that it is not working.
29-Nov-2018	UAE; 18UK002977; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	29-Oct-2018	N/A	D-D	As reported by the animal owner, approximately two felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE SPOT ON CAT (batch number S20308AW expiry date unknown) about one month ago (estimated 29 OCT 2018) via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they applied the FRONTLINE to their cats last month but there was no effect, so last week (estimated 22 NOV 2018) they applied another one and again there seems to have been no effect at all. 14-JAN-19 QA results received: Investigation completed for FIPRONIL SPOT ON CAT Lot# S20308AW, expiry 2021-02-28. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-14. Final complaint evaluation A product quality complaint for FRONTLINE SPOT ON CAT batch 20308aw was received by BIAH QA on 12th December 2018. The complaint description is "lack of efficacy". This is the first complaint regarding this defect for this batch. Batch record investigation Bulk batch: S203

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											Manufacturing date: 05/03/2018 - Expiry date: NA - Manufacturing quantity: 1199 liters No deviation and observation associated to this batch. This batch was not concerned by any change control. Results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Batch record investigation Filling batch: S20308 Manufacturing date: 15/03/18- Expiry date: 02/2021- Manufacturing quantity: 99 780 pipettes No deviation and chane control associated to this batch. Two observations not associated to this defect The results of QC testing are conform at specifications. Performance of IPC during production: the filling of pipettes is controlled every 30 minutes IPC performed during the batch: 62 IPC (744 pipettes) are confom Root cause: No root cause could be identified on Toulouse plant Description: After verification of batch records and
29-Nov-2018	UAE; 18UK002978; -; United Kingdom	**Species:** Feline **Breed:** Russian Blue **Sex:** M **Sex qualifier:** Unknown **Age:** 1.16 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	29-Nov-2018	N/A	D-D	As reported by the animal owner, a male Russian Blue feline aged 14 months and of unknown weight, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on Monday (26 NOV 2018) topically by the animal owner to an unknown site and at an unknown dose as a parasiticide. The animal owner reports that they had great difficulty parting the cat's thick fur to apply the product. The product does not seem to have worked as the animal owner is still seeing live fleas on the cat now (29 NOV 2018). The animal owner thinks that they did not get the product fully on the cat's skin.
29-Nov-2018	UAE; 18UK002986; -; United Kingdom	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** - **Age:** 4.96 Year(s) **Weight:** 46 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	Jul-2018	Jul-2018	N/A	D-B	On 18 Nov 2018 a 4.96 year old 46 kg male Siberian Husky had Frontline Spot on Dog 10% w/v Spot on Solution applied (NCA best guess product). On 20 Nov the dog had 2 seizures. Owner reports that he could have had a seizure for first time in July after using Frontline too, but not sure. He had the Frontline 1 day before having seizures in July. No further information.
29-Nov-2018	UAE; 18UK002999; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used**	N/A	01-Nov-2018*	N/A	D-D	As reported by the animal owner, two young canines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route, to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for fleas. The animal owner reports that they have got two young dogs that are having a bad time with fleas. After asking family and friends what they used on their pets, they recommended FRONTLINE treatment for dogs. The animal owner states that they have used the product for several months now,

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						ok?: Unknown to Company					and the fleas just run through where the chemical is, and don't seem to die or anything. The animals skin has now become very sensitive and the animal owner does not know what to do. Start date added for submission purposes only.
04-Dec-2018	UAE; 18UK003013; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 18.00 Month(s) **Weight:** 4.8 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Oct-2018	11-Oct-2018	1 day	D-C	On 10 Oct 2018 a 4.8 kg 18 month old male cat had Frontline Plus Spot-on Cat applied. On 11 Oct there was excoriation of skin, total loss of hair, increased itching, subsequent infection. Most severe in male cat. No information on outcome . See linked case from same reporter. UK-VMD-8485/18.
04-Dec-2018	UAE; 18UK003014; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Oct-2018	11-Oct-2018	1 day	D-D	On 10 Oct 2018 a 5 kg 18 month old female cat had Frontline Plus Spot-on Cat applied. On 11 Oct there was mild excoriation of skin with open wounds. No information on outcome . See linked case from same reporter. UK-VMD-8484/18.
03-Dec-2018	UAE; 18UK003015; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	03-Dec-2018*	3 Week(s)	D-D	As reported by the animal owner, a dog, of unknown breed, age, weight and reproductive status, was given FRONTLINE PLUS (assumed to be FRONTLINE PLUS SPOT ON DOGS M) batch number and expiry date unknown, administered on approximately 12 NOV 2018 by an unknown person, route and frequency unknown. On 03 DEC 2018 the owner reported that it had not worked. The owner took the dog to the vet who confirmed the dog has fleas. No further information was provided.
02-Dec-2018	UAE; 18UK003018; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the**	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, three canines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they bought FRONTLINE PLUS and they can still see live fleas on their animal. The have used spray in the home as well as treated three dogs at the same time. Start date added for submission purposes only.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Unknown to Company					
01-Dec-2018	UAE; 18UK003023; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, a female feline of unknown age, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch and expiry unknown) topically to the neck and back by the animal owner at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they picked up a dose of FRONTLINE from their local vet and was told to simply apply it to their animal. They rubbed it in on areas that they had seen the most fleas, namely on the neck and back. Later they found that everything that they did was incorrect. The animal owner reports that they don't think that the animal can lick it off, and the animal is meowing and scratching like crazy so they are under the impression that it is working. The animal owner also reports that the animal looks and sounds like she is in a lot of discomfort with the itching. Start date added for submission purposes only.
05-Dec-2018	UAE; 18UK003029; West Midlands; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12.4 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	N/A	04-Dec-2018	0 Day(s)	D-D	As reported by the attending veterinary surgeon, Ruby, an 8 year old female neutered Springer Spaniel cross Cocker spaniel canine, weighing 12.4 kg and in unknown condition, was administered FRONTLINE SPOT ON DOG M (batch and expiry unknown) orally by the animal owner at a dose of 1 dosage form on 04 DEC 2018 as a flea and tick treatment. The attending vet reports that the animal was given FRONTLINE SPOT ON in it's food last night. The animal was sick overnight and this morning (05 DEC 2018), there are no other signs. The animal owner had gone to work at the time of reporting and had booked an appointment for the afternoon. No treatment was administered.
06-Dec-2018	UAE; 18UK003036; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Dec-2018*	N/A	D-D	As reported by the attending vet, Otto and Theo, both canines of unknown age, weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG M (batch number S20221AL expiry date JAN 2021) on 02 NOV 2018 topically to the back of the neck at a dose of one dosage form per animal by the animal owner for parasite control. The animal owner reports that the product has always worked but not recently. The product has been applied on 02 NOV 2018 and 02 OCT 2018 but the animal owner is still seeing fleas. The animal owner has been using a flea comb to comb the fleas out of their coats. This is the first time the animal owner has seen fleas. Before 02 OCT 2018 there was a gap in using FRONTLINE (dates unknown). People in the home are not being bitten. The animal owner has not used a home spray but they have washed bedding and vacuumed. They have also found eggs on the dog's beds and got rid of the eggs so there aren't any more in the house. Start date for submission purposes only.
06-Dec-2018	UAE; 18UK003039; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FRONTLINE PETCARE HOME AND	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG M, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date for fleas. The animal owner reports that they purchased FRONTLINE SPOT ON and FRONTLINE HOMEGARD (FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** Unknown to Company					SPRAY, batch and expiry unknown), both of which have proved to be absolutely useless. They did not kill fleas on the animal nor in the home. The animal owner is three weeks in after using these products and still they had fleas. The animal owner now purchased a flea spray that has worked, and a trip to the vets for further help. The animal owner states that the products should not be sold as a flea prevention any more, years ago maybe but not anymore. The animal owner is not at all satisfied that their animal and their home suffered for a longer period than was needed, because of a poor product that is not fit for purpose. Start date estimated for submission purposes only.
08-Dec-2018	UAE; 18UK003056; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** X **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	09-Sep-2018	01-Dec-2018*	N/A	D-D	As reported by the animal owner, approximately 2 felines of unknown age, weight, breed, sex, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on 04 DEC 2018 via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that the cats are regularly dosed every 4 weeks as recommended, but unfortunately on this occasion (date unknown) they have seen fleas on one of their cats. Start date for submission purposes only. UPDATE 29 DEC 2018: Stella, a 12.5 year old female weighing 3.5 kg, and Artois, a 12.5 year old male weighing 3.0 kg, are felines of unknown breed and reproductive status. The animals were treated with FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) topically to the back of the neck, on 09 SEP 2018, 12 OCT 2018, 10 NOV 2018 and 08 DEC 2018. The animal owner reports that people in the home are being bitten, that the animals spend time indoors and outdoors, that all animals living in the house and in contact animals are treated, that they see occasional fleas - less than 5 at the same time, that the animals are never bathed or go swimming and that they have regularly treated the home with an environmental flea treatment and regularly vaccumed all the areas that the pets can access. The animal owner reports that they use the product all year round and that they upgraded to FRONTLINE 2 years ago in the Summer. The animal owner reports that they first noticed fleas on their animal straight after applying the product on 08 DEC 2018 and that they hadn't noticed them before this. However they have been seeing them most days since.
10-Dec-2018	UAE; 18UK003063; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, a female feline born on 01 DEC 2015 and of unknown weight, breed, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) on 02 DEC 2018 topically to the back of the neck at an unknown dose by the animal owner for parasite control. The animal owner reports that they moved into a property in 2012 (presumed product was used on a different cat due to date of birth of cat in this case) that had been empty for some years, but they soon discovered there was a flea infestation. The animal owner uses FRONTLINE PLUS on their cat regularly (monthly) and used household products (exact product unknown) they were unable to combat the problem. In July this year (estimated 01 JUL 2018) the animals owners moved house again and were still regularly (monthly) using FRONTLINE PLUS on the cat, however she is now shedding flea eggs everywhere she walks. They are often on the surfaces of furniture and window sills because the cat will not walk on the floor. The animal owners are having to vacuum every day and sometimes twice a day. Over the

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											last few weeks the animal owner has even taken to hoovering the cat every morning and there are still flea eggs coming off her . The animal owner reports that the last four dates they applied FRONTLINE PLUS were 02 DEC 2018, 05 NOV 2018, 09 OCT 2018 and 18 SEP 2018. People in the home are being bitten by fleas, the cat spends time indoors and outdoors, the animal owner hasn't see fleas on the cat apart from one that they hoovered off the cat this morning (11 DEC 2018), the animal owner sees eggs that are dropping off the cat on to the furniture , the cat sheds eggs everywhere she walks, all pets in the house and all in contact animals have been treated with a flea product, the cat never gets bated or goes swimming, the animal owners have lived in the home for less than one year, the cat's bedding is washed at over 60 degrees Celsius and all areas the
10-Dec-2018	UAE; 18UK003064; -; United Kingdom	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Unknown **Age:** 18.00 Month(s) **Weight:** 30 kg	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, Barley a male Labrador canine weighing 30 kg and aged 18 months, of unknown reproductive status and in unknown condition, was given FRONTLINE SPOT ON DOG L (batch number S20410AR and expiry date FEB 2021) on 23 NOV 2018 topically to the back of the neck at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they used the product as the dog appeared to have fleas. They also bought the home spray (FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY, batch number 3341-500A and expiry date AUG 2020) to treat the carpeted areas the dog frequents. The animal owner reports that unfortunately the dog is still full of fleas. The animal owner reports that they treat the dog with a flea product when they see fleas and report that the dog swims in the sea or river nearly every day so normally he doesn't need treating. The animal owner states that they noticed fleas on their pet just over 2 weeks ago (estimated 28 NOV 2018) and this is also when they started using FRONTLINE. FRONTLINE HOMEGARD was used on the house four days after the product was applied (27 NOV 2018). The product is emptied on to the back of the neck as directed and the areas of the house the dog has access to are sprayed with HOMEGARD. People in the home are not being bitten by fleas, the dog spends time indoors and outdoors, all pets in the household and in-contact animals have been treated with a flea product, many fleas are being seen at one time, the dog goes swimming more than once week but this is not within 2 days of the product being applied, the animal owners have not lived in the home for less than one year, the home has been treated with an environmental flea spray, the pet's bedding has been washed at over 60 degrees Celsius and all areas the pet can access are regularly vacuumed. Start date for submission purposes only.
11-Dec-2018	UAE; 18UK003068; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Nov-2018*	01-Nov-2018*	N/A	D-D	As reported by the animal's owner, a female cat, of unknown breed, age, weight, reproductive status and health status was treated with FRONTLINE PLUS SPOT ON CATS (batch number: P41004AW and expiry date: 30 SEP 2019) applied to the cat's skin by the cat's owner, in the beginning of November (date estimated as 01 NOV 2018) as the cat had fleas. The owner reported that the cat had been constantly scratching during the month following the treatment. The owner had also treated the furniture and bedding. As soon as the 4 weeks were up the owner applied the next pipette (date estimated as 29 NOV 2018), however the cat continued to scratch and on the morning of the 11 DEC 2018 the owner had seen live fleas on the chair. The owner thought that the product

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						product used ok?: Unknown to Company					was either becoming less effective, or they had seen a television article recently investigating fake products and wondered whether theirs could be one of those. No further information was supplied. UPDATE 04 JAN 2019: QA results received. Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# P41004AW, expiry 2019-09-30. Case investigated by France - Toulouse. Final complaint evaluation A product quality complaint for FRONTLINE SPOT ON CAT batch P41004W was received by BIAH QA on 11th December 2018. The complaint description is "lack of efficacy". This is the first complaint regarding this defect for this batch. The retention sample is conforming but will not respond to a lack of efficacy. Batch record investigation Bulk batch: P410. Manufacturing date: 05/09/2016. Expiry date: NA. Manufacturing quantity: 1000 liters. No deviation is associated to this batch and this batch was not concerned by any change control. One observation is not associated to this defect. The results of QC testing are conform at specifications. All parameters verified during manufacturing of this batch of bulk are conform. Batch record investigation Filling batch: P41004. Manufacturing date: 22/09/18- Expiry date: 09/2019 -
10-Dec-2018	UAE; 18UK003070; Nottinghamshire; United Kingdom	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Sep-2018	25-Sep-2018	8 Day(s)	D-D	As reported by the animal owner, two canines, a Jack Russell Terrier and a Miniature Poodle, both of unknown age, weight, sex, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON DOGS S (batch number S60812AL expiry date MAR 2021) on 20 NOV 2018 topically at an unknown dose to an unknown site by the animal owner as a parasiticide. The animal owner reports that they have used other products in the past (exact products unknown) to eradicate or prevent fleas, with success. Having used FRONTLINE PLUS, both their dogs still have fleas as of 28 NOV 2018. They have been advised to take the dogs to their vet next week (estimated 05 DEC 2018) if they still have fleas. Both of the dogs have been scratching continuously since the first application on 25 SEP 2018.
11-Dec-2018	UAE; 18UK003077; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018*	0 Day(s)	D-D	As reported by the animal owner, a female feline of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE (assumed FRONTLINE SPOT ON CAT, batch number and expiry date unknown) on 10 DEC 2018 via an unknown route at an unknown dose by the animal owner for an unknown reason. The animal owner reports that their cat has been done with FRONTLINE but is still scratching badly.
13-Dec-2018	UAE; 18UK003114; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 14 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL SPOT ON DOG; **Route:** Topical /	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, Lady, a 3 year old female Lurcher canine, weighing 14 kg and in unknown condition, was administered FRONTLINE PLUS SPOT ON DOG L (batch R61517AR, expiry JUN 2020) topically to the back of the neck by the animal owner at a dose of 1 dosage form monthly from an unknown date, as a parasiticide. The animal owner reports that they have used the product every month and it has never worked for the animal. They started using the product for the current flea issue when the dog sitter wanted them (assumed fleas) all gone in Summer 2018. Fleas were first noticed on the animal in AUG 2018, and FRONTLINE PLUS SPOT ON DOG L was applied on 19 OCT

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						Cutaneous **Was the product used ok?:** Yes					2018 and 19 NOV 2018. People in the home are being bitten and the animal has access to the indoors, outdoors and goes to a dog walker/ doggy day care. The animal owner reports that they are seeing many fleas on the animal, more than 5 at the same time. The animal never gets bathed or goes swimming and the animal owner has lived in the house for longer than one year. The animal owner reports that they have used two lots of FRONTLINE PLUS on their dog, neither of which have worked. They do not know what to do now as the FRONTLINE did not work either. The animal owner also has two felines in the house, which are treated with FRONTLINE SPOT ON CAT but reports no issues with the cats. Start date estimated for submission purposes only.
14-Dec-2018	UAE; 18UK003118; -; United Kingdom	**Species:** Feline **Breed:** Feline Other **Sex:** M **Sex qualifier:** - **Age:** 3.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	11-Dec-2018*	N/A	D-D	As reported by the animal owner, Leo, born 31 AUG 2018 a male intact Toyger feline, of unknown weight and in good condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) topically by the animal owner to an unknown site, at a dose of 1 dosage form three days ago (estimated 11 DEC 2018) as a flea treatment. The animal owner reports that they used the product and they can still see adult fleas on the animal. Since then, they have found another 10 on the animal and that they have also used FRONTLINE HOMEGARD (FRONTLINE PET CARE HOUSEHOLD FLEA SPRAY). They ask why the product isn't working, and if they can apply olive oil to the animal to get rid of fleas and soothe the skin as the animal has dry skin and scabs due to the bites. The animal owner reports that they found adult fleas on the animal when they first got it and the previous owner said to give a flea shampoo and to comb the animal. The animal is now infested with fleas. The animal owner found 4 yesterday and another 6 today. The animal has not been treated previously, there are no other pets and no visiting pets and the animal spends time indoors only.
14-Dec-2018	UAE; 18UK003123; -; United Kingdom	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	10-Dec-2018*	N/A	D-D	As reported by the animal owner, two Chihuahua canines, of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON DOG (assumed FRONTLINE PLUS SPOT ON DOG S, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of 1 dosage form monthly on 03 DEC 2018 for an unknown indication. The animal owner reports that they treated both their Chihuahuas with FRONTLINE PLUS on 03 DEC 2018 as they do every month, but over the last few days they have noticed they have now got fleas.
17-Dec-2018	UAE; 18UK003130; -; United Kingdom	**Species:** Canine **Breed:** Canine Other **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 24 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Oct-2018	01-Oct-2018*	N/A	D-D	As reported by the animal owner, Muffin, a 7 year old female Australian Kelpie cross Staffordshire Terrier canine, weighing 24 kg and in unknown condition, was administered FRONTLINE PLUS SPOT ON DOG L (batch and expiry unknown) topically to the back of the neck, by the animal owner at a dose of one dosage form on 01 OCT 2018, 01 NOV 2018, 01 DEC 2018 and 16 DEC 2018 as a parasiticide. The animal owner reports that they have been a FRONTLINE user for over 6 years for their medium sized dog. The animal has never had any issues with fleas until the last 2 months, they have not missed any treatments throughout her six years with the animal owners and yet the animal has been covered in fleas over the last two months, with them living on the animal and

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						ok?: No (Treatment / vaccination program not respected)					spreading throughout the house. The animal owner's wife and daughters have been bitten constantly to the point where they have had to flea bomb the whole house twice. The animal owner reports that last night (16 DEC 2018) they found three live fleas on the animal. The animal owner has been flea combing the animal every day and gave the animal an extra treatment to again try and counteract the problem. The animal owner reports that the current flea issue started in SEP 2018, and they noticed fleas on the pet first in OCT 2018. The animal spends time indoors and outdoors, all animals in the household and in-contact animals have been treated, less than 5 fleas are being seen at the same time and the animal never gets bathed or goes swimming. The animal owner has also treated the home with an environmental flea treatment, washed the pet's bedding at over 60 degrees C and regularly vacuumed all areas that the animal can access. The animal owner reports that they have been picking live fleas off the animal for weeks now and they are gong to flea bomb the whole house again.
18-Dec-2018	UAE; 18UK003133; -; United Kingdom	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 4.9 kg	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Dec-2018	N/A	D-D	As reported by the animal owner, Sandy, a 5 year old male neutered Domestic Shorthair feline, weighing 4.9 kg and in poor condition, was administered FRONTLINE SPOT ON CAT (batch P20411AW, expiry MAR 2019) and FRONTLINE PLUS SPOT ON CAT (batch P40701AL, expiry APR 2019) topically to an unknown site, by the animal owner at an unknown dose on an unknown date as a parasiticide. The animal owner reports that the FRONTLINE has not worked, and that they have had to go to the vets to get another product, which has worked. The animal owner has treated the house with a spray and a flea spray (products unknown). People are not being bitten, but fleas were seen on their son, and the animal owner had to get a taxi to collect the son from school when five fleas were found on him. Lots of fleas, more than 5, are seen on the animal at one time and the animal has been in and out of the vets with a wound and so has not been going out. The animal owner treats the animal religiously every 4 weeks throughout the year. Today the animal owner has had to flea bomb the house and take the animal out of the house. The whole thing has caused considerable stress and expense. Start date added for submission purposes only.
18-Dec-2018	UAE; 18UK003139; Gloucestershire; United Kingdom	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Unknown **Age:** 7.00 Year(s) **Weight:** 16 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Sep-2018	18-Dec-2018*	20 Day(s)	D-D	As reported by an adviser, Lacey a female Cocker Spaniel dog aged 7 years, weighing 16 kg, of unknown reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON DOGS M (batch number and expiry date unknown) on 28 NOV 2018 topically to the back of the neck at an unknown dose by the owner and on 18 DEC 2018 the owner called the adviser to report that the FRONTLINE PLUS had no effect and was not fit for purpose. The owner reported that it had worked before, but recently has had no effect, the whole course was used, the home and bedding had also been treated, so that could not be the issue. The owner had not been bitten. The animal owner reports that they apply the product every four weeks and the last four dates they applied the product were 28 AUG 2018, 28 SEP 2018, 28 OCT 2018 and 28 NOV 2018. The animal owner states they started seeing fleas on their pet in September (estimated 01 SEP 2018) and that is also when they started using the product. They use the product all year round, people in the home are not being bitten, the dogs spend time indoors and outdoors, all animals in the home have been treated with a flea product, they are seeing many fleas (more than 5 at a time), the dogs get bathed or go swimming more

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											than once a week but this is not within 2 days of product application, the animal owners have not lived in the home for less than a year, the home has been treated with a flea spray, the pet bedding has been washed at over 60 degrees and all areas the pets can access are regularly vacuumed. Date of adverse event added for submission purposes only. Case linked to:18UK003140.
18-Dec-2018	UAE; 18UK003140; Gloucestershire; United Kingdom	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Sep-2018	18-Dec-2018*	20 Day(s)	D-D	As reported by an adviser, Patrick, a female Poodle canine aged 6 years, weighing 4 kg, of unknown reproductive status and unknown health status, was given FRONTLINE PLUS SPOT ON DOGS S (batch number and expiry date unknown) on 28 NOV 2018, applied topically to the back of the neck at an unknown dose by the owner and on 18 DEC 2018 the owner called the adviser to report that the FRONTLINE PLUS had no effect and was not fit for purpose. The owner reported that it had worked before, but recently has had no effect, the whole course was used, the home and bedding had also been treated, so that could not be the issue. The owner had not been bitten. The animal owner reports that they apply the product every four weeks and the last four dates they applied the product were 28 AUG 2018, 28 SEP 2018, 28 OCT 2018 and 28 NOV 2018. The animal owner states they started seeing fleas on their pet in September (estimated 01 SEP 2018) and that is also when they started using the product. They use the product all year round, people in the home are not being bitten, the dogs spend time indoors and outdoors, all animals in the home have been treated with a flea product, they are seeing many fleas (more than 5 at a time), the dogs get bathed or go swimming more than once a week but this is not within 2 days of product application, the animal owners have not lived in the home for less than a year, the home has been treated with a flea spray, the pet bedding has been washed at over 60 degrees and all areas the pets can access are regularly vacuumed. Date of adverse event added for submission purposes only. Case linked to:18UK003139.
18-Dec-2018	UAE; 18UK003148; -; United Kingdom	**Species:** Canine **Breed:** Siberian Husky **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON; **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, two Huskies of unknown age, sex, reproductive status, weight and condition, were administered FRONTLINE SPOT ON DOG L (batch and expiry unknown) via an unknown route to an unknown site, by an unknown administrator at an unknown dose, on an unknown date for an unknown indication. The animal owner reports that they recently purchased the products over the last two months for their two huskies. Last month they purchased the FRONTLINE SPOT ON for the correct weight of the animals and it did absolutely nothing. The animal owner reports reading up online that normal FRONTLINE is useless and clearly doesn't work. A couple of weeks ago the animal owner purchased FRONTLINE PLUS SPOT ON DOG L (batch and expiry unknown), which apparently works better than normal FRONTLINE - no it does not. The animal owner reports that the two animals are still covered in fleas and biting and scratching themselves to the point of being red raw and yelping in the process. The animal owner reports that they are frustrated as the animals are their world and they cannot afford to waste money on a product that does not work, and watching them chew and scratch themselves raw when they are now helpless to do anything about it. The animal owner reports that they now have to watch the animals suffer to another two weeks before they can spend more money on a different product as they can only be treated once a month. Start date added for submission purposes only.

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20-Dec-2018	UAE; 18UK003198; Cumbria; United Kingdom	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** - **Age:** 4.00 Month(s) **Weight:** 10 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Metacam meloxicam 5 mg/ml injection dog cat; Synulox; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Dec-2018	17-Dec-2018	1 Day(s)	D-B	As reported by the attending veterinary surgeon, Bud, a 4 month old male neutered Border Collie canine, weighing 10 kg and in good condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M, batch S60424AL, expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form on 16 DEC 2018 as an antiparasiticide. The attending vet reports that the client administered the product on Sunday night to the 4 month old Border Collie puppy. On Monday (17 DEC 2018) morning, 1 day following product administration, the animal was lethargic, dull and reluctant to eat or drink. The animal has also been weak on it's back legs with moderate-severe neck pain. The animal is pyrexic with a temperature of 40.7 degrees C. The attending vet saw the animal on 17 DEC 2018 and METACAM injection (assumed METACAM 5 MG/ML SOLUTION FOR INJECTION, batch and expiry unknown) was given at a dose of 0.4 ml (0.2 mg/kg) via SC injection. The animal was sent home and the animal owners were advised to monitor the animal. On Tuesday (18 DEC 2018) the animal had improved and was nearly back to it's normal self. On Wednesday (19 DEC 2018) the animal relapsed and was worse than Monday. The animal was off it's feet and unable to stand and had neck pain. The animal's temperature was still 40.7 degrees C and the animal still had a poor appetite. The animal was treated with METACAM injection (assumed METACAM 5 MG/ML SOLUTION FOR INJECTION, batch and expiry unknown) and Synulox injection. Bloods were sent to the laboratory. This morning, 20 DEC 2018 the animal owner updated the attending vet and reported that the animal was brighter at first and then flatter again. The animal's appetite did improve and then went again that evening.
22-Dec-2018	UAE; 18UK003205; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	22-Dec-2018	N/A	D-D	As reported by the animal owner, 2 cats of unknown breed, sex, age, weight, reproductive status and health status were treated with FRONTLINE SPOT ON CAT (batch number and expiry date unknown), route unknown, frequency unknown, administered by the cat's owner on 17 NOV 2018. On 22 DEC 2018 the owner reported that one of the cat's was still showing signs of a flea infestation and was it too soon to dose them again. No further information was supplied. Start date of adverse event added for submission purposes only.
28-Dec-2018	UAE; 18UK003212; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	N/A	14-Dec-2018*	0 Day(s)	D-D	As reported by the animal owner, approximately two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE (assumed FRONTLINE SPOT ON CAT) (Batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, two weeks ago (estimated 14 DEC 2018) for an unknown indication. The animal owner reports that they treated their cats with FRONTLINE and also washed their bedding and used a house spray, and that to their dismay they were very disappointed to find that their animals after several weeks still had some fleas.
30-Dec-2018	UAE; 18UK003218; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products**	N/A	01-Dec-2018*	N/A	D-D	As reported by the animal owner, a canine of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE (assumed FRONTLINE SPOT ON DOG S, batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at an unknown dose, on an unknown date, for an

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				**used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					unknown indication. The animal owner reports that the animal has been scratching terribly and the skin is very red and hot (photograph provided shows the application site so the clinical signs are coded as application site scratching, reddening and warmth). Start date added for submission purposes only.
29-Dec-2018	UAE; 18UK003219; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Overdose)	N/A	29-Nov-2018*	N/A	D-D	As reported by the animal owner, two felines of unknown age, sex, reproductive status, breed, weight and condition, were administered FRONTLINE PLUS SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by the animal owner at a dose of 4 units (4 dosage forms) in the last month, for parasite control. The animal owner reports that they were using FRONTLINE COMBO SPOT ON CAT from their local vets. They were informed that FRONTLINE PLUS SPOT ON CAT was the same product and so they purchased some online. The animal owner reports that they usually used the COMBO once every three months and it had been flawless for many years, but they have now used 4 units of the PLUS in just over a month, and they are still having the animals scratching a lot, which is very unusual for them. The animal owner reports that they are concerned after reading online that these are fake units, as it is strange for the animals to be scratching still 5 days after giving them another unit. Usually they hardly ever scratch and the animal owner normally would not need to reapply for several months as they are very clean pet and the house is clean too, with their beds cleaned often.
31-Dec-2018	UAE; 18UK003227; -; United Kingdom	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Unknown **Age:** 3.00 Year(s) **Weight:** 4 kg*	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Aug-2018	01-Sep-2018*	0 Day(s)	D-D	As reported by the animal owner, Smudge a female mixed breed feline aged 3 years, weighing approximately 4 kg, of unknown reproductive status and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number S20215 expiry date JAN 2021) on 06 OCT 2018 topically at an unknown dose by the animal owner for an unknown reason. The animal owner reports that they used FRONTLINE for several months on both the cat and their dog (see linked case 18UK003227) and followed the instructions carefully to the letter. The animal owner stopped using the product 3 months ago (assumed 06 OCT 2018) as it was completely ineffective and began using Advantage from the vet , which they find to be effective. The animal owner states that the product is useless and they were left with an infestation of fleas. The animal owner had both the animals checked by the vet because the product allowed them to become infested. The animal owner uses the product every four weeks and noticed a problem during the second use of the product (assumed 01 SEP 2018). The pets are treated all year round, and another flea product (product unknown) was used on 30 JUL 2018 before FRONTLINE administration started on 04 AUG 2018. The product was applied to the back of the neck, between the shoulder blades and in several locations. People in the home are not being bitten by fleas, the pets spend time indoors and outdoors, all animals in the house have been treated with a flea product, the animal owner is seeing fleas occasionally (less than 5 fleas at a time), the pets get bathed or goes swimming no more than once a week and this is not within two days of the product being applied, the animal owner has not lived in the home for less than a year, the home has been treated with an environmental flea treatment (product unknown), the pets' bedding is washed at over 60 degrees Celsius and all areas the pets can access are regularly vacuumed. On 07 JAN 2019 the

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											attending vet reported that the animal owner had decided to
31-Dec-2018	UAE; 18UK003229; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Dec-2018*	N/A	D-C	As reported by the animal owner, two felines, one male and one of unknown sex, both of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number S41002AW expiry date JUL 2021) on an unknown date, applied topically at an unknown dose and to an unknown site by the animal owner for parasite control. The animal owner reports that they believe that they have had a batch which was not effective, either the fleas are resistant or it was possibly a fake product. The animal owner has never had a problem before but this is the first time they bought the product online, having previously bought it from a high street store. The animal owner now has an infestation of fleas, and in 20 years they have never had a problem like this. The animal owner has no carpets or textile furniture in the house. Both cats have had to have a vet check, a prescription of Advocate, the elderly cat being lethargic has had to have a blood test, which showed up that he has anaemia, likely caused by the fleas. Both cats had two pipettes each (timescale unknown) and they noticed the younger cat started itching. For the past 10 days the older cat has been hardly moving and sleeping a lot. On checking and combing the cats, the elderly cat had several adult fleas and evidence of all developing stages. Start date for submission purposes only. UPDATE 18 JAN 2019: QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# S41002AW, expiry 2021-07-31. Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-18. A product quality complaint for FRONTLINE SPOT ON CAT batch S41002AW was received by BIAH QA on 04th January 2019. The complaint description is lack of efficacy and lethargic reaction . This is the first complaint for this defect regarding this batch.The retention sample is conform Batch record investigation: Bulk batch: S410 Manufacturing date: 14/08/2018- Expiry date: 07/2021
31-Dec-2018	UAE; 18UK003230; -; United Kingdom	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Advantage; Unspecified environmental flea spray; **Route:** unknown **Was the product used ok?:** Unknown to Company	11-Aug-2018*	03-Dec-2018*	N/A	D-D	As reported by the animal owner, a male canine of unknown age, weight, breed, reproductive status and in unknown condition, was given FRONTLINE PLUS SPOT ON DOG M (batch number and expiry date unknown) on the 11th of every month (assumed last application 11 DEC 2018) via an unknown route at an unknown dose by the animal owner for parasite control. The animal owner reports that they have been treating the dog for four months (assumed starting on 11 AUG 2018) and before that time they were using Advantage as they were given 3 months supply of this product from the dog's breeders (assumed Advantage started on 11 MAY 2018, ending on 11 JUL 2018). The dog has been treated monthly since it was 8 weeks old without missing a single dose. The animal owner has treated the house with a 12 month spray (product unknown), more than once in the last few months and regularly washes the pet bedding at 60 degrees. Over the past 3 or 4 weeks (estimated starting on 03 DEC 2018) the dog is visibly uncomfortable, scratching almost constantly and is covered with fleas. The fleas are dead but the animal owner does not think they should be seeing as many fleas as they are.
31-Dec-2018	UAE; 18UK003231;	**Species:** Canine **Breed:** Canine	1	1	0	**Product used:** FIPRONIL	30-Jun-2018*	19-Nov-2018*	N/A	D-D	As reported by the animal owner via social media, a canine, of unknown age, sex, reproductive status, breed, weight and

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	-; United Kingdom	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG M) (batch and expiry unknown) via an unknown route to an unknown route, by the animal owner for around six months (estimated to start 30 JUN 2018) for an unknown indication. The animal owner reports that they used the product as directed but that in the last six weeks or so they have been finding and been bitten by fleas. They report that this is not what they expected and ask why the product has stopped working.
31-Dec-2018	UAE; 18UK003232; -; United Kingdom	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	30-Jun-2018*	19-Nov-2018*	N/A	D-D	As reported by the animal owner via social media, two felines, of unknown age, sex, reproductive status, breed, weight and condition, was administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON CAT) (batch and expiry unknown) via an unknown route to an unknown route, by the animal owner for around six months (estimated to start 30 JUN 2018) for an unknown indication. The animal owner reports that they used the product as directed but that in the last six weeks or so they have been finding and been bitten by fleas. They report that this is not what they expected and ask why the product has stopped working.
07-Dec-2018	UAE; 18US058464; MO; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 47 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Advantage; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jul-2018	08-Jul-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 7 Dec 2018, the owner reported the following event for Good Girl, a 3 year old, 47 pound, spayed female Pit Bull. *5 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R60115) was applied to the dog for the first time. *8 Jul 2018: The dog had fleas and started to chew, gnaw, bite, and she developed a hot spot on leg. The owner gave the dog oatmeal baths until she could be seen by the vet. *29 Jul 2018: The dog was seen by the vet and given an unknown medication in the form of a pill. *4 Aug 2018: The dog recovered from her symptoms. The dog is typically treated with Advantage with no issues. No further medical information available.
01-Oct-2018	UAE; 18US064292; PA; U.S.A	**Species:** Feline **Breed:** Ocicat **Sex:** F **Sex qualifier:** - **Age:** 4.00 Month(s) **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Sep-2018	21-Sep-2018	1 Week(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Mocha, 4 month old, 4 pound, intact female, Ocicat Feline. 14 Sept 2018: One vial of FRONTLINE PLUS CATS (R41201AW) was applied between the shoulder blades. 21 Sept 2018: Fleas were seen on the pet. The cat experienced intense itching. The pet was not seen by a veterinarian or given any treatment. 2 Oct 2018: The symptoms are still ongoing. No further medical information is expected.
01-Oct-2018	UAE; 18US065475; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	28-Sep-2018	30-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Garfield, a 12 week old, intact male Domestic Shorthair (weight unknown). 28 Sept 2018: One vial of FRONTLINE PLUS CATS (S40301AX)

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		Sex: M **Sex qualifier:** - **Age:** 12.00 Week(s) **Weight:** Unknown				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					was applied per label to the cat for the first time. Within 24-48 hours, the cat was lethargic, started to walk funny, and not eat. The cat has not been seen by the vet and the owner is monitoring his condition as his walking is improving. There are three other cats who had the same reaction, see cases 18US066660, 18US066666, and 18US065475. No further medical information available.
01-Oct-2018	UAE; 18US065502; IN; U.S.A	**Species:** Canine **Breed:** Great Pyrenees **Sex:** F **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 58 lbs	4	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Oral Steroid; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Sep-2018	29-Sep-2018	18 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Haley, 4 year old, 58 pound, intact female, Great Pyrenees/Husky mix canine. 11 Sept 2018: One vial of FRONTLINE PLUS DOG (P62104AR) was applied between the shoulder blade. 29 Sept 2018: The dog's skin at the application site became hard and swollen. The pet was not presented to the clinic and no treatment was provided. The pet has a preexisting issue with Ataxia and is receiving an oral steroid. There are 3 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
01-Oct-2018	UAE; 18US065504; PA; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	02-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Cally, 6 year old, 22 pound, spayed female, Calico Feline. 1 Sept 2018: One vial of FRONTLINE PLUS CATS (R40101AW) was applied between the shoulder blades. Unknown date:Fleas were seen on the pet. The cat experienced itching and scabs throughout the body. The cat did not present to the clinic and no treatment was provided. 2 Oct 2018: The symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
01-Oct-2018	UAE; 18US065581; NJ; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018*	01-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, a pet owner reported the following event for a Bichon Frise and minature poodle mixed breed canine. The dog was treated with FRONTLINE PLUS (lot number unknown) (product unsubstantiated) on an unknown date. The dog developed redness on the hair coat at the application site of FRONTLINE. No further medical information expected.
01-Oct-2018	UAE; 18US065591; OH; U.S.A	**Species:** Canine **Breed:** Scottish Terrier **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	25-Sep-2015*	27-Sep-2018	2 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Palooza, a 5 year old, 42 pound, neutered male, Scottish Terrier. 2015*: The dog started on 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R62420BL) given to the dog topically between the shoulder

