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
											symptoms presented. No further medical information expected.
05-Jul-2018	UAE; 18US042302; SC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 56 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-Feb-2018	01-Jun-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Jun 2018, the owner reported the following event for a 56 pound, canine (all other signalment unknown) 1 Jun 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at a unknown location. The pet experienced intense itching and chewing It is unknown if the pet was presented to the clinic or if any treatment was provided. The pet has received the product since 1 Feb 2018, it is unknown if symptoms presented. There are 2 other dog in the household that also received the product and experienced symptoms (see case 18US040266, 18US042304). No further medical information is expected.
05-Jul-2018	UAE; 18US042304; SC; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 32 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-Feb-2018	01-Jul-2018*	30 Day(s)	D-D	Suspected Adverse Event: On 27 Jun 2018, the owner reported the following event for a 32 pound, canine (all other signalment unknown) 1 Jun 2018: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied topically at a unknown location. The pet experienced intense itching and chewing It is unknown if the pet was presented to the clinic or if any treatment was provided. The pet has received the product since 1 Feb 2018, it is unknown if symptoms presented. There are 2 other dog in the household that also received the product and experienced symptoms (see case 18US040266, 18US042302). No further medical information is expected.
05-Jul-2018	UAE; 18US042319; NY; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 108 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)	28-Jun-2018	29-Jun-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 5 Jul 2018, the owner reported the following event for Oliver, a 1 year old, 108 pound, intact male, German Shepherd Dog. 28 Jun 2018: 1 vial of FRONTLINE PLUS DOG 89-132 LBS (P62301AR) was given to the dog topically from the shoulder blades to the tail, by the owner. This was the first dose applied. 29 Jun 2018: The dog had scabbing at the application site and along the spine to the backside. The dog was losing hair all over the body. The dog was seen by the veterinarian and given Depo Medrol injection and Cephalexin. The symptoms are ongoing. No further medical information expected.
05-Jul-2018	UAE; 18US042322; PA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **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 /	02-Jul-2018*	02-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 5 Jul 2018, the owner reported the following event for Midnight, a male, feline (all other signalments unknown). 2 Jul 2018: 2 doses of FRONTLINE PLUS CATS (S40301AX) was given to the cat 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 cat was lethargic, did not pur, was urinating, would not respond to its name, and was not eating.

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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?:** No (Overdose)					It is unknown if the cat was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
06-Jul-2018	UAE; 18US042447; FL; U.S.A	**Species:** Canine **Breed:** Beagle **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	06-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for a Beagle canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at a unknown location. The pet experienced itching due to unknown black bumps coming out the skin. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. The pet has received the product for a unknown amount of years. There is one other dog in the household that also received the product and experienced symptoms (see case 18US043424). No further medical information is expected.
06-Jul-2018	UAE; 18US042449; -; U.S.A	**Species:** Canine **Breed:** Eskimo (Spitz) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 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?:** No (Overdose)	01-Jan-2013*	05-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for an approximately 40 pound, neutered male, Eskimo (Spitz). Unknown Date: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R50205AR) 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 was lethargic. 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. UPDATE 12 Jul 2018: The owner reported the following for Buddy, a 10 year old, canine. 2013*: The dog started on 1 vial of the product applied topically between the shoulder blades. The dog was treated monthly on a seasonal basis from Apr-Oct. 4 Jul 2018: The dog received another dose of the product. 5 Jul 2018: The symptom started. 7 Jul 2018: The dog recovered. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
06-Jul-2018	UAE; 18US042455; IN; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 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-Mar-2018*	05-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Jason, 2 year, 15 pound, neutered male, Maine Coon feline. 4 Jul 2018: One vial of FRONTLINE PLUS CATS (P40602AW) was applied between the shoulder blades. The pet may have ingested the product. 5 Jul 2018: The pet experienced anorexia, lethargy, and inability to focus eyes. 6 Jul 2018: The symptoms are still ongoing. The pet has received the product since 4 Mar 2018* and no symptoms presented.No further medical information is expected.
06-Jul-2018	UAE; 18US042492;	**Species:** Canine **Breed:** Retriever	1	1	0	**Product used:** FIPRONIL	05-May-2018	05-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Bo, 2 year old, 85 pound, neutered male,

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	MI; U.S.A	(Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 85 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Golden Retriever canine 5 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R60601AR) was applied between the shoulder blades. Immediately the pet experienced itching and irritation at the application site. 6 Jul 2018: The pet experienced a wound at the application site. the pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. The pet received the product since 5 May 2018 and the same symptoms occurred. The pet would recover after 1 week. No further medical information is expected.
06-Jul-2018	UAE; 18US042554; FL; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **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?:** Yes	01-Jun-2018*	08-Jun-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for an approximately 2 pound, spayed female, Domestic Longhair (Crossbreed) (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS CATS (R40202BW) was given to the cat 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 cat had hair loss and skin irritation. It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected. UPDATE 9 Jul 2018: The owner reported the following event for CC, an approximately 2 year old, feline. 1 Jun 2018*: 1 vial of the product was applied topically between the shoulder blades. This was the first application. 8 Jun 2018*: The cat had hair loss and a blister-like scab at the application site. 22 Jun 2018*: The cat recovered. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.
06-Jul-2018	UAE; 18US042592; IL; U.S.A	**Species:** Canine **Breed:** Pit Bull **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?:** No (Species not indicated / recommended)	01-Jan-2018*	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for a Pit Bull (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. An unknown amount of time after the application, the dog was itching and breaking out. 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.
06-Jul-2018	UAE; 18US042656; CA; U.S.A	**Species:** Canine **Breed:** French Bulldog **Sex:** F **Sex qualifier:** - **Age:** 7.00 Month(s) **Weight:** 21 lbs	4	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-May-2018*	05-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Sophie, a 7 month old, 21 pound, non-pregnant non-lactating intact female, French Bulldog. May 2018*: 1 dose of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was given to the dog topically between the shoulder blades, by the owner. This was the first dose applied. The next day the dog was lethargic, was gagging but did not vomit, and was not eating. The dog recovered on an unknown date. 4 Jul 2018: The dog received another dose of 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
						Cutaneous **Was the product used ok?:** Yes					5 Jul 2018: The dog had the same symptoms. 6 Jul 2018: The dog recovered. The dog was not seen by a veterinarian. The owner bathed the dog. No further medical information expected.
06-Jul-2018	UAE; 18US042674; CA; U.S.A	**Species:** Canine **Breed:** Lhasa Apso **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(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?:** Yes	01-Jul-2018	01-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for a Lhasa Apso (all other signalments unknown). 1 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (P61324AL) 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 was vomiting, had diarrhea, and was not eating. 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. UPDATE 17 Jul 2018: The owner reported the following for Buddie, a 5 year old, 19 pound, neutered male. 1 Jul 2018: The first dose of the product was applied topically between the shoulder blades. That night, the symptoms started. 9 Jul 2018*: The symptoms stopped. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
06-Jul-2018	UAE; 18US042703; OK; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(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 (Treatment / vaccination program not respected)	N/A	29-Jun-2018	15 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Bebe, 5 year old, 19 pound, neutered female, Jack Russell Terrier canine. 14 Jun 2018: A portion of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades. 29 Jun 2018: The pet experienced intense itching and a rash on the stomach. The pet was not presented to the clinic. The owner treated with a anti itch spray. 6 Jul 2018: The symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other pets in the household that also received the product. One of the dogs also experienced symptoms (see case 18US042704). No further medical information is expected. Update 19 Jul 2018: Upon further review the misuse type was corrected.
06-Jul-2018	UAE; 18US042704; OK; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 57 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)	N/A	29-Jun-2018	15 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Glaze, 3 year old, 57 pound, neutered male, Pit Bull canine. 14 Jun 2018: A portion of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied between the shoulder blades. 29 Jun 2018: The pet experienced intense itching and a rash on the stomach. The pet was not presented to the clinic. The owner treated with a anti itch spray. 6 Jul 2018: The symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other pets in the household that also received the product. One of the dogs also experienced symptoms (see case 18US042703). No further medical information is expected.

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06-Jul-2018	UAE; 18US042715; AR; U.S.A	**Species:** Canine **Breed:** Blue Heeler **Sex:** M **Sex qualifier:** - **Age:** 12.00 Week(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-Jul-2018	06-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for Bandit, 12 week old, 10 pound, intact male, Blue Heeler canine. 6 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. After 2 hours the pet experienced shaking, hypersalivation, and vomiting. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. There are 2 other dogs in the household that did not receive the product and are asymptomatic. No further medical information is expected.
09-Jul-2018	UAE; 18US042742; WI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 7.5 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?:** Yes	06-Jul-2011*	06-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Lil Logan, 10 year old, 7.5 pound, neutered male, Chihuahua canine. 6 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R61709BL) was applied between the shoulder blades. The pet began jerking and itching. 7 Jul 2018: The pet experienced welts on stomach and inguinal region. The pet was presented to the clinic. The attending veterinarian prescribed Prednisone. The pet was also bathed in Dawn. 9 Jul 2018: The pet recovered. The pet has received the product since 6 Jul 2011* and no symptoms presented. No further medical information is expected.
09-Jul-2018	UAE; 18US042772; MD; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 75 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	09-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Molly, 10 year old, 75 pound, spayed female, Black Labrador Retriever canine. 8 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (M64001AR) was applied between the shoulder blades. 9 Jul 2018: The pet experienced foaming at the mouth, inability to walk, lethargy, and anorexia. The owner bathed the pet in Dawn. The pet was not presented to the clinic. Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
09-Jul-2018	UAE; 18US042777; WI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 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	01-Jul-2007*	03-Jul-2018	2 Day(s)	D-D	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Tammy, 11 year old, 10 pound, spayed female, Domestic Shorthair feline. 1 Jul 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 3 Jul 2018: The pet experienced hair loss at the application site. The skin was fine but the hair was missing. The pet was not presented to the clinic and no treatment was provided. 9 Jul 2018: Symptoms are still ongoing. The pet has received the product seasonally since 1 Jul 2007* and no symptoms presented. No further medical information is expected.
09-Jul-2018	UAE; 18US042802; IN; U.S.A	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL 10%/S	31-May-2018	31-May-2018	0 Day(s)	D-B	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Falies, 15 year old, 9 pound, neutered male, Domestic Shorthair feline.

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		Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 9 lbs				METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					31 May 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. After a few hours the pet experienced vomiting. 12 Jun 2018: Symptoms persisted once a day. The pet was presented to the clinic and diagnosed as hyperthyroid. No treatment was provided. 9 Jul 2018: Symptoms are still ongoing. No further medical information is expected.
09-Jul-2018	UAE; 18US042839; OK; U.S.A	**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	09-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Princess, a Shih Tzu canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied topically at an unknown location. The pet experience redness/irritation on the stomach. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
06-Jul-2018	UAE; 18US042850; PA; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	01-Jan-2017*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for a Terrier (Jack Russell) (all other signalments unknown). 2017*: The dog received an unknown amount of HEARTGARD (lot unknown, expiration unknown, product unsubstantiated) was given to the dog orally by the owner. The dog has been treated year round for an unknown amount of time. The dog was also given an unknown amount of FRONTLINE PLUS (lot unknown, product unsubstantiated). It is unknown if this was the first dose. Within 12 hours of administration, the dog's skin was red and the dog was acting abnormal. It is unknown if the dog was seen by a veterinarian. The owner gave the dog a bath. The dog's current status is unknown. The dog had the same symptoms before using Seresto, and Parastore. The dog has a mast-cell tumor. No further medical information expected.
09-Jul-2018	UAE; 18US043008; 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	01-Apr-2018*	09-Jul-2018*	13 Day(s)	D-D	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for a Domestic Shorthair feline (all other signalments unknown). 1 April 2018*: An unknown amount of FRONTLINE PLUS CATS (R41105AW) was applied topically at a unknown location. 26 Jun 2018*: Another vial was applied. Unknown date: The pet experienced alopecia. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.