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		Neutered **Age:** 5.00 Year(s) **Weight:** 42 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					blades, by the owner. The dog was treated monthly on a seasonal basis from Sep-Dec. 25 Sep 2018: The dog received the first dose of the product for this season. 27 Sep 2018: The dog was itching and losing fur only near the tail and hips. The owner did not see any flea activity or ticks. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The dog had the same symptoms once before about 2 years ago. No further medical information expected.
01-Oct-2018	UAE; 18US065675; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2017*	12-Sep-2018*	11 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018 the pet owner reported the following event for CeCe, 2 year old, spayed female feline. All other signalments unknown. 1 Sep 2018: 1 vial of FRONTLINE PLUS CATS (R41201AW) was applied between the shoulder blades. *12 Sep 2018: The experienced hair loss at the application site. Pet did not present to the clinic. Symptoms are ongoing. The cat experienced simalar symptoms prior after the use of the product that were also reported (case number 18US042554). No further information is known.
01-Oct-2018	UAE; 18US065778; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Capstar; EZ Defense spray; Wonderside Natural; Cortisone Injection; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Aug-2018	28-Sep-2018*	2 Week(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Fats, a 12 year old, 10 pound, spayed female, Domestic Shorthair (Crossbreed). 23 Aug 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (R41118AW) given to the cat topically, between the shoulder blades, by the veterinarian. The cat had fleas prior to the application. 26 Aug 2018: The cat was treated with Capstar. 30 Aug 2018: The cat received a Cortisone Injection. 14 Sep 2018: The cat received another dose of FRONTLINE PLUS. 17 Sep 2018*: The cat started on EZ Defense spray. The cat was treated every day. 20 Sep 2018*: The cat received the last dose of the EZ Defense spray. 21 Sep 2018*: The cat started on Wonderside Natural. 28 Sep 2018*: The cat received the last dose of Wonderside Natural. The cat started having dry/flaky skin all over the body, the fur became wiry and started falling out everywhere. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
01-Oct-2018	UAE; 18US065834; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	30-Apr-2018*	01-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for a 12 pound Feline (all other signalments unknown). 30 Sept 2018: One vial of FRONTLINE PLUS CATS (P41104AW) was applied between the shoulder blades. Unknown date: The cat experienced intense itching which caused the pet to bleed. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. The pet has received the product monthly since 30 Apr 2018*. It is unknown if symptoms presented prior. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					
09-Oct-2018	UAE; 18US065903; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 31 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	12-Sep-2018	01-Oct-2018*	19 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for a 31 pound canine (all other signalments unknown). 12 Sep 2018: The dog started on an unknown amount of FRONTLINE PLUS DOG 23-44 LBS given to the dog topically (unknown site of application), by the owner. On an unknown date after the application, the dog was licking its paws. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog's current status is unknown. No further medical information expected.
04-Oct-2018	UAE; 18US065971; WV; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Apr-2018	01-Oct-2018	11 Day(s)	D-D	Suspected Adverse Event: On 2 Oct 2018, the owner reported the following event for Ika, 8 year old, 8 pound, spayed female, Domestic Longhair feline. 20 Sept 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 1 Oct 2018: The cat experienced itching. The pet was not presented to the clinic and no treatment was provided. 5 Oct 2018: Symptoms are still ongoing. The cat has used the product monthly since 20 Apr 2018 and no symptoms presented. No further medical information is expected.
02-Oct-2018	UAE; 18US066115; WI; U.S.A	**Species:** Canine **Breed:** Shepherd Dog (Others) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION; AFOXOLANER 28.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low	01-Jun-2015*	01-Oct-2018	9 Month(s)	D-C	Suspected Lack of Efficacy Claim: On 2 Oct 2018, an office manager reported the following event for Callie, a 3 year old (born on 3 Apr 2015), approximately 24 pound, spayed female Shepherd mix. Jun 2015*: The dog received one full pipette of FRONTLINE PLUS DOG 5-22 LBS (lot number and expiration date unknown) applied topically, between the shoulder blades, by the pet owner. Jul 2015-Feb 2016: The dog received one full chew of NEXGARD (28.3 MG) (lot number and expiration date unknown), orally, by the pet owner, on a monthly basis. Mar 2016-Jan 2018*: The dog received FRONTLINE PLUS DOG 5-22 LBS on a monthly basis. 22 Oct 2016: The dog was vaccinated with 1 ml of RECOMBITEK LYME (42211, 19 Nov 2017), SC, in the left hind leg, by either a veterinarian or veterinary technician. 18 Nov 2016: The dog was vaccinated with 1 ml of RECOMBITEK LYME (42209, 24 Aug 2017), SC, in the left hind leg, by either a veterinarian or veterinary technician. 25 Aug 2017: The dog tested negative for Lyme disease via a 4Dx test. 29 Nov 2017: The dog was vaccinated with 1 ml of RECOMBITEK LYME (42216, 3 Oct 2018), SC, in the left hind leg, by either a veterinarian or veterinary technician. Feb 2018*: The dog started to receive one full pipette of FRONTLINE GOLD DOG 23-44 LBS (lot number unknown) applied topically, between the shoulder blades, on a monthly basis. 1 Oct 2018: The dog tested positive for Lyme disease via a routine

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						dose)					4Dx test. A 30 day course of doxycycline was dispensed. UPDATE 5 Oct 2018: A Lyme Quant C6 Antibody test was run on 4 Oct 2018 and the result was 33 U/mL. No further medical information expected.
03-Oct-2018	UAE; 18US066291; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs*	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	28-Sep-2018	02-Oct-2018	0 Day(s)	D-A	Suspected Adverse Event: On 2 Oct 2018, the owner reported the following event for a 10 pound cat (signalment unknown). 28 September 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat. 2 Oct 2018: Another application was given. Following the dose the cat went into respiratory arrest and had to be euthanized. The owner did bomb the home for fleas. The owner declined the report. There is one other treated cat in the home where no symptoms were noted. No further medical information available.
02-Oct-2018	UAE; 18US066302; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	01-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event:On 2 Oct 2018, the owner reported the following event for the unknown Feline, 10 year old, 12 pound, spayed, female Domestic Shorthair Crossbreed. 1 Jun 2018*: One vial of the FRONTLINE PLUS CATS (P40203BW) was applied topically between the shoulder blades. The pet had symptoms within 24 hrs of lethargy and anorexia. The pet was not presented to a clinic. 1 Jul 2018*: The pet's symptoms recovered after about a month. The other feline in the home also exhibited symptoms see associated case 18US066324.No further medical information is expected.
02-Oct-2018	UAE; 18US066308; WA; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 24.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK C4 - 13D1.R1; Bronchi-Shield Oral Bordetella; DELMOPINOL 35 MG ORAL CHEWABLE TABLET; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Sep-2018*	07-Sep-2018*	6 Day(s)	D-C	Suspected Adverse Event: On 2 Oct 2018, the veterinary technician reported the following event for Ruby, a 7 year old (born 8 Jun 2011), 24.5 pound, spayed female, Labrador Retriever/Miniature Poodle mix. Unknown date: The patient began receiving unknown FRONTLINE PLUS (lot unknown) (product unsubstantiated). The volume, route, location, and frequency of subsequent administration are unknown. Oct 2017 (unknown date): She began receiving one chew of ORAVET DENTAL HYGIENE CHEWS M (lot and expiration unknown), PO. The frequency of subsequent administration is unknown. 7 Sep 2018*: Ruby vomited once. 14 Sep 2018: Ruby was vaccinated by the veterinarian with RECOMBITEK C4 (45565BUNKNOWN, 19 Oct 2019), 1 mL, SC, in the right front leg, and Bronchi-Shield Oral Bordetella, PO. Blood was also pulled from the right front leg for a heartworm test. At the time of vaccination, she was obese with mild allergic dermatitis, abdominal alopecia, erythema, and hyperpigmentation, but was otherwise well. Trazodone was also dispensed for anxiety during car rides, but a dose was not administered. 15 Sep 2018: The canine returned to the veterinarian following onset of pyrexia (103.5 F), lethargy, pain and limping on the right front leg (Grade 2/4), and loose stool. She was normotensive upon presentation; however, she was slightly tachycardic and tachypneic. Her CRT was 3 seconds and she also presented with a

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											soft 1 cm, slightly fluctuant area of edema and pain over lateral aspect of right thoracic lumb, over the biceps were RECOMBITEK C4 was administered. and supportive care consisted of tramadol, LRS (SC), diphenhydramine, Ostilox, and Royal Canin GI Low Fat (diet). 17 Sep 2018: Ruby recovered. It's unknown if she's previously received RECOMBITEK C4. No further medical information expected.
02-Oct-2018	UAE; 18US066324; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018*	01-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 2 Oct 2018, the owner reported the following event for the unknown Feline, 12 year old, 8 pound, spayed, female Domestic Shorthair Crossbreed. 1 Jun 2018*: One vial of the FRONTLINE PLUS CATS (P40203BW) was applied topically between the shoulder blades. The pet had symptoms within 24 hours of lethargy and anorexia. The pet was not presented to a clinic. 1 Jul 2018*: The pet recovered. The other feline in the home also exhibited symptoms see associated case 18US066302. No further medical information is expected.
02-Oct-2018	UAE; 18US066337; VA; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Sep-2012*	30-Sep-2018	3 Day(s)	D-D	Suspected Adverse Event: On 2 Oct 2018, the owner reported the following event for Panzer, a 13 year old, 13 pound, neutered male, Dachshund (Miniature). 2012*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61418) given to the dog topically between the shoulder blades, by the owner. The dog was only treated as needed. 27 Sep 2018: The dog received another dose of the product. The dog had fleas prior to the first dose. 30 Sep 2018: The dog started losing fur at the application site. The skin was red and had huge blisters. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
02-Oct-2018	UAE; 18US066428; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Sep-2018*	01-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 2 Oct 2018 the pet owner reported the following event via social media for an unknown number of canines of unknown signalment. UNKNOWN DATE: An unknown FRONTLINE brand product (lot unknown) (product unsubstantiated) was applied topically and burned the dogs skin. It is unknown if the dogs presented to a clinic for treatment or if the condition ever resolved. No further information is expected.
03-Oct-2018	UAE; 18US066492; NC; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	N/A	02-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 3 Oct 2018, the owner reported the following event for Pandy, 7 year old, 25 pound, neutered male, Feline (all other signalments unknown). 2 Oct 2018: One vial of FRONTLINE PLUS CATS (S40410AW) was applied between the shoulder blades. The pet experienced panting. The cat was not seen by a veterinarian or given any treatment.

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		Weight: 25 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					3 Oct 2018: The symptoms are still ongoing. The cat received the product on a prior unknown date and no symptoms presented.There are 2 other cats in the household that did not receive the product and are asymptomatic. No further medical information is expected.
03-Oct-2018	UAE; 18US066575; IL; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** - **Age:** 13.00 Year(s) **Weight:** 70 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-May-2018*	11-Sep-2018*	0 Day(s)	D-A	Suspected Adverse Event: On 3 Oct 2018, the pet owner reported the following event for King, a 13 year old, approximately 70 pound, intact male, Rottweiler/Labrador Retriever Mix. 31 May 2018*: Dog began received treatment with FRONTLINE PLUS. 11 Sep 2018: Dog received most recent application of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) (FL) topically between the shoulder blades. Following application pet owner stated that it appeared the fleas were attracted to the dog. 23 Sep 2018: Due to the ongoing fleas issue in the home and on the dog, the dog was left outside overnight. 24 Sep 2018: The pet owner found the dog dead and covered with fleas. The general health of the dog was unknown. The pet owner reported that the dog has been hoarse this year and as a result could not bark loudly, had lockjaw at an unknown time in 2013 and was taking an unknown antibiotic for an ongoing sore on his foot. The veterinary clinic was not contacted. No further medication information expected.
01-Oct-2018	UAE; 18US066660; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 12.00 Week(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Sep-2018	01-Oct-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Bandit, a 12 week old, intact male Domestic Shorthair (weight unknown). 28 Aug 2018: One vial of FRONTLINE PLUS CATS (S40301AX) was applied per label to the cat for the first time. *1 Oct 2018: The cat was lethargic, started to walk funny, and not eat. The cat has not been seen by the vet and the owner is monitoring his condition as his walking is improving. There are three other cats who had the same reaction, see cases 18US065475, 18US066672, and 18US066666. No further medical information available.
01-Oct-2018	UAE; 18US066666; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 12.00 Year(s) **Weight:** Unknown	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Sep-2018	30-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Simba, a 12 week old, intact male Domestic Shorthair (weight unknown). 28 Sept 2018: One vial of FRONTLINE PLUS CATS (S40301AX) was applied per label to the cat for the first time. Within 24-48 hours, the cat was lethargic, started to walk funny, and not eat. The cat has not been seen by the vet and the owner is monitoring his condition as his walking is improving. There are three other cats who had the same reaction, see cases 18US065475, 18US06660, and 18US065475.. No further medical information available.
01-Oct-2018	UAE; 18US066672; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	28-Sep-2018	02-Oct-2018	4 Day(s)	D-D	Suspected Adverse Event: On 1 Oct 2018, the owner reported the following event for Slyvester, a 12 week old, intact male Domestic Shorthair (weight unknown). 28 Sept 2018: One vial of FRONTLINE PLUS CATS (S40301AX)

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		Sex: M **Sex qualifier:** - **Age:** 12.00 Week(s) **Weight:** Unknown				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					was applied per label to the cat for the first time. 2 Oct 2018: The cat was lethargic, started to walk funny, and not eat. The cat has not been seen by the vet and the owner is monitoring his condition as his walking is improving. There are three other cats who had the same reaction. See case 18US066666, 18US065475, and 18US066660. No further medical information available.
03-Oct-2018	UAE; 18US066723; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 3 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Sep-2012*	03-Oct-2018*	4 Day(s)	D-A	Suspected Adverse Event: On 3 Oct 2018, the owner reported the following event for an 8 pound, feline (all other signalments unknown). Sep 2017*: The cat started on an unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. The cat was treated year round (frequency of administration is unknown). The owner was seeing fleas prior to using the product. 29 Sep 2018: The cat was given another dose of the product. 1 Oct 2018: The owner started seeing fleas. 3 Oct 2018: The cat was euthanized because of the fleas. It is unknown if the cat was seen by a veterinarian or given any treatment. There was another cat treated with a different product. The owner was not seeing fleas in the home. The cats are strictly indoor. No further medical information expected. UPDATE 9 Oct 2018: The owner reported the following for Alluna, a 16 year old, spayed female, Domestic Shorthair (Crossbreed). 2012*: The cat started on 1 dose of the product given to the cat topically between the shoulder blades. The cat was treated monthly. The cat was seen by a veterinarian but was not given any treatment. No further medical information expected. UPDATE 10 Oct 2018: Per veterinarian, the pet was presented by an unkempt pet owner to the clinic for the first time on 3 Oct 2018 laterally recumbent, emaciated, pale/anemic, weighing 3 pounds, and infested with fleas. The veterinarian stated that she found the pet owner's use of FRONTLINE PLUS CATS questionable, and suspected that the pet owner's house was also infested with fleas. The veterinarian also suspected that the pet had underlying disease other than a flea infestation. The veterinarian had a low level of suspicion that the pet's condition was due to a lack of efficacy of FRONTLINE PLUS CATS. No further medical information expected.
04-Oct-2018	UAE; 18US066830; MO; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown oral medication; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018	02-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 4 Oct 2018, the owner reported the following event for an 11 pound dog (signalment unknown). 2 Oct 2018: One vial of FRONTLINE PLUS (lot unknown) (product unsubstantiated) (FL) was applied to the dog. On an unknown date the dog vomited. The dog was switched to FL from an unknown oral due to him vomiting. The owner declined the report. No further medical information available.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
04-Oct-2018	UAE; 18US066951; PA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 5 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Vet's Best Flea and Tick Spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Sep-2018	30-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 4 Oct 2018 the pet owner reported the following event for Walker, 1 year old, 5 pound, spayed female, Domestic Longhair. 30 Sep 2018: 1 vial of FRONTLINE PLUS CATS (S40301AL) was applied between the shoulder blades and Vet's Best Flea and Tick spray. The cat experienced unusual behavior and was hiding from the pet owner. 1 Oct 2018: The cat recovered. The cat did not present to the clinic and no treatment was given. Another cat in the home received an application of FRONTLINE and did not experience symptoms. No further medical information expected.
04-Oct-2018	UAE; 18US067027; PA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** - **Age:** 7.00 Year(s) **Weight:** 6 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Oct-2018*	04-Oct-2018	2 Day(s)	D-B	Suspected Adverse Event: On 4 Oct 2018, the owner reported the following event for Bruiser, a 7 year old, 6 pound, intact male Chihuahua. 2 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60302AL) (FL) was applied per label to the dog. 4 Oct 2018: The dog vomited, then fell over and had a seizure. The reporter is unsure if the dog has had FL before. There is one other treated dog in the home who did not have a reaction. No further medical information available. Update 07 Nov 2018: After further review, the Expected? field on the assessment screen was selected No.
04-Oct-2018	UAE; 18US067101; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	03-Oct-2018*	03-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 4 Oct 2018, the owner reported the following event for a canine (all signalments unknown). 3 Oct 2018*: An unknown amount of FRONTLINE (lot unknown, product unsubstantiated) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. On an unknown date after the application, the dog started itching all over. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
05-Oct-2018	UAE; 18US067178; CA; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 11.8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Simparica; **Route:** Topical / Cutaneous **Was the product used**	01-Sep-2018*	03-Oct-2018	2 Day(s)	D-B	Suspected Adverse Event: On 5 Oct 2018, a veterinarian reported the following event for Madison, a 7 year old *born 7 Jul 2010), 11.8 pound, spayed female, Terrier mix. Unknown Date: The dog was on Simparica and had seizures on unknown dates. The owners discontinued and switched to FRONTLINE PLUS DOG 23-44 LBS (lot unknown). 2018: The dog has had 2 doses of FRONTLINE PLUS. 3 Oct 2018: The dog had a 10 minute long seizure per the pet owner. The dog did not present to the clinic for an exam or evaluation. No further information at this time.

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						ok?: No (Off label use / Indication)					
05-Oct-2018	UAE; 18US067272; NJ; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	05-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 5 Oct 2018, the owner reported the following event for Jingo, 10 year old, 100 pound, neutered male, Bernese Mountain dog. 4 Oct 2018: An unknown amount of FRONTLINE PLUS DOG 89-132 LBS (P60712AR) was applied topically at an unknown location. 5 Oct 2018: The pet inadvertently ingested the product. The pet experienced lethargy. The dog was not seen by a veterinarian or given any treatment. The symptoms are still ongoing. There is one other dog in the household that received the product and is asymptomatic. No further medical information is expected.
05-Oct-2018	UAE; 18US067285; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	01-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event:On 5 Oct 2018, the owner reported the following event for the canine Cody, a 12 pound, 5 year old, male neutered, Chihuahua. 1 Oct 2018: One vial of the FRONTLINE PLUS DOG 5-22 LBS (P62927AL) was applied topically between the shoulder blades. The pet had symptoms of extreme pruritus within hours of using the product. The pet was not presented to a clinic. The owner has used FRONTLINE PLUS DOG 5-22 LBS on the pet previously off and on starting from an unsubstantiated date.The pet did exhibit some itching with those doses as well. The Pet has reacted to Advantage topical as well. 5 Oct 2018: The pet's symptoms are ongoing. No further medical information is expected.
05-Oct-2018	UAE; 18US067298; PA; U.S.A	**Species:** Canine **Breed:** St. Bernard **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Oct-2018	04-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 5 Oct 2018, the owner reported the following event for a St. Bernard (signalment unknown). 4 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60302AL) was applied to the dog. Following the treatment on an unknown date, the dog's fur turned from black to green (site unknown). There is one other dog in the home who did not have any issues after treatment. No further medical information available.
15-Oct-2018	UAE; 18US067347; OH; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 42 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Sep-2018	05-Oct-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 15 Oct 2018 the pet owner reported the following event for Sadie, a 7 year old, 42 pound, spayed female Pit Bull. 1 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was given to the dog between the shoulder blades. *5 Oct 2018: The pet developed hair loss on hind legs and on ear about 4 days after applying FRONTLINE. The veterinarian was contacted, but the pet was not examined by the veterinarian. The pet was treated with Benadryl by the pet owner. The symptoms are ongoing. The pet owner noted observing fleas on the pet prior to using the FRONTLINE on an unknown date. The pet was treated with FRONTLINE on 1 Sep 2018 with no adverse

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						ok?: No (Overdose)					symptoms. There is one other dog in the home experiencing symptoms after using FRONTLINE(see case 18US069636), and 3 asymptomatic cats after using FRONTLINE. No further medical information expected.
08-Oct-2018	UAE; 18US067426; NC; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** U **Sex qualifier:** Unknown **Age:** 15.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	04-Oct-2018*	06-Oct-2018	2 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the owner, reported the following event for a 15 year old, Poodle (Miniature) (all other signalments unknown). 4 Oct 2018: An unknown amount of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first dose. 6 Oct 2018: The dog vomited. 7 Oct 2018: The dog was up all night barking and pacing. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog's current status is unknown. No further medical information expected.
08-Oct-2018	UAE; 18US067446; MA; U.S.A	**Species:** Feline **Breed:** Tonkinese **Sex:** F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 8.000 - 9.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Mar-2017	09-Sep-2018	1 Day(s)	D-C	Suspected Adverse Event:On 8 Oct 2018, the owner reported the following event for the canine Harmony, 8-9 pound*, 2.5 year old, female spayed, Tonkinese. 8 Sep 2018: One vial of the FRONTLINE PLUS CATS (R40801AW) was applied topically between the shoulder blades. 9 Sep 2018: The pet had symptoms of lethargy, muscle aches, and anorexia and the pet lost 10 oz. of weight. The pet was not presented to the clinic. The owner has used FRONTLINE PLUS CATS on the pet previously starting from 3 Mar 2017. The pet has had a previous reaction to REVOLUTION FOR CATS where the pet was lethargic as well. 1 Oct 2018: The pet's symptoms have stopped. No further medical information is expected.
08-Oct-2018	UAE; 18US067451; VT; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	07-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the pet owner reported the following event for Sparky, a 14 year old, 30 pound, neutered male Jack Russell terrier. 6 Oct 2018: Dog received one dose of FRONTLINE PLUS DOG 23-44 LBS (P61016AL) (FL) topically between the shoulder blades. 7 Oct 2018: Owner observed that the site of application was raised, orange and crusty. The dog has received applications in the past with no adverse symptoms. The veterinary clinic has been contacted. The dog is in good health outside of the symptoms noted. No further medical information expected.
08-Oct-2018	UAE; 18US067459; NC; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	19-Sep-2015*	06-Oct-2018	17 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the owner reported the following event for Baby, 3 year old, 10 pound, spayed female, Jack Russell Terrier canine. 19 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was applied between the shoulder blades. 6 Oct 2018: Fleas were found on the pet. The dog experienced itching and hotspots throughout the body. The pet did not present to the clinic and no treatment was provided. 8 Oct 2018: Symptoms are still ongoing. The pet has received the product monthly since 19 Sept 2015* and

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						Was the product used ok?: Yes					no symptoms presented. No further medical information is expected.
14-Nov-2018	UAE; 18US067480; PA; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Month(s) **Weight:** 19 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	26-Jan-2018*	27-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 14 Nov 2018, the owner reported the following event for Finn, 14 month old, 19 pound, neutered male, Poodle. 26 Oct 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (lot number unknown) was applied between the shoulder blades. 27 Oct 2018: The dog developed a skin irritation similar to a burn mark localized to site of application. A scab developed at the site of the skin irritation a couple of hours after the skin irritation was observed. 4 Nov 2018*: The pet began scratching primarily at the nape of his neck. 12 Nov 2018: The pet was examined by the veterinarian and no treatment was provided. 13 Nov 2018: Multiple scabs were observed by the pet owner in the neck area. The symptoms are ongoing. The pet was treated with FRONTLINE monthly for about 10 months with no previous adverse symptoms. The pet owner noted an ongoing issue with fleas for about 2 months prior to the October application of FRONTLINE. No further medical information expected.
08-Oct-2018	UAE; 18US067496; PA; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2018	03-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the owner reported the following event for Princess, a 3 year old, 7 pound, intact female Calico. *3 Aug 2018: The cat was itching and one vial of FRONTLINE PLUS CATS (lot unknown) was topically applied per label for the first time. Within a half hour the cat started vomiting and her itching increased excessively. A few weeks after the treatment the cat developed hard scabs all over her body, and the end of her tail there is no fur. She is itching, has hard scabs, and big holes around her neck. The owner is not sure if the cat has fleas or not, the cat was taken to the vet and given an unknown shot which offered relief for 2 weeks and then her symptoms returned. The vomiting subsided after 3 weeks. No further medical information available.
08-Oct-2018	UAE; 18US067581; TX; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** - **Age:** 7.00 Year(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Oct-2018*	06-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 6 Oct 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Jake, a 40 pound, 7 year old, intact male Cocker Spaniel cross. 5 Oct 2018: Dog received 1 application of FRONTLINE PLUS DOGS 23-44 lbs (lot and expiration unknown). 6 Oct 2018: Owner noted dog has fleas and is pruritic. It is unknown if the dog was pruritic prior to application. It is unknown if the dog has received the product before. The current status of the dog is unknown. The owner reported that her other dog was pruritic after FRONTLINE application also, 18US067668. No further medical information is expected. Update 19 Oct 2018: After further review the referenced associated case number was corrected.
08-Oct-2018	UAE; 18US067620; CT; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	06-Apr-2018*	06-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 8 Oct 2018 the following event was reported to Safety Call International (SCI) by the veterinarian for Mookie, a 1 year old (born *6 Oct 2017), 9.08 pound, neutered male Domestic Longhair.

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		Sex: M **Sex qualifier:** Neutered **Age:** 12.00 Month(s) **Weight:** 9.08 lbs				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					6 Apr 2018*: Started on FRONTLINE PLUS CATS once monthly 6 Oct 2018: The pet owner applied an unknown amount of FRONTLINE PLUS CATS (R40110AW), unknown route, unknown application site. Approximately 6 hours post application the cat became lethargic, anorexic, and immobile. The cat presented to the clinic with pyrexia (104.9 F) and tremors and was treated with IV fluids and bathed with an unknown substance. The pet owner reported the cat has an unknown history of tremors prior to the application of the product and that she has used other pipettes from the same box without symptoms. The current health status of the cat is unknown. The attending veterinarian suspects the symptoms are unrelated to the use of the product as the cat has had ticks recently and the symptoms are consistent with a tick bourne illness. No further information is known at this time.
08-Oct-2018	UAE; 18US067668; TX; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 43.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Oct-2018*	06-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 6 Oct 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Butch, a 43 pound, 4 year old, intact male mixed breed dog. 5 Oct 2018: Dog received 1 application of FRONTLINE PLUS DOGS 23-44 lbs (lot and expiration unknown). 6 Oct 2018: Owner noted dog has fleas and is pruritic. It is unknown if the dog was pruritic prior to application. It is unknown if the dog has received the product before. The current status of the dog is unknown. The owner also reported pruritus with her other dog after FRONTLINE application, 18US067581. No further medical information is expected.
08-Oct-2018	UAE; 18US067769; VA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Sep-2018	07-Oct-2018	17 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the owner reported the following event for Puff, a 10 year old, 10 pound, spayed female, Domestic Shorthair (Crossbreed). 20 Sep 2018: The cat started on 1 dose of FRONTLINE PLUS CATS (lot unknown) given to the cat topically, between the shoulder blades, by the owner. 7 Oct 2018: The cat became lethargic. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was another cat treated that did not have any symptoms. No further medical information expected.
08-Oct-2018	UAE; 18US067777; CA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** Yes	05-Oct-2018	05-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the owner reported the following event for Peachy, 3 year old, 70 pound, spayed female, Australian Shepherd. 5 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R60601BR) was applied between the shoulder blades. After 1 hour, the dog experienced lethargy. The dog did not present to the clinic and no treatment was provided. 6 Oct 2018: The dog recovered. There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.

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08-Oct-2018	UAE; 18US067810; WI; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 70 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	06-Oct-2018	06-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018 the pet owner reported the following event for Ruger, 8 year old, 70 pound, neutered male Labrador Retriever. 6 Oct 2018: 1 vial of FRONTLINE (product unsubstatiated) (lot unknown) was applied to the dog. Shortly after the application, the dog started drooling, whining, could not sleep and was pacing. The pet was given a bath with an unknown shampoo. The dog did not present to the clinic and symptoms are ongoing. No further medical information is expected.
09-Oct-2018	UAE; 18US067857; PA; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 122 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Sep-2018*	18-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 9 Oct 2018, the owner reported the following event for a 122 pound canine (all other signalments unknown). 17 Sept 2018: An unknown amount of FRONTLINE PLUS DOG 89-132 LBS (R60402CR) was applied topically at an unknown location. 18 Sept 2018: The dog experienced diarrhea. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. No further medical information is expected.
09-Oct-2018	UAE; 18US067921; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 44 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2015*	09-Oct-2018*	8 Day(s)	D-D	Suspected Adverse Event: On 9 Oct 2018, the owner reported the following event for a 44 pound dog (signalment unknown). On an unknown date, one vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (lot unknown) was topically applied to the dog. Following the treatment on an unknown date the dog developed diarrhea and increased itching .The dog has been on FL for the past 2-3 years. The owner declined the report. No further medical information available.
09-Oct-2018	UAE; 18US068084; MD; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 11.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018	09-Oct-2018	2 Day(s)	D-D	Suspected Adverse Event: On 9 Oct 2018, the owner reported the following event for the feline Miao Miao, an 11.6 pound, 3 year old, male neutered, Domestic Shorthair. 7 Oct 2018: One vial of the FRONTLINE PLUS CATS (Lot unknown) was applied topically between the shoulder blades. 9 Oct 2018: The pet had symptoms of lethargy and vomiting. The pet was presented to the clinic where the cat was not treated but monitored for the day. 9 Oct 2018: The pet's symptoms have stopped. No further medical information is expected. The owner has used FRONTLINE PLUS CATS on the pet previously from and unknown start date.

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04-Oct-2018	UAE; 18US068145; MA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2010*	04-Oct-2018*	3 Day(s)	D-B	Suspected Adverse Event: On 4 October 2018, the following was reported by the pet owner for Lucy, an 8 year old, Golden Retriever (weight unknown) 2010*: The pet began taking FRONTLINE PLUS DOG 45-88 (lot unknown, product unsubstantiated) and HEARTGARD PLUS (272MCG/227MG) (lot number and exp unknown, product unsubstantiated) monthly, beginning on an unknown date in approximately 2010. The pet is an indoor dog who only goes outside to urinate and defecate. 2018*: The pet was taken to the vet on an unknown date in 2018 and was diagnosed with Lyme disease and kidney failure. The pet owner reported that the pet was in 75 % kidney failure and has lost 20 pounds due to constant vomiting and diarrhea. It is unknown if the veterinarian has prescribed treatment to this pet and it is unknown if the pet had been vaccinated against Lyme disease at any time during her life. The pet owner reported that the dog only has 2 weeks to live. No other medical information is available.
09-Oct-2018	UAE; 18US068161; DE; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** - **Age:** 2.50 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	01-Oct-2018	05-Oct-2018	4 Day(s)	D-D	Suspected Adverse Event: On 9 Oct 2018, the owner reported the following event for Shadow, a 2.5 year, 85 pound, intact female Black Lab. 1 Oct 2018: One vial of FRONTLINE PLUS DOG 89-132 (M63905AR) was topically applied to the dog per label for the first time. 5 Oct 2018: The dog has open wounds on underneath of ears and tail and on her back, and underside of her hind legs and alopecia. The dog has not been seen by the vet and the owner is monitoring her ongoing condition. No further medical information available.
09-Oct-2018	UAE; 18US068176; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018	02-Sep-2018	N/A	D-D	Suspected Adverse Event: On 9 Oct 2018, the owner reported the following event for Zoey, 12 year old, 12 pound, spayed female, Domestic Shorthair feline. 1 Sept 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. 2 Sept 2018: The cat experienced unusual behavior, which included jumping up on all the furniture. The cat also experienced intense itching which cause bleeding throughout the body. The pet did not present to the clinic and no treatment was provided. 1 Oct 2018: Another vial was applied. Symptoms persisted. 9 Oct 2018: Symptoms are still ongoing. No further medical information is expected.
09-Oct-2018	UAE; 18US068204; PA; U.S.A	**Species:** Canine **Breed:** Greyhound **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Jan-2012*	09-Oct-2018	8 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 9 Oct 2018, the clinic reported the following event for a Greyhound with unknown signalment. 1 Jan 2012*: The dog started monthly on FRONTLINE PLUS DOG 45-88 LBS (Lot Unknown). 9 Oct 2018: The dog presented to clinic and was diagnosed with tapeworms via a fecal flotation. It is unknown if treatment was given. Per the owner, fleas were not

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						Route: unknown **Was the product used ok?:** Yes					seen on the dog. There is 1 other dog in the home that does share purchases. No further information at this time.
10-Oct-2018	UAE; 18US068250; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 10 Oct 2018 the pet owner reported via mail the following event for a 5 year old (born *1 Jan 2013) female feline of unknown further signalment. 1 Sep 2018*: The pet owner applied an unknown volume of FRONTLINE PLUS CATS (foreign labeled) (P40809AW), unknown route, to an unknown application site. At an unknown time following application the cat began scratching and hiding. It is unknown if the cat received treatment or if the reaction continues. It is also unknown when the cat was started on FRONTLINE PLUS. No further information is available at this time.
10-Oct-2018	UAE; 18US068272; OH; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Aug-2018*	03-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 10 Oct 2018, the owner reported the following event for Ameila, 1 year old, 20 pound, intact female, Pug. 26 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 26 Sept 2018: Another vial was applied. 3 Oct 2018: The dog experienced intense itching and bumps all over the body. The owner found 2 fleas on the dog. The pet did not present to the clinic and no treatment was provided. 10 Oct 2018: Symptoms are still ongoing. No further medical information is expected.
10-Oct-2018	UAE; 18US068348; AZ; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** - **Age:** 13.00 Week(s) **Weight:** 1.10 lbs	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** NOBIVAC Canine1 - DAPPv; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Sep-2018	07-Oct-2018	9 Day(s)	D-A	Suspected Adverse Event:On 10 Oct 2018, the vet tech reported the following event for the canine Zoey a 1.6 lbs., female intact, 13 week old, Maltese and Yorkshire Terrier Mix. 28 Sep 2018: Two sprays of the FRONTLINE SPRAY (H03401A) was applied topically, 1 spray to the pet's body and 1 spray on a gauze to apply to the pet's face and extremities. 7 Oct 2018: The pet was presented to the clinic deceased. The pet was also given a NOBIVAC Canine 1- DAPPv that day. No further medical information is expected.
10-Oct-2018	UAE; 18US068408; -; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Month(s) **Weight:** 24.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	10-Oct-2018	10-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 10 Oct 2018, the Vet reported the following event for the canine Rocky, a 24.2 pound, 10 month old, male, neutered, Miniature Schnauzer. 10 Oct 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R60516BL) was applied topically in one spot on the back. The pet experienced hives and itching. The pet was presented to a clinic, the pet was treated with 12.5mg of Benadryl that morning and again mid-afternoon. The pet's symptoms are ongoing. No further medical information expected.

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						product used ok?: Unknown to Company					
08-Oct-2018	UAE; 18US068441; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Oct-2018	07-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Oct 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Chica, a 5 pound, 10 month old, intact female Domestic Shorthair. 7 Oct 2018: The cat had one vial of FRONTLINE PLUS FOR CATS (S40301AX) applied topically between the shoulder blades by the pet owner. The patient licked the product and then seemed agitated and began licking her lips. The owner attempted to wipe the cats mouth to no avail. There is no further information known.
10-Oct-2018	UAE; 18US068446; MI; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Oct-2018	10-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 10 Oct 2018, the owner reported the following event for Bella, 8 year old, 8 pound, spayed female, Domestic Mediumhair feline. 10 Oct 2018: One vial of FRONTLINE PLUS CATS (S40404AW) was applied between the shoulder blades. Immediately after the cat experienced foaming at the mouth. Owner is unsure if pet ingested the product. The pet did not present to the clinic and no treatment was provided. The pet recovered. There are 2 other cats in the household. One of the other cat also received the product as is asymptomatic. No further medical information is expected.
10-Oct-2018	UAE; 18US068481; GA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Oct-2018	06-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 10 Oct 2018, the owner reported the following event for Shae, 1 year old, 60 pound, intact female, Pit Bull canine. 6 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied between the shoulder blades. Fleas were seen on the pet. The pet experienced red irritated skin and hairloss. The pet did not present to the clinic and no treatment was provided. 10 Oct 2018: The symptoms are still ongoing. No further medical information is expected.
10-Oct-2018	UAE; 18US068512; MI; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 90 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No	01-Jan-2017*	22-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event:On 10 Oct 2018, the owner reported the following event for the canine Butters, a 90 pound, 12 year old, male neutered, Unknown Mixbreed. 22 Sep 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (R60908BR) was applied topically in one spot on the back. The pet experienced lethargy and excessive drooling. The pet was not presented to a clinic. The pet was bathed in an unknown pet shampoo. The owner only uses the product when she notices fleas. This is the first treatment for the year. The pet has had an unknown reaction to a unsubstantiated antibiotic. 23 Sep 2018: The pet recovered. No further medical information

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						(Treatment / vaccination program not respected)					expected.
10-Oct-2018	UAE; 18US068520; PA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Oct-2015*	09-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 10 Oct 2018, the owner reported the following event for Walter, a 4 year old, 12 pound, neutered male, Yorkshire Terrier. 2015*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (M62601AL) given to the dog topically, between the shoulder blades, by the owner. The dog was treated as needed. 9 Oct 2018: The dog received another dose of the product. The dog started itching and had red welts all over the body. The dog was also twitching, and running around unable to sleep. The dog was not seen by a veterinarian. The owner gave the dog a Dawn bath and Benadryl. The symptoms are ongoing. No further medical information expected.
11-Oct-2018	UAE; 18US068642; NC; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 67.00 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 136 MG CHEWABLE TABLETS; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	02-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On the 11 Oct 2018, a veterinary technician reported the following event for Rocky, a 67 pound, 4 year old (born 1 Jun 2014), intact male, Pit Bull. Oct 2018: The pet owner applied FRONTLINE (unsubstantiated) (lot and expiry unknown) to the dog for the first time. Later that day the dog had a blue streak down the dogs back. The pet owner decided to discontinue using the product. 9 Oct 2018: The owner administered PO, 1 chew of NEXGARD (136 mg) (AA213317A, Nov 2019) for the first time. Later that day the dog had purple polka dots all over his fur. The owner washed off the purple polka dots with water. The dog is not showing any symptoms or abnormalities in his behavior. The dog recovered in full. The dog tested Erhlichia positive via an unknown test and hookworm positive via an unknown test in Oct 2018 prior to starting both products. It is unknown if the patient has been treated for the Ehrlichia and the hookworms and if the patient recovered in full from the blue stripe after the FRONTLINE administration. No further medical information expected.
11-Oct-2018	UAE; 18US068704; OR; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 14.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Feb-2017*	10-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 11 Oct 2018, the owner reported the following event for the Feline Kittey, a 14 pound, 6 year old*, male neutered, Domestic Shorthair. 10 Oct 2018: One vial of FRONTLINE PLUS CATS (Lot Unknown) was applied topically in one spot on the back. The pet experienced lethargy and vomited once. The pet was not presented to a clinic. The pet has been on FRONTLINE PLUS CATS since 1 Feb 2017*. 11 Oct 2018: The pet's symptoms are ongoing. No further medical information expected.
11-Oct-2018	UAE; 18US068720;	**Species:** Canine **Breed:**	1	1	0	**Product used:** FIPRONIL	30-Sep-2018*	01-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018, the owner reported the following event for Paddy, a 66.5 pound, neutered male,

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	OR; U.S.A	Staffordshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 66.5 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					Staffordshire Terrier (all other signalments unknown). 30 Sep 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R61301AR) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. On an unknown date after the application, the dog's skin was red, the dog was shaking, and not eating normally. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
11-Oct-2018	UAE; 18US068738; PA; U.S.A	**Species:** Feline **Breed:** American Shorthair **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 16 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2018	08-Oct-2018	3 Day(s)	D-D	Suspected Adverse Event: On 11 Oct 2018, the owner reported the following event for Wesley, a 6 year old, 16 pound, neutered male, American Shorthair. 5 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (R41201AW) given to the cat topically, between the shoulder blades, by the owner. 8 Oct 2018: The cat had a burn and hair loss at the application site. The cat was not seen by a veterinarian or given any treatment. The problem is ongoing. There was another cat treated with the product that did not have any symptoms. No further medical information expected.
11-Oct-2018	UAE; 18US068809; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 Year(s) **Weight:** 10 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Oct-2018	10-Oct-2018	3 Day(s)	D-D	Suspected Adverse Event: On 11 Oct 2018, the owner reported the following event for Missy, 16 year old, 10 pound, spayed female, Domestic Shorthair Feline. 7 Oct 2018: One vial of FRONTLINE PLUS CATS (R41118AW) was applied between the shoulder blades. 10 Oct 2018: The cat experienced hair loss localized at the application site. The pet did not present to the clinic and no treatment was provided. 11 Oct 2018: Symptoms are still ongoing. There are 4 other cats in the household that also received the product and are asymptomatic. No further medical information is expected.
11-Oct-2018	UAE; 18US068834; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Amoxicillin; ONSIOR; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not	01-Jan-2018*	08-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 11 Oct 2018, the owner reported the following event for the Feline Daisy, a 18 pound, 10 year old, female, spayed, Domestic Shorthair. 1 Oct 2018: One vial of FRONTLINE PLUS CATS (R41212AW) was applied topically in one spot on the back. 8 Oct 2018: The pet experienced lethargy and itching. The pet was not presented to a clinic. The pet has been on FRONTLINE PLUS CATS off and on for an unknown amount of years. The pet was diagnosed with Feline urinary syndrome 2 months ago around the beginning of September. Pet was treated with Amoxicillin 500 mg and Onsior 6 mg. 11 Oct 2018: The pet's symptoms are ongoing. No further medical information expected.

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						respected)					
11-Oct-2018	UAE; 18US068883; GA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018	02-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 11 Oct 2018, the owner reported the following event for 3 Retrievers (Labrador, Black) (all other signalments unknown). 2 Oct 2018: The dogs started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (R60908AR) given to each dog topically, between the shoulder blades, by the owner. That same night, the application site on the dogs was red and blistered. 3 Oct 2018: The dogs recovered. The dogs were not seen by a veterinarian or given any treatment. No further medical information expected.
12-Oct-2018	UAE; 18US068997; NY; U.S.A	**Species:** Canine **Breed:** Bulldog **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 65 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2017	21-Sep-2018*	20 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018, the owner reported the following event for Bruno, a 2 year old, 65 pound, neutered male Bulldog. 1 September 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was topically applied per label to the dog. *21 September 2018: The dog started to chew himself apart, he has sores all over him and he has a rash on his back legs. The owner is not seeing fleas on the dog, but explained she has an infestation in the home. On an unknown date the dog was seen by the vet and was given Apoquel. It was discovered the dog has an ear infection and was given an unknown medication to treat. The dog has been on FL for at least the past year with no issues. There are 2 other treated dogs in the home who did not have an issue. No further medical information available.
12-Oct-2018	UAE; 18US069087; CT; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Jun-2018	07-Oct-2018	2 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018 the pet owner reported the following event for Ash, 3 year old, 12 pound, neutered male, Domestic Shorthair. 30 Aug 2018: 1 vial of FRONTLINE PLUS CATS (unknown lot) was applied between the shoulder blades. 5 Oct 2018: Another vial was applied. 7 Oct 2018: Pet experienced open sores and scratches on the front of the neck and stomach. *9 Oct 2018: The cat began experiencing lethargy and diarrhea. *10: The cat has recovered from diarrhea but all other symptoms are ongoig. Cat did not present to the clinic and symptoms are ongoing. No further medical information is known.
12-Oct-2018	UAE; 18US069107; IA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 83 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Jan-2018*	05-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event:On 12 Oct 2018, the owner reported the following event for the canine Sander, an 83 pound, 7 year old, male, neutered, Labrador Retriever. 5 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (M64501) was applied topically in one spot on the back. The pet had symptoms of skin irritation at the application sight. The pet was presented to a clinic, the pet was treated with Ciprofloxacin and Apoquel, both at unsubstantiated amounts. Owner uses FRONTLINE PLUS DOG 45-88 LBS seasonally off and on. 1 Jan 2018 12 Oct 2018: The pet's symptoms are ongoing. No further medical information expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Treatment / vaccination program not respected)					
12-Oct-2018	UAE; 18US069214; PA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown flea/tick spray; Unknown flea/tick shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** -	11-Jul-2018*	11-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018, the owner reported the following event for Bella, a 2 year old, 7 pound, non-pregnant non lactating intact female, Yorkshire Terrier. Jul 2018*: The dog started on 1 vial of FRONTLINE (lot unknown, product unsubstantiated) given to the dog topically, between the shoulder blades, by the owner. The dog was treated as needed. Aug 2018*: The dog started on an unknown flea/tick spray and an unknown flea/tick shampoo. 11 Oct 2018: The dog received all 3 products. That night, the dog was vomiting clear liquid and hiding. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
12-Oct-2018	UAE; 18US069219; WI; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2014	11-Oct-2018	26 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018, the owner reported the following event for Jack, 10 year old, 20 pound, neutered male, Yorkshire Terrier canine. 15 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 11 Oct 2018: Two fleas were found on the pet. The pet experienced hotspots throughout the body. The pet did not present to the clinic. The owner bathed the pet in medicated shampoo. 12 Oct 2018: Symptoms are still ongoing. The dog has received the product monthly since 15 Oct 2014 and no symptoms presented. The pet has preexisting history of dermatitis. No further medical information is expected. Update 24 Oct 2018: Upon internal review the last vial was administered 12 Oct 2018. No further information is expected.
12-Oct-2018	UAE; 18US069244; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** SC-subcutaneous **Was the product used ok?:** No (Route not indicated / recommended)	10-Oct-2018*	10-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Oct 2018, the owner reported the following event for Canine (all other signalments unknown). 10 Oct 2018: An unknown amount of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was injected at a unknown location. The pet experienced swelling at the injection site. The pet did not present to the clinic. It is unknown if any treatment was provided. 12 Oct 2018: Symptoms are still ongoing. No further medical information is expected.
15-Oct-2018	UAE; 18US069378;	**Species:** Canine **Breed:** Small	1	1	0	**Product used:** FIPRONIL	01-Nov-2017	08-Jul-2018	24 Day(s)	D-B	Suspected Adverse Event: On 15 Oct 2018, the owner reported the following event for Benjie, 7 year old, 20 pound, neutered male,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	MI; U.S.A	crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 20 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Small crossbred canine. 14 Dec 2017: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blade. 2 Feb 2018: The dog experienced a seizure lasting 7-8 minutes. The pet began foaming at the mouth during the episode. 14 Jun 2018: Another vial was applied. 8 Jul 2018: The pet experienced a seizure lasting a few seconds. The pet did not present to the clinic and no treatment was provided. The dog recovered. The pet has received the product monthly since 1 Nov 2017. No further medical information is expected.
15-Oct-2018	UAE; 18US069472; -; U.S.A	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 52 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	11-Oct-2018*	11-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 15 Oct 2018, the following event was reported to Safety Call International (SCI) by an owner for Bee, a 13 year old, 52 pound, female spayed Staffordshire Terrier. 11 Oct 2018: Owner applied 3/4 of a dose of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) in between the shoulder blades. Within 12 hours, the dog became ataxic, was bumping into walls, circling, lethargic, anorexic, and had decreased thirst. The owner bathed the dog with dog shampoo once she saw symptoms. Patient did not present to a clinic and no treatment was given. It is unknown if patient is on any additional products or if she has ever received FRONTLINE PLUS DOG in the past. It is unknown if she has any history of vaccine or medication reactions. No further medical information is expected.
15-Oct-2018	UAE; 18US069636; OH; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 60.00 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018	05-Oct-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 15 Oct 2018 the pet owner reported the following event for Blade, a 5 year old, 60 pound, neutered male Labrador Retriever. 1 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was given to the dog between the shoulder blades. *5 Oct 2018: The pet developed hair loss on hind legs about 4 days after applying FRONTLINE. The veterinarian was contacted, but the pet was not examined by the veterinarian. The pet was treated with Benadryl by the pet owner. The symptoms are ongoing. The pet owner noted observing fleas on the pet prior to using the FRONTLINE on an unknown date. The pet was treated with FRONTLINE on 1 Sep 2018 with no adverse symptoms. There is one other dog in the home experiencing symptoms after using FRONTLINE(see case 18US067347), and 3 asymptomatic cats after using FRONTLINE. No further medical information expected.
15-Oct-2018	UAE; 18US069657; WI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Nov-2017*	21-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 15 Oct 2018, the owner reported the following event for a 3 cats (signalment unknown). 21 September 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was applied to the cats. On an unknown date the cat developed flea bites and scabs. The cats are infested with fleas and so is the home. The cats have been treated with FL since November 2017. No further medical information available.

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15-Oct-2018	UAE; 18US069658; CA; U.S.A	**Species:** Canine **Breed:** Spaniel (Brittany) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2017*	14-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Libby, a 8 year old, 40 pound, spayed Spaniel (Brittany). 13 Oct 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (H60101AX) was applied to the dog per label. 14 Oct 2018: The dog developed a yellow stain at the sight of application. The vet has not been consulted and the owner is monitoring the dog. The dog has been on FL for years without issues. No further medical information available.
16-Oct-2018	UAE; 18US069674; MN; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Nov-2006*	06-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2016 the pet owner reported the following event for Cali, 12 year old, 12 pound, spayed female, Calico. 6 Oct 2018: 1 vial of FRONTLINE PLUS CATS (unknown) was applied between the shoulder. Pet experienced irritation and itching at the application site and lethargy. Cat did not present to the clinic and no treatment has been given. Symptoms are ongoing. The pet has been on FRONTLINE seasonally for the last 12 years and has experienced the same symptoms after each application, recovering with in days of experiencing the symptoms. Four other cats in the home received the FRONTLINE and one other cat experienced symptoms case number 18US069707. No further medical information expected.
16-Oct-2018	UAE; 18US069678; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Oct-2018*	03-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for a Domestic Shorthair Feline (all other signalments unknown). 2 Oct 2018: An unknown amount of FRONTLINE PLUS CATS (R41201AW) was applied topcially at an unknown location. Unknown date: The cat experienced increased itching which caused scabs. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
16-Oct-2018	UAE; 18US069686; RI; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 13.4 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Prednisolone; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Oct-2018	15-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Smokey Blue, an 8 year old, 13.4 pound, neutered male, Russian Blue. Jun 2018*: The cat was on Prednisolone for allergies. 14 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically, between the shoulder blades, by the owner. 15 Oct 2018: The cat had nickel sized hair loss at the application site. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The cat had hyperthyroidism prior to the application. No further medical information expected.

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16-Oct-2018	UAE; 18US069707; MN; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 10 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Jul-2018*	07-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018 the pet owner reported the following event for Cinnamon, 5 year old, 10 pound, spayed female, Domestic Longhair. 6 Oct 2018: 1 vial of FRONTLINE PLUS CAT (unknown) was applied between the shoulder blades. *7 Oct 2018: The cat began to experience lethargy. *10 Oct 2018: The cat began to experience vomiting. Symptoms are ongoing and the pet has not presented to the clinic. The cat has been treated with FRONTLINE monthly since *6 Jul 2018. Four other cats in the home were treated with FRONTLINE and one experienced symptoms case number 18US069674. No further medical information expected.
16-Oct-2018	UAE; 18US069776; KY; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** F **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Sep-2018*	09-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018 the pet owner reported the following event for Daisy, 6 month old, 10 pound, intact female, Bichon Frise. 8 Sep 2018: 1 vial of FRONTLINE DOG 5-22 LBS (F60717AX) was applied down the spine of the pet. *10 Sep 2018: The dog began to experience hair loss on the hind quarters and no fleas are present on the pet. *13 Sep 2018: The dog presented to the vet clinic and was injected with Convenia and prescribed Apoquel 3.6 mg. *27 Sep 2018: The dog recovered. 8 Oct 2018: Another vial was applied in between the shoulder blades. *9 Oct 2018: The pet began to experience hair loss of the hind quarters. 10 Oct 2018: The dog presented to the vet clinic and was prescribed an unknown shampoo and put on Bravecto. 15 Oct 2018: The pet presented to the vet clinic and was injected with Cytopoint and prescribed Amoxi. Symptoms are ongoing. No further medical information expected.
15-Oct-2018	UAE; 18US069805; CA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2017*	14-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Newton, a 6 year old, 20 pound, spayed female Domestic Mediumhair. 13 Oct 2018: One vial of FRONTLINE PLUS CATS (FL) (G40851) was applied to the cat per label. 14 Oct 2018: The cat developed a yellow stain at the sight of application. The vet has not been consulted and the owner is monitoring the cat. The cat has been on FL for years without issues. No further medical information available.
18-Oct-2018	UAE; 18US069810; MN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	28-Sep-2018	28-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for a 8 pound cat (signalment unknown). 28 September 2018: The cat had fleas and was itching so one vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat. Following the treatment on an unknown date, the cat itching increased. There is one other treated cat who also had the same reaction. See case 18US071198 .No further medical information available.

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						Cutaneous **Was the product used ok?:** Unknown to Company					
16-Oct-2018	UAE; 18US069993; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 12 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Aug-2018*	01-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Leo, an 8 year old, 12 pound, neutered male Domestic Shorthair. *30 September 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat per label. On an unknown date following the treatment the cat started to vomit. The vomiting is ongoing and the owner is monitoring the cat's condition, the cat has not been seen by the vet. There is one other treated cat in the home that had a reaction, see case 18US070076. There are 2 other treated cats who did not have a reaction. No further medical information available.
16-Oct-2018	UAE; 18US069994; AZ; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Oct-2007*	14-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Jr., an 11 year old, 12 pound, neutered male Domestic Longhair. 13 Oct 2018: One vial of FRONTLINE PLUS CATS (J40704AW) was applied per label. 14 Oct 2018: The cat developed hair loss at the site of application. The owner is monitoring the cat and the cat has not been seen by the vet. The cat has been on FL all his life without issues. No further medical information available.
17-Oct-2018	UAE; 18US070018; PA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 65 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	03-Oct-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 17 Oct 2018, the owner reported the following event for Lola, 8 year old, 65 pound, spayed female, Black Labrador Retriever canine. 1 Oct 2018: One vial of FRONTLINE PLUS DOG (S60211AR) was applied between the shoulder blades. 3 Oct 2018*: The dog experienced pruritus and flaky skin. 17 Oct 2018: Symptoms are still ongoing. The dog has received the producat on prior unknown date and the same symptoms presented. There is one other dog in the household that received the product and is asymptomatic. No further medical information is expected.
17-Oct-2018	UAE; 18US070066; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Sep-2017*	03-Sep-2018*	2 Day(s)	D-C	Suspected Adverse Event: On 17 Oct 2018, the owner reported the following event for Smokey, 13 year old, 8 pound, spayed female, Feline (breed unknown). 1 Sept 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. 3 Sept 2018*: The cat experienced increased itching, and blisters throughout the body. 9 Oct 2018: The cat presented to the clinic. The attending veterinarian prescribed an unknown antibiotic. 12 Oct 2018: The cat recovered. The pet also received the product 1 Sept 2017 and the same

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						product used ok?: Yes					symptoms presented. There is one other cat in the household that also received the product and experienced symptom (see case 18US070686). No further medical information is expected.
16-Oct-2018	UAE; 18US070076; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Aug-2018*	01-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for Jack, a 7 year old, 15 pound, neutered male Domestic Shorthair. *30 September 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was topically applied to the cat per label. On an unknown date following the treatment the cat started to vomit, not eat, lick excessively. The vomiting is ongoing and the owner is monitoring the cat's condition, the cat has not been seen by the vet but was prescribed Prednisone. The house is currently infested and the cat has FAD. The cat was treated with FL in Aug 2018 with no issues. There is one other treated cat in the home that had a reaction, see case 18US069993. No further medical information available.
17-Oct-2018	UAE; 18US070077; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Jul-2018	19-Sep-2018	10 Day(s)	D-D	Suspected Adverse Event: On 17 Oct 2018, the owner reported the following event for Bell, 9 year old, 10 pound, spayed female, Domestic Shorthair feline. 9 Sept 2018: One vial of FORNTLINE PLUS CATS (M41406AW) was applied between the shoulder blades. 19 Sept 2018: The cat experienced hair loss localized at the application site. The skin turned slightly pink. The pet did not present to the clinic and no treatment was provided. 17 Oct 2018: Symptoms have improved but are still ongoing. The cat has received the product since 9 Jul 2018 and no symptoms presented. There are 2 other cats in the household that received the product and are asymptomatic. No further medical information is expected.
17-Oct-2018	UAE; 18US070080; OH; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Sep-2018*	10-Oct-2018*	6 Day(s)	D-D	Suspected Adverse Event: On 17 Oct 2018, the pet owner reported the following event for Niko, a 3 year old, 20 pound, neutered male Jack Russell Terrier. 4 Sep 2018: Dog received a dose of FRONTLINE PLUS. 4 Oct 2018: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (R60525AL) (FL) topically between the shoulder blades. 10 Oct 2018*: Dog began scratching and digging. There was no scratching prior to the application of FL. No symptoms were noted after the previous application. The pet owner stated that she was also seeing fleas after the application. The symptoms are ongoing at this time. There are 2 other dogs that presented with symptoms following the application, see cases 18US071472 and 18US071475. No further medical information available.
17-Oct-2018	UAE; 18US070147; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 12.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Probiotic; **Route:** Topical / Cutaneous **Was the product used**	13-Oct-2011*	17-Oct-2017*	N/A	D-C	Suspected Adverse Event: On 17 Oct 2018, the owner reported the following event for Emilio, a 7 year old, 12.5 pound, neutered male, Chihuahua/Pomeranian mixed breed. 2011*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) given to the dog topically, between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from Sep-Nov. 2017*: The dog started on an unknown Probiotic for Irritable Bowel Disease. The dog was treated daily. 13 Oct 2018: The dog received another dose of the FRONTLINE PLUS and the unknown Probiotic. 14 Oct 2018: The dog received another dose of the unknown Probiotic. The dog started having diarrhea.

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						ok?: Yes					16 Oct 2018: The dog recovered. The dog was not seen by a veterinarian or given any treatment. The dog has had symptoms of itching and skin irritation at the application site using Advantage. No further medical information expected.
18-Oct-2018	UAE; 18US070395; KY; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2014*	17-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Oct 2018, the owner reported the following event for Abby, a 12 year old, 16 pound, spayed female Shih Tzu. 17 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied per the label. Within 5-6 hours the dog started to vomit, had diarrhea, and she is tearing the hair off her back. The dog has not been seen by the vet. The dog has been on FL the past 4 years with no issues. No furthr medical information available.
18-Oct-2018	UAE; 18US070442; MA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	18-Oct-2015*	18-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 18 Oct 2018, the owner reported the following event for Feline (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. On another unknown date, fleas were found on the pet. The cat experienced itching. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. The cat has received the product for the past 3 years. It is unknown if symptoms presented previosuly. No further medical information is expected.
18-Oct-2018	UAE; 18US070496; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 1.50 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018*	18-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 18 Oct 2018, the owner reported the following event for a 1.5 year old feline (all other signalments unknown). 17 Oct 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 18 Oct 2018: The cat became irritable. The cat also experienced an increase in scratching and biting at skin. The status of the pet is unknown. No further medical information is expected.
18-Oct-2018	UAE; 18US070511; NJ; U.S.A	**Species:** Canine **Breed:** Dalmatian **Sex:** M **Sex qualifier:** - **Age:** 18.00 Month(s) **Weight:** 48 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IMRAB 3 TF - 1905.23; ULTRA Duramune	01-Jan-2018*	15-Oct-2018	9 Month(s) 2 Week(s)	D-B	Suspected Adverse Event: On 18 Oct 2018, the veterinary technician reported the following event for Buzz, an 18 month old (born 12 Apr 2017), 48 pound, intact male, Dalmatian. 15 Oct 2018: The patient was vaccinated by the veterinarian with IMRAB 3 TF (18382, 24 Jan 2020), 1 mL, SC, in the right hind leg, and an unknown ULTRA Duramune Distemper. It's unknown if either vaccine has previously been received. 16 Oct 2018: Buzz returned to the clinician with an elevated body temperature of 105.2 F. Out-patient care consisted of LRS (SC) and dexamethasone, as well as diphenhydramine 50 mg, PO, BID,

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						Distemper vaccine; unknown heartworm prevention; **Route:** unknown **Was the product used ok?:** Unknown to Company					given by the pet owner per the veterinarian's instruction. 17 Oct 2018: The canine returned with a body temperature of 103 F as well as soft stools. Diagnostics were not performed and treatment consisted of LRS (SC) and oral diphenhydramine given by the pet owner. 18 Oct 2018: Buzz returned to the veterinarian for the ongoing symptoms. His body temperature measured 104.1 F. A CBC/CHEM22/LYTES and 4Dx test were performed. The CHEM17 was WNL and the 4Dx test was negative. The abnormalities on the CBC included increased WBC, increased neutrophils, and increased monocytes. Treatment was not administered as the patient was referred to an emergency clinic; however, it's unknown if the pet owner has or plans to take Buzz to the emergency clinic for further work up. No further medical information expected. UPDATE 22 Oct 2018: Per the clinic staff, the patient was treated at the emergency clinic with tramadol and gabapentin on an unknown date; however, his current status is unknown. No further medical information expected. UPDATE 23 Oct 2018: Per the records received: Unknown dates: Prior to vaccination, the patient cracked the tip of his upper right canine tooth after getting into a fight with a family dog. He also received unknown FRONTLINE (lot unknown) (product unsubstantiated), and unknown heartworm prevention, administered monthly on unknown dates. The volume, route,
18-Oct-2018	UAE; 18US070607; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	18-Oct-2018*	18-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 18 Oct 2018, the owner reported the following event for a canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically. The dog experienced lethargy, and shaking episodes. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
19-Oct-2018	UAE; 18US070682; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Oct-2017*	08-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for a 12 pound cat (signalment unknown). 8 Oct 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was topically applied to the cat per label. On an unknown date the cat developed pruritus without the presence of fleas or flea dirt. The cat has had FL before for an unknown length of time. There are 3 other cats who had a reaction. See cases 18US071178, 18US071181, and 18US071182. No further medical information available.
19-Oct-2018	UAE; 18US070686; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	01-Sep-2017*	05-Sep-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Chico, 10 year old, 10 pound, neutered male, Feline (breed unknown). 1 Sept 2018: One vial of FRONTLINE PLUS CATS (R40601AW)

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		Sex: M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 10 lbs				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					was applied between the shoulder blades. 5 Sept 2018*: The cat experienced increased urination outside the litter box. The cat did not present to the clinic and no treatment was provided. 10 Sept 2018*: The cat recovered. The pet also received the product 1 Sept 2017 and the same symptoms presented. There is one other cat in the household that also received the product and experienced symptom (see case 18US070066).No further medical information is expected.
19-Oct-2018	UAE; 18US070694; IN; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 15 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Jan-2018*	03-Oct-2018*	2 Week(s)	D-D	Suspected Adverse Event: On 19 Oct 2019 the pet owner reported the following event for Baird, 11 year, 15 pound, spayed female, Chihuahua-Beagle mix. *19 Sep 2018: 1 vial of FRONTLINE PLUS 5-22 LBS (J60109AL) was applied down the spine of the pet. *3 Oct 2018: The dog began experiencing diarrhea and vomiting. *19 Oct 2018: The pet defecated in the home twice and blood was spotted in the stool. The dog has not presented to the clinic and symptoms are ongoing. Pet has been receiving FRONTLINE monthly since *1 Jan 2018. Two other dogs in the home received FRONTLINE for the same weight size and did not experience symptoms. No further medical information is expected.
19-Oct-2018	UAE; 18US070701; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 9 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Oct-2018	16-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Quinn, a 2 year old, 9 pound, spayed female, Domestic shorthair (crossbreed). 16 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (R41206AW) given to the cat topically, between the shoulder blades, by the owner. The cat had fleas and was scratching prior to the application. Approximately 2 hours later, the cat started losing fur at the application site, panting, and running around. The cat was seen by a veterinarian and given Convenia injection, Dexamethasone injection, Depo Medrol and Gentaved spray. The symptoms have improved but are still ongoing. There was another cat treated with the product that did not have any symptoms. No further medical information expected.
19-Oct-2018	UAE; 18US070724; VA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 13 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	28-Sep-2018	12-Oct-2018*	2 Week(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Blue, a 1.5 year old, 13 pound, neutered male Domestic Shorthair. 28 Sep 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied per label to the cat for the first time. *12 Oct 2018: The cat developed sores underneath his neck and chin and the cat was just laying around. 18 Oct 2018: The cat vomited twice. The cat has not been seen by the vet. The two other treated cats in home did not have any reactions after the treatment. No further medical information available.
19-Oct-2018	UAE; 18US070750;	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL	15-Oct-2018	15-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Missy, a spayed Domestic Shorthair (all other

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	NJ; U.S.A	Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** unknown flea spray; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					signalment unknown by reporter). 15 Oct 2018: The cat had fleas and the owner treated the home with an unknown flea spray. After the flea treatment spray the cat stop laying where she normally does, she isn't anxious, and is being lazy. The owner applied one vial of FRONTLINE PLUS CATS (S40101BW) was applied to the cat per label for the first time and the symptoms continued. The cat hasn't been seen by the vet and the owner is monitoring her condition. No further medical information available.
19-Oct-2018	UAE; 18US070861; MO; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2018	14-Oct-2018	9 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Joe, 3 year old, 14 pound, neutered male, Small crossbred canine. 5 Oct 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. 14 Oct 2018: The flea issue persisted. The dog experienced pruritus. The pet did not present to the clinic and no treatment was provided. 19 Oct 2018: The symptoms are still ongoing. No further medical information is expected.
19-Oct-2018	UAE; 18US070878; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	02-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Shafta, a 7 year old, 11 pound, spayed female, Domestic Shorthair (Crossbreed). 1 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (P41003AW) given to the cat topically, between the shoulder blades, by the owner. The cat had flea and was scratching prior to the application. The symptoms and amount of fleas continued to increase over time. Unknown date: The cat was seen by a veterinarian and switched to Bravecto. 21 Oct 2018: The cat recovered. There was another cat treated with the product that had the same symptoms (see case 18US071401). No further medical information expected.
17-Oct-2018	UAE; 18US070898; CA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 90 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2017	03-Sep-2017*	2 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Heinz, 3 year old, 90 pound, Intact male, German Shepherd canine. 1 Sept 2017*: One vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades. 3 Sept 2017*: The dog experienced skin irritation at the application site. The pet did not present to the clinic and no treatment was provided. Unknown date: The pet recovered. No further medical information is expected.
19-Oct-2018	UAE; 18US070928; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2018*	19-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for the canine Rosie, a 21 pound*, 7 year old*, female, spayed, Chihuahua.

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		Sex qualifier: Neutered **Age:** 7.00 Year(s) **Weight:** 21.000 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					19 Oct 2018: One vial FRONTLINE PLUS DOG 23-44 LBS (P62207AL) was applied topically in one spot on the back. Within hours the pet began to become lethargic. The pet has not been presented to the clinic. The pet's symptoms are ongoing. No further medical information The pet was given FRONTLINE PLUS DOG 23-44 LBS once before in Jan 2018 and did not exhibit any symptoms with that treatment.
20-Oct-2018	UAE; 18US070946; CO; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 7.1 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2018	19-Oct-2018	2 Day(s)	D-D	Suspected Adverse Event:On 19 Oct 2018, the owner reported the following event for the canine Missy, a 7.1 pound, 3 year old, female, spayed, Chihuahua Terrier Mix. 17 Oct 2018: One vial FRONTLINE PLUS DOG 5-22 LBS (L63507AL) was applied topically in one spot on the back. 19 Oct 2018: The pet began to lose excessive amount of hair all over the pet's body. The pet was not presented to a clinic. The pet's symptoms are ongoing. No further medical information.
19-Oct-2018	UAE; 18US070947; CA; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 7 lbs	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2016	12-Oct-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Celly, a 5 year old, 7 pound, spayed female Calico. 5 Oct 2018: One vial of FRONTLINE PLUS CATS (S40117AW) was topically applied to the cat. *12 Oct 2018: The cat developed an itch that never went away. The owner is seeing a few fleas. The cat has been on FL for years with no issues. There are 3 treated cats in the home who did not have any issues. No further medical information available.
22-Oct-2018	UAE; 18US070964; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Aug-2018*	01-Sep-2018*	N/A	D-D	Suspected Adverse Event: On 22 Oct 2018 the pet owner reported the following event for an unknown canine (signalment unknown). 1 Aug 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 (lot and expiration date unknown) was applied to the dog. 1 Sep 2018*: The dog was scratching and there was evidence of fleas and lice. 16 Sep 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS(lot and expiration unknown) was applied to the dog. 17 Oct 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS(lot and expiration unknown) was applied to the dog. There is one other dog in the home that experienced symptoms. See case 18US072593.No further medical information available.
22-Oct-2018	UAE; 18US071134;	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL	01-Oct-2015*	22-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 22 Oct 2018, the pet owner reported the following event for Eva, a 6 year old, 7 pound, spayed female

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	PA; U.S.A	Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 7 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Domestic Shorthair. 1 Oct 2015*: Cat began receiving treatment with FRONTLINE PLUS CATS. 22 Oct 2018: Cat received one dose of FRONTLINE PLUS CATS (S40301AX) (FL), topically between the shoulder blades. Immediately after the application the cat began hyper salivating and her eyes were dilated. The cat did not ingest any of the product. The cat has received treatment with FL before with no adverse symptoms presenting. The cat was bathed immediately after the application and has fully recovered. The cat is in good health outside of the symptoms noted. No further medical information expected.
19-Oct-2018	UAE; 18US071178; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Oct-2017*	08-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for a 15 pound cat (signalment unknown). 8 Oct 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was topically applied to the cat per label. On an unknown date the cat developed pruritus without the presence of fleas or flea dirt. The cat has had FL before for an unknown length of time. There are 3 other cats who had a reaction. See cases 18US070682, 18US071181, and 18US071182. No further medical information available.
19-Oct-2018	UAE; 18US071181; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Oct-2017*	08-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for a 12.5 pound cat (signalment unknown). 8 Oct 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was topically applied to the cat per label. On an unknown date the cat developed pruritus without the presence of fleas or flea dirt. The cat has had FL before for an unknown length of time. There are 3 other cats who had a reaction. See cases 18US070682, 18US071178, and 18US071182. No further medical information available.
19-Oct-2018	UAE; 18US071182; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Oct-2017*	08-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for a 14 pound cat (signalment unknown). 8 Oct 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was topically applied to the cat per label. On an unknown date the cat developed pruritus without the presence of fleas or flea dirt. The cat has had FL before for an unknown length of time. There are 3 other cats who had a reaction. See cases 18US070682, 18US071178, and 18US071181. No further medical information available.
22-Oct-2018	UAE; 18US071186; NC; U.S.A	**Species:** Feline **Breed:** Persian, Shaded **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	16-Oct-2018	17-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 22 Oct 2018, the owner reported the following event for a Shaded Persian (all other signalments unknown). 16 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS

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		Sex qualifier: Neutered **Age:** 12.00 Year(s) **Weight:** 8 lbs				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(R40601AW) given to the cat topically (unknown site of application), by the owner. Approximately 12 hours later, the cat was not eating or drinking, sounded as if distressed, and was reclusive. It is unknown if the cat was seen by a veterinarian or given any treatment. The owner gave the cat a bath. The cat's current status is unknown. No further medical information expected. UPDATE 23 Oct 2018: The owner reported the following event for Prissy, a 12 year old, approximately 8 pound, neutered male. 16 Oct 2018: The product was applied topically between the shoulder blades. 17 Oct 2018: The symptoms started. 20 Oct 2018: The owner gave the cat a bath. 21 Oct 2018: The cat recovered. The cat was not seen by a veterinarian. No further medical information expected.
18-Oct-2018	UAE; 18US071198; MN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	28-Sep-2018	28-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Oct 2018, the owner reported the following event for a 12 pound cat (signalment unknown). 28 September 2018: The cat had fleas and was itching so one vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat. Following the treatment on an unknown date, the cat's itching increased. There is one other treated cat who also had the same reaction. See case 18US069810. No further medical information available.
22-Oct-2018	UAE; 18US071326; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 3.5 lbs	6	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2018	22-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 22 Oct 2018, the owner reported the following event for Rebel, 8 month old, 3.5 pound, intact male, Feline (breed unknown). 22 Oct 2018: One vial of FRONTLINE PLUS CATS (S40101AW) was applied between the shoulder blades. The cat ingested the product and experienced hypersalivation. The pet did not present to the clinic and no treatment was provided. Symptoms are still ongoing. There are 5 other cats in the household that also received the product and are asymptomatic. No further medical information is expected.
22-Oct-2018	UAE; 18US071361; NY; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Oct-2018*	08-Oct-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 22 Oct 2018 the pet owner reported the following event for Al, 11 year old, 12 pound, neutered male, Russian Blue. 1 Oct 2018: 1 vial of FRONTLINE PLUS FOR CATS (R40312AW) was applied between the shoulder blades and rubbed in with a gloved hand. *8 Oct 2018: The cat began to experience an increased amount of shedding. Fleas were seen on the pet. The cat did not present to clinic and symptoms are ongoing. No further medical information expected.

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						ok?: Yes					
22-Oct-2018	UAE; 18US071371; RI; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Sep-2013	10-Oct-2018	17 Day(s)	D-D	Suspected Adverse Event: On 23 Oct 2018, the owner reported the following event for Cathy, 7 year old, 18 pound, spayed female, Small crossbred canine. 23 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) was applied between the shoulder blades. 10 Oct 2018: Fleas were found on the pet. The pet experienced pruritus throughout the body. The pet did not present to the clinic and no treatment was provided. 22 Oct 2018: Symptoms are still ongoing. No further medical information is expected.
19-Oct-2018	UAE; 18US071401; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 8.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	02-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Oct 2018, the owner reported the following event for Cali, a 7 year old, 8 pound, spayed female, Domestic Shorthair (Crossbreed). 1 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (P41003AW) given to the cat topically, between the shoulder blades, by the owner. The cat had fleas and was scratching prior to the application. The symptoms and amount of fleas continued to increase over time. Unknown date: The cat was seen by a veterinarian and switched to Bravecto. 21 Oct 2018: The cat recovered. There was another cat treated with the product that had the same symptoms (see case 18US070878). No further medical information expected.
19-Oct-2018	UAE; 18US071420; -; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 9.48 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	16-Oct-2018	16-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 19 Oct 2018, the following event was reported to Safety Call International (SCI) by the clinic staff member for Geoffry, a 5 year old, 9.48 pound, intact male canine. 16 Oct 2018: The owner applied 1 tube of FRONTLINE PLUS DOG (5-22 LBS (S60810AX) between the dog's hips and above the dog's tail and approximately 2 hours later the dog developed tremors and difficulty walking. The dog is anorexic and CNS symptoms have persisted through the evening. No treatment has been given. No further medical information expected.
17-Oct-2018	UAE; 18US071472; OH; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	04-Sep-2018*	10-Oct-2018*	6 Day(s)	D-D	Suspected Adverse Event: On 17 Oct 2018, the pet owner reported the following event for Zoey, a 5 year old, 12 pound, intact female Jack Russell Terrier. 4 Sep 2018: Dog received a dose of FRONTLINE PLUS. 4 Oct 2018: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (R60525AL) (FL) topically between the shoulder blades. 10 Oct 2018*: Dog began scratching and digging. There was no scratching prior to the application of FL. No symptoms were noted after the previous application. The pet owner stated that she was also seeing fleas after the application. The symptoms are ongoing

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						Was the product used ok?: Yes					at this time. There are 2 other dogs that presented with symptoms following the application, see cases 18US070080 and 18US071475. No further medical information available.
17-Oct-2018	UAE; 18US071475; OH; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Sep-2018*	10-Oct-2018*	6 Day(s)	D-D	Suspected Adverse Event: On 17 Oct 2018, the pet owner reported the following event for Buddy, a 12 year old, 15 pound, neutered male Jack Russell Terrier. 4 Sep 2018: Dog received a dose of FRONTLINE PLUS. 4 Oct 2018: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (R60525AL) (FL) topically between the shoulder blades. 10 Oct 2018*: Dog began scratching and digging. There was no scratching prior to the application of FL. No symptoms were noted after the previous application. The pet owner stated that she was also seeing fleas after the application. The symptoms are ongoing at this time. There are 2 other dogs that presented with symptoms following the application, see cases 18US070080 and 18US071472. No further medical information available.
23-Oct-2018	UAE; 18US071697; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2015*	01-Jan-2015*	0 Day(s)	D-D	Suspected Adverse Event: On 23 Oct 2018, the owner reported the following event for a Feline (all other signalments unknown). Unknown date: Several years ago, one vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The cat experienced hypersalivation. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
24-Oct-2018	UAE; 18US071787; MN; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 61.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Aug-2017*	23-Oct-2018	6 Month(s) 4 Week(s)	D-C	Suspected Lack of Efficacy Claim: On 24 Oct 2018, the technician reported the following event for Winnie, a 4 year old (born 6 May 2014) 61.2 pound female spayed Golden Retriever. The dog was vaccinated with RECOMBITEK LYME on 23 Jul 2014 (42196B, 17 Dec 2015), 13 Aug 2014 (42194B, 22 Jul 2015), 10 Aug 2015 (42199A, 29 May 2016), 10 Aug 2016 (42205, 10 Dec 2016), 28 Aug 2017 (42216, 3 Oct 2018), and 1 Aug 2018 (42223, 8 Nov 2019). 23 Oct 2018: The dog presented to the clinic for lethargy and painful joints. At the clinic, the dog had a temperature of 103.2F and a CBC/Chemistry was performed with the abnormal results as follows: PLT 27,000 (165-500,000). A 4Dx test was positive for Lyme. The clinic treated with Doxycycline. The dog has no negative testing history. The pet owner also purchased 8 doses of FRONTLINE PLUS DOG 45-88 LBS (lot unknown). UPDATE 30 Oct 2018: Patient is considered recovered. No further medical information expected.
24-Oct-2018	UAE; 18US071843; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	07-Oct-2015*	07-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 24 Oct 2018 the pet owner reported the following event for Cali, 4 year old, 12 pound, spayed female, mixed breed feline. 7 Oct 2018: 1 vial of FRONTLINE PLUS CATS (S40104BW) was applied between the shoulder blades. Cat began to experience increased itching. It is unknown whether fleas were present on the pet.