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						to Company					
09-Jul-2018	UAE; 18US043037; CT; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 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	N/A	27-May-2018	0 Day(s)	D-D	Suspected Adverse Event: On 19 Jun 2018, the owner reported the following event for Miss Marnie, 5 year old, 40 pound, spayed female, Dachshund canine. 27 May 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R60830AL) was applied between the shoulder blades. Unknown date: The pet experienced increased itching and hair loss at the application site. The pet was not presented to the clinic and no treatment was provided. 9 Jul 2018: Symptoms are still ongoing. There is one other dog in the household that also received product and experienced symptoms (see case 18US038194). No further medical information is expected.
09-Jul-2018	UAE; 18US043076; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 11 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical and Opthalmic **Was the product used ok?:** Yes	01-May-2018	30-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for Casper, 11 pound, male, domestic Shorthair feline (all other signalments unknown). 30 Jun 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The cat is experiencing an onoging issue with fleas. Unknown date: The pet experienced scabs around the base of the tail. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. The pet has received the product since 1 May 2018, it is unknown if the pet experienced symptoms then. There are 3 other cat in the household that also received the product and are asymptomatic. No further medical information is expected.
09-Jul-2018	UAE; 18US043119; WV; 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:** Hartz; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	09-Jul-2018	12 Month(s) 1 Week(s)	D-B	Suspected Adverse Event: On 9 Jul 2018, the owner reported the following event for an unknown feline (all signalments unknown). 7 Jul 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was given to the topically between the shoulder blades. The owner has used the product before for an unknown amount of time. 9 Jul 2018*: the cat received a dose of Hartz. The cat may have licked the product and started having seizures, laying down, not moving or meowing, and is constantly licking. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
10-Jul-2018	UAE; 18US043253; NJ; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 32 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Jun-2018	10-Jun-2018	N/A	D-D	Suspected Adverse Event: On 10 Jul 2018, the owner reported the following event for Susie Q, 13 year old, 32 pound, spayed female, Jack Russell Terrier canine. 6 Jun 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R60516BL) was applied between the shoulder blades. 10 Jun 2018: The pet experienced increased amount of shedding. The pet was not presented to the clinic and no treatment was provided. 6 Jul 2018: Another vial was applied. The shedding worsened. 11 Jul 2018: Symptoms are still ongoing. No further medical information is expected.
10-Jul-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	01-Jul-2018*	10-Jul-2018	0 Day(s)	D-B	Suspected Adverse Event: On 10 Jul 2018, the receptionist

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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
	18US043313; NY; U.S.A	**Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					reported the following event for an unknown feline (all signalments unknown). 10 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first application. An unknown amount of time after the application, the cat started twitching, has nystagmus, and started having a seizure. The cat was seen by a veterinarian but it is unknown if there was any treatment given. The symptoms are ongoing. No further medical information expected.
10-Jul-2018	UAE; 18US043346; WA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	06-Jul-2018	06-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 10 Jul 2018, the owner reported the following event for Baby Girl, 6 year old, approximately 10 pound, spayed female, feline (unknown). 6 Jul 2018: 1 vial of FRONTLINE PLUS CATS (R40601AW) was given to the cat topically, between the shoulder blades, by the owner. This was the first dose applied. Within a few hours, the cat was hiding and howling. The cat was not eating. The cat had a red sensitive area at the application site. The cat was seen by the veterinarian and given bath, Gabapentin, and unknown medications. The symptoms are still ongoing. No further medical information expected.
10-Jul-2018	UAE; 18US043424; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **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	06-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Jul 2018, the owner reported the following event for a Labrador Retriever canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at a unknown location. The pet experienced itching due to unknown black bumps coming out the skin. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. The pet has received the product for a unknown amount of years. There is one other dog in the household that also received the product and experienced symptoms (see case 18US042447). No further medical information is expected.
10-Jul-2018	UAE; 18US043472; OH; 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	19-Jun-2018	19-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 10 Jul 2018, the owner reported the following event for an unknown canine (all signalments unknown). 19 Jun 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R60206AR) was given to the dog topically (unknown site of application), by the owner. This was the first dose applied. The dog had fleas prior to the first dose and was scratching. On an unknown date after the application, the scratching increased. 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-Jul-2018	UAE; 18US043626;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for an unknown feline (all signalments 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
	PA; U.S.A	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** Unknown to Company					Unknown Date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat (unknown route and site of application), by the owner. It is unknown if this was the first dose applied. On an unknown date after the application, the cat had bloody urine and feces. The owner said it happens when the cat is eating the 'Blue' food brand. It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected.
11-Jul-2018	UAE; 18US043700; NY; U.S.A	**Species:** Bovine **Breed:** - **Sex:** F **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 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?:** Yes	12-Jun-2018	12-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for an approximately 5 pound, intact female, Chihuahua (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS DOG 5-22 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 applied. On an unknown date after the application, The dog was hyperactive. 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. UPDATE 17 Jul 2018: The pet owner called to report Tiffany a 6 month old canine. 12 Jun 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blade for the first time. No symptoms presented. 12 Jul 2018: Another vial was applied. The dog became hyperactive. The symptoms lasted for 2 minutes and then the pet recovered. The pet was not presented to the clinic and no treatment was provided. No further medical information expected.
11-Jul-2018	UAE; 18US043814; CA; 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?:** Unknown to Company	01-Jan-2014*	01-Jan-2014*	0 Day(s)	D-D	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for an approximately 15 pound, feline (all other signalments unknown). 2014*: The first vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. An unknown amount of time after the application, the cat was drowsy. The cat recovered on an unknown date. . It is unknown if the cat was seen by a veterinarian or given any treatment. The cat has been given the product since that application with no symptoms. No further medical information expected.
13-Jul-2018	UAE; 18US043850; CA; U.S.A	**Species:** Feline **Breed:** - **Sex:** F **Sex qualifier:** Unknown **Age:** - **Weight:** 8.000 lbs*	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	28-Jun-2018*	30-Jun-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 13 Jul 2018, the pet owner reported the following event for an approximately 8 pound female feline, additional details unknown. 28 Jun 2018: An unknown amount of FRONTLINE PLUS CATS (FL) (lot unknown) was applied in an unknown manner. On an unknown date following application, the pet began to lose fur around the neck near where the product was applied. The symptoms are ongoing at this time. 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
						Was the product used ok?: Unknown to Company					
11-Jul-2018	UAE; 18US043856; MD; 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	10-Jul-2018*	11-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for Little Kitty (all other signalments unknown). 10 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (R40601AW) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. 11 Jul 2018: The cat vomited and lost a large piece of hair from an unknown location. The cat was not seen by a veterinarian. The cat's current status is unknown. No further medical information expected.
11-Jul-2018	UAE; 18US043871; 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:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	08-Jul-2018	08-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for an unknown canine (all signalments unknown). 8 Jul 2018: An unknown amount of FRONTLINE (lot unknown, expiration unknown, product unsubstantiated) was given to the dog topically (unknown site of application), by the owner. This was the first application. Owner was seeing a small amount of fleas. On an unknown date after the application, the dog started itching more. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
10-Jul-2018	UAE; 18US043884; NC; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** - **Age:** - **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?:** Unknown to Company	01-Jul-2017*	01-Jul-2017*	0 Day(s)	D-C	Suspected Adverse Event: On 10 July 2018, the owner reported the following event for an approximately 7 pound, intact male Poodle (Toy). *1 July 2017: One vial of FRONTLINE (product unsubstantiated) (lot uknown) was applied to the dog. On an unknown date the dog developed seizures. No further medical information available. There is one other dog in the home who also had a reaction, see case 18US043485. No further information available.
11-Jul-2018	UAE; 18US043957; OH; U.S.A	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 48 lbs	5	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL	01-Jan-2004*	01-May-2015*	N/A	D-A	Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for Shelby, an 11 year old, 48 pound, spayed female, Schnauzer. 2004*: The dog started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was given to the dog topically between the shoulder blades, by the owner. The dog also started on HEARTGARD PLUS (136 MCG/114 MG) (lot unknown, expiration date). The dog was treated with both products monthly on a seasonal basis from Mar-Dec.

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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
						PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					May 2015*: The dog's back legs started losing reflexes. The kidneys started failing. The dog lost its mind and was shaky. 1 Nov 2017*: The dog was given another dose of FRONTLINE PLUS DOG 45-88 LBS. 15 Nov 2017*: The dog was given another dose of HEARTGARD PLUS (136 MCG/114 MG). 25 Dec 2017*: The dog was euthanized. The dog was seen by the veterinarian and given incontinence tablets. No further medical information expected.
12-Jul-2018	UAE; 18US044063; CA; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** - **Age:** 2.00 Year(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 ok?:** Yes	01-Jan-2017*	07-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 12 Jul 2018, the owner reported the following event for Santino, a 2 year old, 47 pound, intact male, Siberian Husky. 2017*: The dog received the first vial of FRONTLINE PLUS DOG 45-88 LBS (R62001) was given to the dog topically, between the shoulder blades, by the owner. The dog was not treated again that year. 6 Jul 2018: The dog was given another dose of the product. 7 Jul 2018: The dog had a burn that spread across the dogs neck, chest, face, and sides. The dog was vomiting and had a loss of appetite. The dog was seen by a veterinarian and given Cephalexin, Panolog ointment, Kenalog, Telazole, and BNP ointment. The symptoms are ongoing. No further medical information expected.
12-Jul-2018	UAE; 18US044159; FL; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 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	04-Jul-2018	04-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Jul 2018, the owner reported the following event for Cassie, 1 year old, 7 pound, spayed female, Domestic Longhair feline. 4 Jul 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced lethargy and abnormal behavior. 6 Jul 2018: The pet was presented to the clinic. The attending veterinarian diagnosed the pet with a skin infection. An unknown antibiotic was prescribed. 12 Jul 2018: Symptoms are still ongoing. No further medical information is expected.
12-Jul-2018	UAE; 18US044247; 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:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jul-2017*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 12 July 2018, the owner reported the following event for a dog of unknown signalment. 1 July 2018: The owner applied one vial of FRONTLINE PLUS (lot unknown) (product unsubstantiated). On an unknown date, the owner noticed the dog had one flea and started itch excessively and has been continuing itching. No further medical information available.
12-Jul-2018	UAE; 18US044252; CA; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** F	6	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	06-Jul-2015*	07-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 12 Jul 2018, the owner reported the following event for Taquito, 6 year old, 35 pound, spayed female, Jack Russell Terrier canine. 6 Jul 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS