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		Weight: 12 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					*10 Oct 2018: Cat was given a Capstar. Cat has not presented to the clinic and symptoms are ongoing. The pet has been receiving FRONTLINE applications monthly since *7 Oct 2015. Three other pets in the home received an application of the product and are experiencing symptoms see case 18US071927, 18US071938 and 18US071960. No further medical information expected.
24-Oct-2018	UAE; 18US071887; IL; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor Plus Yellow; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2017*	24-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 24 Oct 2018 the pet owner reported the following event for Tucker, a 2 year old, 30 pound, neutered male, Terrier(Jack Russell). 23 Oct 2017*: The pet started taking 1 chew of Interceptor Yellow oral monthly. 26 Sept 2018: 1 chew of Interceptor Yellow was given to the pet. 23 Oct 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (M62606AL) was applied between the shoulder blades at 4:00 p.m. 24 Oct 2018: The dog has a bright red rash that appears to have broken through the skin. The pet did not present to the clinic. The reaction continues. No further medical information expected.
24-Oct-2018	UAE; 18US071927; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Month(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Jan-2018*	07-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 24 Oct 2018 the pet owner reported the following event for Gracie, *11 month old, 12 pound, spayed female, unknown breed feline. 7 Oct 2018: 1 vial of FRONTLINE PLUS CATS (S40104BW) was applied between the shoulder blades. Cat began to experience increased itching and fleas are present on the pet. *10 Oct 2018: Capstar was given to the pet. Cat has not presented to the clinic and symptoms are ongoing. The pet has been receiving FRONTLINE applications monthly since *7 Jan 2018. Three other pets in the home received an application of the product and are experiencing symptoms see case 18US071843, 18US71938 and 18US071960. No further medical information expected.
24-Oct-2018	UAE; 18US071938; PA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Oct-2015*	07-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 24 Oct 2018 the pet owner reported the following event for Utopia, 5 year old, 16 pound, spayed female, Beagle. 7 Oct 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R610113AL) was applied between the shoulder blades. Dog began to experience increased itching and fleas are present on the pet. *10 Oct 2018: Capstar was given to the pet. Dog has not presented to the clinic and symptoms are ongoing. The pet has been receiving FRONTLINE applications monthly since *7 Oct 2015. Three other pets in the home received an application of the product and are experiencing symptoms see case 18US071843, 18US071927 and 18US071960. No fruther medical information expected.
24-Oct-2018	UAE; 18US071960; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	07-May-2018*	07-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 24 Oct 2018 the pet owner reported the following event for Onyx, *1 year, 16 pounds, neutered male, breed unknown feline. 7 Oct 2018: 1 vial of FRONTLINE PLUS CATS (S40104BW) was applied between the shoulder blades. Cat began to experience

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		Neutered **Age:** 1.00 Year(s) **Weight:** 16 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					increased itching and fleas are present on the pet. *10 Oct 2018: The pet received Capstar. Cat has not presented to the clinic and symptoms are ongoing. The pet has been receiving FRONTLINE applications monthly since *7 May 2018. Three other pets in the home received an application of the product and are experiencing symptoms see case 18US071843, 18US071927 and 18US071938. No further medical information.
29-Oct-2018	UAE; 18US071996; OH; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Mar-2018*	05-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for the unknown felines, which are between 10-12lbs in weight (All other signalment unknown) 5 Oct 2018: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in an unknown location. 6 Oct 2018*: The pets experienced symptoms of lethargy and anorexia. It is unknown if the pets have been presented to the vet clinic. 29 Oct 2018: The pet's symptoms are unknown. No further medical information. UPDATE 29 Oct 2018: The owner reported the following for Jada, an approximately 11 year old, approximately 12 pound, spayed female, Calico. Mar 2018*: The cat started on 1 dose of FRONTLINE PLUS CATS (lot unknown) given to the cat topically, between the shoulder blades, by the owner. The cat was treated monthly. 5 Oct 2018: The cat received another dose of the product. The cat vomited, was lethargic, not eating, and hiding. The symptoms were on an off throughout the entire month. 26 Oct 2018: The most recent symptoms started. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The cat has been having the same symptoms since the treatment in Apr. The cat also has fleas. The owner missed a dose in July and started seeing fleas. There is another cat being treated that had the same symptoms (see case 18US073138). No further medical information expected.
25-Oct-2018	UAE; 18US072104; VA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	11-Apr-2012*	12-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 25 Oct 2018, the pet owner reported the following event for Case, a 7 year old, approximately 85 pound, spayed female Golden Retriever. 11 Apr 2012*: Dog began receiving monthly treatments of FRONTLINE. 11 Oct 2018: Dog received most recent dose of FRONTLINE PLUS DOG 89-132 LBS (M61702) (FL) topically between the shoulder blades. Following the application the pet owner stated that the pet's scratching increased. The pet owner reported the dog was scratching previously, but increased following the application of FL. The pet owner started that the dog's belly is red and there are sore spots. The veterinary clinic was not contacted. The symptoms are ongoing. No further medical information expected.
25-Oct-2018	UAE; 18US072188; TN; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Month(s)	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	01-Oct-2018	02-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 25 Oct 2018, the owner reported the following event for the feline Renfield, a 10 pound, 8 month old, male, neutered, Maine Coon. 1 Oct 2018: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in one spot in between the shoulder blades. 2 Oct 2018: The pet scratch obsessively. The pet was presented to a clinic where the vet gave a CAPSTAR and Advantage. 25 Oct 2018: The pet's symptoms are unknown.

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		Weight: 10 lbs				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					The 2 cats in the home were also treated but did not exhibt any symptoms all 3 pets did have fleas noted prior to the use of the FRONTLINE. No further medical information expected.
25-Oct-2018	UAE; 18US072224; NY; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	25-Oct-2018*	25-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 25 Oct 2018, the owner reported the following event for a Russian Blue feline (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CAT (R40515AW) was applied topically at an unknown location. After unknown period, the cat began chewing fur out. Cat also hissed at owner when they attempted to touch them. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected
25-Oct-2018	UAE; 18US072228; MI; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 32 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** Yes	01-Aug-2018*	15-Oct-2018	12 Day(s)	D-D	Suspected Adverse Event: On 25 Oct 2018, the pet owner reported the following event for Chipo, 12 year old, 32 pound, male neutered mixed breed/various. 1 Oct 2018: The dog was scracthing and biting, live fleas were seen on the dog. 3 Oct 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog. 15 Oct 2018: The pet developed pink skin and continues to scratc and bite himeself. No fleas seen on the pet. The dog has not been seen by the doctor, and the reactions continues. No further medical information expected.
25-Oct-2018	UAE; 18US072336; VA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Oct-2012*	04-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 25 Oct 2018, the owner reported the following event for Skyler, 6 year old, 50 pound, spayed female, German Shepherd canine. 4 Jul 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (M64104) was applied between the shoulder blades.The dog experienced itching and irritation around the base of the tail. The pet did not present to the clinic. The owner treated with Peroxide and ointment. The pet has received the product monthly since 4 Oct 2012. The symptoms have been ongoing since 4 Jul 2018 application. There is one other dog in the household that also received the product and experiencing an ongoing issue (see case 18US072369). No further medical information is expected.
26-Oct-2018	UAE; 18US072369; VA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	04-Oct-2012*	04-Jul-2018	N/A	D-D	Suspected Adverse Event: On 25 Oct 2018, the owner reported the following event for Lexi, 8 year old, 50 pound, spayed female, Black Labrador Retriever canine. 4 Jul 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (M64104) was applied between the shoulder blades. The dog experienced itching and irritation around the base of the tail. The pet did not present to the clinic. The owner treated with Peroxide and ointment. The pet has received the product monthly since 4 Oct 2012. The symptoms have been ongoing since 4 Jul 2018 application. There is one other dog in the household that also received the product

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						product used ok?: Yes					and experiencing an ongoing issue (see case 18US072336). No further medical information is expected
25-Oct-2018	UAE; 18US072374; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 76 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Prozac; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Oct-2016	18-Oct-2018	N/A	D-C	Suspected Adverse Event: On 26 Oct 2018, the owner reported the following event for Teddy, 7 year old, 76 pound, neutered male, Golden Retriever poodle mix canine. 22 Sept 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. After 6 hours, the pet experienced weakness in legs, ataxia, and vomiting. The pet recovered after 1 week. 18 Oct 2018: The pet presented to the clinic. The attending veterinarian took radiographs which came back normal. A blood chemistry was also run which showed low platelet count. the veterinarian prescribed Gabapentin and Doxycycline. 22 Oct 2018: Another vial was applied. The same symptoms presented after 6 hours. 26 Oct 2018 Symptoms are still ongoing. There dog has received the product since 22 Oct 2016 and the same symptoms have presented each month. The dog has also received Prozac since 1 Oct 2017 for anxiety. There is one other dog in the household that did not receive the product and is asymptomatic. The dog received NEXGARD in the past and experienced symptoms (see case 18US072375). No further medical information is expected
26-Oct-2018	UAE; 18US072517; TX; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 8.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	24-Oct-2017*	25-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 26 Oct 2018, the owner reported the following event for Pia, a 2 year old, 8.5 pound, spayed female Siamese. 24 Oct 2018: One vial of FRONTLINE PLUS CATS (R41206AW) (FL) was topically applied per label to the cat. 25 Oct 2018: The cat was lethargic and hid for hours. The owner is monitoring the cat and she has not been seen by the vet. The has had FL for the past year with no issues. No further medical information available.
26-Oct-2018	UAE; 18US072535; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	22-Oct-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 26 Oct 2018, the owner reported the following event for the feline Percy, a 10 pound, 2 year old, male, neutered, Domestic Shorthair. 19 Oct 2018: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in one spot in between the shoulder blades. 22 Oct 2018*: The owner noticed hair loss at the application site. The pet has not been presented to the clinic. 25 Oct 2018: The pet's symptoms are ongoing. No further medical information. The pet has used FRONTLINE previously back in Jan 2018 with no symptoms noted.
26-Oct-2018	UAE; 18US072593; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-Aug-2018*	01-Sep-2018*	N/A	D-D	Suspected Adverse Event: On 22 Oct 2018 the pet owner reported the following event for an unknown canine (signalment unknown). 1 Aug 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot and expiration date unknown) was applied to the dog. 1 Sep 2018*: The dog was scratching and there was evidence of

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: - **Weight:** Unknown				**used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					fleas and lice. 16 Sep 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS(lot and expiration unknown) was applied to the dog. 17 Oct 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS(lot and expiration unknown) was applied to the dog. One other dog in the home experienced symptoms. See case 18US0964. No further medical information expected.
26-Oct-2018	UAE; 18US072633; PA; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2015*	05-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 Oct 2018, the owner reported the following event for Bernard, 3 year old, 45 pound, intact male, Border Collie canine. 5 Oct 2018: Fleas were noted on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blade. The pet experienced pruritus which cause the skin to become raw. The pet did not present to the clinic and no treatment was provided. The dog has received the product since 1 Jan 2015* ano no symptoms presented. There is one other dog in the household that received the product and experienced symptoms (see case 18US073185). No further medical information is expected.
29-Oct-2018	UAE; 18US072772; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Route not indicated / recommended)	28-Oct-2018*	28-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 29 Oct 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Orange, a 1 year old, 6 pound, neutered male Domestic Shorthair. 28 Oct 2018: The pet owner applied FRONTLINE PLUS CATS (R41201AW). As the owner was applying the product, the product was accidently dropped into the cat's eye. The eye was wiped with a wet cloth. The cat was squinting but not pawing at the eye. No further information at this time.
29-Oct-2018	UAE; 18US072787; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018	21-Oct-2018*	1 Day(s)	D-C	Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for the canine Tootsie, a 7 year old, 24 pound, spayed female, Chihuahua Mix. 20 Oct 2018*: One vial FRONTLINE PLUS DOG 23-44 LBS (R60316AL) was applied topically in between the shoulder blades in one location. 21 Oct 2018*: The pet experienced hives all over the pet's body. The pet has not been presented to the clinic. 29 Oct 2018: The pet's symptoms are ongoing. The pet has previously reacted to an unknown antibiotic where the pet broke out in hives. The pet has used FRONTLINE PLUS DOG 23-44 LBS since Jan 2018* year round. No further medical information.
29-Oct-2018	UAE; 18US072841; GA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** U **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	N/A	15-Oct-2018	2 Week(s)	D-D	Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for a 19 pound canine (all other signalments unknown). 1 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 15 Oct 2018: The pet had an ongoing issue with fleas. The dog experienced pruritus. It is unknown if the pet presented to the clinic

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		Age: - **Weight:** 19 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					or if any treatment was provided. The status of the pet is unknown. The pet has received the product on prior unknown dates, it is unknown if the pet experienced any symptoms. No further medical information is expected.
29-Oct-2018	UAE; 18US072848; MI; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	21-Oct-2018*	22-Oct-2018*	1 Day(s)	D-A	Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for a Golden Retriever (all other signalments unknown). 21 Oct 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at unknown location. 22 Oct 2018*: The dog passed away. No symptoms were noted prior. It is unknown if the pet presented to the clinic. No further medical information is expected.
02-Nov-2018	UAE; 18US072989; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** - **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	12-Oct-2018*	13-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 29 October 2018, the owner reported the following event for canine (all other signalments). 12 October 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (LOT UNKNOWN) was applied between the shoulder blades. UNKNOWN DATE: The canine had started losing fur around base of tail. Canine status is unknown. No further medical information is expected.
29-Oct-2018	UAE; 18US073013; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 11.5 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Oct-2018*	29-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 29 October 2018, the pet owner reported the following event for Speedy, 10 year old, 11.5 pounds, neutered male, Chihuahua. Unknown date: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (UNKNOWN) was given to the dog by the unknown method. The dog started extremely scratching all over the body immediately after application of the FRONTLINE PLUS. Unknown date: Pet recovered from symptoms. Reference primary case 18US072798 and other case 18US073110 No further information available at this time
29-Oct-2018	UAE; 18US073021; PA; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Unknown **Age:** 7.00	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	01-Jan-2014*	01-Jan-2014*	0 Day(s)	D-D	Suspected Adverse Event: On 29 Oct 2018, the pet owner reported the following event for Dune, a 7 month old* (born 16 May 2013), 16 pound*, male, Bichon Frise/Shih Tzu mix of further unknown signalment. Unknown dates: The patient received one vial of unknown FRONTLINE (lot unknown) (product unsubstantiated), applied topically in an unknown location. An unknown duration following

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		Month(s) **Weight:** 16 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					application, Dune developed alopecia at the application site. It's unknown if treatment was administered, but on an unknown subsequent date, he recovered. It's unknown if he has previously received unknown FRONTLINE. It's also unknown if any other products or medications were administered concomitantly or within 31 days prior to application. In 2015 and 2018, the canine experienced adverse symptoms following NEXGARD ingestion. Please see case 18US072683. No further medical information expected.
30-Oct-2018	UAE; 18US073047; MD; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 11.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	23-Oct-2018	23-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Oct 2018, the owner reported the following event for the feline Kid, a 3 year old, 11.5 pound, male neutered, Domestic Shorthair. 23 Oct 2018: One vial FRONTLINE PLUS CATS (R41118) was applied topically in between the shoulder blades in one location. The pet experienced symptoms of severe pruritus since the application. 24 Oct 2018: The pet was presented to the clinic and was given Atopica to give once daily by mouth (unknown dosage). 30 Oct 2018: The pet's symptoms are ongoing and he remains under treatment. No further medical information. This was the first treatment of FRONTLINE PLUS CATS for the pet.
30-Oct-2018	UAE; 18US073119; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	30-Oct-2018*	30-Oct-2018*	0 Day(s)	D-B	Suspected Adverse Event: On 30 Oct 2018, the owner reported the following event for a Feline (all other signalments unknown). Unknown date: One vial of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. After unknown period the cat lost sight out of one eye. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
30-Oct-2018	UAE; 18US073137; WA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Benadryl; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Oct-2018	30-Oct-2018	1 Day(s)	D-C	Suspected Adverse Event: On 29 Oct 2018, the vet reported the following event for Ralph, an 11 year old, 16 pound, neutered male Shih Tzu. 29 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P62719) was applied per label for the first time. 30 Oct 2018: The dog couldn't walk and was taken to the clinic. The vet is monitoring the dog and no treatments have been given yet. The vet's level of suspicion FL is the cause is high.The dog takes 12mg Benadryl as needed, but isn't on any other medications. No further medical information available.
30-Oct-2018	UAE; 18US073138; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	05-Mar-2018*	05-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for the unknown feline, 10 lbs (All other signalment unknown) 5 Oct 2018: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in an unknown location. 26 Oct 2018: The pet experienced symptoms of lethargy and

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		Age: 5.00 Year(s) **Weight:** 10 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					anorexia and vomiting. It is unknown if the pet has been presented to the vet clinic. 29 Oct 2018: The pet's symptoms are unknown. No further medical information. UPDATE 29 Oct 2018: The owner reported the following for Zoey, an approximately 5 year old, approximately 10 pound, spayed female, feline (unknown). Mar 2018*: The cat started on 1 dose of FRONTLINE PLUS CATS (lot unknown) given to the cat topically, between the shoulder blades, by the owner. The cat was treated monthly. 5 Oct 2018: The cat received another dose of the product. The cat vomited, was lethargic, not eating, and hiding. The symptoms were on an off throughout the entire month. 26 Oct 2018: The most recent symptoms started. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The cat has been having the same symptoms since the treatment in Apr. The cat also has fleas. The owner missed a dose in July and started seeing fleas. There is another cat being treated that had the same symptoms (see case 18US071996). No further medical information expected.
30-Oct-2018	UAE; 18US073141; TX; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** F **Sex qualifier:** - **Age:** 18.00 Year(s) **Weight:** 5 - 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Sep-2018*	25-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 30 Oct 2018, the owner reported the following event for Miracle, a 5-10lbs, 18 year old, female intact, Miniature Dachshund. 18 Oct 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS was applied topically in one spot in between the pet's shoulder blades. 25 Oct 2018: The pet began to experience symptoms of vomiting 2-3 times this day and skin irritation and hair loss was more prevalent pet has not been presented to the clinic. 30 Oct 2018: The pet's symptoms are ongoing. The pet had an ongoing flea issue and was diagnosed with FAD almost 10 years ago. Fleas were seen heavily on the pet prior to use. The pet has been on Frontline since Sep 2018. The pet previously had an unknown reaction to ADVANTIX. No further medical information expected.
26-Oct-2018	UAE; 18US073185; PA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 65 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2010*	05-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 Oct 2018, the owner reported the following event for Annie, 8 year old, 65 pound, spayed female, Beagle mix canine. 5 Oct 2018: Fleas were noted on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blade. The pet experienced pruritus which cause the skin to become raw. The pet did not present to the clinic and no treatment was provided. 30 Oct 2018: Symptoms are still ongoing. The pet has received the product since 10 Jan 2010* and no symptoms presented. There is one other dog in the household that received the product and experienced symptoms (see case 18US072633). No further medical information is expected.
30-Oct-2018	UAE; 18US073264; MI; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	23-Oct-2017*	25-Oct-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 30 Oct 2018, the owner reported the following event for Reese, an 8 year old, spayed female Maine Coon Cat (weight unknown by reporter). 23 Oct 2018: The cat was itching and had fleas, one vial of FRONTLINE PLUS CATS (FL) (S40404AW) was topically applied per label. On an unknown date the itching decreased and within the last few days the cat started itching with the presence of fleas. The cat is

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					treated with FL as needed in the past. No further medical information available.
30-Oct-2018	UAE; 18US073327; WV; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Oct-2018	30-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Oct 2018, the owner reported the following event for Meow Meow, a 3 year old, female spayed, Calico (all other signalments unknown). 30 Oct 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (S40101BW) given to the cat, topically, between the shoulder blades, by the owner. Approximately 1.5 hours later, the cat vomited. The vomit was long and cylindrical with food at one end and hair at the other end. The cat was not eating or drinking. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
30-Oct-2018	UAE; 18US073337; WA; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** - **Age:** 10.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Oct-2018*	18-Oct-2018	2 Day(s)	D-D	Suspected Adverse Event: On 30 October 2018, the owner reported the following event for Molly, 10 year old, 25 pounds, female non-pregnant non-lactating Mixed Breed. 16 OCT 2018*: One vial of FRONTLINE PLUS DOG 23-44 LBS (UNKNOWN) was applied between the shoulder blades. 18 OCT 2018: The dog had a hot spot develop at the base of the tail. Dog also started to lose fur in various part of the body. Pet owner also noticed scabs and irritated skin on multiple areas of the body. 20 OCT 2018: Pet owner bathed dog in an unknown shampoo. Dog is still displaying symptoms. Pet has not presented to doctor. No further medical information is expected.
31-Oct-2018	UAE; 18US073381; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	28-Oct-2018	30-Oct-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the owner reported the following event for a Canine (all other signalments unknown). 28 Oct 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog at a unknown location. 30 Oct 2018*: The dog developed pruritus at an unknown area of its body. No further medical information is expected.
31-Oct-2018	UAE; 18US073389; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	20-Oct-2018	24-Oct-2018	4 Day(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the owner reported the following event for Buddy, 8 year old, 28 pound, neutered male, Feline (breed unknown). 20 Oct 2018: One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. 24 Oct 2018: The cat experienced anorexia. The pet did not present to the clinic and no treatment was provided. 31 Oct 2018: Symptoms are still ongoing. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						product used ok?: Yes					
01-Nov-2018	UAE; 18US073405; OH; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 0.00 Day(s) **Weight:** 44.000 - 88.000 lbs	4	4	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	24-May-2018	24-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the pet owner reported the following event for 4 canines weighing between 44-88 pounds, other signalment unknown. 24 May 2018: The dogs were experiencing fleas and itchiness, so FRONTLINE PLUS 45-88 LBS (Lot Unknown) was applied, with doses given monthly on 24 Jun 2018 and 24 Sep 2018. 24 Oct 2018: The dogs were bathed in Dawn dish soap due to continued fleas, and another application of FRONTLINE PLUS was given when the dogs were dry. Later that day, all 4 dogs developed a rash. The dogs presented to the veterinarian, were they were prescribed prednisone and unknown antibiotics. The dogs are currently recovering. There are 5 cats in the household that are being treated with Advantix and are not experiencing a problem with fleas. No further medical information expected.
31-Oct-2018	UAE; 18US073473; OK; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2017*	12-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the owner reported the following event for Kitsy, 2 year old, 11 pound, spayed female, Feline (breed unknown). 5 Oct 2018: One vial of FRONTLINE PLUS CAT (S40301AX) was applied between the shoulder blades. 12 Oct 2018L: Fleas were seen on the pet. The cat experienced itching. The pet did not present to the clinic and no treatment was provided. 31 Oct 2018: Symptoms are still ongoing. The cat has received the product since 5 Oct 2017* and no symptoms presented. There is one other cat in the household that also received the product and experienced symptoms (see case 18US075039). No further medical information is expected.
31-Oct-2018	UAE; 18US073532; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	31-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 31, the owner reported the following event for a canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically at an unknown location. On another unknown date the pet experienced increased itching and hair loss. It is unknown if the pet presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
31-Oct-2018	UAE; 18US073601; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	11-Sep-2018	14-Oct-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the owner reported the following event for Abel, 2 year old, 14 pound, neutered male, Domestic Shorthair feline. 11 Sept 2018: One vial of FRONTLINE PLUS CAT (lot unknown) was applied between the shoulder blades. 14 Sept 2018*: The cat experienced mild skin irriataion at the application site. 21 Sept 2018*: The cat recovered. 11 Oct 2018: Another vial was applied.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Cutaneous **Was the product used ok?:** Yes					14 Oct 2018*: The cat experienced skin irrtiaiton at the application site. This included hair loss and cracked skin. The pet did not present to the clinic. The owner treated with Aloe and Neosporin. 31 Oct 2018: Symptoms are still ongoing. No further medical information is expected.
01-Nov-2018	UAE; 18US073696; NY; U.S.A	**Species:** Canine **Breed:** Great Pyrenees **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 134.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	30-Jun-2018*	30-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 01 Nov 2018, the DVM reported the following event for Shankly, a 2 year old (born 04 Apr 2016), 134.0 pound, neutered male Great Pyrenees. Jun 2018*: He received an application of FRONTLINE PLUS DOG 89-132 LBS (L62201) one dose applied topically intrascapularly for the first time. He began experiencing heavy breathing, increased heart rate, pacing behaviors, and restlessness within minutes of application. He did not present to the veterinary clinic. No treatments were performed. He recovered within two days of symptom onset. He had a subsequent reaction to FRONTLINE PLUS on 30 Oct 2018 (see case 18US073717). No further medical information expected. Update 13 Nov 2018: After reviewing a subsequent event for this dog, the assessment was revised.
01-Nov-2018	UAE; 18US073713; MN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Sep-2018*	28-Oct-2018	3 Day(s)	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Cammie, 9 year old, 13 pound, spayed female, Mixed breed feline. 25 Sept 2018*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 25 Oct 2018: Another vial was applied. Fleas were found on the pet. 28 Oct 2018: The pet experienced increased itching. The pet did not present to the clinic and no treatment was provided. 1 Nov 2018: Symptoms are still ongoing. No further medical information is expected.
01-Nov-2018	UAE; 18US073717; NY; U.S.A	**Species:** Canine **Breed:** Great Pyrenees **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 134.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	30-Jun-2018*	30-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 01 Nov 2018, the DVM reported the following event for Shankly, a 2 year old (born 04 Apr 2016), 134.0 pound, neutered male Great Pyrenees. 30 Oct 2018: He received an application of FRONTLINE PLUS DOG 89-132 LBS (L62201) one dose applied topically intrascapularly. He began experiencing heavy breathing, increased heart rate, pacing behaviors, and restlessness within minutes of application. 01 Nov 2018: He presented to the veterinary clinic, but the pet was noted to have recovered prior to physical examination. No treatments were performed. He had a previous similar reaction to FRONTLINE PLUS in Jun 2018* (see case 18US073696). No further medical information expected.
01-Nov-2018	UAE; 18US073749; CT; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	01-Feb-2018*	08-Aug-2018*	1 Week(s)	D-B	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Daisy, a 8lbs, 13 year old, female spayed, Poodle Mix. 1 Aug 2018*: One vial of FRONTLINE PLUS DOG 5-22 LBS (F60313AL) was applied topically in one spot in between the pet's shoulder blades. 8 Aug 2018*: The pet began to experience symptoms seizure like activity that would last about 2-3 seconds and then the legs would

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					splay out from under the pet. 1 Sep 2018*: The pet was presented to the clinic the pet was not prescribed any medication or treatment. 1 Nov 2018: The pet's symptoms are ongoing. The pet has used FRONTLINE since Feb 2018 with no prior reactions. No further medical information expected.
01-Nov-2018	UAE; 18US073773; RI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Aug-2018	06-Aug-2018	N/A	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Angie, 5 year old, 10 pound, spayed female, Chihuahua canine. 6 Aug 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was applied between the shoulder blades. The dog experienced itching and began chewing at skin. 6 Sept 2018: The second application was applied. Symptoms persisted 6 Oct 2018: The third application was applied 1 Nov 2018: The flea issue is still ongoing. Symptoms are still ongoing. There are 2 other dogs in the household that received the product and are experiencing symptoms (see case 18US075042, 18US075048). No further medical information is expected.
01-Nov-2018	UAE; 18US073797; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	01-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Pumpkin, 1 year old, 6 pound, spayed female, Domestic shorthair feline. 1 Oct 2018: One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. No symptoms presented. 1 Nov 2018: Another vial was applied between the shoulder blade. The cat was able to lick the product and experienced hypersalivaiton. The pet did not present to the clinic and no treatment was provided. The cat recovered after a few minutes. No further medical information is expected.
01-Nov-2018	UAE; 18US073803; NY; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 23 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Sep-2018	19-Sep-2018*	N/A	D-D	Suspected Adverse Event: On 1 Nov 2018, the pet owner reported the following event for Bella, a 12 year old, 23 pound, spayed female, Miniature Poodle. 17 Sep 2018: Dog received first dose of FRONTLINE PLUS DOG 23-44 LBS (P61007AL) (FL) topically between the shoulder blades. 19 Sep 2018*: Dog began scratching excessively. Along with the scratching, the dog was chewing and constantly licking herself. 10 Oct 2018: The dog received a subsequent treatment of FL and the symptoms continued. The owner has given the dog dawn baths. The veterinary clinic has not been contacted. The dog has received FL before with no adverse events noted. The symptoms are ongoing at this time. No further medical information expected.
01-Nov-2018	UAE; 18US073864; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 150 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products	27-Sep-2018*	28-Oct-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for a 150 pound dog (signalment unknown). 27 Oct 2018: The dog was itching and had fleas and one vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was topically applied to the dog between the shoulder blades. On an unknown date the dog's itching increased with the presence of fleas. The owner explained that was the dog's second month of treatment, but declined the report. No further medical information

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						Route: Topical / Cutaneous **Was the product used ok?:** No (Low dose)					available.
01-Nov-2018	UAE; 18US073878; NE; U.S.A	**Species:** Feline **Breed:** Himalayan **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jun-2018	29-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for the Manny, 3 year old, 10 pound, male neutered, Himalayan. 29 Oct 2018: One vial FRONTLINE PLUS CATS (S40101BW) was applied topically in between the shoulder blades in one location. The pet began to experience symptoms of extreme itching after use of the product. The pet was not presented to the clinic. 1 Nov 2018: The pet's symptoms are ongoing. This pet has been on FRONTLINE PLUS CATS since 1 Jun 2018.There is an additional cat in the home using the product that is not experiencing any symptoms. No further medical information expected.
01-Nov-2018	UAE; 18US073882; NJ; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** - **Age:** 1.50 Year(s) **Weight:** 40 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Oct-2018*	30-Oct-2018	1 Day(s)	D-C	Suspected Adverse Event: On 1 November 2018, the owner reported the following event for Maui, 1.5 year old, 40 pounds, non-pregnant non-lactating, Australian Shepherd. 29 October 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R61704AL) was applied between the shoulder blades. 30 October 2018: The canine started vomiting and had lethary. Canine was presented to Vet and was diagnosed with a tick borne disease. Canine was hospitalized. Upon hospitalization canine was given fluids, antibiotics, probitics, and anti- nausea medication. 1 November 2018: Canine is still on medication but symptoms have improved. No further medical information is expected.
05-Nov-2018	UAE; 18US073934; NY; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 66 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	10-Oct-2018*	1 Day(s)	D-D	Suspect Adverse Event: On 2 Nov 2018 the owner reported the following event for a 66 pound dog (all other signalments unknown). 09 Oct Oct 2018: One vial of FRONTLINE PLUS FOR DOGS 45-88LBS (Lot unknown) was applied between the shoulder blades. Between 09 OCT 2017 and 31 OCT 2018: Owner took dog to vet because dog was itching but no fleas were seen. Vet said that dog has fleas. Dog has been on FRONTLINE since 01 JAN 2018* with no previous history of issues. There is one other pet, an 8 LB indoor/outdoor cat, in the household. No further medical information expected.
02-Nov-2018	UAE; 18US073948; OH; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 45 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	18-Oct-2015*	19-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 2 Nov 2018, the owner reported the following event for Scarlet, 10 year old, 45 pound, spayed female, Beagle canine. 18 Oct 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied between the shoulder blades. 19 Oct 2018*: The dog experienced itching and began chewing fur off. The pet did not present to the clinic and no treatment was provided. 2 Nov 2018: The flea issue and symptoms are still ongoing.

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						Was the product used ok?: Yes					The pet has received the product monthly since 18 Oct 2015* and no symptoms presented. No further medical information is expected.
02-Nov-2018	UAE; 18US073970; OK; U.S.A	**Species:** Canine **Breed:** Coonhound (Black And Tan) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 49 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014*	30-Oct-2018	1 Day(s)	D-B	Suspected Adverse Event: On 2 Nov 2018, the pet owner reported the following event for Sarah, 14 year old, 49 pound, spayed female, Coonhound(Black and Tan). 29 Oct 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS(F60620)(Invalid lot) was applied between the shoulder blades. 30 Oct 2018: The dog became lethargic and lost her appetite. 2 Nov 2018: The dog was taken to the Veterinarian. The doctor ran blood work and diagnosed the dog with acute Pancreatitis. The dog was given IV fluids, medications to go home, and special diet. The dog was prescribed Amoxicillin 500 mg to be given orally two times a day, Metronidazole 500 mg to be given orally two times a day, Gabapentin 500 mg to be given orally two times a day, and Cerenia 60 mg to be given orally once a day. The dog was also prescribed Hills Science Diet ID and Royal Canine Gastrointestinal Low Fat. The dog has been on FRONTLINE seasonally since she was a puppy with no reactions in the past.There is one other dog in the home on a small dose of FRONTLINE. The symptoms are ongoing. No further medical information is expected.
02-Nov-2018	UAE; 18US074060; FL; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 18 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Feb-2018*	19-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 2 Nov 2018 the pet owner reported the following event for Toby, 11 year old, 18 pound, neutered male, Pomeranian. 18 Oct 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S61017AL) was applied between the shoulder blades. 19 Oct 2018: The pet began to experience itching and no fleas were present on the pet. The dog has not presented the clinic and no treatment has been given. The pet has been receiving application of FRONTLINE monthly since *2 Feb 2018. No further medical information expected.
02-Nov-2018	UAE; 18US074185; GA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Month(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Clavamox; Drontal; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Nov-2018	02-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 2 Nov 2018 the pet owner reported the following event for Chase, 6 month old, 7 pound, neutered, Domestic Shorthair. 20 Oct 2018: Cat began taking Clavamox for a cold and Drontal for worms. 2 Nov 2018: 1 vial of FRONTLINE PLUS CATS (R41105AL) was applied between the shoulder blades at 12:30 pm. A few hours after the application the cat began to experience grogginess and would not open his eyes. Cat has not presented to the clinic and no treatment has been given. Symptoms are ongoing. No further medication is known.
05-Nov-2018	UAE; 18US074197; VA; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	02-Aug-2018*	03-Nov-2018	1 Day(s)	D-C	Suspected Adverse Event: On 5 Nov 2018, the owner reported the following event for Murphy, 1.5 year old, 50 pounds, neutered, Poodle mixed. 2 Nov 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R61704AL) was applied between the shoulder blades. An

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		Neutered **Age:** 1.50 Year(s) **Weight:** 50 lbs				**Other products used:** sentinel; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					unknown amount of Sentinel was given by an unknown route. 3 Nov 2018: The canine was running around, antsy, bloody from scratching, and extreme itching. Pet owner bathed canine in a unknown shampoo. 4 Nov 2018: The canine was lethargic, eyes became red and one ear was swollen. Canine presented to clinic. Clinic did bloodwork, flushed eyes, and used a dehydration pack on canine. Kidney values came back elevated. 5 Nov 2018: Canine is released back to owner, but symptoms have not gone away. Owner will be bringing canine back to clinic for further testing. Owner is requesting for on staff Vet to talk to clinic Vet. Pet has been on FRONTLINE PLUS since August 2018 No further medical information is expected.
05-Nov-2018	UAE; 18US074251; PA; U.S.A	**Species:** Canine **Breed:** Setter (Irish) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 77.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; Levothyroxine; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2014*	01-Jun-2017*	N/A	D-C	Suspected Adverse Event: On 5 Nov 2018, the pet owner reported the following event for Mork, a 10 year old (29 Jul 2008), 77.6 pound, neutered male, Irish Setter. 1 Jun 2017: He received HEARTGARD PLUS (272 MCG/227 MG) (lot and expiration unknown). 1 Jun 2017*: She began experiencing low grade renal issues. The issues were not treated, and the owner monitored animal. 20 Jun 2017*: He received a type of FRONTLINE (45-88 LBS) (lot and expiration unknown) 1 Oct 2018: He received his monthly chew of HEARTGARD PLUS. 20 Oct 2018*: He received a type of FRONTLINE (45-88 LBS) (lot and expiration unknown). 22 Oct 2018*: The renal issues developed into renal failure. 22 Oct 2018*: He was diagnosed at the veterinary clinic, and no treatments were given. His current condition is ongoing. He previously received HEARTGARD PLUS since 1 Oct 2014 with no previous adverse effects. He has also received FRONTLINE since 1 Aug 2014* but it is unknown if there was ever any other adverse events for this product before this. The animal also receives Levothyroxine, monthly but it is unknown when he started this. He also has a history of drug reactions to IMMITICIDE, see case number 18US074330. No further medical information expected.
05-Nov-2018	UAE; 18US074260; MD; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Oct-2018	30-Oct-2018*	1 Day(s)	D-C	Suspected Adverse Event: On 5 Nov 2018, the owner reported the following event for an 8 pound canine (all other signalments unknown). 29 Oct 2018: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) given to the dog topically (unknown site of application), by the owner. On an unknown date after the application, the dog had raised bumps like hives (unknown location). The dog had fleas prior to the application. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog's current status is unknown. No further medical information expected.
05-Nov-2018	UAE; 18US074282; MA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	04-Nov-2018	05-Nov-2018	1 Day(s)	D-C	Suspected Adverse Event: On 5 Nov 2018, the veterinary technician reported the following event for Sweetie Bell, 5 year old, 7.6 pound, spayed female, Domestic Shorthair feline. 4 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades.

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		Sex qualifier: Neutered **Age:** 5.00 Year(s) **Weight:** 7.6 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)					5 Nov 2018: The cat became very unsteady and started to tremble. The owner attempted to wash product off. The pet presented to the clinic. The attending veterinarian treated with subcutaneous fluids. The symptom are still ongoing. The cat has received the FRONTLINE PLUS FOR CATS on previous unknown dates and no symptoms presented. No further medical information is expected.
05-Nov-2018	UAE; 18US074333; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	01-Nov-2018	10 Day(s)	D-D	Suspected Adverse Event: On 5 Nov 2018, the owner reported the following event for Berry, 4 year old, 12 pound, neutered male, Domestic Shorthair feline. 22 Oct 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. 1 Nov 2018: The cat experienced hair loss and irritation around the neck. The site was beneath the pets collar. The pet did not present to the clinic and no treatment was provided. 5 Nov 2018: Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 2 other cats in the household that received the product and are asymptomatic. No further medical information is expected.
05-Nov-2018	UAE; 18US074439; CA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Nov-2018	05-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 5 Nov 2018, the pet owner reported the following event for Sambo, a 5 year old, approximately 16 pound, neutered male Domestic Longhair. 4 Nov 2018: The cat received one dose of FRONTLINE PLUS CATS (R41104AW) (FL),topically between the shoulder blades. 5 Nov 2018: The cat appeared to be lethargic, was acting lazy and the pet owner was able to see the tip of the cat's tongue, which is uncharacteristic. The cat was in good health prior to the application of FL. The veterinarian has been contacted. The symptoms are ongoing at this time.No further medical information expected.
05-Nov-2018	UAE; 18US074553; -; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	03-Nov-2018	03-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 5 Nov 2018 the following event was reported to Safety Call International (SCI) by the petowner for Nemo, an 8 year old (born *20 Oct 2010), 20 pound, neutered male Small crossbred canine. 3 Nov 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) topically to an unknown application site. The canine began sneezing within 30 minutes following application and recovered at an unknown time without treatment. No further medical information expected.
05-Nov-2018	UAE; 18US074584; OK; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair	2	2	0	**Product used:** FIPRONIL 10%/S	14-Oct-2018	14-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 5 Nov 2018, the owner reported the following event for 2 domestic shorthair (crossbreeds) (all other signalments unknown).

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		(Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					14 Oct 2018: The cats started on an unknown amount of FRONTLINE PLUS CATS (S40101BW) given to the cats topically (unknown site of application), by the owner. On an unknown date after the application, the cats had diarrhea and vomiting. 28 Oct 2018*: The cats recovered. It is unknown if the cats were seen by a veterinarian or given any treatment. No further medical information expected.
06-Nov-2018	UAE; 18US074624; WA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 68 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Treatment / vaccination program not respected)	26-Oct-2018	30-Oct-2018	2 Day(s)	D-D	Suspect Adverse Event: On 5 Nov 2018 the owner reported the following event for Kevin, 2.5 year old, 68 pound, neutered male, Labrador Retriever mix. 26 OCT 2018: One vial of FRONTLINE PLUS FOR DOGS 45-88LBS (S60403AX) was applied between the shoulder blades by reporter. 28 OCT2018: One vial of FRONTLINE PLUS FOR DOGS 45-88LBS (S60403AX) was applied between the shoulder blades by another family member who was unaware that FRONTLINE had been applied on 26 OCT 2018. 30 OCT 2018: Dog became lethargic. 3 NOV 2018: Dog continued to be lethargic and started to vomit (frequency unknown). Dog has been on FRONTLINE since 01 JUN 2016*. Dog has not experienced any previous reaction to FRONTLINE. No further medical information expected.
05-Nov-2018	UAE; 18US074731; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 13.00 Week(s) **Weight:** 3 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	02-Nov-2018*	02-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 2 Nov 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Sassy, a 3 pound, 13 week old, intact female Domestic Shorthair. 2 Nov 2018: The owner was applying FRONTLINE PLUS CATS (R41201AW) and believes cat got some in her mouth because she became aggitated and began hypersalivating. The current status of the cat is unknown. There were no further details in the report. No further information at this time. UPDATE 6 Nov 2018: Per pet owner, Sassy recovered 2 Nov 2018 after eating some canned food. No further medical information is expected.
06-Nov-2018	UAE; 18US074735; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 21 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-May-2018	06-Nov-2018*	20 Day(s)	D-D	Suspected Adverse Event: On 6 Nov 2018 the owner reported the following event for a feline, 21 pound (all other signalments unknown). 17 Oct 2018: 1 vial of FRONTLINE PLUS CATS(lot unknown) was applied to the cat. 6 Nov 2018*: The cats legs are irritated from scratching. Flea dirt and live fleas are present on the pet. Unknown if the pet has been seen by the Veterinarian . The pet has been on FRONTLINE since May, it is unknown if symptoms presented previously. The cat was having an issue with fleas prior to first application in May. No further medical information is expected.