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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: Neutered **Age:** 6.00 Year(s) **Weight:** 35 lbs*				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(P62402AL) was applied between the shoulder blades. 7 Jul 2018: The pet experienced intense itching and redness all over the body. The pet was not presented to the clinic and no treatment was provided. The owner bathed the pet with a medicated shampoo. 12 Jul 2018: Symptoms are still ongoing. There are 5 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
12-Jul-2018	UAE; 18US044299; MD; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 16 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Prednisone; Cosequin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	07-Jul-2018	07-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Jul 2018, the owner reported the following event for Bucky, 14 year old, 16 pound, neutered male, Domestic Shorthair feline. 7 Jul 2018: One vial of FRONTLINE PLUS CATS (P41510DW) was applied between the shoulder blades. The pet experienced hair loss on the legs. The pet was not presented to the clinic and no treatment was provided. 12 Jul 2018: Symptoms are still ongoing. The pet was having an ongoing issue of pruritis prior to application. The pet also receives Prednisone, and Cosequin. No further medical information is expected.
13-Jul-2018	UAE; 18US044348; FL; U.S.A	**Species:** Canine **Breed:** Pug **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?:** Yes	N/A	10-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 13 Jul 2018, the owner reported the following event for Ying, a male, Pug canine (all other signalments unknown). 10 Jul 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (P62207AL) was applied between the shoulder blades. The pet experienced diarrhea, lethargy, and vomiting. 13 Jul 2018: The pet experienced anorexia. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
13-Jul-2018	UAE; 18US044451; TN; 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-Jul-2017	01-May-2018*	N/A	D-D	Suspected Adverse Event: On 13 July 2018, the owner reported the following event for a dog of unknown signalment. *1 May 2018: One vial of FRONTLINE PLUS (lot unknown) (product unsubstantiated) was applied to the dog per label. On an unknown date the dog started to itch and the itching has continued non-stop. The dog has been treated with FL previously with no issues. The owner declined the report so no further information is known.
13-Jul-2018	UAE; 18US044597; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	N/A	01-Jan-2008*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Jul 2018, the owner reported the following event for 2 Felines (all other signalment unknown). Unknown 2008*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. Both cats

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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:** Topical / Cutaneous **Was the product used ok?:** Yes					immediately jumped in the air. It is unknown if the pets were presented to the clinic or if any treatment was provided. The status of the pets is unknown. No further medical information is expected.
13-Jul-2018	UAE; 18US044613; WA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 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	12-Jul-2013	13-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 16 July 2018, the owner reported he following event for Adonis, an 11 year old 9 pound, neutered male Siamese. 12 July 2018: One vial of FRONTLINE PLUS CATS (S40301AX) was applied to the cat per label for the first time. 13 July 2018: The cat was lethargic and quiet. The cat has not been seen by the vet and the owner is monitoring the cat's condition. No further medical information available.
13-Jul-2018	UAE; 18US044716; VA; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 9.000 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	13-Jun-2013	06-Jul-2018*	23 Day(s)	D-D	Suspected Adverse Event: On 13 July 2018, the owner reported the following event for Spike, a 14 year old, 9 pound, neutered male Dachshund (miniature). 13 Jun 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (FL0 (R61421AL) was applied per label to the dog. *6 July 2018: The dog developed a raised bump and scab at the application site. The owner is monitoring the dog and the dog has not been seen by the vet. The dog has been on FL at least for the past 5 years with no issues. The dog takes Prozac for anxiety and has been for the past month with no issues. No further medical information available.
13-Jul-2018	UAE; 18US044720; 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:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Jul 2018, the owner reported the following event for an unknown canine (signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS DOG 5-22 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 applied. An unknown amount of time after the application, the dog had a 3 inch red spot that was so red it looked like it was bleeding. 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.
16-Jul-2018	UAE; 18US044748; PA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** -	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	01-May-2017*	01-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for 2 Chihuahuas (all other signalments unknown). May 2018*: The dogs started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61418AL) given to each dog topically (unknown site of application), by the owner. The dogs had some fleas at the time of 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
		Weight: Unknown				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					Jun 2018*: The dogs received another dose of the product. 1 Jul 2018: The dogs received another dose of the product. The itching started to increase. It is unknown if the dogs were seen by a veterinarian or given any treatment. The dogs' current status is unknown. No further medical information expected. UPDATE 19 Jul 2018: The owner reported the following. The product was applied between the shoulder blades to each dog. 8 Jul 2018*: The itching started to increase and the owner was still seeing fleas. The dogs were not seen by a veterinarian or given any treatment. The symptoms have improved but are still ongoing. No further medical information expected.
16-Jul-2018	UAE; 18US045007; NJ; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 55 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	03-Jul-2012*	16-Jul-2018	13 Day(s)	D-D	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for Kylie, 6 year old, 55 pound, spayed female, Mixed breed canine. 3 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (M64206AR) was applied between the shoulder blades. One chew of HEARTGARD PLUS (272 MCG/227 MG) (lot unknown, exp unknown) was administered orally. 16 Jul 2018:The pet had an ongoing issue with fleas. The pet experienced itching and began chewing out fur. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. The pet has received FRONTLINE and HEARTGARD monthly since 3 Jul 2012 and no symptoms presented. No further medical information is expected.
03-Jul-2018	UAE; 18US045046; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 18 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	19-Jun-2017*	19-Jun-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 16 July 2018, the owner reported the following event for a 18 pound cat (signalment unknown). 19 June 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat with fleas. On an unknown date the cat started itching and twitching more than usual. The cat has FL in the past and it is unknown if there has been any previous reactions. There is one other treated cat in the home, who is having the same issue. See case 18US041874. No further information available.
16-Jul-2018	UAE; 18US045106; MN; U.S.A	**Species:** Canine **Breed:** Spaniel **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 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 /	01-Jan-2016*	21-Jun-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for Bosco, a 12 year old, 90 pound, neutered male, Spaniel. 2016*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (M63506AR) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from May-Oct. 14 Jun 2018: The dog received another dose of the product. 21 Jun 2018*: The dogs skin turned pink around the legs and belly. The dog started losing fur at the application site.

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						Cutaneous **Was the product used ok?:** Yes					The dog was seen by a veterinarian and given Dexapen injection, Baytril injection, and Ciprofloxacin. The symptoms are ongoing. No further medical information expected.
16-Jul-2018	UAE; 18US045150; WI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 58 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-Jun-2018	14-Jul-2018	1 Week(s)	D-C	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for Gretchen, 3 year old, 58 pound, intact female, Chocolate Labrador Retriever canine. 6 Jun 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was applied between the shoulder blades. 7 Jul 2018: Another vial was applied. 14 Jul 2018: The pet experienced itching, scabs at application site and hair loss on the stomach. 16 Jul 2018: The pet experienced lethargy, twitching, and brittle fur. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. No further medical information is expected.
16-Jul-2018	UAE; 18US045165; FL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 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?:** Yes	N/A	15-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for Lacey, 6 year old, 6 pound, spayed female, Chihuahua canine. 15 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60525AL) was applied between the shoulder blades. The pet experienced anorexia. 16 Jul 2018: The pet experienced bloody diarrhea. The pet was not presented to the clinic and not treatment was provided. Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. The pet also has a history of sensitive stomach. No further medical information is expected.
16-Jul-2018	UAE; 18US045181; CA; U.S.A	**Species:** Canine **Breed:** English Bulldog **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 44 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Tramadol; Vetprofen; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Jul-2014	13-Jul-2018	4 Day(s)	D-D	Suspected Adverse Event: On 16 July 2018, the owner reported the following event for Carson, a 6 year old, 44 pound, spayed female English Bulldog. 9 July 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (M63401BL) was applied per label to Carson. 13 July 2018: The dog developed a burn, scabbing, bleeding, and oozing at the application site. The dog has not been seen by the vet and the owner is monitoring her condition. The dog has been on FL all her life with no previous issues. The dog does suffer from allergies, skin sensitivity, and skeletal issues and she takes Vetprofen and Tramadol. There is one other treated dog in the home who did not have a reaction. No further medical information available.
16-Jul-2018	UAE; 18US045182; FL; U.S.A	**Species:** Feline **Breed:** American Shorthair **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**	01-Jan-2018*	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Jul 2018, the owner reported the following event for an American Shorthair (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS CATS (R4206AW) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first application. On an unknown date after the application, the cat may have licked the product and started running around the house and drooling. On an unknown date, the cat recovered. It is unknown if the cat was seen by a veterinarian or given any treatment. No further medical information expected.

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						product used ok?: Unknown to Company					
17-Jul-2018	UAE; 18US045250; ME; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 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-May-2018	14-May-2018	1 Day(s)	D-C	Suspected Adverse Event: The pet owner wrote in to report the following event for a 7 year old, 12 pound feline, additional details unknown. 13 May 2018: One vial of FRONTLINE PLUS CATS (FL) (R40202BW) was applied topically between the shoulder blades. 14 May 2018: Site of application becomes irritated, the skin is burned and begins to bleed. The cat was taken to the veterinarian on an unknown date for treatment. No further medical information available. UPDATE 26 Jul 2018: The pet owner reported the following for Sweetie a spayed female. This was the first application of the product. Jul 2018*: The cat recovered. No further medical information expected.
17-Jul-2018	UAE; 18US045265; MS; U.S.A	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	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?:** Unknown to Company	N/A	01-May-2018*	0 Day(s)	D-D	Suspected Adverse Event: The pet owner wrote in to report the following event for four unknown canines. 1 May 2018*: Owner applied FRONTLINE PLUS DOG 5-22 LBS (FL) (R60830AL) topically to 4 dogs in an unknown manner. Later that same evening, the dogs began to scratch uncontrollably. The dogs were bathed and the symptoms continued. There is another dog in the household that received treatment with no adverse symptoms presenting. The dogs have received FL before with no adverse symptoms. The current condition of the dogs is unknown. No further medical information available.
18-Jul-2018	UAE; 18US045322; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 17.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Methimazole; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Jul-2018	18-Jul-2018	2 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Sassy, a 17 year old, 7 pound, spayed female Domestic Shorthair (Crossbreed). Jul 2017*: The cat started on Methimazole for kidney disease. The cat was treated daily. 16 Jul 2018: 1 vial of FRONTLINE PLUS CATS (S40101BW) was given to the cat topically between the shoulder blades, by the owner. This was the first dose applied. The cat also received another dose of Methimazole. 18 Jul 2018: The cat was lethargic and not eating or drinking as much. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
17-Jul-2018	UAE; 18US045328; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 17 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	03-Jul-2018	04-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Jul 2018, the owner reported the following event for Mittens, 11 year old, 17 pound, spayed female, Domestic Shorthair feline. 3 Jul 2018: One vial of FRONTLINE PLUS CATS (P41510) was applied between the shoulder blades. 4 Jul 2018: The pet experienced vomiting. The pet was not presented to the clinic and no treatment was provided. 17 Jul 2018: Symptoms are still ongoing. There is one other cat in the household that also received the product and is asymptomatic. No further medical information 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
						Was the product used ok?: Yes					expected.
14-Jul-2018	UAE; 18US045338; -; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 8.5 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?:** No (Species not indicated / recommended)	09-Jul-2018	09-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 14 Jul 2018, the following event was reported to Safety Call International (SCI) by the REPORTER for Colt, an 8.5 pound, male, Domestic Mediumhair Feline of further unkonwn signalment. 9 Jul 2018: The cat had a dose of FRONTLINE (product unsubstantiated)(lot unkonwn) and the cat was lethargic and anorexic after an unkonwn amount of time after application. The cat presented to the clinic on an unknown date and during the report advised the cat was eating treats in the exam room and did not seem overly lethargic. The owner does not have the tube or package of the FRONTLINE to confirm the product. No further details available. No fuuther information at this time. UPDATE 25 Jul 2018: Per the SCI report, a dog dose of FRONTLINE was applied.
17-Jul-2018	UAE; 18US045372; MA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 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?:** No (Treatment / vaccination program not respected)	15-Jul-2018*	15-Jul-2018	0 Day(s)	D-C	Suspected Adverse Event: On 17 Jul 2018, the receptionist reported the following event for Autumn, an 8 year old, 11 pound, spayed female, Domestic Shorthair (Crossbreed). 15 Jul 2018: 1 vial of FRONTLINE DOG 45-88 LBS (lot unknown, product unsubstantiated) was given to the dog topically from the shoulders to the tail, by the owner. The owner was not sure if it was FRONTLINE or another topical flea product for dogs. It is unknown if this was the first application. The same night, the cat began having facial and tail twitching. The cat was seen by a veterinarian and given Methocarbamol. The cat's current status is unknown. No further medical information expected.
17-Jul-2018	UAE; 18US045389; KY; 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	17-Jul-2018	17-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 17 July 2018, the owner reported the following event for a cat of unknown signalment. *17 July 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. On an unknown date, the cat was feeling different, lethargic, and was wall facing. The cat recovered on an unknown date. The owner declined the report. No further medical information available.
17-Jul-2018	UAE; 18US045419; WA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:**	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	01-Jul-2018	08-Jul-2018	1 Week(s)	D-D	Suspected Adverse Event: On 17 Jul 2018, the owner reported the following event for Bagera, a Domestic Shorthair (Crossbreed) (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS CATS (R41105AW) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first

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		Neutered **Age:** 5.00 Year(s) **Weight:** 10 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					application. On an unknown date after the application, the cat was pulling out hair and had hives. It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected. Update 24 Jul 2018: The owner reported Bagera as a 5 year old, 10 pound, neutered male. 1 Jul 2018: The product was applied. 8 Jul 2018: The pet experienced hives and began pulling fur out. The pet is having an ongoing issue with fleas. The pet was not presented to the clinic and no treatment was provided. 24 Jul 2018: Symptoms are still ongoing. No further medical information expected.
17-Jul-2018	UAE; 18US045422; MO; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** - **Age:** 10.00 Month(s) **Weight:** 92 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-Feb-2018*	15-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Jul 2018, the owner reported the following event for Atlas, a 10 month old, 92 pound, intact male, Dogue de Bordeaux. Feb 2018*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (P61003AL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly. 15 Jul 2018: The dog received another dose of the product. Within a few minutes the dog started scratching at the application site and after a few days a sore formed with a blister. The dog was seen by the veterinarian and given GenOne Spray and Cephalexin. The symptoms are ongoing. There was another dog treated with the product that had symptoms (see case 18US045428). No further medical information expected.
17-Jul-2018	UAE; 18US045428; MO; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 126 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-Jan-2017*	15-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Jul 2018, the owner reported the following event for Captain, a 2 year old, 126 pound, neutered male, German Shepherd Dog/Bernese Mountain Dog mixed breed. Jan 2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (P61003AL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a year round basis. 15 Jul 2018: The dog received another dose of the product. Within a few minutes the dog started scratching at the application site and after a few days a sore formed with a blister. The dog was seen by the veterinarian and given GenOne Spray and Cephalexin. The symptoms are ongoing. There was another dog treated with the product that had symptoms (see case 18US045422). No further medical information expected.
18-Jul-2018	UAE; 18US045594; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (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	18-Jul-2008*	12-Jul-2018	15 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Dexter, 11 year old, 12 pound, neutered male, Domestic Shorthair feline. 27 Jun 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 12 Jul 2018: Fleas were seen on the pet. The pet experienced itching and scabs all over the body. 17 Jul 2018: The pet experienced hair loss on the top of the head. 18 Jul 2018: Symptoms are still ongoing. There are 2 other cats in the household that also received the product and experienced symptoms (see case 18US045923, 18US045922). 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
18-Jul-2018	UAE; 18US045660; OH; U.S.A	**Species:** Feline **Breed:** Persian, Smoke **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 5.000 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-May-2018	19-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for Smokey, a 3 year old, approximately 5 pound, spayed female, Persian, Smoke. 6 May 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically between the shoulder blades, by the owner. The cat had fleas prior to the first dose. 6 Jun 2018: The cat received another dose of the product. 19 Jun 2018*: The cat started having hair loss and small bites all over the body. The cat started losing weight. 6 Jul 2018: The cat received another dose of the product. The symptoms are ongoing. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.
18-Jul-2018	UAE; 18US045661; AL; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** - **Age:** 6.00 Week(s) **Weight:** 1.6 lbs	3	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)	17-Jul-2018	17-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Stray, 6 week old, 1.6 pound, intact female, Domestic Mediumhair feline. 17 Jul 2018: FRONTLINE SPRAY (lot unknown) was applied to a cat in the household. Stray came in contact with the product indirectly. The pet experienced lethargy, anorexia, swollen face and neck. 18 Jul 2018: The pet was presented to the clinic. The attending veterinarian administered Benadryl and Dexamethasone SP injection. Symptoms are still ongoing. There are 2 other cat in the household that received the product directly and experienced no symptoms. No further medical information is expected.
18-Jul-2018	UAE; 18US045671; OH; U.S.A	**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	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for 2 felines (all signalments unknown). 1 Jul 2018*: The first dose of FRONTLINE PLUS CATS (lot unknown) was given to each cat topically (unknown site of application), by the owner. The cats had fleas prior to the application. On an unknown date after the application, the cats were scratching and pulling hair out. It is unknown if the cats were seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
18-Jul-2018	UAE; 18US045758; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	08-Jul-2018*	08-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 Jul 2018, the owner reported the following event for an 8 pound, feline (all other signalments unknown). 8 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. This was the first dose this year but it's unknown if the cat has received the product before. The cat had fleas prior to the application. On an unknown date after the application, the cat was lethargic and not eating. It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected.

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18-Jul-2018	UAE; 18US045846; OH; U.S.A	**Species:** Canine **Breed:** Peekapoo **Sex:** M **Sex qualifier:** - **Age:** 1.50 Year(s) **Weight:** 9 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-Jul-2017*	18-Jul-2018	2 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Biscuit, a 1.5 year, 9 pound, intact male, Peekapoo. 2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514BL) given to the dog topically between the shoulder blades. The dog was treated monthly on a year round basis. 16 Jul 2018: The dog received another dose of the product. 18 Jul 2018: The dog became lethargic and started vomiting, diarrhea, and anorexia. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was another dog treated that had symptoms (see case 18US046534). No further medical information expected.
18-Jul-2018	UAE; 18US045922; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 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	27-Jun-2008*	12-Jul-2018	15 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Delsie, 10 year old, 6 pound, neutered female, Domestic Shorthair feline. 27 Jun 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 12 Jul 2018: Fleas were seen on the pet. The pet experienced itching and scabs all over the body. 18 Jul 2018: Symptoms are still ongoing. There are 2 other cats in the household that also received the product and experienced symptoms (see case 18US045923, 18US045594). No further medical information is expected.
18-Jul-2018	UAE; 18US045923; WV; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 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	27-Jun-2008*	12-Jul-2018	15 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Dede, 11 year old, 9 pound, neutered female, Domestic Shorthair feline. 27 Jun 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 12 Jul 2018: Fleas were seen on the pet. The pet experienced itching and scabs all over the body. 17 Jul 2018: The pet experienced hair loss on the top of the head. 18 Jul 2018: Symptoms are still ongoing. There are 2 other cats in the household that also received the product and experienced symptoms (see case 18US045922, 18US045594). No further medical information is expected.
18-Jul-2018	UAE; 18US045933; VA; 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	18-Jul-2018	18-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for a Chihuahua (all other signalments unknown). 18 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R60509HL) was given to the dog topically (unknown site of application), by the owner. This was the first dose applied. Approximately 7 hours later, the dog began running around and whimpering. 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.
19-Jul-2018	UAE; 18US045990;	**Species:** Canine	1	1	0	**Product used:** FIPRONIL	11-Jun-2018	16-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018 the distributor representative reported the following event for Rubble, a 3 year old

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	-; U.S.A	**Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10.3 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					(born *2 May 2015), 10.3 pound, neutered male Small crossbred canine. 15 Jul 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) topically to an unknown application site. 16 Jul 2018: The dog became nauseous and began eating grass. The dogs current health status is unknown and it is unknown if he has received treatment. The dog received the product once prior on 11 Jun 2018 with no issues. No further medical information is expected.
19-Jul-2018	UAE; 18US045997; CA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** - **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?:** Unknown to Company	18-Jul-2018*	18-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for an approximately 25 pound, intact male, Shih Tzu (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (H67604AL) 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 was shaking, lethargic, and reverse sneezing. 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.
19-Jul-2018	UAE; 18US046062; VA; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 22 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-May-2018	06-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for TJ, 10 year old, 22 pound, neutered male, Jack Russell Terrier canine. 5 May 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 5 Jul 2018: Another vial was applied Unknown date: The pet experienced intense itching and hair loss. The pet experienced bleeding around the rear and feet. The pet was not presented to the clinic and no treatment was provided. 19 Jul 2018: Symptoms are still ongoing. There is one other dog in the household that also received the product and experienced symptoms (see case 18US047195). There are also 2 cats in the household that received FRONTLINE and experienced symptoms (see case 18US047210, and 18US047219). No further medical information is expected.
19-Jul-2018	UAE; 18US046089; MI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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	05-Jul-2013*	05-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018 the owner reported the following event for Wolfie, a 6 year old, approximately 15 pound, neutered male, Dachshund. 2013*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P62408AL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from May-Oct. 5 Jul 2018: The dog received the first dose of the product his year. The dog was itching prior to the application. After the application, the owner was finding dead fleas. The itching gradually increased since it started and continued to increase after the product was applied. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.