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06-Nov-2018	UAE; 18US074743; -; U.S.A	**Species:** Feline **Breed:** Norwegian Forest Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Nov-2016*	04-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Nov 2018, the pet owner reported the following event for Trina, 10 year old, 15 pound, spayed female, Norwegian Forest Cat. 4 Nov 2018: 1 vial of FRONTLINE PLUS CATS(R40515AW) was applied to the cat between the shoulder blades.Shortly after the application the owner noticed large amount of hair balls are over the house, and a small pile of what may have been vomit or diarrhea. The cat is acting strange and not like her normal self. The Veterinarian has been contacted, but the cat has not been seen or treated. The cat was treated before with FRONTLINE. Treatment history is unknown. Unknown if reaction occured in the past. No further medical information is expected.
06-Nov-2018	UAE; 18US074773; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 13 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	22-Oct-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 6 Nov 2018, the owner reported the following event for the feline Boo, 11 year old, 13 pound, male neutered, Domestic Shorthair. 20 Oct 2018: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in between the shoulder blades in one location. The pets experienced symptoms of hair loss after use of the product. The pet was not presented to the clinic. 6 Nov 2018: The pet's symptoms are ongoing. This pet has been on FRONTLINE PLUS CATS of an on since 2017.The pet did experience a similar reaction back in 2017 but the owner could not give a defined date. No further medical information expected
07-Nov-2018	UAE; 18US074956; MI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Oct-2013*	30-Sep-2018	N/A	D-D	Suspected Adverse Event: On 7 Nov 2018, the owner reported the following event for Benny, a 6 year old, 85 pound, neutered male, Retriever (Labrador, Yellow)/American Bully. 2013*: The dog started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) given topically, between the shoulder blades, by the owner. The dog was treated monthly on a year round basis. 17 Sep 2018: The dog received another dose of the product. 30 Sep 2018: The owner started seeing fleas on the dog. The dog started having pruritus and alopecia (unknown location). 17 Oct 2018: The dog received another dose of the product. The pet still has fleas and the symptoms are ongoing. The dog was seen by the veterinarian on an unknown date and given Prednisone, a bath, and a flea dip. The owner is only seeing fleas in the home where the dog frequents. The dog goes outside for potty breaks in a fenced in yard. No further medical information expected.
31-Oct-2018	UAE; 18US075039; OK; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Oct-2010	12-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 31 Oct 2018, the owner reported the following event for Luke, 8 year old, 17 pound, neutered male, Feline (breed unknown). 5 Oct 2018: One vial of FRONTLINE PLUS CAT (S40301AX) was applied between the shoulder blades. 12 Oct 2018: Fleas were found on the pet. The cat experienced itching. The pet did not present to the clinic and no treatment was provided. 31 Oct 2018: Symptoms are still ongoing. The cat has received the product since 5 Oct 2010 and no symptoms presented. There is one other cat in the household that also received the product and experienced symptoms (see case 18US073473). No further medical information is expected.

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01-Nov-2018	UAE; 18US075042; RI; U.S.A	**Species:** Canine **Breed:** Papillon **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Aug-2018	06-Aug-2018	N/A	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Roxie, 6 year old, 10 pound, spayed female, Papillon canine. 6 Aug 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was applied between the shoulder blades. The dog experienced itching and began chewing at skin. The pet did not present to the clinic and no treatment was provided. 6 Sept 2018: The second application was applied. Symptoms persisted 6 Oct 2018: The third application was applied 1 Nov 2018: The flea issue is still ongoing. Symptoms are still ongoing. There are 2 other dogs in the household that received the product and are experiencing symptoms (see case 18US073773, 18US075048). No further medical information is expected.
01-Nov-2018	UAE; 18US075048; RI; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Aug-2018	08-Aug-2018	N/A	D-D	Suspected Adverse Event: On 1 Nov 2018, the owner reported the following event for Lola, 3 year old, 10 pound, spayed female, Shih Tzu canine. 6 Aug 2018: Fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was applied between the shoulder blades. The dog experienced itching and began chewing at skin. The pet did not present to the clinic and no treatment was provided. 6 Sept 2018: The second application was applied. Symptoms persisted 6 Oct 2018: The third application was applied 1 Nov 2018: The flea issue is still ongoing. Symptoms are still ongoing. There are 2 other dogs in the household that received the product and are experiencing symptoms (see case 18US073773, 18US075042). No further medical information is expected.
08-Nov-2018	UAE; 18US075222; NJ; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 18 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Nov-2012	07-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 8 Nov 2018, the owner reported the following event for Cindy, a 6 year, 18 pound, spayed female Shih Tzu. 7 Nov 2018: The owner removed one vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) from the package and when the package was opened the dog ran. The owner applied the product per label and immediately the dog would do a dance where she is seemingly uncomfortable for 10 minutes. The dog has been on FL all her life and had the same issue after each treatment. There is one other dog in the home who did not have a reaction. No further information available. UPDATE 14 Nov 2018: Please see 18US076397 for human exposure case with the same vial. No further information at this time.
08-Nov-2018	UAE; 18US075308; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	05-Nov-2018	06-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 8 November 2018, the owner reported the following event for Master a 1.5 year old, 10 pound, spayed female Domestic Longhair. 5 Nov 2018: One vial of FRONTLINE PLUS CATS (S40404AW) was applied to the cat per label for the first time. 6 Nov 2018: The cat developed skin irritation about 2-3 itches long at the application site. The cat has not been seen by the vet, but the owner did consult with the vet. There are 2 other cats in the home and only one other is treated with FL and did not have any issues. No further medical

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						Was the product used ok?: Yes					information available.
09-Nov-2018	UAE; 18US075518; NY; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** PO-oral with/on top of food **Was the product used ok?:** No (Route not indicated / recommended)	09-Nov-2018*	09-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 9 Nov 2018, the veterinary technician reported the following event for Kaylee, 4 year old, 30 pound, spayed female, Medium crossbred canine. 9 Nov 2018: One vial of FRONTLINE PLUS DOG (product unsubstantiated) was applied to the pets food. The pet ingested the product and experienced vomiting. The pet did not present to the clinic and no treatment was provided. The status of the pet is unknown. No further medical information is expected.
09-Nov-2018	UAE; 18US075590; -; U.S.A	**Species:** Canine **Breed:** Lhasa Apso **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN TABLETS 68 MCG; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Jan-2018*	N/A	D-C	Suspected Adverse Event: On 9 Nov 2018, the pet owner reported the following event for Unknown animal name, unknown animal age, 16 pound, unknown sex and reproductive status, Lhasa Apso. 1 Jan 2018*: The animal received HEARTGARD TABLETS (68 MCG/57 MG) (lot and expiration unknown) and FRONTLINE (Unsubstantiated)(lot and expiration unknown). 1 Jan 2018*: The animal began experiencing an unknown liver issue. It is unknown if animal was treated with anything. It's current condition is ongoing. It is unknown if the animal has any history of drug or vaccine reactions. No further medical information expected. Product quality: On 8 Nov 2018, the pet owner reported the following product quality issue with HEARTGARD TABLETS(68 MCG/57 MG). 1 Sep 2018*: The animal refused to accept tablet, after having accepted it before. Owner had to force it down animal's mouth to have the animal ingest it. Lot number and expiration unknown as owner discontinued use. No product is expected to be returned. No further information is expected.
12-Nov-2018	UAE; 18US075809; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 12.00 Year(s) **Weight:** Unknown	4	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 12 Nov 2018, the owner reported the following event for 2 cats between the ages of 12 and 15 years old (all other signalments unknown). 01 Jul 2018*: Fleas were noted on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades of 4 cats. Two of the cats experienced irritation at the application site an unknown amount of time later. The irritation resolved without treatment recovered in one week, but the site of irritation remains bald on both cats. One cat also has a bald spot, approximately 3 inches by 3 inches, on its thigh. Both cats have received the product since 1 Jan 2017* and no symptoms presented. There are two other cats in the household that received the product but did not experience symptoms. FRONTLINE was applied to all 4 cats in the household again in Oct 2018 without issue. No further medical information is expected.
12-Nov-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	10-Nov-2016*	12-Nov-2016*	N/A	D-D	Suspected Adverse Event: On 12 Nov 2018 the pet owner reported

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	18US075972; TX; U.S.A	**Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 8 lbs				FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the following event for Tiggy, 3 year old, 8 pound, neutered male, Domestic Longhair. *10 Nov 2016: 1 vial of FRONTLINE PLUS CATS (S40503AX) was applied between the shoulder blades. *12 Nov 2016: Cat began to experience thinning hair at the application site. Cat did not present to the clinic and no treatment was given. Pet owner continued to treat the pet monthly and symptom worsened. No further medical information expected.
13-Nov-2018	UAE; 18US076109; PA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 35 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Oct-2018	13-Oct-2018	1 Week(s)	D-D	Suspected Adverse Event: On 13 Nov 2018, the owner reported the following event for Maggie, a 3 year old, approximately 35 pound, spayed female, Beagle. 6 Oct 2018: The dog started on 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) given topically, between the shoulder blades, by the owner. The dog had fleas prior to the application and was scratching. Scratching decreased after the application. 13 Oct 2018: The dog started scratching again and was losing fur around the collar. The dog's skin was red. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
13-Nov-2018	UAE; 18US076123; PA; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 124 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Nov-2017*	12-Nov-2018	2 Day(s)	D-D	Suspected Adverse Event: On 13 Nov 2018, the owner reported the following event for Gage, a 1.5 year old, 124 pound, neutered male Bernese Mountain Dog. 10 Nov 2018: One vial of FRONTLINE PLUS DOG 89-132 (R60706AR) was topically applied per label to the dog. 12 Nov 2018: The dog developed a red raw 3x5 inch area that is oozing with pus. The dog will be seen by the vet for treatment. The dog has been on FL for at least a year without issues. The dog also takes HEARTGARD PLUS (272 MCG/227 MG) (lot and expiration date unknown) monthly for the past year without issues. The dog had an issue with NEGXARD (68 mg) (lot and expiration date unknown) see case 18US076407. There is one other treated dog in the home who did not have any issues. No further medical information available. UPDATE 20 Nov 2018: 13 Nov 2018: The pet presented to the vet clinic, the application site was shaved and cleaned. The dog was prescribed Silver Sulfadiazine, Animax, Apoquel and Simplicef. Symptoms are ongoing. Another dog in the home experienced symptoms after the use of the product see case 18US077436. No further medical information expected.
13-Nov-2018	UAE; 18US076279; IL; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Nov-2013*	06-Nov-2018*	5 Day(s)	D-D	Suspected Adverse Event: On 13 Nov 2018, the owner reported the following event for Bailey, a 7 year old, approximately 16 pound, neutered male, Bichon Frise. 2013*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) given topically, between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from Apr-Nov. 1 Nov 2018: The dog received another dose of the product. 6 Nov 2018*: The dog started having blisters at the application site

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						Cutaneous **Was the product used ok?:** Yes					and then over time the blisters burst and the site was bleeding. The dog was seen by a veterinarian on an unknown date and given Apoquel and Convenia injection. The symptoms are ongoing. No further medical information expected.
14-Nov-2018	UAE; 18US076308; NJ; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** F **Sex qualifier:** Neutered **Age:** 4.50 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Nov-2018	12-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 14 Nov 2018, the owner reported the following event for Sadie, a 4.5 year old , 12 pound , female spayed, Havanese. 11 Nov 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (S61412AL) was applied topically in one spot in between the pet's shoulder blades. 12 Nov 2018: The pet began to experience symptoms of vomiting, skin irritation all over the pet's body including the application site, and lethargy. The pet has not been presented to the clinic. 14 Nov 2018: The pet's symptoms are ongoing.No further medical information expected.
14-Nov-2018	UAE; 18US076499; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	24-May-2018*	07-Nov-2018*	0 Day(s)	D-D	Suspect Adverse Event: On 14 NOV 2018, the pet owner reported the following event for a 20 pound dog (all other signalments unknown). 24 OCT 2018*: One vial of FRONTLINE PLUS FOR DOGS (Unsubstantiated) (lot unknown) was applied to dog. 07 NOV 2018*: The dog started itching and scratching. Owner did see a flea on the dog. Owner has applied FRONTLINE (unknown strength, Lot unknown) on a monthly basis for the past five months*. No further medical information expected.
14-Nov-2018	UAE; 18US076541; MN; U.S.A	**Species:** Canine **Breed:** Great Dane **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 120 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	01-Oct-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 14 Nov 2018, the owner reported the following event for Ruby, 5 year old, 120 pound, spayed female, Great Dane canine. 1 Oct 2018*: One vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades. Unknown date: The dog experienced skin irritation localized at the application site. The pet did not present to the clinic and no treatment was provided. The status of the pet is unknown. No further medical information is expected.
15-Nov-2018	UAE; 18US076668; KS; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 80 - 85 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	11-May-2018	11-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 15 Nov 2018, the owner reported the following event for Shadow, an 80-85* lbs, 12 year old, female spayed, German Shepard. 11 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) was applied topically in between the pet's shoulder blades in one location. The pet began to experience symptoms of drooling and hyperventilating. The pet experienced the symptoms (less severe than the Nov Treatment) with each dose starting back at 1 May 2018, the owner continued treating monthly with this being the worst reaction. The pet was not presented to a clinic. 15 Nov 2018: The pet recovered after 4 days. No further medical

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						ok?: Yes					information expected.
16-Nov-2018	UAE; 18US076777; CA; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	30-Sep-2018	01-Oct-2018*	N/A	D-D	Suspected Adverse Event: On 15 Nov 2018, the owner reported the following event for Ellie, a 2.5 year old, 55 pound, spayed female Retriever Labrador. 30 September 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61007AL) (FL) was topically applied per label to the dog. On an unknown date the owner noticed the dog biting her legs without the presence of fleas. 30 Oct 2018: The dog was treated with another vial of FL and the biting continued without the presence of fleas. 12 Nov 2018:The dog was treated with another vial of FL and the biting continued without the presence of fleas. The dog has not been seen by the vet and the owner is monitoring her condition. No further medical information available.
19-Nov-2018	UAE; 18US076796; PA; U.S.A	**Species:** Canine **Breed:** Schnauzer **Sex:** M **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 22.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	01-Jan-2013*	17-Nov-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 18 Nov 2018, the owner reported the following event for Tumbleweed, a 22.6 pound, 6 year old*, intact male Schnauzer. 2013*: Tumbleweed started intermittently on the FRONTLINE PLUS 5-22 LBS (Lot Unknown). 15 Nov 2018: The owner noticed an unknown amount of fleas on Tumbleweed. 16 Nov 2018: The owner applied FRONTLINE topically on the back. An unknown amount of time later, Tumbleweed became pruritic and there were 4 fleas seen on him. His current status is ongoing. Tumbleweed has been on the product intermittently since 2013 without any issues. No further information at this time.
16-Nov-2018	UAE; 18US076865; MD; U.S.A	**Species:** Feline **Breed:** Rex **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 9.9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	14-Nov-2018*	14-Nov-2018	0 Day(s)	D-C	Suspected Adverse Event: On 16 Nov 2018, the vet reported the following event for Tornado, a 9.9 pound, 1 year old*, neutered male Rex. 14 Nov 2018: One dose of FRONTLINE PLUS CATS (Lot Unknown) was applied topically in the high shoulders region. Within 1 hour, Tornado began drooling and had a lack of appetite. 15 Nov 2018: Tornado became anorexic and lethargic. 16 Nov 2018: He was presented to the clinic for his symptoms. Upon presentation, the vet noticed a foul smell from his mouth. His hard palate seemed ulcerated and there was no papillae at the tip of his tongue. There are 2-3 month old* kittens in the home that also received FRONTLINE PLUS from the same lot that are not experiencing adverse events. It is unknown if these kittens have been vaccinated. The vet is suspicious of calicivirus, but a definitive diagnosis has not occurred at this time. No further information at this time. UPDATE 20 Dec 2018: 16 Nov 2018: Patient treated with buprenorphine and SC LRS fluids. 17 Nov 2018: Foul odor from mouth receding. Tongue lesion advancing, but much less red. Hard palate ulceration also improving. Feeding cat gruel of a/d by syringe. 18 Nov 2018: Went to ER clinic last night due to blood being seen

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											in mouth by pet owner. Treated with Convenia, sucralfate, mirtazapine. 19 Nov 2018: New epithelium seen growing over edge of tongue tip. Hard palate appears healed. Patient seems more active and much improved overall. Unknown where blood seen yesterday came from. 21 Nov 2018: Tongue looks 95 percent healed. Cat seems to have a yawning like behavior interpreted as discomfort. 27 Nov 2018: Tongue is healed. Seems to be less interested in food than normal and laying around a bit more though personality is good. 18 Dec 2018: Pet owner reports patient is normal. No further medical information is expected. UPDATE 21 Dec 2018: Per pet owner after second bath with Dawn soap, 16 Nov 2018* and 18 Nov 2018*, patient made a steady recovery.
16-Nov-2018	UAE; 18US076899; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 12 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Oct-2018	26-Oct-2018*	11 Day(s)	D-D	Suspected Adverse Event: On 16 Nov 2018 the pet owner reported the following event for Krypto, 2 year old, 12 pound, neutered male, Domestic Shorthair. 15 Oct 2018: 1 vial of FRONTLINE PLUS CATS (R40202BW) was applied between the shoulder blades. *26 Oct 2018: The cat experienced a scab at the application site. Pet did not present to the clinic and no treatment was given. Symptom is ongoing. No further medical information expected.
16-Nov-2018	UAE; 18US076920; MD; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Month(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Triheart Plus; Unknown Lyme Vaccine; Unknown Bordetella Vaccine; Unknown Rabies Vaccine; Unknown Flu Shot; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018*	01-Nov-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Nov 2018, the owner reported the following event for Teddy, an approximately 10 month old, approximately 20 pound, neutered male, unknown canine. 12 Sep 2018: The dog was given Triheart Plus, an unknown Lyme vaccine, and unknown Bordetella vaccine, and was de-wormed. 1 Oct 2018*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61013AL) given topically, between the shoulder blades, by the owner. Approximately 12 hours later, the dog became irritable, defiant, and not well behaved. The symptoms lasted approximately 2 weeks. 9 Oct 2018: The dog was given another dose of Triheart Plus and the unknown Bordetella vaccine. The dog also received an unknown Rabies vaccine. 14 Oct 2018*: The symptoms stopped. 30 Oct 2018: The dog received an unknown Flu shot. 1 Nov 2018*: The dog received another vial of FRONTLINE PLUS DOG 5-22 LBS. Approximately 12 hours later, the dog had the same symptoms. 14 Nov 2018: The symptoms stopped. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
16-Nov-2018	UAE; 18US076943; WI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair	4	1	0	**Product used:** FIPRONIL 10%/S	16-Oct-2018*	18-Oct-2018*	2 Day(s)	D-C	Suspected Adverse Event: On 16 Nov 2018 the attending vet reported the following event for Louis, 11 year old, 11 pound, neutered male, Domestic Shorthair. 16 Oct 2018: 1 vial of FRONTLINE PLUS CATS (UNKNOWN) was

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		(Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 11 lbs				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					applied between the shoulder blades. *18 Oct 2018 (within 1-2 days): Cat began to experience itching, hair loss and redness at the application site. 30 Oct 2018: The pet was presented to the clinic and was given an antibiotic injection. 16 Nov 2018: The cat presented to the clinic and is experiencing raised skin at the application site and symptoms have worsened. It is unknown if the pet has received prior applications of FRONTLINE. Three other cats in the home that received an application of the product and did not experience symptoms. No further information available at this time.
16-Nov-2018	UAE; 18US076995; NJ; U.S.A	**Species:** Feline **Breed:** American Shorthair **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 9.5 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	15-Nov-2015*	16-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 Nov 2018, the owner reported the following event for Oscar, a 12 year old, 9.5 pound, neutered male American Shorthair. 15 Nov 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was topically applied to the cat per label. 16 Nov 2018: The cat developed a bald spot at the site of application. The owner is monitoring the cat's condition. The cat has been on FL for several years without issues. There is one other cat in the home who did not have any issues. No further medical information available.
19-Nov-2018	UAE; 18US077144; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 13 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Nov-2018*	17-Nov-2018	0 Day(s)	D-D	Suspect Adverse Event: On 19 Nov 2018 a veterinary technician reported the following event for Mouser, a 5 year old, 13 pound, neutered male, domestic shorthair cat. 17 NOV 2018: One vial of FRONTLINE PLUS FOR CATS (Lot unknown) was applied between the shoulder blades. The cat began to vomit that evening. 18 NOV 2018: The cat continued to vomit. 19 NOV 2018: The cat did not vomit. He was presented to the veterinarian who administered subcutaneous fluids and a Cerenia injection. The cat is being sent home without any other medication. This was the cat's first dose of FRONTLINE in years. Previous dates of application are unknown. There is one other cat in this household. It was also treated with FRONTLINE on 17 NOV 2018, but that cat did not experience a reaction. Veterinary Technician will fax records. She is not sure where owner purchased the FRONTLINE since this clinic does not sell FRONTLINE PLUS. Veterinary Technician stated that the veterinarian does not believe that FRONTLINE caused the reaction but wanted to make the report since FRONTLINE was applied the same day as the reaction occurred. No further medical information expected.
19-Nov-2018	UAE; 18US077173; IN; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 24.00 Month(s) **Weight:** 47 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	01-Aug-2018*	01-Nov-2018*	0 Day(s)	D-D	Suspect Adverse Event: On 19 Nov 2018 the owner reported the following event for Daisy, a 2 year old, 47 pound, spayed female, Golden Retriever and Poodle mix. 01 AUG 2018*: One vial of FRONTLINE PLUS FOR DOGS 45-88 pounds (P60104AR) was applied between the shoulder blades. The dog's hair is cream color and turned a darker color at the application site when the FRONTLINE was applied. Even after the FRONTLINE dried completely, the hair at the application site remained darker that the original color. The reaction has been consistent for every montly application from 01 AUG 2018 to 01 NOV 2018. No further medical information expected.

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						ok?: Yes					
20-Nov-2018	UAE; 18US077358; CT; U.S.A	**Species:** Canine **Breed:** Welsh Corgi **Sex:** M **Sex qualifier:** - **Age:** 11.00 Year(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Oct-2013*	17-Oct-2018	1 Day(s)	D-D	Suspected Adverse Event: On 20 Nov 2018 the pet owner reported the following event for Basil, 11 year old, 28 pound, intact male, Welsh Corgi. 16 Oct 2018: 1 vial of FRONTLINE PLUS DOG 23-43 LBS (P66207AL) was applied between the shoulder blades. 17 Oct 2018: Pet experienced a burn mark at the application site. *31 Oct 2018: The dog recovered. The pet did not present to the clinic but treated pet owner by cleansing the application site and applying a collar. The dog has been receiving monthly applications of the product since *16 Oct 2013. FRONTLINE was applied to another dog in the home that did not experience symptoms. No further medical information expected.
20-Nov-2018	UAE; 18US077436; PA; U.S.A	**Species:** Canine **Breed:** Pyrenean Mountain Dog **Sex:** M **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 110 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	11-Jun-2018	16-Nov-2018	5 Day(s)	D-D	Suspected Adverse Event: On 20 Nov 2018 the pet owner reported the following event for Wentz , 8 month old, 110 pound, intact male, Pyrenean Mountain Dog. *28 Oct 2018: 1 chew of HEARTGARD PLUS (272 MCG/227 MG) (unknown lot and unknown patch was given. 11 Nov 2018: 1 vial of FRONTLINE PLUS DOG 89-132 LBS (R60706AR) was applied between the shoulder blades. 16 Nov 2018: The dog began to experience a bright red welt at the application site. 17 Nov 2018: Pet presented to the clinic and the application site was shaved and cleaned. The dog was prescribed Silver Sulfadiazine, Apoquel, and Simplicef. Symptoms are ongoing. The pet has been using FRONTLINE monthly since 11 Jun 2018 and has been receiving HEARTGARD monthly since *28 Jun 2018. Another dog in the home experienced symptoms after the use of the product, see case 18US076123. No further medical information expected.
20-Nov-2018	UAE; 18US077569; AZ; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** - **Age:** 5.00 Month(s) **Weight:** 43 - 44 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	19-Nov-2018	19-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Nov 2018, the owner reported the following event for Mic, 5 months old, 44 pounds*, Intact male , Retriever Labrador (Labrador mixed). 19 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. The canine started to have diarrhea at 7pm. 20 Nov 2018: The canine still is having diarrhea. Canine has not presented to clinic. No further medical information is expected.
20-Nov-2018	UAE; 18US077605; NJ; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	20-Nov-2018*	20-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 21 Nov 2018, the owner reported the following event for a Feline (all other signalments unknown). 20 Nov 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced foaming at the mouth. The pet did not present to the clinic. The status of the pet is unknown. No further medical information is expected.

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						Route: Topical / Cutaneous **Was the product used ok?:** Yes					
21-Nov-2018	UAE; 18US077647; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	1	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	10-Jan-2018*	9 Day(s)	D-A	Suspected Adverse Event: On 21 Nov 2018, a pet owner reported the following event for a canine of unknown signalment. Unknown date: The dog had liver problems and the owner used FRONTLINE TOP SPOT DOGS (product unsubstantiated)(lot unknown) for an unknown amount of time. Further information unavailable as the owner did not create report. No further medical information expected.
21-Nov-2018	UAE; 18US077725; PA; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Unknown **Age:** 10.00 Year(s) **Weight:** 72 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	02-Aug-2010*	02-Aug-2018*	0 Day(s)	D-C	Suspect Adverse Event: On 21 Nov 2018 the owner reported the following event for Dusty, a 10 year old, 72 pound, male, yellow Labrador Retriever (all other signalments unknown). 12 FEB 2018*: a 12 pack of FRONTLINE PLUS FOR DOGS 45-88 pounds (R61201AR) was purchased. One vial of FRONTLINE PLUS was applied between the shoulder blades. Owner continued to apply FRONTLINE PLUS on a monthly basis from 12 MARCH 2018* to 12 JULY 2018*. 02 Aug 2018: Owner applied one vial of FRONTLINE to the dog 3 weeks early because she was seeing lots of fleas on the dog. Owner was unable to recall when this bout of fleas began. Dog was chewing at the fleas severely enough to bloody his skin and ingest enough hair to make him vomit. Dog was losing weight and went from 80 pounds to 72 pounds. Owner presented dog to a veterinarian on an unknown date. The veterinarian prescribed unknown antibiotics and unknown anti-nausea medication. Owner discontinued the FRONTLINE and started using another method of flea and tick control on an unknown date. The dog began to recover on an unknown date. Owner has applied FRONTLINE to this dog on a consistently monthly basis year-round for 7 or 8 years*. No further medical information expected.
26-Nov-2018	UAE; 18US077812; VA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Lactating **Age:** 4.00 Month(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Sep-2018	25-Nov-2018	0 Day(s)	D-B	Suspected Adverse Event: On 26 Nov 2018, the owner reported the following event for Kikiyo, 4 months old, 5 pounds, Non-pregnant lactating, Feline (Savannah breed) . 25 Nov 2018: One vial of FRONTLINE PLUS CATS (R41118AW) was applied between the shoulder blades. One hour later owner noticed that feline had not moved from area where cat was when product was applied to the pet. When owner called feline, she was staggering and unable to walk in a straight line. Owner also noticed that the cat's third eyelids were completely covering both eyes. Upon picking feline up from the ground, feline was completely limp. Owner noted that the feline passed out in her arms. Pet presented to clinic. Feline temperature was low. Clinic did heat support and monitoring. Clinic also flushed feline system with fluids. 26 Nov 2018: The feline recovered. Pet had one previous dose of FRONTLINE in Sept. No further medical information is expected.
26-Nov-2018	UAE; 18US077841;	**Species:** Canine **Breed:** Schnauzer	2	1	0	**Product used:** FIPRONIL	21-Oct-2018	21-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 Nov 2018 the pet owner reported the following event for Khloe, 24 pound, 5 year old, spayed female,

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	LA; U.S.A	**Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 24 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					Schnauzer. 1 Oct 2018*: Fleas were seen on the dog. The dog was chewing and scratching at herself excessively. 21 Oct 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS(R60308) was applied to the dog between the shoulder blades for the first time this season. Itching and scratching increased. 4 Nov 2018*: Flea dirt was seen on the dog. Itching and scratching continues, the dog started to draw blood in some areas from biting at herself. 23 Nov 2018: The dog was taken to the Veterinarian for bloody scabs and excessive itching. The doctor diagnosed the dog with flea allergy dermatitis and gave an in injection of an unknown amount of Kenalog at an unknown area. No diagnostic testing was done. The doctor prescribed NEXGARD, the owner has not given it. Owner treats 6 pets, two dogs and 4 cats with unknown products seasonally. No further medical information is expected.
26-Nov-2018	UAE; 18US077846; IL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Oct-2018*	01-Nov-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 26 Nov 2018, the owner reported the following event for a cat (signalment unknown). * 1 Nov 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat. Following the application the cat became lethargic. *2 Nov 2018: The cat recovered. The owner declined the report. No further medical information available.
27-Nov-2018	UAE; 18US078217; VA; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 26.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2016*	12-Oct-2018	0 Day(s)	D-C	Suspected Adverse Event: On 27 Nov 2018, the owner reported the following event for Cuervo, a 26.2 lbs, 14 year old, male neutered, Pug. 12 Oct 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS was applied topically in one spot in between the pet's shoulder blades. The pet began to experience symptoms of Nystagmus and slight ataxia of the left side that last for 2-3 days after treatment. The pet has not been presented to the clinic. 20 Nov 2018: The pet has recovered. The pet has been on Frontline since Jan 2016*. The pet experienced the same symptoms back in Feb, Sep, and Oct of this year with each treatment and each cleared up after 2-3 days after treatment .No further medical information expected.
27-Nov-2018	UAE; 18US078240; CT; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Nov-2018*	02-Nov-2018*	0 Day(s)	D-D	Suspect Adverse Event: On 27 Nov 2018 the owner reported the following event for 3 cats (all other signalments unknown). 01 NOV 2018*: Each of the three cats received an application of one vial of FRONTLINE PLUS FOR CATS (lot number unknown) between the shoulder blades. On an unknown date the skin at the application sites where the FRONTLINE was applied became red and irritated and the hair thinned. The cats have not received treatment for the reaction. It is not known if these cats have received a previous application of FRONTLINE of if they have previously reacted to any drug. It is not known if these cats are related. Product return requested but not expected. No further medical information expected.

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						product used ok?: Yes					Update 06 Dec 2018: After further review, the patient screen information was completed. Update 07 Jan 2019: Lot number received and entered.
27-Nov-2018	UAE; 18US078264; CA; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 21 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** unknown anesthesia; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	19-Nov-2018	22-Nov-2018*	3 Day(s)*	D-B	Suspected Adverse Event: On 27 Nov 2018, the owner reported the following event for Jake, a 12 year old, 21 pound, neutered male Schnauzer (miniature). 13 Nov 2018: Jake had a small growth surgically removed, receiving unknown anesthesia. It is unknown if any other medications were received with the surgery. 19 Nov 2018: A small portion of one vial of FRONTLINE PLUS DOG 45-88 LBS (S60620AR) was applied to the skin between the shoulder blades for the first time. *22 Nov 2018: The dog was lethargic and not eating. *25 Nov 2018: The dog started to developed diarrhea, vomiting, loss of appetite, and increased thirst. 27 Nov 2018: The dog was taken to the emergency vet and diagnosed with Pancreatitis. The dog will be hospitalized and placed on fluid therapy, plasma, a withheld diet, and unknown antibiotics. There is one other treated dog in the home who also had symptoms and diagnosed with pancreatitis, see case 18US078540 and one other treated dog who did not have any issues. No further medical information available.
27-Nov-2018	UAE; 18US078352; MD; U.S.A	**Species:** Feline **Breed:** Norwegian Forest Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 8 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014	05-Sep-2018*	N/A	D-D	Suspected Adverse Event: On 27 Nov 2018 the pet owner reported the following event for BooBoo, 4 year old, 8 pound, spayed female, Norwegian Forest Cat. 1 Sep 2018*: 1 vial of FRONTLINE PLUS CATS (S40603AW) was applied to the cat between the shoulder blades. 5 Sep 2018*: The pet owner noticed scabs on the cats back and a that a rash was developing around the cats eyes and ears. 1 Oct 2018: 1 vial of FRONTLINE PLUS FOR CATS(S40603AW) was applied to the cat between the shoulder blades. The rash around the cats eyes and ears increased, and the scabs on the cats back were still visible. 6 Oct 2018: The cat was seen by the Veterinarian, no diagnostics were done. The doctor gave the cat an unknown steroid injection and an unknown antibiotic injection. The doctor prescribed Profender. The doctor diagnosed the cat with flea allergy dermatitis. The cat has been on FRONTLINE for years with no reaction in the past. There is one other cat in the home who is treated with FRONTLINE; the cat is not experiencing symptoms. No further medical information is expected.
28-Nov-2018	UAE; 18US078520; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 7.000 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	31-Oct-2018	28-Nov-2018	4 Week(s)	D-D	Suspected Adverse Event: On 28 Nov 2018, the owner reported the following event for Snowflake a 7 year old*, 7 pound*, female spayed, Domestic Shorthair. 31 Oct 2018*: One vial FRONTLINE PLUS CATS (Lot Unknown) was applied topically in one location between the shoulder blades. 28 Nov 2018: The owner noticed some skin irritation at the application site that had scabbed over. The pet was not presented to the clinic. The pet symptoms are ongoing. There are 2 other cats in the home using the FRONTLINE PLUS CATS as well with no symptoms notes. No further medical information expected.

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28-Nov-2018	UAE; 18US078534; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Nov-2018*	02-Nov-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 28 Nov 2018, the owner reported the following event for a dog (signalment unknown). *1 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied to the dog. On an unknown date the dog developed skin irritation at the application site. No further medical information is available.
27-Nov-2018	UAE; 18US078540; CA; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 32 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	19-Nov-2018	22-Nov-2018*	3 Day(s)	D-B	Suspected Adverse Event: On 27 Nov 2018, the owner reported the following event for Sasha, (age unknown) a 21 pound, spayed female mixed breed dog. 19 Nov 2018: A small portion of one vial of FRONTLINE PLUS DOG 45-88 LBS (S60620AR) was applied to the skin between the shoulder blades for the first time. *22 Nov 2018: The dog developed diarrhea, vomiting, and blood in stool. 23 Nov 2018: The dog was taken to the emergency vet and diagnosed with Pancreatitis. The dog was hospitalized and placed on IV fluids, unknown injections, and unknown antibiotics. 25 Nov 2018: Sasha recovered and was sent home. There is one other treated dog in the home who also had symptoms and diagnosed with pancreatitis, see case 18US078264 and one other treated dog who did not have any issues. No further medical information available.
28-Nov-2018	UAE; 18US078589; OR; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** - **Age:** 7.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2015*	02-Nov-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 28 Nov 2018 , the owner reported the following event for Abby, 7 year old, 11 pounds*, non-pregnant non lactating, Domestic Mediumhair. 1 Nov 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. 2 Nov 2018*: The cat starting severely itching. Owner stated that cat started to develop scabs from scratching herself. No fleas were seen on cat. Cat did not present to clinic 27 Nov 2018*: Cat has recovered and is now on another product. Cat has been on FRONTLINE for years but owner only uses it seasonally. No further medical information is expected.
29-Nov-2018	UAE; 18US078695; NY; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 55 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	01-Nov-2010*	25-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 29 Nov 2018, the owner reported the following event for Coco, 12 year old, 55 pound, neutered male, Large crossbred canine. 25 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60403AX) was applied between the shoulder blades. After 1 hour the dog experienced vomiting. The pet did not present to the clinic and no treatment was provided. 27 Nov 2018: The dog recovered. The dog has received the product since 1 Nov 2010* and no symptoms presented.There are 3 other dogs in the household that also received the product, 1 of those dogs also experienced

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						product used ok?: Yes					symptoms (see case 18US078770). No further medical information is expected. Update 12 Dec 2018: After further review, the reason for assessment was revised.
29-Nov-2018	UAE; 18US078770; NY; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 62 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Nov-2010*	25-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 29 Nov 2018, the owner reported the following event for Norman, 10 year old, 62 pound, neutered male, Large crossbred canine. 25 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60403AX) was applied between the shoulder blades. After 1 hour the dog experienced vomiting. The pet did not present to the clinic and no treatment was provided. 27 Nov 2018: The dog recovered. The dog has received the product monthly since 1 Nov 2010* and no symptoms presented. There are 3 other dogs in the household that also received the product, 1 of those dogs also experienced symptoms (see case 18US078695). No further medical information is expected.
29-Nov-2018	UAE; 18US078799; NY; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 6 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Nov-2018*	26-Nov-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 29 Nov 2018 the pet owner reported the following event for Lincoln, 1 year old, *6 pound, neutered male, Domestic Longhair. *25 Nov 2018: 1 vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. *26 Nov 2018: The cat did not want to eat or drink and began to experience lethargy. 27 Nov 2018: The pet presented to the clinic. His temperature was checked and was normal. He was given fluids. Symptoms are ongoing and no treatment has been given. The pet has a history of reacting to Advantage. Another cat in the home received an application of FRONTLINE and did not experience symptoms. No further medical information is known.
29-Nov-2018	UAE; 18US078895; NY; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 21 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2014	24-Oct-2018	0 Day(s)	D-A	Suspected Adverse Event: On 29 Nov 2018, the owner reported the following event for Riley, a 21 lb, 14 year old, male neutered, Shih Tzu. 24 Oct 2018: One of a vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically in one spot in between the pet's shoulder blades. The pet began to experience symptoms of vomiting and diarrhea. 25 Oct 2018*: The pet was presented to a clinic and was euthanized at the clinic at an unknown date. The pet has been using FRONTLINE PLUS DOG 5-22 LBS since 2014*. There is 1 other dog within the home that were dosed with the same product and was exhibiting similar symptoms see case 18US078905.No further medical information expected.
29-Nov-2018	UAE; 18US078905; NY; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 3.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	01-Jan-2014	24-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 29 Nov 2018, the owner reported the following event for Zoey, a 3.5 lb, 4 year old, female spayed, YorkshireTerrier. 24 Oct 2018*: ¾ of a vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically in one spot in between the pet's shoulder blades. The pet began to experience symptoms of vomiting and diarrhea. The pet was presented to a clinic and prescribed Metronidazole 1 tablet twice daily and Imodium AD 1/2 tablet twice daily. The pet recovered at an unknown time. 24 Nov 2018: ¾ of a vial of FRONTLINE PLUS DOG 5-22 LBS

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						Was the product used ok?: No (Treatment / vaccination program not respected)					was applied topically in one spot in between the pet's shoulder blades. The pet began to experience symptoms of vomiting and diarrhea. The pet was given the previously prescribed Metronidazole 1 tablet twice daily and Imodium AD 1/2 tablet twice daily. 29 Nov 2018: The pet has recovered. The pet has been using FRONTLINE PLUS DOG 5-22 LBS since 2014*. There is 1 other dog within the home that were dosed with the same product and was exhibiting similar symptoms and was euthanized see case 18US078895.No further medical information expected.
30-Nov-2018	UAE; 18US078971; FL; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 45 - 50 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Nov-2018	27-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 30 Nov 2018, the owner reported the following event for Amora, a 45-50 lbs.*, 7 year old, female spayed, Retriever Mix. 26 Nov 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60913AR) was applied topically in between the pet's shoulder blades by the owner. 27 Nov 2018: The pet began to experience symptoms of vomiting on and off throughout the say. The pet was not presented to a clinic. 30 Nov 2018: The pet's symptoms are ongoing. There is another dog within the home also using FRONTLINE and is not experiencing any symptoms. No further medical information expected.
30-Nov-2018	UAE; 18US078978; OR; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	27-Nov-2018	28-Nov-2018	1 Day(s)	D-D	Suspected Adverse Event: On 30 Nov 2018, the pet owner reported the following event for Snoozer, 4 year old,25 pound, male neutered Schnauzer (Miniature). 26 Nov 2018*: The dog was scratching his chest. 27 Nov 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R62420BL) was applied to the do between the shoulder blades after fleas were seen on the dog. 28 Nov 2018:The itching and scratching increased. The dog started biting his feet and other parts of his body. 29 Nov 2018: The dog was unable to sleep and was up biting and scratching himself for 3 hours. No fleas seen on the dog. The dog has not been seen by the Veterinarian, and no treatments have been done. The symptoms are ongoing. No further medical information is expected.
30-Nov-2018	UAE; 18US078981; TX; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Sep-2018	15-Nov-2018*	16 Day(s)	D-D	Suspected Adverse Event: On the 30 Nov 2018 reported the following event for Skittles, 4 year old, 11 pound, intact, Shih Tzu. 30 Oct 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62412AL) was applied between the shoulder blades. *15 Nov 2018: Pet began to experience increased itching and fleas were present on the pet. The dog did not present to the clinic and no treatment was given. The symptom is still ongong. The pet has been on FRONTLINE since 30 Sep 2018. There is another dog in the home that is on a higher weight dose of the product and is not experiencing symptoms. No further medical information expected.
30-Nov-2018	UAE; 18US079051; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown)	1	1	0	**Product used:** FIPRONIL 10%/S	30-Nov-2018	30-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Nov 2018, the owner reported the following event for a cat (signalment unknown). 30 Nov 2018: One vial of FRONTLINE PLUS CATS (lot unknown)

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		Sex: U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					was topically applied to the cat. Immediately the cat started to drool for one minute and then recovered. The owner declined the report, no further medical information available.
30-Nov-2018	UAE; 18US079060; MI; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	01-Oct-2018*	N/A	D-D	Suspected Adverse Event: On 30 Nov 2018, the pet owner reported the following event for for two Golden Retrievers of otherwise unknown signalment. Jan 2018*: Both dogs began receiving HEARTGARD PLUS (Unbsubstantiated)(lot and expiration unknown) and FRONTLINE PLUS (Unsubstantiated) (Lot unknown)monthly. 1 Oct 2018*: Both dogs began experiencing pruritus. No fleas or ticks were observed. The dogs did not present to the veterinary clinic and no treatments were performed. Both dogs continued on monthly FRONTLINE PLUS and HEARTGARD PLUS. Their current condition is recovered. No further medical information expected.
30-Nov-2018	UAE; 18US079063; MD; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	02-Nov-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 30 Nov 2018, the pet owner reported the following event for Rocky, 1.5 year old, 60 pound, male neutered, Mixed Breeds/various. 1 Oct 2018: 1 vial of FRONTLINE PLUS DOG 45-88 (S60510AX) was applied to the dog between the shoulder blades. 2 Oct 2018: The dog had hair loss and skin irritation at the application site. The owner treated with Benadryl. 12 Oct 2018*: The reaction stopped. 1 Nov 2018: 1 vial of FRONTLINE PLUS DOG 45-88 LBS(S60510AX) was applied to the dog. 2 Nov 2018*: The dog had hair loss and skin irritation at the application site. Owner treated with unknown amount of Benadryl. 12 Nov 2018*: The reaction stopped. 30 Nov 2018: The dog was seen by the Veterinarian. Owner was advised to discontinue FRONTLINE PLUS and the dog was started on NEXGARD. No further medical information is expected.
03-Dec-2018	UAE; 18US079178; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Dec-2018*	01-Dec-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 3 Dec 2018, the owner reported the following event for a cat (signalment unknown) *1 Dec 2018; One vial of FRONTLINE PLUS CATS (S40702AW) was applied to the cat. On an unknown date, the cat developed bald spots (site unknown) and skin irritation. No further information available.