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19-Jul-2018	UAE; 18US046173; MD; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** - **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?:** No (Overdose)	06-Jul-2017*	09-Jul-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 19 July 2018, the owner reported the following event for Brownie, a 16 pound Poodle Miniature. 6 July 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R60316AL) was topically applied to the dog. On an unknown date the dog started scratching more. No further medical information available. UPDATE 13 Aug 2018: Per owner Brownie is a neutered male dog who was treated with the product according to label. Brownie's itching increased a few days after the application. The dog is still itching and has not been seen by the vet. The owner had the dog flea dipped to offer relief. The dog has used the previously for an unknown length of time with no issues seen. No further medical information available.
19-Jul-2018	UAE; 18US046207; IN; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Unknown **Age:** 5.00 Year(s) **Weight:** 5 lbs	4	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	08-Jul-2018	08-Jul-2018	0 Day(s)	D-A	Suspected Adverse Event: On 19 July 2018, the owner reported the following event for Dolly, a 5 pound, 5 year old, female Yorkie. 8 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied per label to the dog. Within 2 hours the dog was lethargic and anorexic, the dog passed away 6 hours after the treatment. The dog was not seen by the vet, there are 3 other treated dogs in the home who were fine after the application. No further medical information available.
19-Jul-2018	UAE; 18US046267; NC; 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	03-Jul-2018*	04-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for a Feline (all other signalments unknown). 3 Jul 2018*: An unknown amount of FRONTLINE PLUS CATS (R40501AW) was applied topically at an unknown location. Unknown date: The pet experienced sore at an unknown location. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
20-Jul-2018	UAE; 18US046317; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 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	10-Jul-2015*	17-Jul-2018	1 Week(s)	D-D	Suspected Adverse Event: On 20 Jul 2018, the owner reported the following event for Noodle, approximately 3 year old, 13 pound, spayed female, Domestic Shorthair (Crossbreed). 2015*: The cat started on 1 vial of FRONTLINE PLUS CATS (P41102) was given to the cat topically between the shoulder blades, the owner. The cat was treated monthly, on a seasonal basis from Apr-Nov. 10 Jul 2018: The cat received another dose of the product. 17 Jul 2018: The cat was not eating and was lethargic. 19 Jul 2018: The cat recovered. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.

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20-Jul-2018	UAE; 18US046348; CT; 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	20-Jul-2018	20-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a dog of unknown signalment. *20 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog. On an unknown date the dog started to experience skin irritation at the application site. No further medical information available.
20-Jul-2018	UAE; 18US046354; VA; 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-Apr-2018*	01-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a cat of unknown signalment. *1 July 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was applied to the cat. On an unknown date the cat picked up fleas and started to scratch excessively. The cat itched herself so bad she got an infection. The cat has been treated for several months with FL. There is one other cat in the home, it is unknown if that cat had a reaction. No further medical information available.
20-Jul-2018	UAE; 18US046375; NJ; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 74 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-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a 74 pound, spayed female Retriever (Golden). *1 July 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied to the dog. On an unknown date the dog developed skin irritation and obsessive scratching. No further medical information available.
18-Jul-2018	UAE; 18US046534; OH; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Unknown **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 **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Jul-2017*	17-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 18 Jul 2018, the owner reported the following event for Carmella, an approximately 13 year old, approximately 9 pound, female, Chihuahua. 2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514BL) given to the dog topically between the shoulder blades. The dog was treated monthly on a year round basis. 16 Jul 2018: The dog received another dose of the product. 17 Jul 2018: The dog became lethargic and started vomiting, diarrhea, and anorexia. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was another dog treated that had symptoms (see case 18US045846). No further medical information expected.

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20-Jul-2018	UAE; 18US046535; NJ; U.S.A	**Species:** Feline **Breed:** - **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 (Species not indicated / recommended)	N/A	20-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 20 Jul 2018 the veterinary clinic staff called to report the following event for a feline with unknown signalment. 20 Jul 2018*: An unknown amount of FRONTLINE PLUS DOG (FL) (lot unknown), product unsubstantiated, was applied in an unknown manner to the cat. Following the application the cat started to have seizures. No details provided on the episodes. The cat will be brought into the clinic for evaluation. The symptoms are ongoing. No further medical information available.
20-Jul-2018	UAE; 18US046554; TN; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 9 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-Jun-2018*	29-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for Baby, a 9 pound Chihuahua (signalment unknown). 29 June 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P61522AL) was applied to the dog per label. On an unknown date, the dog picked up fleas and developed hair loss at an unknown location. No further medical information available.
20-Jul-2018	UAE; 18US046590; IL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 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	16-Jul-2018	16-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Jul 2018, the owner reported the following event for Ricky, 4 year old, 13 pound, neutered male, Chihuahua canine. 16 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62412AL) was applied between the shoulder blade. The pet experienced redness and a bump at the application site. The pet attempted to scratch the area but was unable to reach. 21 Jul 2018*: The pet was presented to the clinic but no treatment was provided. 24 Jul 2018: Symptoms are still ongoing. No further medical information is expected.
20-Jul-2018	UAE; 18US046653; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 10.00 Week(s) **Weight:** 9.5 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	19-Jul-2018	19-Jul-2018	0 Day(s)	D-A	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for Brutus, a 10 week old, 9.5 pound, intact male Domestic Shorthair . 19 Jul 2018: One vial of FRONTLINE PLUS CATS (G40103AW) was topically applied to the cat for the first time per label. 19 July 2018: The cat had a seizure, the owner bathed the cat in Dawn and fifteen minutes later the cat passed away. There are two other FL treated cats in the home who also had symptoms and passed away. See case 18US047029 and 18US047239. No further 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
23-Jul-2018	UAE; 18US046665; MN; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 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	01-Apr-2018	05-Jul-2018	4 Day(s)	D-C	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for Bixby, 2 year old, 60 pound, neutered male, Mixed Breed canine. 1 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 5 Jul 2018: The pet experienced anorexia, lethargy, and inability to walk. 6 Jul 2018: The pet was presented to the clinic and diagnosed with Lyme disease. The attending veterinarian prescribed Doxycycline. 24 Jul 2018: Symptoms have improved significantly but are still ongoing. No further medical information is expected.
23-Jul-2018	UAE; 18US046700; FL; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** F **Sex qualifier:** Neutered **Age:** 18.00 Month(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IMRAB 3 TF - 1905.23; RECOMBITEK C4 - 13D1.R1; ORAL BORDETELLA CANINE - 1081.01 - PHN3259; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Jul-2018*	19-Jul-2018	18 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, a veterinary technician reported the following event for Sadie, an 18 month old (born on 19 Jan 2017), 13 pound, spayed female Poodle/Schnauzer mix. Unknown date: The dog started to receive both HEARTGARD (lot number and expiration date unknown) (product unsubstantiated) and FRONTLINE (lot number and expiration date unknown) (product unsubstantiated). 19 Jul 2018: The dog was vaccinated with 1 ml of IMRAB 3 TF (18372, 1 Nov 2019), SC, in the right hind leg, 1 ml of RECOMBITEK C4 (45551AUNKNOWN, 1 May 2019), SC, in the right shoulder, and 1 ml of RECOMBITEK ORAL BORDETELLA (33017AUNKNOWN, 5 Sep 2019) administered orally, by a veterinarian. After an unknown period of time following vaccination, the dog was lethargic, vomited multiple times, and was screaming in constant pain. The screaming in constant pain continued until 2 am. 20 Jul 2018: The dog presented to the veterinary clinic for examination. No pain could be elicited on physical examination. The owner elected to monitor the dog and treatment was declined. 23 Jul 2018: The dog had fully recovered. No further medical information expected.
23-Jul-2018	UAE; 18US046716; PA; U.S.A	**Species:** Feline **Breed:** Persian, Shaded **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	N/A	21-Jul-2018	2 Day(s)	D-C	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for Stewie a Shaded Persian Feline (all other signalments unknown). 19 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (P40308AW) was applied topically at an unkown location. 21 Jul 2018: The pet experienced vomiting. 22 Jul 2018: The pet began foaming at the mouth. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. UPDATE 7 Aug 2018: The owner called to report Stewie as a 9 year old, 17 pound, neutered male. 19 Jul 2018: One vial was applied. 21 Jul 2018: The pet also experienced anorexia. 24 Jul 2018: The pet was presented to the clinic. A blood chemistry was run. The platelet count was low. The attending veterinarian adminstered a Cerenia injection and sent home Cerenia pills. 27 Jul 2018: Symptoms persisted. The pet was presented to the

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											clinic again. The veterinarian adminstered Covenia injection, and B complex. The pet was sent home with Mirtazapine. 7 Aug 2018: Symptoms have improved but are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
23-Jul-2018	UAE; 18US046757; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	5	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	30-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 23 Jun 2018, the owner reported the following event for 5 canines (all signalments unknown). 30 Jun 2018: 1 vial of FRONTLINE (lot unknown) was given to each dog topically (unknown site of application), by the owner. This was the first dose this year. The dogs have been treated seasonally during the summer for an unknown amount of time. The owner was not seeing flea activity prior to the application. On an unknown date after the application the owner saw fleas on the dogs and in the home and the dogs started scratching. It is unknown if the dogs were seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
23-Jul-2018	UAE; 18US046814; CT; U.S.A	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 80 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-Jul-2010	03-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for Bella, 9 year old, 80 pound, spayed female, Staffordshire Terrier. 2 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. Unknown date: The pet experienced hair loss around the base of the tail. Fleas were found on the pet. The pet was not presented to the clinic and no treatment was provided. 23 Jul 2018: Symptoms are still ongoing. There is one other dog in the household that received the product and was asymptomatic. There is also a cat in the household that received FRONTLINE and experienced symptoms (see case 18US047112). No further medical information is expected.
23-Jul-2018	UAE; 18US046831; NH; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **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	23-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for a golden Retriever canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at an unknown location. The pet now has Fly Snapping Syndrome. It is unknown if the pet was presented to the clinic or if any treatment was provided. The staus of the pet is unknown. No further medical information is expected. Update 03 Aug 2018: After further review the reason for assessment was corrected.
24-Jul-2018	UAE; 18US046850; IL; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	N/A	09-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for a 15 pound Feline (all other signalments unknown). 8 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. Unknown date: The pet experienced increase itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. There are 2 other cat in the household that also received the

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						Cutaneous **Was the product used ok?:** Unknown to Company					product and are asymptomatic. No further medical information is expected.
23-Jul-2018	UAE; 18US046950; MN; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 42.8 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?:** Yes	01-Jan-2018*	21-Jul-2018	20 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 23 Jul 2018, the clinic staff reported the following event for Bailey, a 5 year old (born 12 Dec 2011), 42.8 pound, spayed female Siberian Husky. The dog was vaccinated with RECOMBITEK LYME 1 mL, SC, left hind, on 20 Mar 2012 (42170, 15 Feb 2013), 4 Apr 2012 (42173B, 6 Apr 2013), 27 Mar 2013 (42187B, 26 Jul 2014), 16 Apr 2014 (42193A, 19 Jun 2015), 25 Mar 2015 (42198, 24 Feb 2016), 25 Mar 2016 (42203, 4 Nov 2016), 28 Apr 2017 (42215, 24 May 2018), and 26 Mar 2018 (42218, 26 Jan 2019). 25 Mar 2016, 29 Apr 2017, and 26 Mar 2018: The dog tested Lyme negative. 21 Jul 2018: The dog presented to the clinic for lethargy, coughing, and not acting like her normal self. On exam a fever of 105F was noted. The dog was treated with doxycycline, carprofen, and SC fluids. The dog has received FRONTLINE PLUS (lot unknown) monthly for an unknown period of time. No further information is expected.
24-Jul-2018	UAE; 18US046953; NJ; 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?:** Unknown to Company	N/A	14-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for 3 Felines (all other signalments unknown). 13 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. Unknown date: The pets experienced intense itching. It is unknown if the pets were presented to the clinic or if any treatment was provided. The status of the pets is unknown. No further medical information is expected.
23-Jul-2018	UAE; 18US047023; NJ; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **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	23-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for a Yorkshire Terrier canine (all other signalments unknown). Unknown date: One vial of FRONTLINE PLUS DOG 5-22 LBS (R61421AL) was applied between the shoulder blades. The pet experienced anorexia, lethargy, and unusual behavior. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
20-Jul-2018	UAE; 18US047029; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	18-Jul-2018	20-Jul-2018	1 Day(s)	D-A	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a Button, a 2.5 year old, 11 pound, spayed female Domestic Shorthair. 19 Jul 2018: One vial of FRONTLINE PLUS CATS (FL) (G40103AW) was topically applied to the cat.