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						Cutaneous **Was the product used ok?:** Unknown to Company					
03-Dec-2018	UAE; 18US079267; KS; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Nov-2018	02-Dec-2018	1 Day(s)	D-D	Suspected Adverse Event: On 3 Dec 2018, the owner reported the following event for Female, Yorkshire Terrier (all other signalments unknown). 1 Dec 2018: One vial of FRONTLINE PLUS DOG (product unsubstantiated)(lot unknown) was applied between the shoulder blades. 2 Dec 2018: The canine started itching under the right front leg, close to the 'elbow' regions. Canine did not present to clinic. 3 Dec 2018: Pet owner gave an unknown amount of benadryl orally to canine and reaction stop shortly after administration. Pet has been on FRONTLINE PLUS DOGS since Nov 2018 No further medical information is expected.
04-Dec-2018	UAE; 18US079484; FL; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 76 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Interceptor; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	02-Dec-2018	6 Day(s)	D-C	Suspected Adverse Event: On 4 Dec 2018, the pet owner reported the following event for Miss Pink, 4 year old, 76 pound, spayed female, Retriever(Golden). 26 Nov 2018*: 1 vial of FRONTLINE PLUS DOG 45-88(lot and expiration unknown) was applied to the dog between the shoulder blades. 2 Dec 2018: The dog started to scratch and a large hot spot was visible on the pets hip. The owner clipped and cleaned the hotspot with unknown products. The dog has reacted to FRONTLINE in the past at an unknown date this year with a similar reaction. The dog was started on Trifexis and had a reaction similar to the reaction with the FRONTLINE. The was dog was not given any flea and tick medications for 3 months. The dog takes Interceptor monthly. The Veterinarian has not been contacted. There is one other dog in the home treated with FRONTLINE with no adverse events. No further medical information is expected.
04-Dec-2018	UAE; 18US079537; WA; U.S.A	**Species:** Canine **Breed:** Great Dane **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 125 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Nov-2018	09-Nov-2018	1 Day(s)	D-C	Suspected Adverse Event: On 4 Dec 2018, the owner reported the following event for Jasper, a 125 lbs., 2 year old, male neutered, Great Dane. 8 Nov 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (P62301AR) was applied topically in between the pet's shoulder blades by the owner. 9 Nov 2018: The pet began to experience symptoms hive like bumps from the application site down the neck and chest area. The pet was not presented to a clinic. 1 Dec 2018*: The pet's symptoms have stopped. No further medical information expected.
05-Dec-2018	UAE; 18US079837; ME; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	12-Jun-2016*	19-Jul-2018*	1 Week(s)	D-B	Suspected Adverse Event: On 5 Dec 2018, the pet owner reported the following event for Piper, 4 year old, 70 pound, spayed female Retriever (Labrador,Black) 12 Jul 2018: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied to the dog between the shoulder blades. 19 Jul 2018*: The dog had urinary incontinence.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 4.00 Year(s) **Weight:** 70 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					26 Jul 2018*: The dog had 1 seizure. The dog has been on FRONTLINE since 2016. The dog has a history of having similar reactions since Jun 2015*. No further medical information is expected.
05-Dec-2018	UAE; 18US079854; TX; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Nov-2018	30-Nov-2018	4 Day(s)	D-D	Suspected Adverse Event: On 5 Dec 2018, the owner reported the following event for Jedda, 2 year old, neutered male, Domestic Longhair Feline (weight unknown). 26 Nov 2018: One vial of FRONTLINE PLUS CATS (R41118AW) was applied between the shoulder blades. 30 Nov 2018: The cat experienced hair loss localized at the application site. The hair around the site appears to be dry and brittle. The pet did not present to the clinic and no treatment was provided. 6 Dec 2018: Symptoms are still ongoing. No further medical information is expected.
06-Dec-2018	UAE; 18US079924; FL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	05-Dec-2018	05-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Dec 2018, the owner reported the following event for a female, 2 pounds* feline (all other signalments unknown). 5 Dec 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The feline became lethargic after application of product. 6 Dec 2018: Owner will have feline seen by the Vet. Symptoms are ongoing. No further medical information is expected.
06-Dec-2018	UAE; 18US080061; MD; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 9.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	04-Dec-2018*	05-Dec-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 6 Dec 2018, the veterinary technician reported the following event for Bella, an approximately 4 year old, 9.6 pound, spayed female, Domestic Shorthair (Crossbreed). 4 Dec 2018*: 1 vial of FRONTLINE (lot unknown, product unsubstantiated) was given to the cat topically, (unknown site of application), by the owner. It is unknown if this was the first application. 5 Dec 2018*: The cat had fur loss at the application site. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There are 3 other cats in the home but it is unknown if they were treated or having symptoms. No further medical information expected.
06-Dec-2018	UAE; 18US080134; TX; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:**	01-Jun-2018*	04-Dec-2018*	2 Day(s)	D-C	Suspect Adverse Event: On 06 Dec 2018 the pet owner reported the following event for Hayes, a 14 month old, 72 pound, neutered male German Shepherd. 02 Dec 2018: 1 vial from a 3 pack of FRONTLINE PLUS DOG 45-88 LBS (lot number unknown) was applied between Hayes' shoulder blades. The lot number is unavailable since owner was unable to locate the packaging. He will call back if he finds it. After

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		Month(s) **Weight:** 72 lbs				IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** PO-Oral **Was the product used ok?:** Yes					FRONTLINE was applied on an unrecalled date, Hayes started acting irritated and kept trying to reach the application site. Today owner touched the site and a clump of hair came out. There is a 2.5 inch by 1.5 inch chemical burn at the application site. Owner called the vet who instructed him to bathe the dog. After the bath, the sore did not dry. It wept and the fluid soaked into the surrounding hair causing the hair to harden. The owner plans to call the vet tomorrow if the sore does not appear to be healing. The pet owner has applied FRONTLINE to Hayes on a monthly basis since he got the dog 6 months ago*. Hayes takes HEARTGARD PLUS (272MCG/227MG) (lot number and expiration date unknown) on a monthly basis but is not on any other medication. Hayes does not have a history of drug reactions or skin conditions. No further medical information expected.
07-Dec-2018	UAE; 18US080175; GA; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 35 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Aug-2018	03-Dec-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 7 Dec 2018, the owner reported the following event for Shadow, 8 month old, 35 pound, Intact female, Medium Crossbred canine. 30 Nov 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (S60801AL) was applied between the shoulder blades. 3 Dec 2018*: The dog experienced pruritus and hair loss at the application site. The pet did not present to the clinic. The owner treated with Vaseline. 7 Dec 2018: The symptoms are still ongoing. The dog has received the product since 30 Aug 2018 and no symptoms presented. No further medical information is expected.
07-Dec-2018	UAE; 18US080266; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** - **Age:** 4.00 Month(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Nov-2018	16-Nov-2018	0 Day(s)	D-D	Suspected Adverse Event: On 7 Dec 2018 the pet owner reported the following event for Nyla, 4 month old, intact female, Feline (unknown). All other signalments unknown. 16 Nov 2018: 1 vial of FRONTLINE PLUS CATS(S40404AW) was applied to the cat between the shoulder blades. Shortly after application the cat started to hypersalivate and foam at the mouth mildly. The cat recovered. No further medical information is expected.
07-Dec-2018	UAE; 18US080301; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 8 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	25-Oct-2018*	25-Nov-2018*	8 Day(s)	D-D	Suspected Adverse Event: On 7 Dec 2018, the pet owner reported the following event for an 8 pound feline (unknown) all other signalments unknown. 17 Nov 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat at an unknown area. 25 Nov 2018*: The cat experienced hair loss at an unknown area. The cat has been on FRONTLINE since late Oct. 2018*. No further medical information is expected.
11-Dec-2018	UAE; 18US080734;	**Species:** Canine **Breed:** Shih Tzu	1	1	0	**Product used:** FIPRONIL	01-Dec-2016	11-Nov-2018	10 Day(s)	D-D	Suspected Adverse Event: On 11 Dec 2018, the owner reported the following event for Gabriella, 2 year old, 7 pound, spayed

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	OH; U.S.A	**Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 7 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					female, Shih Tzu canine. 1 Nov 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. 11 Nov 2018: Fleas were found on the pet. The dog experienced pruritus.The pet did not present to the clinic and no treatment was provided. 10 Dec 2018: One chew of HEARTGARD (68MCG/57 MG) (6BC0467, Aug 2019) was adminstered orally for the first time. 11 Dec 2018: Symptoms are still ongoing. The dog has received the product monthly since 1 Dec 2016 and no symptoms presented. No further medical information is expected.
12-Dec-2018	UAE; 18US081088; PA; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Jul-2018*	27-Aug-2018*	10 Day(s)	D-D	Suspected Adverse Event: On 12 Dec 2018, the owner reported the following event for Diamond, a 10 year old, 15 pound, spayed female Maine Coon Cat. 17 Aug 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (R41201AW) (FL) was applied between the shoulder blades and down the back to the cat. On an unknown date the cat started to develop skin irritation and scabs on her rear end, shoulders, and neck. The cat's rear end is sensitive to touch. The cat started FL in July and continued the treatment with ongoing symptoms until the last dose given 17 Oct 2018. The cat has not been seen by the vet and the owner is monitoring her ongoing condition. There are three other treated cats who also had symptoms see cases 18US081107, 18US081105, and 18US081104. No further medical information available.
12-Dec-2018	UAE; 18US081104; PA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 19 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Jul-2018*	27-Aug-2018*	10 Day(s)	D-D	Suspected Adverse Event: On 12 Dec 2018, the owner reported the following event for Mickey Mouse, a 10 year old, 19 pound, neutered male Domestic Mediumhair. 17 Aug 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (R41201AW) (FL) was applied between the shoulder blades and down the back to the cat. On an unknown date the cat started to develop skin irritation and scabs on his rear end, shoulders, and neck. The cat's rear end is senstive to touch. The cat started FL in July and continued the treatment with ongoing symptoms until the last dose given 17 Oct 2018. The cat has not been seen by the vet and the owner is monitoring her ongoing condition. There are three other treated cats who also had symptom see cases 18US081107, 18US081105, and 18US081104.. No further medical information available.
12-Dec-2018	UAE; 18US081105; PA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	17-Jul-2018*	27-Aug-2018*	10 Day(s)	D-D	Suspected Adverse Event: On 12 Dec 2018, the owner reported the following event for Bella, a 12 year old, 16 pound, spayed female Domestic Medium hair. 17 Aug 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (R41201AW) (FL) was applied between the shoulder blades and down the back to the cat.

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		Neutered **Age:** 12.00 Year(s) **Weight:** 16 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					On an unknown date the cat started to develop rawness on the right side of her neck and the cat's rear end is sensitive to touch. Bella has hair loss on her belly and right side of her neck. The cat started FL in July and continued the treatment with ongoing symptoms until the last dose given 17 Oct 2018 The cat has not been seen by the vet and the owner is monitoring her ongoing condition. There are three other treated cats who also had symptoms see case 18US081107, 18US081104, and 18US081088. No further medical information available.
12-Dec-2018	UAE; 18US081107; PA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-Jul-2018*	27-Aug-2018*	10 Day(s)	D-C	Suspected Adverse Event: On 12 Dec 2018, the owner reported the following event for Winston, a 15 year old, 20 pound, neutered male Domestic Mediumhair. 17 Aug 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (R41201AW) (FL) was applied between the shoulder blades and down the back to the cat. On an unknown date the cat started to develop skin irritation and scabs on his rear end, shoulders, and neck. The cat's rear end is sensitive to touch. The cat also developed a UTI around the end of summer 2018. The cat was taken to the vet and given two rounds of an unknown antibiotic and recovered in approximately 20 days. The cat started FL in July and continued the treatment with ongoing symptoms until the last dose given 17 Oct 2018. The cat has not been seen by the vet in regards to ongoing symptoms and the owner is monitoring his condition. There are three other treated cats who also had symptoms, see case 18US081105, 18US081088, and 18US081104. No further medical information available.
13-Dec-2018	UAE; 18US081215; CT; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 8 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	16-Oct-2018	17-Oct-2018	1 Day(s)	D-C	Suspected Adverse Event: On 13 Dec 2018, the owner reported the following event for Ella, an 8 lbs., 8 -9 year old*, female spayed, Domestic Shorthair. 16 Oct 2018: One vial of FRONTLINE PLUS CATS (R40311AW) was applied topically down the pets back by the owner. 17 Oct 2018: The pet began to experience bumps down the pet's back where the product was applied. The pet was presented to the clinic where Cyproheptadine HCl was prescribed. 13 Dec 2018: The pet's symptoms are ongoing. There are 2 other cats in the home that are also using the product and are not experiencing any symptoms. The owner did state that the pets and the home were infested with fleas. No further medical information expected.
13-Dec-2018	UAE; 18US081244; CA; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 26 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown allergy medication;	17-Dec-2008*	18-Dec-2017	0 Day(s)	D-B	Suspected Adverse Event: On 13 Dec 2018, the pet owner reported the following event for Princess, a 9 year old, approximately 26 pound, spayed female, Cocker Spaniel/Dachshund Mix. 17 Dec 2008*: Dog began receiving doses of FRONTLINE monthly. 17 Dec 2017: Dog received 1 dose of FRONTLINE PLUS DOG 23-44 LBS (P62207) (FL), topically between the shoulder blades and at the haunches. The dog also received an unknown OTC allergy medication.

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						Route: Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					18 Dec 2017: Dog appeared to be lethargic. 19 Dec 2017: The owner observed that the dog was vey wobbly, very lethargic. The owner also stated that the dog's eyes were drooping and rolling in the back of her head. During a walk on the same day, the dog collapsed and had to be carried back into the home. The veterinary clinic was contacted. It was also observed that the dog had a burn at her haunches where the product was applied. The dog was bathed several times with dawn following consult with the vet. 20 Dec 2017: Dog began to show signs of improvement. 22 Dec 2017: Dog fully recovered. The dog is in good health outside of the symptoms noted. No further medical information expected.
12-Dec-2018	UAE; 18US081250; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 7.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Dec-2018*	10-Dec-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 12 Dec 2018, the following adverse event was reported to Safety Call International (SCI) by the pet owner for Rocky, a 7 year old, 17 pound, intact male, Domestic Shorthair. 10 Dec 2018: The cat received an unknown volume of FRONTLINE PLUS CATS (S40301AX) topically in an unknown location. The cat acted sedated post application. The exact time of onset of the symptom is unknown. No treatment was administered at the time of the report to SCI. Please see case 18US080937 for a product complaint and human exposure event that occurred with the same affected pipette . No further information is expected.
13-Dec-2018	UAE; 18US081274; IL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 8.00 Month(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2018*	18-Apr-2018*	N/A	D-D	Suspected Adverse Event: On 13 Dec 2018, the pet owner reported the following event for Felicity, an 8 month old, 7 pound, intact female, Chihuahua. Apr 2018 (unknown dates): The canine began receiving one vial of FRONTLINE PLUS DOG 5-22 LBS (FL+) (R62514), applied topically between her shoulder blades by the reporter. An unknown duration following product application, Felicity experienced onset of chronic generalized pruritus and upon further inspection, the reporter noticed the dog had a large (unknown) amount of fleas on her. Despite the ongoing pruritus, the reporter continued to apply one vial of FL+ in the same fashion, monthly around the first. The last application of FL+ was administered on 1 Oct 2018*. On an unknown date following, Felicity received an unknown oral flea control pill that lasts for 3 months. The reporter could not confirm the brand name of said product; however, on an unknown date in Oct 2018 after switching products, Felicity recovered and has since remained flea-free. No further medical information expected.
14-Dec-2018	UAE; 18US081374; NY; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	30	30	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	10-Nov-2018	11-Dec-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 14 Dec 2018, the owner reported the following event for 30 feline, signalments unknown. 10 Dec 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades, by owner 11 Dec 2018*: The felines started to experience hair loss, vomiting and sores on the skin. Felines did not present to clinic and no treatment was provided to felines. 14 Dec 2018: The felines stopped vomiting but have not recovered from other symptoms. Felines were on the FRONTLINE PLUS since Nov 2018. No further medical information is expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Yes					
14-Dec-2018	UAE; 18US081393; WI; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 11.3 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	29-Sep-2017*	10-Dec-2018	6 Month(s) 4 Week(s)	D-D	Suspected Lack of Efficacy Claim: On 14 Dec 2018, the technician reported the following event for Coy, a 2 year old (18 Apr 2016), 9 pound, Shih Tzu mix. 16 May 2018: She began receiving NEXGARD (11.3 MG) (AA185617A, Nov 2019) monthly, with 7 chews purchased on 16 may 2018. 29 Sep 2017: She was diagnosed Lyme antigen negative via a routine 4DX test. 10 Dec 2018: She was diagnosed Lyme positive via a routine 4DX test. A Quant C6 has not been performed. Treatments have been initiated with Doxycycline. Her current condition is unknown. No further medical information expected. UPDATE 21 Dec 2018: Per veterinarian, the pet was treated with monthly FRONTLINE (product unsubstantiated) from approximately 29 Sep 2017 until approximately 16 May 2018. The pet is asymptomatic. No further medical information expected.
14-Dec-2018	UAE; 18US081517; LA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Nov-2018*	02-Dec-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 14 Dec 2018, the owner reported the following event for Duraradmi, a 7 pound, neutered male Domestic Shorthair. 30 Nov 2018*: One vial of FRONTLINE PLUS CATS (R41201AW) was topically applied per label for the first time. 2 Dec 2018*: The started to itch non-stop. The owner is monitoring the cat's ongoing condition and the cat has not been seen by the vet. No further information available.
28-Dec-2018	UAE; 18US081719; CA; U.S.A	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 76 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Overdose)	17-Jan-2018*	17-Dec-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 28 Dec 2018, the pet owner reported the following event for a 76 pound dog, all other details unknown. 17 Jan 2018*: Dog began receiving treatment with FRONTLINE. 17 Dec 2018*: Dog received an unknown amount of FRONTLINE PLUS DOG 89-132 LBS (FL) (lot unknown) in an unknown manner. Soon after administration the pet owner observed that the dog had leaky stool. The veterinarian was contacted. The general health of the dog is unknown. The symptoms are ongoing at this time. No further medical information available.
17-Dec-2018	UAE; 18US081760; IA; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 55 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Aug-2016*	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Dec 2018, the owner reported the following event for Deffa, 2 year old, 55 pound, spayed female, Border Collie canine. 1 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied between the shoulder blades. The dog experienced skin irritation localized at application site, hyperactivity, and foaming at the mouth. The pet did not present to the clinic. the owner treated with Benadryl 3 Aug 2018: The dog recovered.

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						Cutaneous **Was the product used ok?:** Yes					The dog has received the product seasonally since 1 Aug 2016 and no symptoms presented. No further medical information is expected.
17-Dec-2018	UAE; 18US081776; SC; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Dec-2017*	16-Dec-2018*	15 Day(s)	D-D	Suspected Adverse Event: On 17 Dec 2018, the owner reported the following event for a German Shepherd Dog (signalment unknown). 1 Dec 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied to the dog. *16 Dec 2018: The dog started to itch at his tail without the presence of fleas, his symptoms are still ongoing. The owner declined the report, no further information available.
18-Dec-2018	UAE; 18US081827; NC; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2013*	22-Nov-2018*	1 Day(s)	D-D	Suspect Adverse Event: On 18 Dec 2018 the pet owner reported the following event for Little Girl, a 12 year old, 17 pound, spayed female Pug. 21 Nov 2018: 1 vial from a 3 pack of FRONTLINE PLUS DOG 5-22 (S60302) was applied between Little Girl's shoulder blades. 22 Nov 2018*: She began to vomit and was presented to a veterinarian who prescribed an unknown medication. The medication ran out but the dog was still vomiting. Owner refilled the medication. The vomiting stopped on an unknown date. 02 Dec 2018*: Owner noticed a bald spot at the application site. The hair has begun to grow back but it still sparse. Little Girl has been on FRONTLINE for years* and has never experienced a reaction to the product before. There is one other dog in the household. FRONTLINE PLUS DOG 23-44 was applied to him. He experienced the same reactions as this dog. See case 18US081850. No further medical information expected.
18-Dec-2018	UAE; 18US081850; NC; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2013*	22-Nov-2018*	1 Day(s)	D-D	Suspect Adverse Event: On 18 Dec 2018 the pet owner reported the following event for Snuggles, a 7 year old, 30 pound, neutered male Pug. 21 Nov 2018: 1 vial from a 3 pack of FRONTLINE PLUS DOG 23-44 (S60308) was applied between Snuggles' shoulder blades. 22 Nov 2018*: He began to vomit and was presented to a veterinarian who prescribed an unknown medication. The medication ran out but the dog was still vomiting. Owner refilled the medication. The vomiting stopped on an unknown date. 02 Dec 2018*: Owner noticed a bald spot at the application site. The hair has begun to grow back but it still sparse. Snuggles has been on FRONTLINE for years* and has never experienced a reaction to the product before. There is one other dog in the household. FRONTLINE PLUS DOG 25-22 was applied to her. She experienced the same reactions as this dog. See case 18US081827. No further medical information expected.
19-Dec-2018	UAE; 18US082037; IL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	15-Nov-2018*	18-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 19 Dec 2018, the clinic staff reported the following event for Lucy, a 5 year old (14 Jun 2013), 12.4 pound, spayed female, Shih Tzu Mix. 15 Nov 2018*: She received a dose of FRONTLINE PLUS DOG(5-22 LBS)(lot and expiration unknown).

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		Age: 5.00 Year(s) **Weight:** 12.4 lbs				**Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					18 Nov 2018*: She received a chew of HEARTGARD PLUS (68 MCG/57 MG)(lot and expiration unknown). 18 Nov 2018: She vomited, just brown bile. 15 Dec 2018*: FRONTLINE applied to animal. 18 Dec 2018*: She received a single chew. 18 Dec 2018: She vomited, just brown bile. She did not receive any treatment for either event. 19 Dec 2018: She has recovered. She previously received HEARTGARD since 2013* with no previous adverse effects. It is unknown how long she has been on FRONTLINE. She has a history of a swollen eye lid caused by an unknown source. No further medical information expected.
19-Dec-2018	UAE; 18US082052; NM; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 11.59 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK C4 - 13D1.R1; IMRAB 3 TF - 1905.23; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; unknown glucosamine/chondroitin supplement; unknown probiotic; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Dec-2018*	18-Dec-2018	17 Day(s)	D-B	Suspected Adverse Event: On 19 Dec 2018, the inventory manager reported the following event for Coco, a 5 year old (born 31 Aug 2013), 11.59 pound, spayed female, Terrier mix. 17 Dec 2018: The patient was vaccinated by the veterinarian with RECOMBITEK C4 (45569B10579, 24 Nov 2019), 1 mL, SC, in the left hind leg, and IMRAB 3 TF (18388, 26 Apr 2020), 1 mL, SC, in the right hind leg. It's unknown if she's previously received either vaccine. CET toothpaste and oral rinse were dispensed on the same date, but were not administered. 18 Dec 2018: In the morning, Coco returned to the clinician where she was hospitalized for extreme lethargy, pyrexia (103.8 F), anorexia, and severe pain in the left hind where RECOMBITEK C4 was administered. A CBC performed showed her WBC count was 19.71 (5.05-16.76) and neutrophils were 16.92 (6.95- 11.64). Supportive care consisted of LRS (IV), carprofen (SC), and diphenhydramine (SC). 19 Dec 2018: Other than the reported localized pain, all of Coco's other symptoms have resolved. Presently her body temperature is 101.5 F and she will be discharged this afternoon. No further medical information expected. UPDATE 24 Jan 2019: Per the records received: Unknown dates: On unknown seasonal dates, the patient has received unknown HEARTGARD (lot and expiration unknown) (product unsubstantiated) and unknown FRONTLINE (lot unknown) (product unsubstantiated). She's also received an unknown glucosamine/chondroitin supplement and an unknown probiotic. For all four products, the doses, routes, and frequency of administration are unknown. Additionally, the reasons for use of both supplements are unknown. 17 Dec 2018: When Coco presented for vaccination, she was noted to have been scooting her rear since an unknown date prior. When both anal glands were expressed, the patient was noted as extremely disturbed and the suggestion to use a muzzle for future anal gland expressions was made. Both glands were also moderately full and normal material was
19-Dec-2018	UAE; 18US082095; IA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 24 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Aug-2016*	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Dec 2018, the owner reported the following event for Larry, 7 year old, 24 pound, neutered male, Domestic shorthair Feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. The cat experienced skin irritation localized at application site. The pet did not present to the clinic. The owner treated with Benadryl. 3 Aug 2018: The cat recovered. The cat has received the product seasonally since 1 Aug 2016*

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						Cutaneous **Was the product used ok?:** Yes					and no symptoms presented. There is one other cat in the household that also received the product and experienced symptoms (see case 18US082098). No further medical information is expected.
17-Dec-2018	UAE; 18US082098; IA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 7 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Aug-2016*	01-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: On 17 Dec 2018, the owner reported the following event for Lucy, 14 year old, 7 pound, spayed female, Domestic shorthair Feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. The cat experienced skin irritation localized at application site. The pet did not present to the clinic. The owner treated with Benadryl 3 Aug 2018: The cat recovered. 14 Nov 2018: The cat passed away. The cat has received the product seasonally since 1 Aug 2016 and no symptoms presented. There is one other cat in the household that also received the product and experienced symptoms (see case 18US082095). No further medical information is expected.
19-Dec-2018	UAE; 18US082210; WA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	13-Dec-2018	19-Dec-2018	6 Day(s)	D-D	Suspected Adverse Event: On 19 Dec 2018, the owner reported the following event for Loki, 2 year old, 80 pound, neutered male, Pit Bull canine. 13 Dec 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (M63906AR) was applied between the shoulder blades. 19 Dec 2018: The dog experienced pruritus and irritation around the hind end and belly. Fleas were found on the pet. The pet did not present to the clinic and no treatment was provided. Symptoms are still ongoing. No further medical information is expected.
20-Dec-2018	UAE; 18US082226; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 19 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Dec-2015*	20-Dec-2018	1 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018 the pet owner reported the following event for Winnie, 5 year old, 19 pound, spayed female, Domestic shorthair. 19 Dec 2018: 1 vial of FRONTLINE PLUS CATS (S40404AW) was applied between the shoulder blades. 20 Dec 2018: Pet experienced grey discoloration at the application site. The cat did not present to the clinic. No treatment was given and the symptom is ongoing. The pet has been treated with FRONTLINE off and on for the last 3 years. Another cat in the home received an application of the product and did not experience symptoms. No further medical information is expected.
20-Dec-2018	UAE; 18US082267; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	20-Dec-2018*	20-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Dec, the owner reported the following event for feline (all other signalments unknown). 20 Dec 2018: One vial of FRONTLINE PLUS CATS* (lot unknown and product unsubstantiated) was applied between the shoulder blades, by owner. The feline turned it's head and licked some of the product off of the application site and started to foam at the mouth about 5 minutes later. Pet did not present to the clinic. It is unknown if any treatment was provided. Symptoms are ongoing. No further medical information is expected.

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						ok?: Yes					
20-Dec-2018	UAE; 18US082296; -; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2018*	20-Dec-2018	2 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018 the owner reported the following event for a male dog (all other signalments unknown). 18 Dec 2018*: FRONTLINE was applied to the dog (unsubstantiated) (lot number unknown). 20 Dec 2018: The dog's nose was dry and he was very lethargic. The dog has not been presented to a veterinarian. Condition of the dog prior to application is unknown. FRONTLINE (unsubstantiated) has been applied to the dog previously on unknown dates without incident. No further medical information expected.
20-Dec-2018	UAE; 18US082368; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Month(s) **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Casper, a 5 year old, 12 pound, neutered male Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See case 18US082425, 18US082418, 18US082419, 18US082420, 18US082423, and 18US082424. No further medical information available.
21-Dec-2018	UAE; 18US082405; DE; U.S.A	**Species:** Canine **Breed:** Eskimo (Spitz) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 27 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	17-Dec-2008*	18-Dec-2018	1 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018 the pet owner reported the following event for Sparkle, 12 year, 27 pound, spayed female, Eskimo. 17 Dec 2018: 1 vial of FRONTLINE PLUS DOG 23-44 (P62402AL) was applied in three spots; between the ears, the mid-section and on the tail. 18 Dec 2018: The dog began to experience diarrhea, gas, lethargy, loss of appetite, chewing of fur and is not herself. Sparkle has not presented to the clinic and symptoms are ongoing. The pet has been treated with the product off and on for the last 10 years. A cat in the home received FRONTLINE PLUS for cats and did not experience any symptoms. No further information available at this time.
20-Dec-2018	UAE; 18US082418; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Happy, a 3 year old, 12 pound, neutered male Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See case 18US082368, 18US082418, 18US082419, 18US082420, 18US082423, and 18US082425. No further medical information available.

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20-Dec-2018	UAE; 18US082419; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.50 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Hobo, a 8.5 year old, 15 pound, neutered female Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See case 18US082368, 18US082418, 18US082425, 18US082420, 18US082423, and 18US082424. No further medical information available.
20-Dec-2018	UAE; 18US082420; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Peanut, a 5 year old, 9 pound, spayed female Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See case 18US082368, 18US082418, 18US082419, 18US082425, 18US082423, and 18US082424. No further medical information available.
20-Dec-2018	UAE; 18US082423; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Month(s) **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Baby, a 5 month old, 4 pound, spayed female Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See case 18US082368, 18US082418, 18US082419, 18US082420, 18US082425, and 18US082424. No further medical information available.
20-Dec-2018	UAE; 18US082424; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Month(s) **Weight:** 4 lbs	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Mable, a 5 month old, 4 pound, spayed female Domestic Shorthair. 13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See cases 18US082368, 18US082418, 18US082419, 18US082420, 18US082423, and 18US082425. No further medical information available.
20-Dec-2018	UAE; 18US082425; SC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair	1	1	0	**Product used:** FIPRONIL SPRAY	13-Dec-2018	16-Dec-2018	3 Day(s)	D-D	Suspected Adverse Event: On 20 Dec 2018, the owner reported the following event for Shadow, a 5 month old, 4 pound, spayed female Domestic Shorthair.

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		(Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Month(s) **Weight:** 4 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					13 Dec 2018: One spray of FRONTLINE SPRAY (S00304A) was applied to the cat. 16 Dec 2018: The cat started to cough, throw up, and not move. The owner washed the cat with Dawn soap but the symptoms continued. The cat has not been seen by the vet and the owner is monitoring the cat's condition. There are 6 other cats in the home who also had the same reaction. See cases 18US082368, 18US082418, 18US082419, 18US082420, 18US082423, and 18US082424. No further medical information available.
26-Dec-2018	UAE; 18US082785; TX; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	26-Dec-2018	26-Dec-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 Dec 2018 the pet owner reported the following event for a canine all other signalments unknown. 26 Dec 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied to the dog at an unknown area. The dog is bleeding from the site of application. No further medical information is expected.
27-Dec-2018	UAE; 18US082869; MS; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 9.6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2018*	27-Dec-2018	1 Day(s)	D-C	Suspected Adverse Event: On 27 Dec 2018, the veterinarian reported the following event for Georgie, a 6 year old (born 11 May 2012) 9.6 pound female spayed Domestic Longhair. 26 Dec 2018: The pet owner applied a dose of FRONTLINE PLUS CATS (lot and expiration unknown) topically. 27 Dec 2018: The cat started flaying around loudly, had horizontal nystagmus, was running in circles, and falling over. The cat presented to the clinic where they bathed it in Dawn and treated with Dexamethasone SP. The cat recovered. The cat has been receiving the FRONTLINE since an unknown date without issue. No further medical information expected.
28-Dec-2018	UAE; 18US083055; WI; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Month(s) **Weight:** 72.3 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** RECOMBITEK LYME - 2126.R0; AFOXOLANER 136 MG CHEWABLE TABLETS; **Route:** Topical / Cutaneous **Was the product used**	16-Nov-2017*	20-Oct-2018*	11 Month(s) 1 Week(s)	D-C	Suspected Lack of Efficacy Claim: On 28 Dec 2018, the DVM reported the following event for Grizzly, a 13 month old (born 04 Sep 2017), 72.3 pound, neutered male Bernese Mountain Dog. 16 Nov 2017*: The owner purchased one dose of FRONTLINE PLUS (unsubstantiated) (lot and expiration unknown) and he received one dose applied topically at an unknown location on an unknown date. 07 Dec 2017*: The owner purchased one dose of NEXGARD (136 MG) (lot and expiration unknown) one chew administered orally on an unknown date. 07 Dec 2017 and 28 Dec 2017: He received a RECOMBITEK LYME (42218, 26 Jan 2019) 1 mL SC in the right hip. 10 Oct 2018*: The owner purchased two doses of NEXGARD. He received one dose monthly on unknown dates. 20 Oct 2018*: He began experiencing back pain. He presented to the veterinary clinic. No diagnostics were performed. Treatment was initiated with methocarbamol and Rimadyl. 19 Nov 2018: He began experiencing right thoracic limb lameness. 20 Nov 2018: He presented to the veterinary clinic. No diagnostics

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: Unknown to Company					were performed. Treatments were initiated with Rimadyl. 29 Nov 2018: He began experiencing ataxia on all four limbs and lameness on the left pelvic limb. He has not presented to the veterinary clinic. No diagnostics or treatments were initiated. 27 Dec 2018: He was diagnosed Lyme antigen positive via a 4Dx test. A Quant C6 has not been performed. No treatments have been initiated. His current condition is ongoing. He has a pertinent medical history of back pain and intermittent shifting leg lameness. No further medical information expected. UPDATE 29 Dec 2018: Per medical record, a Quant C6 test result on 29 Dec 2018 was 153 (0-30). A urinalysis on 29 Dec 2018 was normal. The pet was treated with doxycycline. No further medical information expected.
31-Dec-2018	UAE; 18US083244; MN; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 18 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	04-Dec-2018	07-Dec-2018*	3 Day(s)	D-B	Suspected Adverse Event: On 31 Dec 2018, the owner reported the following event for Buddy, a 4 year old, 18 pound, neutered male Maine Coon Cat. 4 Dec 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat per label for the first time. *7 Dec 2018: The cat developed a bald spot and burn to the skin at the application site, he is also pulling his fur out all over his body. *15 Dec 2018: The started to developed seizures. The cat's body would flip over, his legs were going and his body was tight. The cat also urinated when seizing. The seizure lasted 30 seconds. but the cat was disoriented, and his tongue was out. 29 Dec 2018: The cat had two seizures. The owner explained the cat is not himself and has lost weight. The cat has not been seen by the vet and the owner is monitoring his condition. There are two other treated cats in the home who did not have a reaction. No further medical information available.
26-Oct-2018	UAE; 18UY000009; Uruguay; Uruguay	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 4 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Others)	11-Oct-2018	11-Oct-2018	0 Day(s)	D-D	As reported by suspicion of lack of efficacy of FRONTLINE PLUS CAT, 3 cats, Chiquita, female, 7 years, 4 Kg, Violeta, female, 11 years, from 3 to 4 Kg, Tomasito, male, 9 years, from 7 to 8 Kg, all neutered, received Frontline plus cat, 1 pipette each cat (L005/17 exp date 30/6/2020), topical by owner. Applied date 11/10/18, application before 13/9/18, the owner apply the product monthly during hot seasons and apply every 45 days during cold seasons. Flea problem started in September, mainly at home, she observes fleas in her pets since the problem began; she started an environmental flea control (fumigation and use of vacuum cleaner). Since the beginning of the environmental control, flea number has decreased, however, after the cats were checked, we can still observe fecal matter from fleas. There is a cat, Tomasito that is being underdosed, surely that is the possible cause of the inefficient flea control. This cat is the only one who goes outside the house, the others stay inside.
02-Oct-2018	UAE; 18ZA000145; Western Cape; South Africa	**Species:** Canine **Breed:** Pit Bull **Sex:** X **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 25 - 30 kg*	2	2	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	29-Sep-2018	02-Oct-2018	3 Day(s)	D-D	Suspected Lack of Efficacy: as reported by the owner, 2 dogs, red nose pitbulls,1 male and 1 female, intact, 25-30 kg both, 3 years old both, in an unknown health condition, received FRONTLINE SPRAY (BN R03601A, exp date unknown), administered by owner (route and dosage unknown) on 29 SEP 2018. On 2 OCT 2018 he still noticed the presence of lots of alive fleas and ticks. The animals had already been given the product before and it was efficient. The female has 3 weeks old puppies. The evolution of the event is unknown.This is the extent of information available.