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		Sex qualifier: Neutered **Age:** 2.50 Year(s) **Weight:** 11 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					20 July 2018: The cat started to convulse, she was taken to the vet and given medication. The cat passed away that day. Bloodwork was performed at the clinic. The cat has been on FL all her life with no issues. There are two other FL treated cat in the home who passed away. See case 18US046653 and 18SU047239. No further information available.
23-Jul-2018	UAE; 18US047038; PA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** - **Age:** 4.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Hydrocortisone; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	N/A	19-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for Sunjay, 4 year old, 17 pound, intact female, Shih Tzu canine. 19 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501) was applied between the shoulder blades. The pet experienced increased itching. The pet was not presented to the clinic and no treatment was provided. 23 Jul 2018: The symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. The pet has preexisting issue of itchy skin. The pet receives Hydrocortisone. No further medical information is expected.
24-Jul-2018	UAE; 18US047112; CT; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 10 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	N/A	02-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 23 Jul 2018, the owner reported the following event for Cerciey, 1 year old, 10 pound, spayed female, Siamese feline. 2 Jul 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. After five minutes the pet experienced hypersalivation. Unknown date: The pet recovered. There are 5 other cats in the household that also received the product and experienced no symptom. There is also a dog in the household that received FRONTLINE and experienced symptoms (see case 18US046814).No further medical information is expected.
24-Jul-2018	UAE; 18US047167; OH; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 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	22-Jun-2018	24-Jul-2018*	2 Day(s)	D-C	Suspected Adverse Event: On 24 Jul 2018, the owner reported the following event for a Russian Blue Feline (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CATS (R0601AW) was applied topically at an unknown location. The pet experienced hair loss, itching, hyperactivity and vomited once. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet us unknown. No further medical information is expected. Update 2 Aug 2018: The owner called to report Fred, a 9 pound, 1 year, neutered male. 22 Jun 2018: The first vial was applied. 22 Jul 2018*: The owner applied another vial. 24 Jul 2018*: The pet experieced hair loss, and intense itching. Fleas were seen on the pet. The pet was not presented to the clinic and no treatment was provided. 2 Aug 2018: Symptoms are still ongoing. There is one other cat in the household that did not receive the product and is asymptomatic. No further medical information is expected.

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24-Jul-2018	UAE; 18US047195; VA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 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	05-May-2018	06-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for Rascal, 7 year old, 25 pound, neutered male, Beagle canine. 5 Jul 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied between the shoulder blades. Unknown date: The pet experienced intense itching and hair loss. The pet experienced bleeding around the rear and feet. The pet was not presented to the clinic and no treatment was provided. 19 Jul 2018: Symptoms are still ongoing. There is one other dog in the household that also received the product and experienced symptoms (see case 18US046062). There are also 2 cats in the household that received FRONTLINE and experienced symptoms (see case 18US047210, and 18US047219). No further medical information is expected.
19-Jul-2018	UAE; 18US047210; VA; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 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	05-May-2018	06-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for Smokey, 2 year old, 15 pound, neutered male, Maine coon feline. 5 May 2018: One vial of FRONTLINE PLUS CATS (R60316AL) was applied between the shoulder blades. 5 Jul 2018: Another vial was applied Unknown date: The pet experienced hair loss through out the body. The pet was not presented to the clinic and the owner treated with an unknown hotspot medication. 19 Jul 2018: The pet recovered. There are 2 dogs in the household that also received the product and experienced symptoms (see case 18US047195, and 18US046062). There is 1 other cat in the household that received FRONTLINE and experienced symptoms (see case 18US047219). No further medical information is expected.
24-Jul-2018	UAE; 18US047219; VA; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **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 / Cutaneous **Was the product used ok?:** Yes	05-May-2018	06-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 19 Jul 2018, the owner reported the following event for Scrapy, 2 year old, 14 pound, spayed female, Siamese feline. 5 May 2018: One vial of FRONTLINE PLUS CATS (R60316AL) was applied between the shoulder blades. 5 Jul 2018: Another vial was applied Unknown date: The pet experienced hair loss through out the body. The pet was not presented to the clinic and the owner treated with an unknown hotspot medication. 19 Jul 2018: The pet recovered. There are 2 dogs in the household that also received the product and experienced symptoms (see case 18US047195, and 18US046062). There is 1 other cat in the household that received FRONTLINE and experienced symptoms (see case 18US047210). No further medical information is expected.
20-Jul-2018	UAE; 18US047239; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 11.5 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**	18-Jul-2016*	20-Jul-2018	1 Day(s)	D-A	Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a Tina, a 2.5 year old, 11.5 pound, spayed female Domestic Shorthair. 19 Jul 2018: One vial of FRONTLINE PLUS CATS (FL) (G40103AW) was topically applied to the cat. 20 July 2018: The cat started to convulse, she was taken to the vet and given medication. The cat passed away that day. Bloodwork was performed at the clinic. The cat has been on FL all her life with no issues. There are two other FL treated cat in the home who passed away. See case 18US046653 and 18US047029. No further information available.

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						ok?: Yes					
24-Jul-2018	UAE; 18US047301; MI; U.S.A	**Species:** Canine **Breed:** Pit Bull **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	24-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 24 Jul 2018, the owner reported the following event for a Pit Bull canine (all other signalments are unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 89-132 LBS (P62301AR) was applied topically at an unknown location. the pet experienced anorexia, dizziness, and lethargy. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
24-Jul-2018	UAE; 18US047324; CA; U.S.A	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	24-Jun-2017	01-Jul-2018*	1 Week(s)	D-C	Suspected Adverse Event: On 24 Jul 2018, the owner reported the following event for Zoey, 6 year old, 65 pound, spayed female, Staffordshire Terrier canine. 24 Jun 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61111) was applied between the shoulder blades. 1 Jul 2018*: The pet experienced ataxia, shaking, anorexia, diarrhea, vomiting, incontinent 18 Jul 2018: the pet was presented to the clinic. The attending veterinarian ran Radiographs, Sonogram, blood chemistry and Cat Scan. All diagnostics came back inconclusive. The veterinarian prescribed Doxycycline and a dewormer. 26 Jul 2018: Symptoms are still ongoing. There are 2 other dog in the household that also received the product and are asymptomatic. No further medical information is expected.
20-Jul-2018	UAE; 18US047353; -; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 6 lbs	3	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 (Contraindication per label)	01-May-2018*	20-Jul-2018*	19 Day(s)	D-D	Suspected Adverse Event: On 20 Jul 2018, the following event was reported to Safety Call International (SCI) by the veterinarian for Rosie Cotton, a 14 year old (born 10 Jun 2004*), 6 pound, spayed female Small crossbred canine. 1 May 2018*: Started on FRONTLINE PLUS (product unsubstantiated) once every three weeks. 20 Jul 2018: The attending veterinarian states the dog is experiencing alopecia due to hypothyroidism. The dog also currently has fleas and has developed flea allergy dermatitis. No further information is available at this time. UPDATE 26 Jul 2018: Per information received from the attending veterinarian, the alopecia developed at an unknown time prior to the dog receiving FRONTLINE PLUS. No further medical information is expected.
24-Jul-2018	UAE; 18US047472; WI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Vetmedin pimobendan chewable 1.25 mg NP; Disal furosemide	20-Jul-2018	21-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 24 Jul 2018, the owner reported the following event for Mod, a 12 year old, 6 pound, spayed female, Chihuahua. 6 Jul 2018: The dog started on half a tablet of Vetmedin® (pimobendan) 1.25 mg Chewable Tablet (lot unknown) given twice a day and half a tablet of Furosemide Tablets 12.5 mg (Phoenix Pharmaceutical) given once a day. The dog was being treated for a heart murmur. 20 Jul 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was given to the dog topically from the shoulder blades to the tail, by the owner. This was the first dose 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
						Tablets; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)					21 Jul 2018: The dog received another dose of Vetmedin® (pimobendan) 1.25 mg Chewable Tablet and Furosemide Tablets 12.5 mg. The dog started having ataxia and was yelping in pain when touched. The dog was not eating or drinking. The dog was also lethargic. The dog was seen by a veterinarian. The vet did not believe the symptoms were due to the FRONTLINE. The owner gave the dog a bath. The symptoms are ongoing. No further medical information expected.
24-Jul-2018	UAE; 18US047483; PA; U.S.A	**Species:** Canine **Breed:** Pug **Sex:** U **Sex qualifier:** Unknown **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?:** Unknown to Company	N/A	24-Jul-2018	1 Day(s)	D-B	Suspected Adverse Event: On 24 Jul 2018, the owner reported the following event for Blade, 5 year old ,12 pounds, Pug (all other signalments unknown). 23 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied topically at an unknown location. 24 Jul 2018: The canine had paraliysis of the back legs. (It is unknown if the pet was presented to the clinic for treatment).Status of the pet is unknown. No further medical information is expected.
25-Jul-2018	UAE; 18US047528; MI; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** F **Sex qualifier:** - **Age:** 3.00 Month(s) **Weight:** 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?:** No (Off label use / Indication)	04-Jul-2018*	05-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 25 Jul 2018, a clinic staff reported the following event for Lulu, a 3 month old (30 Mar 2018), 2 pound, intact female Miniature Poodle. 4 Jul 2018*: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied in between the shoulders by the groomer. 5 Jul 2018*: The dog had pruritus and erythema at the site of application. The dog did not present to the clinic and no treatment was given. 24 Jul 2018: The dog presented to the clinic for a routine check and had recovered. No further medical information expected.
25-Jul-2018	UAE; 18US047630; NC; U.S.A	**Species:** Feline **Breed:** Havana Brown **Sex:** U **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?:** Unknown to Company	N/A	02-Jul-2018*	1 Day(s)	D-C	Suspected Adverse Event: On 25 Jul 2018, the owner reported the following event for a 14 year old, Havana Brown, Feline (all other signalment unknown). 1 Jul 2018*: An unknown amount of FRONTLINE PLUS CATS (P40618) was applied topically at an unknown location. Unknown date: The pet experienced seizures. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.

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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
25-Jul-2018	UAE; 18US047701; MD; U.S.A	**Species:** Canine **Breed:** Retriever (Chesapeake Bay) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 85 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 (Overdose)	N/A	22-Jun-2018*	N/A	D-C	Suspected Adverse Event: On 25 Jul 2018, the owner reported the following event for Cocoa, 10 year old, 85 pound, spayed female, Chesapeake Bay Retriever canine. Unknown date: One vial of FRONTLINE PLUS DOG 89-132 (R60908AR) was applied between the shoulder blades. The pet experienced an seizure. It is unknow to the pet owner how long the seizure lasted. 22 Jul 2018: Fleas were seen on the pet. Another vial was applied. The pet experienced increased itching. The pet was not presented to the clinic and no treatment was provided. 27 Jul 2018: The itching is still ongoing. the pet has received the product on prior unknown dates and no symptoms presented. There are 2 other dogs in the household that also received the product. One dog experienced symptoms (see case 18US048507). There are also 3 cats in the household that received FRONTLINE and experienced symptoms (see case 18US048946, 18US048516, 18US048947). No further medical information is expected.
25-Jul-2018	UAE; 18US047748; NC; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Month(s) **Weight:** 46.000 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	17-Jul-2018*	18-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 25 Jul 2018 the clinic staff reported the following event for Sydney, a 9 month old (born 12 Oct 2017), 46 pound, spayed female Australian Shepherd. 17 Jul 2018: The pet owner applied 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) topically to an unknown application site. It is unknown if this was the first time the dog had received the product. 18 Jul 2018: The pet owner reported the dog had become lethargic and developed a loose stool. The dog presented to the clinic and was treated with Panacur and metronidazole. A fecal test was positive for hookworms and coccidia and a performed CBC indicated anemia with unknown values. 25 Jul 2018: The dog recovered. No further medical information is expected.
25-Jul-2018	UAE; 18US047765; MI; U.S.A	**Species:** Canine **Breed:** English Bulldog **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	23-Jul-2012*	25-Jul-2018	2 Day(s)	D-D	Suspected Adverse Event: On 25 Jul 2018, the owner reported the following event for Darla, 6 year old, 65 pound, spayed female, English Bulldog canine. 23 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P62521AR) was applied between the shoulder blades. 25 Jul 2018: The pet experienced a bloody wound at the application site. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. The pet has received the product monthly since 23 Jul 2012* and no symptoms presented. There is one other dog in the household that did not receive the product and is asymptomatic. No further medical information is expected.
26-Jul-2018	UAE; 18US047859; CA; U.S.A	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 85 lbs	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	25-Jul-2018	26-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 Jul 2018, the owner reported the following event for Jax, 3 year old, 85 pound, neutered male, Staffordshire terrier canine. 25 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied between the shoulder blades. 26 Jul 2018: The pet experienced hair loss at the application site. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. There are 2 other dogs in the household that also received the product and are asymptomatic. 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
						Was the product used ok?: Yes					
26-Jul-2018	UAE; 18US047931; OR; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	25-Feb-2018*	26-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 26 July 2018, the owner reported the following event for Simon, a 12 pound, 9 year old, neutered male Siamese. 25 July 2018: One vial of FRONTLINE PLUS CATS (L40103AW) was applied per label to the cat. 26 July 2018: The cat started to twitch,tremor, paw, and lick himself. The cat has not been seen by the vet and the owner is monitoring his condition. The cat has had FL the past few months and has had the same reaction after each treatment. No further medical information available.
26-Jul-2018	UAE; 18US048052; MI; U.S.A	**Species:** Canine **Breed:** Poodle (Standard) **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	26-Jul-2018*	26-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 26 July 2018, the owner reported the following event for a Poodle (Standard). *26 July 2018: One vial of FRONTLINE PLUS DOG 45-88 (R61201ER) was applied to the dog. Following the treatment the dog developed a huge wet spot on the pet's back. No further medical information available.
26-Jul-2018	UAE; 18US048055; MI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 72.000 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?:** Yes	20-May-2018	21-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 26 Jul 2018, the owner reported the following event for Leroy, 1 year old, 72 pound, neutered male, Yellow Labrador retriever canine. 20 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P6251BR) was applied between the shoulder blades. 21 Jul 2018: The pet experienced hair loss and skin irritation at application site. 26 Jul 2018: the pet was presented to the clinic. the attending veterinarian prescribed Trazadone , Prednisone, and an unknown antibiotic. 27 Jul 2018: the pet has improved but symptoms are still onoging. No further medical information is expected.
26-Jul-2018	UAE; 18US048114; CA; U.S.A	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** - **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**	N/A	26-Jul-2018	2 Day(s)	D-C	Suspected Adverse Event: On 26 Jul 2018, the owner reported the following event for Missy, 6 year old, 50 pound, intact female, Schnauzer canine. 24 Jul 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (P61809AR) was applied between the shoulder blades. 26 Jul 2018: The pet experienced vomiting, shaking, and possible seizure. The pet was not presented to the clinic and no treatment was provided. The symptoms are still ongoing. 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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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					
26-Jul-2018	UAE; 18US048144; FL; U.S.A	**Species:** Feline **Breed:** Turkish Van **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Flea Collar; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	10-Jun-2018	13-Jul-2018	3 Day(s)	D-D	Suspected Adverse Event: On 26 Jul 2018, the owner reported the following event for Oscar, 3 year old, 10 pound, neutered male, Turkish Van Feline. 10 Jul 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Jul 2018: The pet experienced hair loss and skin irritation at application site. 10 Jul 2018: Another vial was applied. Symptoms persisted. 26 Jul 2018: The pet has improved but symptoms are still ongoing. The pet was also on an unknown flea collar. There are 2 other cats in the household that also received the product and are asymptomatic. No further medical information is expected.
26-Jul-2018	UAE; 18US048170; TX; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 6.5 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?:** Yes	26-Jul-2018	26-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 July 2018, the owner reported the following event for Sadie Mae, a 3 year old 6.5 pound, spayed female Maltese. 26 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62514BL) was applied per label to the dog for the first time. Immediately the dog started to turn bright red at the application site and the entire part of her back is red. The dog also started panting and vomiting. The owner gave the dog Benadryl and then took her to the vet. At the vet clinic the dog was given a Dawn bath and a steroid and her symptoms are still ongoing, but improved. No further medical information available.
26-Jul-2018	UAE; 18US048174; KY; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 82 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-Jul-2008	26-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 26 July 2018, the owner reported the following event for Minnie, an 11 year old, 82 pound, spayed female Boxer. 26 July 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied per label to the dog. Following the treatment the dog is lazy, doesn't want to drink, her upper lip is swollen, she also has nausea and vomiting. The owner applied an ice pack. The dog has been on FL all her life and has all the other symptoms before except the swollen lip. No further medical information available.
26-Jul-2018	UAE; 18US048180; CA; U.S.A	**Species:** Canine **Breed:** Cockapoo **Sex:** M **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	N/A	08-Jul-2018*	8 Day(s)	D-C	Suspected Adverse Event: On 26 Jul 2018, the owner reported the following event for Bonn, 18 pounds, male Cockapoo canine (all other signalments). 30 Jun 2018: An unknown amount of FRONTLINE DOG 5-22 LBS (R6148AL) was applied topically at an unknown location. 8 Jul 2018*: The pet had difficulty breathing and redness on the stomach. It is unknown if the pet was presented to the clinic or if any treatment was provided. Status of the pet is unknown. No further medical information is expected.

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27-Jul-2018	UAE; 18US048226; IN; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 9 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Sergeants; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)	26-Jul-2018	26-Jul-2018	0 Day(s)	D-B	Suspected Adverse Event: On 27 Jul 2018, the veterinary technician reported the following event for a 9 pound, Domestic Shorthair (Crossbreed) (all other signalments unknown). 24 Jul 2018: The cat received a dose of Sergeants. 26 Jul 2018: Approximately half a vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the cat, topically between the shoulder blades, by the owner. This was the first dose applied. Shortly after the application, the cat began convulsing. The cat was seen by the veterinarian but no treatment has been given yet. The symptoms are ongoing. No further medical information expected.
26-Jul-2018	UAE; 18US048326; PA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 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?:** Yes	N/A	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On , the owner reported the following event for Peaches, 4 year old, 72 pound, spayed female, Pit Bull canine. Unknown date: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. the pet experienced lethargy and vomiting. It is unknown if the pet was presented to the clinic or if any treatment was provided. The recovery date for the pet is unknown. No further medical information is expected.
27-Jul-2018	UAE; 18US048345; IN; U.S.A	**Species:** Canine **Breed:** Fox Terrier **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	24-Jul-2018	24-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018, the owner reported the following event for a Fox Terrier (signalment unknown). 24 July 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R62540AL) was applied to the dog. On an unknown date the dog started to bite himself all over, the owner applied a cone to the dog to stop him from biting. No further medical information available.
27-Jul-2018	UAE; 18US048387; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	29-Jan-2018*	05-Jul-2018	6 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018, the owner reported the following event for Bristol, a 12 pound male dog. 29 June 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied per label to the dog. 5 July 2018: The dog started to itch and chew himself. 24 July 2018: The dog was seen by the vet and they found 6 fleas and discovered the dog has a skin yeast issue. There is one other dog in the home. See case 18US050817. 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
27-Jul-2018	UAE; 18US048470; GA; 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?:** No (Treatment / vaccination program not respected)	13-Jul-2018	27-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018, the owner reported the following event for a dog (signalment unknown). 13 July 2018: The dog had fleas and one vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown). 27 July 2018: A second application was given and the dog continued to have fleas. On an unknown date, after a bath the dog started to itch. No further medical information available.
27-Jul-2018	UAE; 18US048507; MD; U.S.A	**Species:** Canine **Breed:** Retriever (Chesapeake Bay) **Sex:** M **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 130 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	22-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event:On 27 Jul 2018, the owner reported the following event for Java, 5 year old, 130 pound, intact male, Cheasapeake Retriever canine. 22 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 89-132 (R60908AR) was applied between the shoulder blades. The pet experienced increased itching and hair loss. The pet was not presented to the clinic and no treatment was provided. 27 Jul 2018: The itching is still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 2 other dogs in the household that also received the product. One dog experienced symptoms (see case 18US047701). There are also 3 cats in the household that received FRONTLINE and experienced symptoms (see case 18US048516, 18US0, 18US). No further medical information is expected.
27-Jul-2018	UAE; 18US048512; OH; U.S.A	**Species:** Canine **Breed:** Great Pyrenees **Sex:** M **Sex qualifier:** - **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:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	17-May-2018	20-Jul-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018, the owner reported the following event for Buster, a 9 month old, intact male Great Pyrenees. 17 July 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was topically applied between the shoulder blades to the tail. *20 July 2018: The dog's fur started to thin out at the base of his tail. The spot is 2 inches wide by 3 inches long. The dog has not been seen by the vet and the owner is monitoring his ongoing symptoms. The dog has had FL the past 2 months with no issues before the most recent treatment. No further medical information available.
27-Jul-2018	UAE; 18US048516; MD; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** -	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	N/A	22-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Jul 2018, the owner reported the following event for Casper, 13 year old, 10 pound, Intact male (all other signalments unknown). 22 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experiened pruritus. The pet was not presented to