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15-Oct-2018	UAE; 18ZA000169; -; South Africa	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** 4 Kilograms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	15-Oct-2018	2 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a cat, 4 years old, weight 4kg (other signalments unknown), in an unknown health condition, received FRONTLINE PLUS (BN and exp date unknown), route and dose unknown, administered by the owner on an unknown date 2 weeks ago (1 OCT 2018 was chosen by default). On 15 OCT 2018, she combed her cat multiple times a day and saw lots of visible and active fleas every time. She also washed and sprayed bedding and carpets with an unknown product.The evolution of the event is unknown. This is the extent of information available.
18-Oct-2018	UAE; 18ZA000174; -; South Africa	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	18-Aug-2018*	18-Aug-2018*	0 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a dog, other signalments unknown, in an unknown health condition, received FRONTLINE SPRAY (BN and exp date unknown), route and dose unknown, administered by owner on an unknown date (18 AUG 2018 was chosen by default). Two months later (18 AUG 2018 was chosen by default for the start date of the AE), he still observes as many fleas (adult and immature) as when he started the treatment. He also treated the house with commercial flea bombs (unknown product). The evolution of the event is unknown.This is the extent of information available.
31-Oct-2018	UAE; 18ZA000192; Illinois; South Africa	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 Year(s) **Weight:** 2.3 - 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	25-Oct-2018	26-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a domestic cat, male, one year old, 5-8 lbs, in an unknown health condition, received FRONTLINE PLUS CATS (BN and exp date unknown) by owner, route and dose unknown, on 25 OCT 2018 for the first time. On an unknown date (26 OCT 2018 was chosen by default), the owner observed that he is still scratching and have lots of live fleas. He was previously treated with flea bath. The event is ongoing.This is the extent of information available. This case is linked with the cases 18ZA000212 and 18ZA000213 (2 other cats treated).
31-Oct-2018	UAE; 18ZA000193; -; South Africa	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 16.00 Year(s) **Weight:** 23 Kilograms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	25-Oct-2018	26-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy: As reported by a Merial employee, a dog, Pitt Bull, male intact, 16 years old, 23 kg, in a unknown health condition, received FRONTLINE PLUS DOG L (BN and exp date unknown), route and dose unknown, by owner on 25 OCT 2018 for the first time. On an unknown date (26 OCT 2018 was chosen by default), he still sees lots of live fleas. The dog was previously treated with flea baths. The event is ongoing. This is the extent of information available.
31-Oct-2018	UAE; 18ZA000196; -; South Africa	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	17-Oct-2018*	31-Oct-2018*	2 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a cat, 7 months old, other signalments unknown, in an unknown health condition, received FRONTLINE PLUS CATS (BN and exp date unknown), one pipette, topical administration by owner, on an unknown date (15 OCT 2018 was chosen by default). On an unknown date, two weeks after application (31 OCT 2018 was

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Age: 7.00 Month(s) **Weight:** Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					chose by default) the owner still observes fleas. This is the extent of information available. This case is linked to case 18ZA000197 (other cats treated).
31-Oct-2018	UAE; 18ZA000197; -; South Africa	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Oct-2018*	31-Oct-2018*	30 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, different cats, total number unknown (2 was chosen by defaut), other signalments unknown, in an unknown health condition, received FRONTLINE PLUS CATS (BN and exp date unknown), route and dose unknown by owner, on an unknown date (1 OCT 2018 was chosen by default). On an unknown date, four weeks after application (31 OCT 2018 was chose by default), the owner still observes fleas. This is the extent of information available. This case is linked to case 18ZA000196 (other cat treated).
31-Oct-2018	UAE; 18ZA000212; Illinois; South Africa	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 2.3 - 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	25-Oct-2018	26-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a domestic cat, female, 2 years old, 5-8 lbs, in an unknown health condition, received FRONTLINE PLUS CATS (BN and exp date unknown) by owner, route and dose unknown, on 25 OCT 2018 for the first time. On an unknown date (26 OCT 2018 was chosen by default), the owner observed that she is still scratching and has lots of live fleas. She was previously treated with flea bath. The event is ongoing.This is the extent of information available. This case is linked with the cases 18ZA000192 and 18ZA000213 (2 other cats treated).
31-Oct-2018	UAE; 18ZA000213; Illinois; South Africa	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** M **Sex qualifier:** Unknown **Age:** 16.00 Year(s) **Weight:** 2.3 - 4.5 kg	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Yes	25-Oct-2018	26-Oct-2018*	1 Day(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, a cat, male Persian, 16 years old, 5-8 lbs, in an unknown health condition, received FRONTLINE PLUS CATS (BN and exp date unknown) by owner, route and dose unknown, on 25 OCT 2018 for the first time. On an unknown date (26 OCT 2018 was chosen by default), the owner observed that he is still scratching and has lots of live fleas. He was previously treated with flea bath. The event is ongoing.This is the extent of information available. This case is linked with the cases 18ZA000192 and 18ZA000212 (2 other cats treated).
16-Nov-2018	UAE; 18ZA000215; Gauteng; South Africa	**Species:** Canine **Breed:** Chowchow **Sex:** F **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** 35 Kilograms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	30-Oct-2018	15-Nov-2018	16 Day(s)	D-D	Suspected Adverse Reaction: As reported by the owner, a dog, Chowchow, female, 11 years old, 35 kg, in a good health condition, received FRONTLINE PLUS DOG L (BN and exp date unknown) topically, dose unknown, by owner on 30 OCT 2018. On 15 NOV 18, the owner noticed that the skin in the area of application looked burnt, with hairloss, scabbing and sores. The evolution of the event is unknown. This is the extent of information available.

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						product used ok?: Yes					
06-Dec-2018	UAE; 18ZA000236; -; South Africa	**Species:** Canine **Breed:** Basset Hound **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 20 Kilograms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Dec-2018	06-Dec-2018	3 Day(s)	D-D	Suspected Lack of Efficacy: as reported by the owner, a dog, female neutered, Basset Hound crossbreed, 10 years old, 20 kg, in an unknown health condition, received FRONTLINE PLUS DOG L (BN and exp date unknown), topically, dose unknown, by owner on 3 DEC 2018. 3 days later on 6 DEC 2018 the owner still observes a lot of fleas on the neck and on the ears. Previous treatment was done long ago, with an unknown product. There are no other pets in household. The event is ongoing. This is the extent of information available.
13-Dec-2018	UAE; 18ZA000245; WCP; South Africa	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 5 Kilograms	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	05-Dec-2018	12-Dec-2018	1 Week(s)	D-D	Suspected Lack of Efficacy: as reported by the owner, a dog, Jack Russel, neutered male, 7 years old, 5 kg, in an unknown health condition, received FRONTLINE PLUS DOG M (BN and exp date unknown), topically, dose unknown on 5 DEC 2018 by owner. One week later on 12 DEC 2018 the owner still observed the dog scratching and saw 3 fleas. The owner bathes the dog with Borax and rinses with Apple cider vinegar. She has another dog that has no fleas and was not treated. The evolution of the event is unknown. This is the extent of information available. This case is linked to case 18ZA000248.
13-Dec-2018	UAE; 18ZA000248; WCP; South Africa	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company	05-Dec-2017*	06-Dec-2017*	1 Day(s)	D-D	Suspected Lack of Efficacy: as reported by the owner, a dog, Jack Russel, neutered male, 6 years old, weight unknown, in an unknown health condition, received FRONTLINE PLUS DOG M (BN and exp date unknown), route and dose unknown on 5 DEC 2017 approximately by owner. On an unknown date (6 DEC 2017 was chosen by default), the dog's skin turned blue. The evolution of the event is unknown. This is the extent of information available. This case is linked to case 18ZA000245.
19-Dec-2018	UAE; 18ZA000250; WCP; South Africa	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Unknown **Age:** 4.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Oct-2018	01-Oct-2018	0 Day(s)	D-D	Suspected Adverse Reaction: as reported by the owner, a dog, male Border Collie, 4 years old, weight unknown, in an unknown health condition, received FRONTLINE SPRAY (BN and exp date unknown), topicallly, dose unknown, by the owner on 1 OCT 2018 for parasite control. Since then his hair has started falling out in chuncks, he bites himself and scratches although the owner has not seen any fleas. The evolution of the event is unknown. This is the extent of information available.

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Worldwide Adverse Event Reports Involving - Human Cases
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
08-Dec-2018	UHAE; 18BR008009; SP; Brazil	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Off label use / Indication)	08-Dec-2018	08-Dec-2018	0 Day(s)	H-D	Suspected Adverse Event: As reported by the victim, a 60-year-old, woman (unknown weigth and height), when she opened one vial of FRONTLINE SPOT-ON DOGS (FL)(unsubstantiated) (size, lot and exp are unknown), an unknown amount of the product splashed in her left eye on 08 Dec 2018. Right after the incident, she experienced burn sensation on her eyes. The patient washed her eye with water and saline solution, and burn sensation is better however it is still on going. She did not experience blurred vision. There is no further information expected. UPDATE 11 Dec 2018 The patiente reported that she recovered on 10 Dec 2018.
11-Dec-2018	UHAE; 18BR008058; BA; Brazil	**Sex:** M **Sex qualifier:** Unknown**Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Human exposure)	10-Dec-2018	10-Dec-2018	0 Day(s)	H-D	Suspected Adverse Event: As reported by the victim, a man (unknown age, weight and height), presented headache when applied FRONTLINE SPRAY 250 ML (FL) (001/18, Apr 2020), on his dog for flea treatment, on 10 Dec 2018 (first administration). The current status of him is unknown. It is unknown if treatment was provided. Animal event adverse reported on 18BR008075. No further information is available
05-Nov-2018	UHAE; 18FR001530; -; France	**Sex:** F **Sex qualifier:** -**Age:** 57.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** no other products **Route:** subconjunctival **Was the product used ok?:** No (Human exposure)	16-Sep-2018	16-Sep-2018	0 Day(s)	H-D	FR-ANMV-18 CPVL 01831: A woman received accidentally one squirt of FRONTLINE SPOT ON CHAT into left eye. Almost immediately, her eye appeared slightly red. Follow-up phone call next day: signs had resolved (no more redness, no pain, no sight impairment). Duration of reaction: < or = 24 hours. Duration of reaction (precision): < 24 hours. Outcome of SAR: Favorable.
01-Oct-2018	UHAE; 18UK002309; -; United Kingdom	**Sex:** F **Sex qualifier:** Unknown**Age:** 14.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON CAT **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** Topical / Cutaneous **Was the product used**	01-Aug-2018*	01-Aug-2018*	N/A	H-D	As reported by the patient's mother, a few months ago (exact date not specified) the reporter's 14 year old daughter stayed at a friend's house and was exposed to cats that had been treated with FRONTLINE. The mother did not know which FRONTLINE it was (assumed to be FRONTLINE SPOT ON CAT) and the mother did not have any batch numbers. The mother thought that the friend's home could have also been treated with FRONTLINE PETCARE HOMEGARD HOUSEHOLD FLEA SPRAY 400 ML. When the mother collected her daughter, the daughter had swollen eyes, which were red and weepy. The daughter had been stroking the cats. A Piriton tablet solved the problem and the daughter was better by the evening. The mother was calling because the daughter recently had a reaction to a horse that had been recently treated with Dermoline, an insecticidal shampoo. Her daughter's whole face and throat had swollen up and the daughter needed IM

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						ok?: No (Off label use / Indication)					steroids and anti-histamines. The mother was trying to find out whether her daughter could have an allergy to the ingredients in FRONTLINE and Dermoline and wanted to compare the ingredients. Start date of adverse event, and product start dates 01 AUG 2018 added for submission purposes only.
02-Oct-2018	UHAE; 18US065765; CT; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	01-Jul-2018*	01-Sep-2018*	N/A	H-E	Human exposure: On 1 Oct 2018, the patient reported the following asymptomatic event for himself, other signalment unknown. Unknown date: The reporter has been using FRONTLINE PLUS (unsubstantiated) (Lot Unknown) for an unknown time period to prevent fleas and ticks on himself when working in the yard. He reports no symptoms or further details. No further medical information expected.
02-Oct-2018	UHAE; 18US065853; WI; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 76.00 Year(s) **Weight:** 132.000 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	01-Oct-2018*	01-Oct-2018	0 Day(s)	H-D	Human Exposure: On 1 Oct 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 76 year old, 132 pound, non-pregnant, female of further unknown signalment. 1 Oct 2018: The reporter suspects she may have gotten an unknown volume of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) in her left eye (OS). In proactive fashion, she immediately flushed her eye with water. She also applied Visine, OS, PRN throughout the day, but has since observed green-hued discharge from the affected eye. There is no redness or irritation. The patient's current status is unknown. She does have a history of hypertension (HTN). A product quality complaint was also made. Please see the narrative below. No further medical information expected. UPDATE 3 Oct 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A message was left. No further medical information expected. UPDATE 5 Oct 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A message was left. No further medical information expected. Product quality: On 1 Oct 2018, the owner reported the following issue with an unknown package of FRONTLINE PLUS DOG 89-132 LBS (LOT UNKNOWN). The owner said that the box does not have a lot #. No further information. UPDATE 8 Oct 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A message was left. No further medical information expected. UPDATE 10 Oct 2018: The owner reported the vials contain a lot number P61405. Product return is expected. No further information.
04-Oct-2018	UHAE; 18US066910; MO; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 3.00 Year(s) **Weight:** 32	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	04-Oct-2018*	04-Oct-2018	N/A	H-E	Human Exposure: On 4 Oct 2018, the patient's father reported the following asymptomatic human exposure to SafetyCall International (SCI) for his daughter, a 3 year old, 32 pound female. 4 Oct 2018: The pet owner divides the dose of FRONTLINE (Unsubstantiated) (Lot Unknown) up to be applied to different pets.

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* indicates Approximate date or weight

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
		Pounds				**Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Human exposure)					Caller states he puts this product in to "test tubes" and had left it on the counter. Caller states he found an empty test tube in his daughter's room. It would of had about 1 ml of product in the tube. Caller is unsure if his daughter could have ingested the product or gotten it on her skin. The daughter is not currently experiencing any symptoms. Due to the way the product is dosed by the caller, he does not have lot information. No further medical information expected.
04-Oct-2018	UHAE; 18US067299; MA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 61.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)	04-Oct-2018*	04-Oct-2018	0 Day(s)	H-D	Human Exposure: On 4 Oct 2018, the patient reported the following human exposure to SafetyCall International (SCI) for herself, a 61 year old female, other signalment unknown. 4 Oct 2018: The patient reports that she inadvertently cut the tube of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) too closely to her finger and got product on her hands 25 minutes ago. She reports an odor that irritated her sinuses. She's rinsed with Dawn dish soap and water. The patient is sensitive to all medications, paint and varnish, and declined to give further medical history. No further medical information expected. UPDATE 16 Oct 2018: CB complete. Caller washed as advised, and with fresh air sxs resolved after an hour or two. No further medical information expected.
15-Oct-2018	UHAE; 18US069577; OK; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 31.00 Year(s) **Weight:** 115.000 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	14-Oct-2018*	14-Oct-2018	0 Day(s)	H-D	Human Exposure: On 15 Oct 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 115 pound, 31 year old, non pregnant female. 14 Oct 2018: The owner cut the product tab and in doing so accidentally squirted an unknown amount of FRONTLINE PLUS DOG 45-88 LBS (M61404BR) in her eye. An unknown amount of time later, she rinsed her eye. She did indicate that her eye still burned and had irritation. She does not have any redness or swelling in/around her eyes. She does not wear contact lenses. The patient does have a prior medical history of allergies to Bactrim. No further medical information expected. UPDATE 16 Oct 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 17 Oct 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 22 Oct 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected.
22-Oct-2018	UHAE; 18US071374; OH; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	22-Oct-2018*	22-Oct-2018*	0 Day(s)	H-D	Human Exposure: On 22 Oct 2018, the following human exposure was reported by the patient, a male, of further unknown signalment. 22 Oct 2018*: After accidentally touching the FRONTLINE PLUS DOG 5-22 LBS (lot unknown) application site on his pet, his hand (unknown side) appeared glossy. To date, it's unknown if any treatment was administered or if the event remains ongoing. No further medical information expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Human exposure)					
26-Oct-2018	UHAE; 18US072239; MO; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 67.00 Year(s) **Weight:** 122.000 Pounds	1	0	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	25-Oct-2018*	N/A	N/A	H-E	Human Exposure: On 26 Oct 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 122 pound, 67 year old non-pregnant female. 25 Oct 2018: The owner went to apply the FRONTLINE SPRAY (R03701A) and accidentally got an unknown amount on hands. An unknown amount of time later, she washed her hands with antiseptic cleanser and two more times with dawn dish soap. She was asymptomatic at the time of call. She does not have any prior medical history or known allergies. No further information at this time. UPDATE 30 Oct 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 1 Nov 2018: SCI attempted to follow up with the patient, but was unsuccessful. A voice message was left. No further medical information expected.
07-Nov-2018	UHAE; 18US073894; WA; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 62.00 Year(s) **Weight:** Unknown	1	0	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	01-Nov-2018*	N/A	N/A	H-E	Product quality: On 1 November 2018, the pet owner reported the following issue with FRONTLINE PLUS CATS (LOT UNKNOWN). The packing was cut along the line that says cut here but upon cutting it open the reservoir of the vial and spilled out before owner could administer product. The other 7 vials were cut properly out of the 8 pack purchased. Product return expected. No further information. UPDATE 26 Nov, 2018: Pet owner called and reported the lot number (S40502AX). No further information. Human Exposure: On 1 Nov 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 62 year old, male of further unknown signalment. 1 Nov 2018: The patient accidentally got an unknown volume of unknown FRONTLINE (lot unknown) on his right hand. An unknown duration following accidental product exposure, he washed his hands with Dial soap and water. It's been two hours since his exposure and he remains asymptomatic. The patient is allergic to pollen. No further medical information expected. UPDATE 6 Nov 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A voicemail left. No further medical information expected. UPDATE 8 Nov 2018: SCI followed up with the patient who remained asymptomatic. No further medical information expected.
06-Nov-2018	UHAE; 18US074633; WA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	0	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Human exposure)	06-Nov-2018*	N/A	N/A	H-E	Human Exposure: On 6 Nov 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a female with unknown signalment. 6 Nov 2018*: The owner called in regarding questions to FRONTLINE PLUS DOG 45-88 LBS (S60809AX) and Human Exposure. While attempting to transfer, owner disconnected call. It is unknown how owner came in contact with product. The owner is presumed to be asymptomatic. Any prior medical history or allergies are unknown. No further information at this time.

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15-Nov-2018	UHAE; 18US076404; VA; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 4.00 Year(s) **Weight:** 44.000 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	14-Nov-2018*	14-Nov-2018	0 Day(s)	H-D	Human Exposure: On 14 Nov 2018, the following human exposure was reported to Safety Call International (SCI) by the family member of the patient, a 44 pound, 4 year old, intact female. 14 Nov 2018: The family member went to apply FRONTLINE PLUS DOG 45-88 LBS (S60913AR) to the dog when the patient placed her left hand at the the application site. She states she immediately washed her hand with warm soapy water and has now had her hand under running water for approximately 15 minutes. She states at this time her hand is a little pink, but she believes it is because it has been under the water for this amount of time. No further information at this time. UPDATE 20 Nov 2018: SCI called the reporter back and left a messge. No further medical information expected. UPDATE 23 Nov 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 26 Nov 2018: SCI attempted to follow up with the reporter, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 27 Nov 2018: SCI attemped to follow up with the reporter, but was unsuccessful. A voice message was left. No further medical information is expected.
16-Nov-2018	UHAE; 18US076774; MD; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 35.00 Year(s) **Weight:** 150 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	15-Nov-2018*	15-Nov-2018	0 Day(s)	H-D	Human Exposure: On 16 Nov 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 150 pound, 35 year old, non pregnant female. 15 Nov 2018: The owner accidentally sprayed FRONTLINE PLUS DOG 45-88 LBS (P62005AR) in an unknown eye. Immediately afterwards, she experienced a stinging sensation which resolved after irrigation. There were no contacts worn at the time. She does have a prior history of Lasik surgery. No further information at this time.
30-Nov-2018	UHAE; 18US078710; NC; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	-	-	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	29-Nov-2018*	N/A	N/A	H-D	Product Quality: On 29 Nov 2018, the pet owner reported the following issue with FRONTLINE PLUS DOG 5-22 LBS (S60401AX). 6 vials out of an 8 pack leaked out into the blister pack. The perforated tips of the defective vials appeared to be intact. The remaining 2 vials were undamaged and present inside of the box. There was no damage to the outside of the packaging. Product return not expected. Image not expected. Owner does not use a camera phone. No further information. Human Exposure:On 29 November 2018, the following inquiry was reported to Safety Call International (SCI) by a Boehringer Ingelheim employee for FRONTLINE PLUS DOG 5-22 LBS (S60401AX). The pet owner opened the blister packaging and realized that the vials inside were leaking. Two of the vials leaked onto owner's hands and she then washed her hands. The pet owner remains asymptomatic. The owner disconnected the call at the time of the tranfer from Boehringer Ingelheim and SCI attempted a call back with the line disconnecting upon being answered. No other medical information is expected.
29-Nov-2018	UHAE; 18US078833;	**Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL	29-Nov-2018	29-Nov-2018	0 Day(s)	H-D	Human Exposure:On 29 November 2018, the following event was reported to Safety Call International (SCI) by a pet owner for

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
	NY; U.S.A	Unknown**Age:** 26.00 Year(s) **Weight:** 180.000 Pounds				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)					Frontline Plus for Dogs 5-22 lbs (S61017AL). 29 November 2018: The pet owner was applied this product to his dog contacted it 5 hours prior to his interaction with SCI. Twenty minutes after exposure he developed itching in an unknown location of the body. The pet owner washed with soap and water and the symptom resolved. The owner has been asymptomatic since. SCI recommended washing with soap and warm water if there is another unintentional contact with the product before it dries. The caller stated that he does not want SCI to follow up after this initial call. No other medical information is expected.
03-Dec-2018	UHAE; 18US079215; AL; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 58.00 Year(s) **Weight:** 120 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	03-Dec-2018*	03-Dec-2018	N/A	H-E	Human Exposure: On 3 Dec 2018, the following human exposure was reported to Safety Call International (SCI) by the pet owner for themselves, a 120 pound, 58 year old female. 3 Dec 2018: About 20 minutes prior to the call, the pet owner opened the tube of FRONTLINE PLUS DOG 45-88 LBS (S60510AX). While holding it sideways, some of it spilled out and onto her hand. She briefly rinsed using soap. She is asymptomatic. She is asking if it is now okay to eat and prepare food. SCI advised to rinse the skin for at least 15 minutes. A mild soap can be used to wash the skin. Cool compresses can be used for any irritation. Once at least 15 minutes of rinsing has occurred, the caller can then eat and prepare food. No further medical information expected.
06-Dec-2018	UHAE; 18US080147; MI; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 25.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	06-Dec-2018*	06-Dec-2018	N/A	H-E	Human Exposure: On 6 Dec 2018, the following human exposure was reported to Safety Call International (SCI) by the pet owner for themselves, a 25 year old female, other signalment unknown. 6 Dec 2018: The pet owner applied the FRONTLINE PLUS CATS (R40601AW) to her cat and had gotten some on her hand. She washed her hands with water and then rinsed again for an unspecified amount of time, and is asymptomatic. SCI recommended to wash the exposed skin for an additional 10 minutes. time. No further medical information expected.
12-Dec-2018	UHAE; 18US080937; CA; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 84.00 Year(s) **Weight:** 150 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used**	10-Dec-2018	12-Dec-2018	2 Day(s)	H-E	Human Exposure: On 12 Dec 2018 the following human exposure was reported by the pet owner for an 84 year old, 150 pound, male of unknown signalment. The pet owner reported that the FRONTLINE PLUS CATS (S40301AX) leaked out onto an unknown hand while attempting to cut it out from the packaging. The pet owner washed his hand with soap and water approximately 10 minutes post exposure and has remained asymptomatic. The pet owner has a history of hypothyroidism but it was not reported that the pet owner receives medication for the condition. Please see case 18US081250 for a reaction reported in the cat that received the FRONTLINE PLUS CATS from the same affected

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
						ok?: No (Human exposure)					pipette. No further information is expected. Product quality: On 12 Dec 2018, the pet owner reported the following issue with a 8 pack of FRONTLINE PLUS CATS (lot unknown). When owner attempted to cut along the dotted line indicated on the packing of the vials, the well of the vial was cut into and the product was spilled all over the owner's hand and furniture. The other 7 vials were undamaged. Product return is not expected because owner threw defective vial away in garbage. No further information. 22-JAN-19 QA results received: Investigation completed for FIPRONIL 10%/S METHOPRENE 12% SPOT ON Lot# UNKNOWN, expiry . Case investigated by France - Toulouse. Gotrack complaint closed on 2019-01-22. Final complaint evaluation A quality complaint was received for FRONTLINE PLUS CAT, batch unkown, on 12 dec 2018. The diefect is : When owner attempted to cut along the dotted line indicated on the packing of the vials, the well of the vial was cut into and the product was spilled all over the owner's hand and furniture This is the seventh complaint received for this defect, on the past 12 months (for all batches of Frontline Plus Cat) : 4 batches involved. Root cause : The aluminum used is the one expected for this batch, the production standards have been respected. As a result of the different layout
13-Dec-2018	UHAE; 18US081477; CA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	13-Dec-2018	13-Dec-2018	0 Day(s)	H-D	Human Exposure: On 13 December, the following event was reported to Safety Call International (SCI) by the a pet owner for FRONTLINE PLUS DOG 5-22LBS (F60810AX). 13 December 2018: The caller was cutting the product package along the perforated line and in doing so accidentally punctured the tube inside. The product leaked onto her hand. She immediately experienced a numbing sensation of her skin and washed her hands with soap and water. This event occurred approximaltey 20 minutes prior to contacting SCI. SCI recommended to wash the affected skin for 15 minutes with a mild soap and lukewarm tap water and that aloe vera or vitamin E oil may be applied to irritated skin.The caller has a history of allergies to pollen, mold, also has seasonal allergies The caller also has hypothyroidism No other medical information is expected.
17-Dec-2018	UHAE; 18US081536; NJ; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 71.00 Year(s) **Weight:** 145 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	17-Dec-2018*	17-Dec-2018	0 Day(s)	H-D	Human Exposure: On 17 Dec 2018, the following human exposure was reported to Safety Call International (SCI) by the pet owner for themselves, a 71 year old, 145 pound, male human of further unknown signalment. 17 Dec 2018: The pet owner snapped the tube and an unknown amount of FRONTLINE PLUS DOG 89-132 LBS (M62802AR) went into his eye. The pet owner experienced burning in his eye about 15 minutes after being exposed to the FRONTLINE. The pet owner rinsed his eye with an unknown fluid. No further medical information expected. UPDATE 18 Dec 2018: SCI left a message for the reporter requesting follow up. No further medical information expected. UPDATE 20 Dec 2018: SCI left a message for the reporter requesting follow up. No further medical information expected.

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Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
											UPDATE 26 Dec 2018: SCI left a message for the reporter requesting follow up. No further medical information expected.
28-Dec-2018	UHAE; 18US083171; PA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 49.00 Year(s) **Weight:** 200 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	28-Dec-2018	28-Dec-2018	0 Day(s)	H-D	Human Exposure: On 28 Dec 2018, the following human exposure was reported to Safety Call International (SCI) by the pet owner for herself, a 200 pound, 49 year old female. 28 Dec 2018: The owner reports when she opened the FRONTLINE PLUS DOG 45-88 LBS (R60661BR) applicator and snapped it open, it splashed into her left eye. She does not wear contact lenses. She wears glasses. She immediately experienced a burning sensation of the eye. She flushed her eye with water for a minute. No further medical information expected. UPDATE 2 Jan 2019: SCI called the reporter back and left a message. No further medical information expected. UPDATE 3 Jan 2018: SCI called the reporter back and left a message. No further medical information expected. UPDATE 09 Jan for information received 07 Jan 2019: SCI called the reporter back and left a message. No further medical information expected.

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D-A CASES

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18AT000053
	Address Ex. 6 PP – personal address Austria		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-06-2018	Date registrant became aware of incident. 10-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 8-00596	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE COMBO SPOT ON DOGS S	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18AT000053

Brief description of incident circumstances

Suspected adverse event: as reported by the attending veterinarian, a 4-year-old dog of 7 kg (other signalment unknown) received FRONTLINE SPOT ON DOG S (batch, expiry date unknown) administered by an unknown person on 05 OCT 2018 to treat fleas and pruritus. At the same time, the animal also received approx. 0.5 ml cortisone. Approx. 1 day after product administration (already in the following night reported), the animal experienced cramps, including vomiting and uncontrolled defecation. It looked like an epileptic attack, but the dog had never had one before. On 07 OCT 2018, the dog was euthanized because its condition did not improve. The attending veterinarian's level of suspicion is unknown. A few months earlier, the dog had received Bravecto but experienced general depression thereafter. Although the batch for FRONTLINE SPOT ON DOG S is unknown, it was reported to be the same batch as for case AUT-BIAHPV1P-18AT000054. UPDATE 06 NOV 2018: The dog was a small crossbreed, male, castrated and received FRONTLINE COMBO SPOT ON DOGS S (batch, expiry date unknown) administered by the attending veterinarian. A blood test was performed and returned normal results. The attending veterinarian's level of suspicion is high.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 4 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: unknown	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 1 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Emesis Involuntary defecation Epileptic seizure Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 7 kg			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18AT000053

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18AU001182
	Address Rosewood Vet Australia		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 12-01-2003	Date registrant became aware of incident. 10-22-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 46828	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ? Unknown to Company	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18AU001182

Brief description of incident circumstances

As reported by the owner, Wally a 8 year old male intact cattle dog (weight unknown) was administered FRONTLINE SPRAY (batch and expiry unknown) at an unknown dose rate by the owner for parasite control on an approximately 1 DEC 2003. The dog began fitting within a few minutes, stopped breathing and died. It is unknown if veterinary attention was sought. This is the extent of the information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 8 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Convulsion Dyspnoea Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: per Unknown Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18AU001182

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18AU001206
	Address Australia		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-01-2018	Date registrant became aware of incident. 10-29-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 54524	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18AU001206

Brief description of incident circumstances

As reported by a family member, a cat of an unknown signalment, received an unknown dosage form of FRONTLINE PLUS FOR CATS (product unsubstantiated, batch and expiry unknown) for flea control on an unknown date, estimated the 1 JAN 2018 for reporting purposes. At an unknown time, (estimated the 1 OCT 2018 for reporting purposes) the cat died. It is unclear if it was treated or if a post mortem was carried out. This is the extent of the information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: unknown	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 9 Month(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown per Unknown Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18AU001206

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Emma Unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18AU001282
	Address Australia		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-05-2018	Date registrant became aware of incident. 11-12-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 46828	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Entire Body	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18AU001282

Brief description of incident circumstances

As reported by the owner, a female, entire, approx. 7 week old, American Bulldog, weighing approx 4.5kg, was administered FRONTLINE SPRAY (FIPRONIL, batch and expiry unknown), topically for flea and tick control by the owner on the 4 NOV 18. The next day, the owner found a paralysis tick on the pup. The pup was showing signs of paralysis, was taken to the vet and was treated with tick anti serum but did not respond well and was euthanized on an unknown date (estimated as 6 NOV 2018 for reporting purposes). This is the extent of the information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 7 Week(s) - * Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 1 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Tick anti serum,	List signs/symptoms/adverse effects Lack of efficacy Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 6 ml/kg per 1 animal Expose duration: 0 Day(s) Patient weight: 4.5 kg*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18AU001282

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18BR006813
	Address Ex. 6 PP – personal address Brazil		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-12-2018	Date registrant became aware of incident. 10-24-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 4.913/94	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). parts of the body	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18BR006813

Brief description of incident circumstances

Suspected Lack of Efficacy Claim: As reported by the pet owner, Maju, a female mixed breed cat of 45 days old and 500 g, was treated with FRONTLINE SPRAY (006/17, unknown exp date, topical, parts of the body), applied by the reporter on 9 Oct 2018 and 11 Oct 2018, for flea treatment. Lack of efficacy suspected because the pet remained with fleas. The environment was treated with FL. There are 4 other untreated dogs in this household. On 13 Oct 2018, the pet presented some symptoms and died (see case 18BR006814). No further information is available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 45 Day(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 3 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Lack of efficacy Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown per 1 animal Expose duration: 2 Day(s) Patient weight: 500 gms			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18BR006813

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Dr THAIA ALBRECHT LARA DANTES	Internal ID # 18BR006747
	Address Ex. 6 PP – personal address Brazil		Address CLÍNICA VETERINÁRIA MODELO RUA SANTA TEREZINHA, 920 TIETÊ, SP 18530000 Brazil	
	Phone # Ex. 6 PP – personal phone		Phone # (15)32851655	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-12-2018	Date registrant became aware of incident. 10-22-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 4.913/94	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). parts of the body	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18BR006747

Brief description of incident circumstances

Suspected Adverse Event: As reported by the pet owner, Amora, a female Pomeranian of 3 months old and 1.2 kg, was treated with FRONTLINE SPRAY (FL) (003/17, unknown exp date, topical, parts of the body), applied by the reporter on 12 Aug 2018, around 10 am. The pet was in good health prior to FL and had no history of adverse reactions. Approximately 2 hours after product application, the pet presented with hypersalivation and suddenly she died. FL was applied in the past with no issue. No necropsy was performed. There are other animals in this household that were treated with FL and they didn't present any problem. This is the extent of the information available. UPDATE 24 OCT 2018 - According to the vet, the owner only called her to inform about the death of Amora. The vet believes that FL didn't cause the animal's death. No further information is known.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 3 Month(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 6 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Hypersalivation Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown per 1 animal Expose duration: Patient weight: 1.2 kg			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18BR006747

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18BR006814
	Address Ex. 6 PP – personal address Brazil		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-12-2018	Date registrant became aware of incident. 10-24-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 4.913/94	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). parts of the body	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18BR006814

Brief description of incident circumstances

Suspected Adverse Event: As reported by the pet owner, Maju, a female mixed breed cat of 45 days old and 500 g, was treated with FRONTLINE SPRAY (006/17, unknown exp date, topical, parts of the body), applied by the reporter on 9 Oct 2018 and 11 Oct 2018, for flea treatment. Some days after product application, the pet started presenting apathy and anorexia. She was taken to the vet on 13 Oct 2018 and died. The vet mentioned 'intoxication'. SLOE case reported on 18BR006813. There are 4 other untreated dogs in this household. No further information is available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 45 Day(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 3 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Lethargy Anorexia Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown per 1 animal Expose duration: 2 Day(s) Patient weight: 500 gms			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18BR006814

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Dr Alfonso Toyos	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18ES000861
	Address Animals Cantabria Hospital Veterinario Avenida de los Castros 73 Bajo Santander Cantabria 39005, Spain		Address --UNKNOWN--	
	Phone # +34 942070900		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 12-26-2018	Date registrant became aware of incident. 12-27-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 1534 ESP	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE COMBO SPOT ON DOGS M	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18ES000861

Brief description of incident circumstances

Suspected Adverse Event: As reported by the attending vet, a 4 year-old and 4 kg bw European male neutered cat received half a pipette of FRONTLINE COMBO SPOT-ON DOGS 10-20 KG (batch and expiry date unknown) topically administered by the animal owner on 26DEC2018. The other half pipette was administered to the dog of the owner. About 15-20 minutes after product administration the cat experienced nystagmus, ataxia, incoordination, abnormal breathing and respiratory signs. Finally the animal died the day after (27DEC2018). Although a pipette for dogs was applied to the cat and at a high concentration, the attending vet found very rare such a serious reaction taking into account that fipronil and s-methoprene are also used in the cat's pipettes. Supposedly the animal did not have any other problem/disease. He had already received other pipettes from Frontline brand.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 4 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Nystagmus Ataxia Ataxia Dyspnoea Respiratory tract disorder NOS Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 0.5 dosage form per 1 animal Expose duration: 0 Day(s) Patient weight: 4 kg			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18ES000861

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18FR001466
	Address France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-13-2018	Date registrant became aware of incident. 10-18-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/8481982 4/1996	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON CAT	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT-ON CHAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18FR001466

Brief description of incident circumstances

Suspected Adverse Event: As reported by the animal's owner, an hedgehog (unknown signalment and health condition prior to product administration) received one pipette of FRONTLINE SPOT-ON CHAT (BN and exp. date: unknown) administered by the owner around 12 OCT 2018. 24 hours after product administration, the animal died. No further information was available at the time of this report. Off-label use: unauthorised species.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 1 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Once Expose duration: 0 Day(s) Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18FR001466

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18FR001819
	Address France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-15-2018	Date registrant became aware of incident. 12-12-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/8481982 4/1996	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON CAT	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT-ON CHAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Neck	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18FR001819

Brief description of incident circumstances

Suspected Adverse Event: As reported by the animal's owner, a female European kitten, less than 1 year old, more than 1 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHAT (BN: S0135AX, Exp. date: 12 FEB 2020) administered topically in the neck between the ears mid NOV 2018. 1 hour after product administration, on the same day at 8:00 pm, the animal experienced convulsion and panting. It was brought to the vet (unknown) but died on the following day. Note: the animal had already been treated with FRONTLINE COMBO SPOT-ON CHAT (unknown dates).

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 1 Year(s) - * Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Convulsion Tachypnoea Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Once Expose duration: 0 Day(s) Patient weight: 1 kg*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18FR001819

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18JP000585
	Address Japan		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-30-2018	Date registrant became aware of incident. 10-25-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 15 Sho-An 1979	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18JP000585

Brief description of incident circumstances

As reported by the animal owner, in Oct 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an about 5 years old, female, intact cat (Breed and BW: unknown), which is one of his cats. Subsequently, in Oct 2018, the cat gave birth to three kittens, of which a small and frail female kitten died on the day of birth. The two kittens died at about a week old. In the past, two other cats that lived in the same house also died after administration of Frontline Plus Cat.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 5 Year(s) - * Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Runt		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18JP000585

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18JP000586
	Address Japan		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-30-2018	Date registrant became aware of incident. 10-25-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 15 Sho-An 1979	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18JP000586

Brief description of incident circumstances

As reported by the animal owner, in Oct 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an about 1.6 kg adult cat (Breed and Sex: unknown), which was one of his cats. Subsequently, the cat died. (Date of death is unknown.)

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 1.6 kg*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18JP000586

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18JP000587
	Address Japan		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-31-2018	Date registrant became aware of incident. 10-25-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 15 Sho-An 1979	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18JP000587

Brief description of incident circumstances

As reported by the animal owner, on 17 Jul 2018, Frontline Plus Cat (Lot number and Expiry date: unknown, topical, 0.5 mL) was administered to an abiyt 1.6 kg adult cat (Breed and Sex: unknown), which was one of his cats. Subsequently, the cat died.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 1.6 kg*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18JP000587

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name D M	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18NL000243
	Address WITHHELD Netherlands		Address --UNKNOWN--	
	Phone # WITHHELD		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-17-2018	Date registrant became aware of incident. 12-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) REG NL 8921	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON CAT	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT ON KAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18NL000243

Brief description of incident circumstances

On 19 Nov 2018, the attending vet contacted Elanco to report an adverse event associated to Comfortis in 2 to 3 year, 4.6 kg, male neutered domestic-shorthair feline of an unknown condition. The cat was having very bad flea infestation so the owner had washed the cat with dish cleaner on 15 Nov 2018 afternoon but that did not work well so in the evening on the same day, the owner applied a spot on. That was also does not had any good result. The owner came to the vet and bought a Comfortis tablet for both cats in the household. The cats were not seen by the vet. The owner administered the Comfortis 270mg tablet Saturday morning at 5:30 am on 17 Nov 2018. The cat was fine all day, eating, drinking and playing. Then on 17:00h the same day, the animal was suddenly found dead under the kitchen table. The other cat was fine. The attending veterinarian expressed a Medium level of suspicion that the sign was related to product use. Elanco considers this case closed; additional information will be filed as received.

Update 3 Dec2018: The necropsy results were updated. Animal with moderate pulmonary congestion and edema and marked congestion of the liver. These lesions were commonly seen in cats suffering from a functional heart problem. The lesions of spinosad intoxication in cats have not been described as far as we know. In other species, (rats and dogs) chronic spinosad intoxication causes vacuolization of lymphoid tissue as well as epithelial cells; no such lesions were present in this case. In addition, no signs of hepatitis or hepatic necrosis, as observed in idiosyncratic toxicity were present either. The mineralization seen in the kidney are considered to be of small importance regarding the death of the animal. The toxoplasma bradyzoites are likely of small relevance in this case due to the lack of associated inflammatory infiltration in the brain of this animal as well as the lack of neurological signs. The cat was well muscled and with prominent fat deposits.
Moderate autolysis. The lungs were poorly collapsed and markedly and diffusely dark red, wet and shiny (edema and congestion), additionally, at cut surface, pale red serous fluid oozed from the organs parenchyma (edema). At the trachea, a moderate amount of white foam was seen (compatible with edema). The heart weighs 18gr and throughout the myocardium of left and right ventricle, there were multifocal white/pale red areas. The liver was diffusely and mildly enlarged. Additionally, when cut a mild amount of dark red fluid oozes (congestion). The stomach was poorly filled with partially digested pale brown content, the small and large intestine was moderately filled with pale brown content. The lungs showed a moderate, multifocal thickening of the alveolar walls due to the engorgement of large blood vessels and capillaries (acute congestion). The liver portal vessels as well as circumscribing the periportal sinuses are markedly engorged by erythrocytes (acute congestion). The kidney was Multifocal, the vessels surrounding the tubules are moderately engorges (congestion). Additionally, multifocal small highly basophilic, gritty like material surrounding and within the tubuli found at the medulla (mineralization). Cortex, brain: The grey matter has a mild to moderate increase in glial cells (gliosis), additionally, multifocal 1-2 m, oval to round organisms grouped together into packets or cysts (toxoplasma bradyzoites) 35-30micron in diameter. The heart shows no microscopical changes. Elanco considers this case closed; additional information will be filed as received. 10-12-2018 CA: changes: time to onset of 12 hours), VeDDRA term (Found dead), primary source classification Comfortis (B), additions: reaction end date (17/11/2018), MAH (Boehringer Ingelheim), ATC Vet code (QP53BX03), use according to label Comfotis (YES).
[Reason for use for product:
Generic: Spinosad
Brand: Comfortis 270 mg
Reason: Flea treatment

Generic: fipronil
Brand:
Frontline Spot On
Reason: Unknown.]

[State of health: Unknown]

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 2 - 3 Year(s)* Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death Abnormal test result		If lab tests were performed, list test names and results(If available submit report). All other tests All other tests
Exposure data: Amount of pesticide: 1 dosage form Expose duration: 1 Day(s) Patient weight: 4.6 kg			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

LABORATORY TESTS

Test Date : 11-19-2018
Test Name : All other tests
Test Result : abnormal

Test Date : 11-19-2018
Test Name : All other tests
Test Result :

Test Note

Necropsy Results ;Tested on 03-December-2018 Result : abnormalOn 3 Dec 2018, Necropsy was performed and there are significant abnormalities (Details were explained in the narrative).

Internal ID #

18NL000243

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18UK002477
	Address Ex. 6 PP – personal address United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-01-2018	Date registrant became aware of incident. 10-14-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4268	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS SPOT ON DOGS L	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18UK002477

Brief description of incident circumstances

As reported by the animal owner, a male Labrador of unknown age, reproductive status, weight and condition, was administered FRONTLINE PLUS SPOT ON DOG L (batch R60906AR, expiry unknown) topically to the back of the neck by the animal owner, at a dose 1 dosage form on 16 JUL 2018 as a parasiticide. The animal is reported to have a thick, black coat, and to be so old that it was unable to scratch himself. The animal owner reports that the animal was put down a few weeks later. Start date added for submission purposes only.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 dosage form per 1 animal Expose duration: 0 Day(s) Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18UK002477

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18UK002502
	Address United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-12-2018	Date registrant became aware of incident. 10-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4133	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON CAT	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT ON CAT	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18UK002502

Brief description of incident circumstances

As reported by the animal owner, Willow, an approximately 19 year old female neutered Domestic Shorthair feline, of unknown weight and condition, was administered FRONTLINE SPOT ON CAT (batch and expiry unknown) via an unknown route to an unknown site, by an unknown administrator at an unknown dose and frequency, from approximately 2016 (estimated 01 JAN 2016) as a parasiticide. On 12 OCT 2018 the animal was found collapsed and unresponsive. The cause was unknown. The animal was euthanased later the same day. The animal owner reported that the animal had a good appetite but had been losing weight recently (date of onset not known).

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 19 Year(s) - * Sex : Female Occupation (if relevant)	Exposure route: unknown	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 2 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) euthanasia	List signs/symptoms/adverse effects Loss of consciousness Loss of consciousness Death Weight loss		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: per Unknown Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18UK002502

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18UK002508
	Address Parkhill Vet Ltd Wetherby West Yorkshire LS22 5DZ United Kingdom		Address --UNKNOWN--	
	Phone # 01937 582 025		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-14-2018	Date registrant became aware of incident. 10-16-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) EU/2/04/048/001	EPA Registration # (Product 2) EU/2/13/157/001-007	EPA Registration # (Product 3) Vm 08327/4113
	A.I. (s) PUREVAX RCP FELV	A.I. (s) FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTEL 8.3% / EPRINOMECTIN 0.4% SPOT ON	A.I. (s) FIPRONIL SPRAY
	Product 1 name PUREVAX RCP FeLV	Product 2 name BROADLINE SPOT-ON SOLUTION FOR CATS < 2.5	Product 3 name FRONTLINE SPRAY
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Injectable	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No Applicator certified PCO? No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18UK002508

Brief description of incident circumstances

As reported by the attending veterinary surgeon, Grace, neutered female intact Domestic Short-haired cat (date of birth 05 AUG 2018), weighing 0.55 kg and of good health, was vaccinated with PUREVAX RCP FELV (batch number: L457950 and expiry date: 04 NOV 2019) subcutaneously on 12 OCT 2018 administered by the veterinary surgeon, as the cats 1st vaccination. The cat was also given a health check at the same time and no abnormalities were detected. BROADLINE SPOT-ON SOLUTION FOR CATS < 2.5 kg (batch number: CES009BAA and expiry date: 31 MAR 2020) was also administered the same day by the animal owner, when they returned home. The owner was confident that no ingestion of the product occurred. The cat originally presented at the veterinary practice as a stray on 11 SEP 2018, the cat was snotty and had conjunctivitis and was given FRONTLINE SPRAY, Milbemax and Fucithalmic eye drops. The cat was rehomed after 6 days, the cat was described as bright as a button at this time. On the morning of 15 OCT 2018 at 8:30 am the cat was presented to the vet, the cat had a snotty nose, runny eyes, the cat's 3rd eye lids were visible and the cat's temperature was over 40.3°C. The cat had experienced vomiting and diarrhoea, the previous evening on 14 OCT 2018. The cat's heart and lungs were ok and the cat was given METACAM 2 MG/ML SOLUTION FOR INJECTION FOR CATS 0.05 ml 0.2% cat (at a dose of 0.18 mg/kg) the cat then when home for supportive care and to be observed. On 15 OCT 2018 in the evening at approximately 9pm the cat was brought into the see the vet again, the owner reported that the cat was asleep most of the day, not eating or drinking until 5pm (the cat had eaten a tablespoon of food) and then went back to sleep. At 8.15pm the cat experienced muscle tremors and was ataxic all over. The cat collapsed but was conscious, could not walk, the cat's temperature was 40.9°C and the cat's 3rd eyelids were over. Bloods were taken and IV fluids and rectal diazepam were given on the morning of 16 OCT 2018, the cat was bright alert and responsive and was eating and drinking but had obvious neurological signs. The cat was ataxic and had tension tremors. Blood tests revealed a low urea and creatinine and high total protein and globulins. The blood test also revealed low amylase and low red blood cells the PCV was also low at 22% - 24%. The cat's temperature was at 39.2°C so was gradually coming down, the cat was still clearly ataxic and had neurological problems. The owner had 3 other kittens that all came in on the same day for their PUREVAX vaccine (the same batch used) were all reported to be fine.
UPDATE 17 OCT 2018: It is reported that on 17 OCT 218 the neurological signs were worsening, and described as not seizures as such, intention tremors, rolling when trying to move. The animal was conscious. The animal is no longer able to eat, even with help as it could yesterday. The animal's temperature was still elevated but not as bad as yesterday (16 OCT 2018). The attending vet reports that the animal is still on IVFT and they had to give rectal diazepam in the morning of 17 OCT 2018 due to the severity of signs. The animal was tested for FIV and FeLV which were both negative, and the animal was treated for Toxacara on advice from a neurologist but there was no improvement. On 18 OCT 2018 the animal was worse and on 19 OCT 2018 the animal was comatose and non-responsive. The animal was put to sleep. The other three kittens remain unaffected.

Demographic information: Age: 10 Week(s) - Sex : Female Occupation (if relevant)	Exposure route: SC-subcutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 2 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) IVFT, rectal diazepam	List signs/symptoms/adverse effects Protrusion membrana nictitans Hyperthermia Emesis Diarrhoea Somnolence Anorexia Muscle tremor Ataxia Abnormal test result Change in blood protein Change in blood protein Disorder of red blood cell NOS Anaemia NOS Neurological disorder NOS Adipsia *See continuation page*		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 dosage form per 1 animal Expose duration: 0 Day(s) Patient weight: 0.55 kg			
Human severity category			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #
18UK002508

* approximate

Row 2 : Pesticides Involved - continued

EPA Registration # (Product 4) EU/2/97/004/039

A.I. (s) Metacam meloxicam 2 mg/ml solution for injection cats

Product 4 name Metacam 2 mg/ml solution for injection for cats

Exposed to contrentate prior to dilution ?

Formulation Solution for Injection

Page 3. List signs/symptoms/adverse effects - continued

Collapse NOS

Respiratory tract disorder NOS

Eye disorder NOS

Death

Behavioural disorder NOS

Coma

Loss of consciousness

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18UK002573
	Address Ambivet Veterinary Group 409 Aspley Road Nottingham Nottinghamshire NG8 5RR, United Kingdom		Address --UNKNOWN--	
	Phone # 01159292552		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-05-2018	Date registrant became aware of incident. 10-23-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4271	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS SPOT ON DOGS XL	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18UK002573

Brief description of incident circumstances

As reported by the attending veterinary surgeon, Jackson, a male intact Rottweiler canine, born 2012 (estimated 01 JAN 2012), weighing 41 kg and in good condition, and one other dog (details unknown) were administered FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG XL, batch and expiry unknown) topically to an unknown site, by the animal owner at a dose of 1 dosage form, on approximately 02 OCT 2018, for an unknown indication. Three to four days later (estimated 05 OCT 2018), Jackson showed some neurological signs; general weakness, falling to one side and dizziness. On 18 OCT 2018 the animal presented to the attending vet with neurological signs; head tilt, lethargic, dizziness, and the animal was eating less than normal, weak and sore on the tail. The animal was given Loxicom and Amoxyclav. On Sunday, 21 OCT 2018, night the animal collapsed and had been unable to walk since this day when the animal was presented to the attending vet on 23 OCT 2018. The animal had severe neurological signs, no deep pain reflex from legs, weak, unable to stand, minimal hind limb movement, barely any front limb movement, hadn't passed any urine over the last few days, weak pulses and cold extremities. The animal had vomited once. The attending vet offered MRI and CT scans but the animal owner did not want to pursue these. The animal was euthanased. The attending vet suspects that something else was probably going on but the animal owner wanted the attending vet to report the case.

Demographic information:	Exposure route:	Was adverse effect result of suicide/homicide or attempted suicide/homicide?	Was protective clothing worn (specify) ?
Age: 6 Year(s) - Sex : Male Occupation (if relevant)	Topical / Cutaneous	No	
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Loxicom, Amoxyclav (also	List signs/symptoms/adverse effects Central nervous system disorder NOS Lethargy Anorexia Lethargy General pain Collapse NOS Ataxia Paralysis Hyporeflexia Musculoskeletal disorder NOS Anuria Systemic disorder NOS Peripheral vascular disorder Death Ataxia *See continuation page*		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 dosage form per 1 animal Expose duration: Patient weight: 41 kg			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #
18UK002573

Page 3. List signs/symptoms/adverse effects - continued

Neurological disorder NOS

Emesis

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 17US090041
	Address Ex. 6 PP – personal address WEST COVINA CA 91791 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-24-2018	Date registrant became aware of incident. 12-19-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 23-44 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 17US090041

Brief description of incident circumstances

Suspected Adverse Event: On 19 Dec 2018, the owner reported the following event for Buddy, a 15 year old, 35 pound, neutered male Cocker Spaniel.
22 Jan 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (lot unknown) was applied to him for the second time.
24 Jan 2018: The dog had blood coming from his mouth, he couldn't walk or stand and he passed away.
The dog has been battling fleas and started FL in Dec 2017, he did not have any issues with the first dose. No further medical information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 15 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 5 Week(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Oral haemorrhage Ataxia Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 5 Week(s) Patient weight: 35 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

17US090041

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Tim Unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US066291
	Address CANTON OH 44706 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-02-2018	Date registrant became aware of incident. 10-03-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-4	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US066291

Brief description of incident circumstances

Suspected Adverse Event: On 2 Oct 2018, the owner reported the following event for a 10 pound cat (signalment unknown).
28 September 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat.
2 Oct 2018: Another application was given. Following the dose the cat went into respiratory arrest and had to be euthanized.
The owner did bomb the home for fleas. The owner declined the report. There is one other treated cat in the home where no symptoms were noted.
No further medical information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 4 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Apnoea Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 4 Day(s) Patient weight: 10 lbs*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US066291

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US066575
	Address Ex. 6 PP – personal address SWANSEA IL 62226 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-11-2018	Date registrant became aware of incident. 10-03-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 45-88 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US066575

Brief description of incident circumstances

Suspected Adverse Event: On 3 Oct 2018, the pet owner reported the following event for King, a 13 year old, approximately 70 pound, intact male, Rottweiler/Labrador Retriever Mix.
31 May 2018*: Dog began received treatment with FRONTLINE PLUS.
11 Sep 2018: Dog received most recent application of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) (FL) topically between the shoulder blades. Following application pet owner stated that it appeared the fleas were attracted to the dog.
23 Sep 2018: Due to the ongoing fleas issue in the home and on the dog, the dog was left outside overnight.
24 Sep 2018: The pet owner found the dog dead and covered with fleas.
The general health of the dog was unknown. The pet owner reported that the dog has been hoarse this year and as a result could not bark loudly, had lockjaw at an unknown time in 2013 and was taking an unknown antibiotic for an ongoing sore on his foot. The veterinary clinic was not contacted. No further medication information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 13 Year(s) - * Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Flea infestation Vocalisation Skin disorders NOS Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose Expose duration: Patient weight: 70 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US066575

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Dr EVE GIDION	Internal ID # 18US066723
	Address Ex. 6 PP – personal address AVONDALE ESTATES GA 30002 U.S.A		Address DEARBORN ANIMAL HOSPITAL 235 DEKALB INDUSTRIAL WAY DECATUR GA, 30030 U.S.A	
	Phone # Ex. 6 PP – personal phone		Phone # 404-377-6477	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-03-2018	Date registrant became aware of incident. 10-03-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-4	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US066723

Brief description of incident circumstances

Suspected Adverse Event: On 3 Oct 2018, the owner reported the following event for an 8 pound, feline (all other signalments unknown).
Sep 2017*: The cat started on an unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. The cat was treated year round (frequency of administration is unknown). The owner was seeing fleas prior to using the product.
29 Sep 2018: The cat was given another dose of the product.
1 Oct 2018: The owner started seeing fleas.
3 Oct 2018: The cat was euthanized because of the fleas.
It is unknown if the cat was seen by a veterinarian or given any treatment. There was another cat treated with a different product. The owner was not seeing fleas in the home. The cats are strictly indoor. No further medical information expected.
UPDATE 9 Oct 2018: The owner reported the following for Alluna, a 16 year old, spayed female, Domestic Shorthair (Crossbreed).
2012*: The cat started on 1 dose of the product given to the cat topically between the shoulder blades. The cat was treated monthly.
The cat was seen by a veterinarian but was not given any treatment. No further medical information expected.
UPDATE 10 Oct 2018: Per veterinarian, the pet was presented by an unkempt pet owner to the clinic for the first time on 3 Oct 2018 laterally recumbent, emaciated, pale/anemic, weighing 3 pounds, and infested with fleas. The veterinarian stated that she found the pet owner's use of FRONTLINE PLUS CATS questionable, and suspected that the pet owner's house was also infested with fleas. The veterinarian also suspected that the pet had underlying disease other than a flea infestation. The veterinarian had a low level of suspicion that the pet's condition was due to a lack of efficacy of FRONTLINE PLUS CATS. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 16 Year(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Loss of condition Recumbency Anaemia NOS Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose Expose duration: Patient weight: 3 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US066723

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Ex. 6 PP – personal name	Internal ID # 18US068282
	Address Ex. 6 PP – personal address HOUSE SPRINGS MO 63051 U.S.A		Address VETCOR House Springs Animal Clinic U.S.A	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-07-2018	Date registrant became aware of incident. 10-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 2596-179-65331	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 9.8% / S-METHOPRENE 11.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE GOLD FOR CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Back	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US068282

Brief description of incident circumstances

Suspected Adverse Event:On 10 Oct 2018, the owner reported the following event for the feline Felix, a 5-10 pound*, 4 year old, male neutered, Domestic Shorthair.
7 Oct 2018: One vial of the FRONTLINE GOLD FOR CATS (Lot unknown) was applied topically between the shoulder blades and down the back.
The pet had symptoms of extreme lethargy. The pet was not presented to a clinic.
10 Oct 2018: The pet was found that morning deceased.
The owner has used FRONTLINE PLUS CATS on the pet previously from an unknown start date almost a year ago as a seasonal user.No further medical information is expected.
UPDATE 11 Oct 2018: Per veterinary staff, the pet's remains were sent to a university veterinary diagnostic lab on 10 Oct 2018 for necropsy. No further medical information at this time.
UPDATE 12 Oct 2018: Per veterinarian via voicemail, necropsy results revealed urethral obstruction. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 4 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Lethargy Death Urinary tract disorder NOS		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 5 - 10 lbs*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US068282

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US068348
	Address MONUMENT EAST VETERINARY HOSPITAL 1051 N HARRISON RD TUCSON AZ, 85748 U.S.A		Address --UNKNOWN--	
	Phone # 520-298-9251		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-07-2018	Date registrant became aware of incident. 10-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-1	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US068348

Brief description of incident circumstances

Suspected Adverse Event:On 10 Oct 2018, the vet tech reported the following event for the canine Zoey a 1.6 lbs., female intact, 13 week old, Maltese and Yorkshire Terrier Mix.
28 Sep 2018: Two sprays of the FRONTLINE SPRAY (H03401A) was applied topically, 1 spray to the pet's body and 1 spray on a gauze to apply to the pet's face and extremities.
7 Oct 2018: The pet was presented to the clinic deceased.
The pet was also given a NOBIVAC Canine 1- DAPPv that day. No further medical information is expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 13 Week(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 9 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 1.10 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US068348

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US070601
	Address Autumn Trails Vet 2407 HYDRAULIC RD CHARLOTTESVILLE VA, 22901 U.S.A		Address --UNKNOWN--	
	Phone # 434-971-9800		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-11-2018	Date registrant became aware of incident. 10-18-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 2596-179-65331	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 9.8% / S-METHOPRENE 11.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE GOLD FOR CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Back	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US070601

Brief description of incident circumstances

Suspected Adverse Event: On 18 Oct 2018, the office manager reported the following event for Lilly, a 14 year old, 13.8 pound, spayed female Domestic Shorthair.
11 Oct 2018: At 10:45 a.m the cat was treated with one vial of FRONTLINE GOLD CATS (FLGLD) (PP31971) in the clinic. At 6:00 p.m. the cat was hypothermic, bradycardic, and vomiting. The cat was given warm fluids, but ultimately passed away.
The cat was boarding at the clinic for 5 days and vomited one hair ball the previous night before the application was given, but the reported explained she was fine and normal before the treatment was given. The cat received her last treatment of FLGLD in May 2018 with no issues (it is unknown by the reporter how long the cat has been on FLGLD). There is one other treated cat that did not have any issues after receiving the treatment. No further medical information available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 14 Year(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 5 Month(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) warm fluids	List signs/symptoms/adverse effects Hypothermia Bradycardia Emesis Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 13.8 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US070601

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US072848
	Address Ex. 6 PP – personal address BAY CITY MI 48706 U.S.A		Address BAY AREA VETERINARY GROUP 6015 WESTSIDE SAGINAW RD BAY CITY MI, 48706 U.S.A	
	Phone # Ex. 6 PP – personal phone		Phone # 989-686-0703	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-22-2018	Date registrant became aware of incident. 10-29-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 45-88 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US072848

Brief description of incident circumstances

Suspected Adverse Event: On 29 Oct 2018, the owner reported the following event for a Golden Retriever (all other signalments unknown).
21 Oct 2018*: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at unknown location.
22 Oct 2018*: The dog passed away. No symptoms were noted prior. It is unknown if the pet presented to the clinic.
No further medical information is expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 1 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US072848

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Unknown unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US077023
	Address U.S.A		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-15-2018	Date registrant became aware of incident. 11-19-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 2596-178-65331	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE GOLD DOG 89-132 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US077023

Brief description of incident circumstances

Suspected Adverse Event: On 16 Nov 2018, the distributor reported the following event for a dog (signalment unknown).
*1 Nov 2018: One vial of FRONTLINE GOLD DOG 89-132 LBS (lot unknown) was applied to the dog.
A few weeks following the application on an unknown date the dog had a seizure and passed way. No further medical information is known

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 2 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Convulsion Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown Expose duration: Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US077023

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Don Unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US077647
	Address Unknown U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-10-2018	Date registrant became aware of incident. 11-21-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-3	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON DOG	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE TOP SPOT DOGS 89-132 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US077647

Brief description of incident circumstances

Suspected Adverse Event: On 21 Nov 2018, a pet owner reported the following event for a canine of unknown signalment.
Unknown date: The dog had liver problems and the owner used FRONTLINE TOP SPOT DOGS (product unsubstantiated)(lot unknown) for an unknown amount of time. Further information unavailable as the owner did not create report. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: unknown	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 9 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Hepatopathy Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown Expose duration: 0 Day(s) Patient weight: Unknown			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US077647

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US078895
	Address Ex. 6 PP – personal address MAYVILLE NY 14757 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-24-2018	Date registrant became aware of incident. 11-29-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 5-22 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US078895

Brief description of incident circumstances

Suspected Adverse Event: On 29 Nov 2018, the owner reported the following event for Riley, a 21 lb, 14 year old, male neutered, Shih Tzu.
24 Oct 2018: One of a vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically in one spot in between the pet's shoulder blades.
The pet began to experience symptoms of vomiting and diarrhea.
25 Oct 2018*: The pet was presented to a clinic and was euthanized at the clinic at an unknown date.
The pet has been using FRONTLINE PLUS DOG 5-22 LBS since 2014*.
There is 1 other dog within the home that were dosed with the same product and was exhibiting similar symptoms see case 18US078905.No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 14 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 4 Year(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Emesis Diarrhoea Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 4 Year(s) 9 Month(s) Patient weight: 21 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US078895

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US080492
	Address Ex. 6 PP – personal address SYCAMORE IL 60178 U.S.A		Address Bethany Animal Hospital 2400 Bethany Rd SYCAMORE IL, 60178 U.S.A	
	Phone # Ex. 6 PP – personal phone		Phone # 815-756-8925	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-14-2018	Date registrant became aware of incident. 12-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 2596-179-65331	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 9.8% / S-METHOPRENE 11.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE GOLD FOR CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US080492

Brief description of incident circumstances

Suspected Adverse Event: On 10 Dec 2018, the owner reported the following event for Sara, 11 years old, 14 pounds*, female spayed, Domestic Shorthair feline.
14 Nov 2018: One vial of FRONTLINE GOLD FOR CATS (PP06681) was applied between the shoulder blades, by the pet owner. This was the first application of the product used on the feline. Pet owner stated that pet hid after application. No other symptoms presented.
18 Nov 2018: The feline died. Pet owner did not present to clinic.
No further medical information is expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 11 Year(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Behavioural disorder NOS Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose Expose duration: 0 Day(s) Patient weight: 13 - 14 lbs*			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US080492

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Audrey Unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US081011
	Address ELIZABETHVILLE VETERINARY HOSPITAL 269 CAMP ST ELIZABETHVILLE PA, 17023 U.S.A		Address --UNKNOWN--	
	Phone # 717-362-3003		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 12-10-2018	Date registrant became aware of incident. 12-26-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 2596-178-65331	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE GOLD DOG 23-44 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Topicals	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Back	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US081011

Brief description of incident circumstances

Suspected Adverse Event: On 26 Dec 2018, the clinic staff reported the following event for Dingger, a 10 year old (20 Jun 2008), 23.9 pound, neutered male, Fox Terrier.
10 Dec 2018: He received 1 dose of FRONTLINE GOLD DOG(23-44 LBS)(lot and expiration unknown). Later that day the dog passed away.
This was the first time the dog had been given FRONTLINE GOLD, and has no history of reactions to any other drugs or vaccines. The clinic and owner do not seem to believe FRONTLINE GOLD was the reason for the death, but since the animal died after use the owner contacted the clinic, and no longer wishes to use the product on any of her animals. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 10 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 23.9 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US081011

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US082098
	Address Ex. 6 PP – personal address BOONE IA 50036 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-01-2018	Date registrant became aware of incident. 12-17-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-4	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS CATS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)).	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US082098

Brief description of incident circumstances

Suspected Adverse Event: On 17 Dec 2018, the owner reported the following event for Lucy, 14 year old, 7 pound, spayed female, Domestic shorthair Feline.
1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41105AW) was applied between the shoulder blades. The cat experienced skin irritation localized at application site. The pet did not present to the clinic. The owner treated with Benadryl
3 Aug 2018: The cat recovered.
14 Nov 2018: The cat passed away.
The cat has received the product seasonally since 1 Aug 2016 and no symptoms presented. There is one other cat in the household that also received the product and experienced symptoms (see case 18US082095). No further medical information is expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 14 Year(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 24 Month(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Bendaryl	List signs/symptoms/adverse effects Application site reaction NOS Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 7 lbs			
Human severity category D-A			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US082098

* approximate

Version : unapproved

BICHON FRISE CASES

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18BR006904
	Address Ex. 6 PP – personal address Brazil		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-25-2018	Date registrant became aware of incident. 10-26-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 5.765/96	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON DOG	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT-ON DOGS S	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18BR006904

Brief description of incident circumstances

Suspected Lack of Efficacy Claim: As reported by the pet owner, Guga, a male Bichon Frise of 15 years old and 7 kg, received FRONTLINE SPOT-ON DOGS S (FL) (lot and exp date unknown, topical, btw the shoulder blades) for the first time, administered by the reporter on 23 Oct 2018 for flea treatment. She believes that FL is not working because she found 2 fleas on her pet on 25 Oct 2018. This dog has outdoor access. The environment has not been treated. No further information is available.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 15 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 2 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Lack of efficacy		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 7 kg			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18BR006904

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name H P	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18UK002740
	Address EC United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-22-2018	Date registrant became aware of incident. 11-07-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4132	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPOT ON DOG	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE SPOT ON DOG S	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown use	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18UK002740

Brief description of incident circumstances

On 22 Oct 2018 a male 3 year old Bichon Frise 8kg dog had 0.67ml Frontline Spot on Dog 10% w/v Spot on Solution 2-10 kg applied. (NCA best guess product). Within 24 hours the dog was shaking and hair loss, redness, scabs appeared. Pet owner called their vet, the advice was to shower the treatment off, the dog immediately started to feel better after, and 10 days later is doing well.

Demographic information: Age: 3 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: other	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 1 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Systemic disorder NOS Application site hair change Application site erythema Application site lesion		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 dosage form per 1 animal Expose duration: 0 Day(s) Patient weight: 8 kg			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #
18UK002740

* approximate

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Maria Unknown	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US065581
	Address ROSELLE PARK NJ 07204 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-01-2018	Date registrant became aware of incident. 10-01-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 5-22 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US065581

Brief description of incident circumstances

Suspected Adverse Event: On 1 Oct 2018, a pet owner reported the following event for a Bichon Frise and minature poodle mixed breed canine.
The dog was treated with FRONTLINE PLUS (lot number unknown) (product unsubstantiated) on an unknown date. The dog developed redness on the hair coat at the application site of FRONTLINE.
No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: Unknown - Sex : Unknown Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Application site hair change		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Unknown Expose duration: Patient weight: Unknown			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US065581

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US069776
	Address Ex. 6 PP – personal address LOUISVILLE KY 40245 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 10-09-2018	Date registrant became aware of incident. 10-16-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 5-22 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Back	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US069776

Brief description of incident circumstances

Suspected Adverse Event: On 16 Oct 2018 the pet owner reported the following event for Daisy, 6 month old, 10 pound, intact female, Bichon Frise.
8 Sep 2018: 1 vial of FRONTLINE DOG 5-22 LBS (F60717AX) was applied down the spine of the pet.

*10 Sep 2018: The dog began to experience hair loss on the hind quarters and no fleas are present on the pet.
*13 Sep 2018: The dog presented to the vet clinic and was injected with Convenia and prescribed Apoquel 3.6 mg.
*27 Sep 2018: The dog recovered.
8 Oct 2018: Another vial was applied in between the shoulder blades.
*9 Oct 2018: The pet began to experience hair loss of the hind quarters.
10 Oct 2018: The dog presented to the vet clinic and was prescribed an unknown shampoo and put on Bravecto.
15 Oct 2018: The pet presented to the vet clinic and was injected with Cytopoint and prescribed Amoxi.
Symptoms are ongoing.
No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 6 Month(s) - Sex : Female Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 31 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Convenia injection,	List signs/symptoms/adverse effects Alopecia		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 10 lbs			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US069776

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter)	Internal ID # 18US073021
	Address Ex. 6 PP – personal address KITTANNING PA 16201 U.S.A		Address --UNKNOWN--	
	Phone # Ex. 6 PP – personal phone		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-01-2014	Date registrant became aware of incident. 10-29-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 5-22 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Unknown	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US073021

Brief description of incident circumstances

Suspected Adverse Event: On 29 Oct 2018, the pet owner reported the following event for Dune, a 7 month old* (born 16 May 2013), 16 pound*, male, Bichon Frise/Shih Tzu mix of further unknown signalment.
Unknown dates: The patient received one vial of unknown FRONTLINE (lot unknown) (product unsubstantiated), applied topically in an unknown location. An unknown duration following application, Dune developed alopecia at the application site. It's unknown if treatment was administered, but on an unknown subsequent date, he recovered.
It's unknown if he has previously received unknown FRONTLINE. It's also unknown if any other products or medications were administered concomitantly or within 31 days prior to application.
In 2015 and 2018, the canine experienced adverse symptoms following NEXGARD ingestion. Please see case 18US072683. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 7 Month(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 0 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Application site hair change		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose Expose duration: Patient weight: 16 lbs			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US073021

* approximate

Version : unapproved

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row 1 Administrative Data	Reporter Name Ex. 6 PP – personal name	Submission date. 01-29-2019	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US076279
	Address Ex. 6 PP – personal address VERNON HILLS IL 60061 U.S.A		Address BANFIELD PET HOSPITAL VERNON HILLS 700 N MILWAUKEE AVE VERNON HILLS IL, 60061 U.S.A	
	Phone # Ex. 6 PP – personal phone		Phone # 847-816-4667	
	Incident Status: New If update,include date of original submission	Location and date of incident. 11-06-2018	Date registrant became aware of incident. 11-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 65331-5	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 10%/S METHOPRENE 9% SPOT ON	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PLUS DOG 5-22 LBS	Product 2 name	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation	Formulation

Row 3 Incident Circumstances	Evidence label directions were not followed? No Intentional misuse No	Incident site: (Examples include home, yard, school, industrial, nursery/ greenhouse, surface water, commercial turf, building/office, forest/woods, agricultural (specify crop), right-of-way, (rail, utility, highway)). Between the shoulders (topical	Situation (act of using product) :(examples including mixing/loading, reentry, application, transportation, repair, maintenance of application equipment, manufacturing/formulating). See Incident Description Notes
	Applicator certified PCO? No		
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff). See Incident Description	Brief description of incident circumstances	

Version : unapproved

Internal ID # 18US076279

Brief description of incident circumstances

Suspected Adverse Event: On 13 Nov 2018, the owner reported the following event for Bailey, a 7 year old, approximately 16 pound, neutered male, Bichon Frise.
2013*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) given topically, between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from Apr-Nov.
1 Nov 2018: The dog received another dose of the product.
6 Nov 2018*: The dog started having blisters at the application site and then over time the blisters burst and the site was bleeding.
The dog was seen by a veterinarian on an unknown date and given Apoquel and Convenia injection. The symptoms are ongoing. No further medical information expected.

Voluntary Industry Reporting Form for 6(a)(2) Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Demographic information: Age: 7 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: Topical / Cutaneous	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify) ?
If female, pregnant ?	Was exposure occupational? If yes, days lost due to illness:	Time between exposure and onset of symptoms: 5 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Apoquel and Convenia	List signs/symptoms/adverse effects Application site blister Application site self trauma		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 Dose per 1 animal Expose duration: Patient weight: 16 lbs			
Human severity category D-D			

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Internal ID #

18US076279

* approximate

Version : unapproved

CERTIFECT CASES

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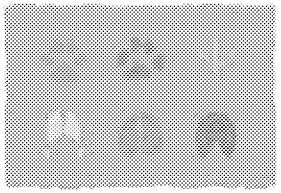
EPA Quarterly Aggregate Report



Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (USA)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: CERTIFECT (incl. non-specific)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 9.8%/S-METHOPRENE 8.8%/ AMITRAZ 22.1% SPOT-ON / 65331-7	1	0	0	0	0	1
Totals	**1**	**0**	**0**	**0**	**0**	**1**

USA off-Label species totals are included

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

Use in Off-Label Species (USA)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: CERTIFECT (incl. non-specific)

Generic Name / Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
FIPRONIL 9.8%/S-METHOPRENE 8.8%/ AMITRAZ 22.1% SPOT-ON / 65331-7	1	0	0	1
Feline	1	0	0	1
Totals	**1**	**0**	**0**	**1**

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

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Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (Extraterritorial)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: CERTIFECT (incl. non-specific)

Generic Name / USA Registration Number	Total Incidents	H-D Human - Minor Effects	H-E Human - Unknown, Unspecified or Delayed Effects	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
No matching records.						

Extraterritorial off-label species totals are incldued

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

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Use in Off-Label Species (Extraterritorial)
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]
Product Family: CERTIFECT (incl. non-specific)

Country Generic Name / USA Registration Number Species	Total Incidents	D-A Domestic Animal - Death	D-B Domestic Animal - Major Effects	D-C, D-D, D-E Domestic Animal - Moderate, Minor, Unknown or Unspecified
No matching records.				

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

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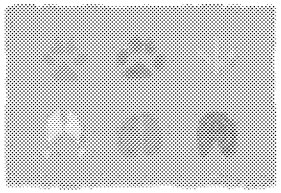
EPA Report



Worldwide Adverse Event Reports Involving - Animal Cases
Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative
08-Oct-2018	UAE; 18US067837; -; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 9.8%/S-METHO PRENE 8.8%/ AMITRAZ 22.1% SPOT-ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Species not indicated / recommended)	08-Oct-2018	08-Oct-2018	0 Day(s)	D-D	Suspected Adverse Event: On 8 Oct 2018, the vet reported the following event for a feline with unknown signalment. 8 Oct 2018: The owner applied 1 dose of CERTIFECT FOR DOGS 45-88 LBS (Lot Unknown). About 6 hours later, the cat vomited and seemed lethargic. The owner bathed the cat in attempt to remove product. Afterwards, the cat was reportedly sleeping. At the time of call, the pet did not present to clinic so no medications were given. The cat's current status is unknown. No further medical information expected. UPDATE 22 OCT 2018: Per attending veterinarian, pet did not have any evidence of bradycardia on the night of 8 Oct 2018 and was fully recovered the next day on 9 Oct 2018. No further medical information expected.

N/A signifies the information for this field is either not available or not applicable

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

Report printed on 29-Jan-2019 at 9:03:25PM

Report : D:\Assured\crystal_reports\EPAreport.p2.4.rpt

Sex Codes: M = Male, U = Unknown, Mixed = Mixed population - male(s) and female(s)
* indicates Approximate date or weight

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Worldwide Adverse Event Reports - Human Cases

Reporting Period: 01-Oct-2018 to 01-Jan-2019 [1]

Date case Received	Case type; Case Reference; State and Country of Occurrence	Patient	# Treated	# Reacted	# Died	Product(s)	Product Start Date	Date Reaction Started	Time to Onset	EPA Code	Event Narrative

No matching records.

N/A signifies the information for this field is either not available or not applicable

1. Due to system limitations, the end date is displayed as the first day of the current quarter, however only cases with a date first valid in the evaluated quarter are displayed.

Report printed on 29-Jan-2019 at 9:03:33PM

Report : D:\Assured\crystal_reports\EPAreport.p2.4.rpt

Sex Codes: M = Male, U = Unknown, Mixed = Mixed population - male(s) and female(s)

* indicates Approximate date or weight

From: helpdesk@epacdx.net
To: McAlister,Leann (AH GI RA PV) BIAH-US-D
Subject: CDX PSP Package Transmitted to OPP
Date: Thursday, March 25, 2021 3:22:27 PM

CAUTION! Please do not click links or open attachments unless you recognize the sender, this email is from an **External Sender** (outside Boehringer-Ingelheim)

Your PSP package (20210325_Resubmission_CoverLetter_EPAAggregateReport4Q18) for BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC. (65331) has been successfully transmitted to OPP.

Below are the application(s) included in this package and their tracking number(s):
Sec3-6(a)(2)-000001: CDX_2021_003351
Sec3-6(a)(2)-000002: CDX_2021_003352
Sec3-6(a)(2)-000003: CDX_2021_003353
Sec3-6(a)(2)-000004: CDX_2021_003354
Sec3-6(a)(2)-000005: CDX_2021_003355
Sec3-6(a)(2)-000006: CDX_2021_003356

Company Name: BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.
Company Number: 65331

If you have questions concerning this message, you may contact the CDX Help Desk by email at helpdesk@epacdx.net or by calling the CDX Technical Support Staff through our toll free telephone support on (888) 890-1995 between Monday through Friday from 8:00 am to 6:00 pm EST/EDT. For International callers, the CDX Help Desk can also be reached at (970) 494-5500.

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