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		Age: 13.00 Year(s) **Weight:** 10 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					the clinic and no treatment was provided. 27 Jul 2018: Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US048946,18US048952, and 18US048947) No further medical information is expected.
27-Jul-2018	UAE; 18US048523; IL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** - **Age:** 8.00 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	27-Jul-2018	27-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018 the owner reported the following event for Duke, a 8 month old, 10 pound, intact male Chihuahua. 27 July 2018: One vial of FRONTLINE PLUS 5-22 LBS (R61915AL) was applied to the dog per label for the first time. Within a few minutes the dog vomited twice. No further medical information available.
30-Jul-2018	UAE; 18US048538; PA; U.S.A	**Species:** Canine **Breed:** Canine Other **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 120.0 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	01-May-2016*	27-Jul-2018	26 Day(s)	D-D	Suspected Lack of Efficacy Claim: On 30 Jul 2018, the veterinarian reported the following event for Justice, a 7 year old (born 01 Nov 2010), 120.0 pound, neutered male Great Swiss Mountain Dog. He received the RECOMBITEK LYME 1 mL SC in the left shoulder on 13 Jun 2015 (42204, 19 Nov 2016), 08 Jul 2015 (42204, 19 Nov 2016), 10 May 2016 (42210, 16 Sep 2017), and 16 May 2017 (42213, 16 Feb 2018). May 2016* through Jul 2018*: He received FRONTLINE PLUS 89-132 LBS (lot and expiration unknown) (unsubstantiated) one dose topically monthly. 13 Jun 2015: He was diagnosed Lyme antigen negative. Dec 2015*: A tick was found on the pet. 27 Jul 2018: He was diagnosed Lyme antigen positive via a routine 4Dx test. A Quant C6 has been performed with unknown results. Treatment has not been initiated. His current condition is ongoing. He has a pertinent medical history of obesity. No further medical information expected.
30-Jul-2018	UAE; 18US048560; OH; 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?:** No (Treatment / vaccination program not respected)	10-Jun-2018	10-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 30 July 2018, the owner reported the following event for Katie a cat (signalment unknown). 10 June 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. 24 June 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. 30 July 2018:One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. On an unknown date the owner found 2 fleas and the cat started to itch and scratch. 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
31-Jul-2018	UAE; 18US048570; OH; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 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	01-Jul-2017*	13-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Josie, 1 year, 16 pound, spayed female (all other signalments unknown). 13 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. After 2 hours the pet experienced pruritus. The pet was not presented to the clinic. The owner treated with Douxo. 30 Jul 2018: The symptoms are still ongoing. The pet has received the product since 1 Jul 2017* and no symptoms presented. There is one other dog in the household that also received the product and experienced symptoms (see case 18US049714). No further medical information is expected.
30-Jul-2018	UAE; 18US048580; NY; 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:** unknown **Was the product used ok?:** Unknown to Company	30-Jul-2008*	02-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for a canine (all signalments unknown). 2008*: The dog started on an unknown amount of FRONTLINE (lot unknown, product unsubstantiated) given to the dog (unknown route and site of application), by the owner. Jun 2018*: The dog was given another dose of the product. The next day, the dog had diarrhea. The symptoms lasted about 3 weeks. Jul 2018*: The dog was given another dose of the product. The dog had the same symptoms and recovered. It is unknown if the dog was seen by a veterinarian or given any treatment. No further medical information expected.
30-Jul-2018	UAE; 18US048585; IL; U.S.A	**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	01-Jun-2018*	01-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 30 July 2018, the owner reported the following event for 2 cats (signalment unknown). * 1 June 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cats. On an unknown date following the treatment the cats started itching a lot. No further medical information available.
30-Jul-2018	UAE; 18US048649; KY; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 6.00 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	01-Jan-2012*	10-Jul-2018	N/A	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Applejack, 6 year old, 28 pound, intact female, Chihuahua canine. 3 Jul 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (L60802AL) was applied between the shoulder blades. 10 Jul 2018: The pet experienced intense itching. 15 Jul 2018: Another vial was applied. 16 Jul 2018: The pet was presented to the clinic and not treatment was provided. 30 Jul 2018: Symptoms are still ongoing. the pet has received the product since 2012* and no symptoms presented. No further medical information is expected.
30-Jul-2018	UAE; 18US048678;	**Species:** Canine	1	1	0	**Product used:** FIPRONIL	16-Jul-2018	19-Jul-2018	3 Day(s)	D-C	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Harlee, 4 year old, 9.6 pound, spayed female,

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	CA; U.S.A	**Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 9.6 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Yorkshire Terrier canine. 16 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 (R60308AL) was applied between the shoulder blades. 19 Jul 2018: The pet vomitted 15-16 times. Unknown date: The pet was presented to the clinic and no treatement was provided. 29 Jul 2018: The pet was presented to the clinic again and a blood chemistry was run. The results are still pending. The pet recovered. No further medical information is expected.
30-Jul-2018	UAE; 18US048730; GA; U.S.A	**Species:** Canine **Breed:** Havanese **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	15-Jun-2018	15-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Jun 2018, the owner reported the following event for a Havanese (all other signalments unknown). 15 Jun 2018: An unknown amount of FRONTLINE PLUS DOG 0-22 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 applied. The dog was exposed to fleas prior to the application. 15 Jul 2018: The dog received another dose of the product. The owner was still seeing a large amount of fleas on the dog. The dogs skin became red, inflamed, and is scabbing over from increased scratching. 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.
30-Jul-2018	UAE; 18US048799; OH; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	25-Jul-2017	26-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Bailey, an 8 year old, 14 pound, neutered male, Bichon Frise. 2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a year round basis. 25 Jul 2018: The dog received another dose of the product. 26 Jul 2018: The dog had loose stool. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
30-Jul-2018	UAE; 18US048831; -; 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:** unknown **Was the product used ok?:** Unknown to Company	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for a feline (all signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat (unknown route and site of application), by the owner. It is unknown if this was the first dose. Right after the application, the pet vomited. It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected.
30-Jul-2018	UAE; 18US048853; KY; U.S.A	**Species:** Canine **Breed:** Newfoundland	28	1	0	**Product used:** FIPRONIL 10%/S	01-Jan-2016*	22-Jul-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Jovi, a 2.5 year old, 118 pound, pregnant non-lactating intact female, Newfoundland.

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		Sex: F **Sex qualifier:** Pregnant **Age:** 2.50 Year(s) **Weight:** 118 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)					2016*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (D62005AR) given to the dog topically between the shoulder blades, by the owner. The dog was treated every other month, seasonally from Apr-Oct. 20 Jul 2018*: The dog received another dose of the product. 22 Jul 2018*: The dog had a raised area at the site of application. The day after, the area ruptured. The dog was not seen by a veterinarian. The owner gave the dog Cephalexin. The symptoms are ongoing. There was another dog treated that had symptoms (see case 18US49168). No further medical information expected.
30-Jul-2018	UAE; 18US048909; OH; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 21.00 Year(s) **Weight:** 5 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	01-Jun-2018	30-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Dixie, a 21 year old, 5 pound, spayed female, Calico. 1 Jun 2018: The cat started on 1 vial of FRONTLINE PLUS CATS (R41201AW) given to the cat topically between the shoulder blades, by the owner. The cat was treated monthly. The cat had fleas prior to the first dose. 30 Jun 2018*: The cat started pulling out her hair all over the body. 29 Jul 2018*: The cat received the most recent dose of the product and the symptoms are ongoing. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.
30-Jul-2018	UAE; 18US048910; MO; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 9 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-Jul-2018	30-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Zeus, 5 year old, 9 pound, neutered male, Mixed Breed canine. 29 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 30 Jul 2018: The pet experienced a nervous twitch. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. The pet has received Advantage in the past and experienced the same symptoms. No further medical information is expected.
30-Jul-2018	UAE; 18US048943; MI; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** M **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	N/A	30-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Cody, 12 year old, 16 pound, neutered male, Miniature Schnauzer canine. 29 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P62015AL) was applied between the shoulder blades. 30 Jul 2018: The pet experienced bloody diarrhea. The pet was not presented to the clinic and no treatment was provided. Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
27-Jul-2018	UAE; 18US048946;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	N/A	22-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Jul 2018, the owner reported the following event for Cathy, 13 year old, 10 pound, spayed female

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	MD; U.S.A	(unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 10 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(all other signalments unknown). 22 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced pruritus. The pet was not presented to the clinic and no treatment was provided. 27 Jul 2018: Symptoms are stil ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US048516, 18US048947 and 18US048952) No further medical information is expected.
27-Jul-2018	UAE; 18US048947; MD; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 11 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	N/A	01-Jun-2018*	0 Day(s)	D-A	Suspected Adverse Event: On 27 Jul 2018, the owner reported the following event for Peanut, 10 year old, 11 pound, neutered male (all other signalments unknown). 1 Jun 2018*: Fleas were seen on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced pruritus. The pet was not presented to the clinic and no treatment was provided. 2 Jun 2018*: The pet passed away due to Diabetes. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US048516, 18US048946 and 18US049352). No further medical information is expected.
31-Jul-2018	UAE; 18US048952; NY; U.S.A	**Species:** Canine **Breed:** Havanese **Sex:** M **Sex qualifier:** Unknown **Age:** 1.00 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?:** Unknown to Company	N/A	30-Jul-2018	0 Day(s)	D-C	Suspected Adverse Event: On 31 Jul 2018, the owner reported the following event for Leo, 1 year, 13 pound, male, Havanese canine. 30 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (P62713BL) was applied topically at an unknown location. The pet began shaking. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
31-Jul-2018	UAE; 18US048956; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 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	27-Jul-2016*	28-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 31 July 2018, the owner reported the following event for Josie, a 12 year old, 9 pound, spayed female Domestic Shorthair. 27 July 2018: One vial of FRONTLINE PLUS CATS (R411105AW) was topically applied to the cat per label. *28 Jul 2018: The cat started to become seemingly agitated and she would not eat her food. The cat has been on FL as needed for years with no issues. The owner is monitoring the cat's condition, no further medical information available.
31-Jul-2018	UAE; 18US048972; IN; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** M	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Jul-2018*	20-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event:On 31 JUL 2018, the owner reported the following event for Hatchi, approximately 8 year old , 89 lb, neutered Male , Black Labrador Retriever Mix. 20 JUL 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS

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		Sex qualifier: Neutered **Age:** 8.00 Year(s) **Weight:** 89 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(18-48972) was applied between the shoulder blades. JUL 2018*: The canine had severe pruritus after use of Frontline. Pet has not been presented to a vet. 2 AUG 2018: Pet's symptoms are still on going. No further medical information is expected.
31-Jul-2018	UAE; 18US049065; NY; U.S.A	**Species:** Canine **Breed:** Rottweiler **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 110 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-Jul-2016*	10-Jul-2018	N/A	D-D	Suspected Adverse Event: On 31 Jul 2018, the owner reported the following event for Akita, an approximately 2 year old, 110 pound, spayed female, Rottweiler. 2016*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (P61801AR) given to the dog topically between the shoulder blades, by the owner. The dog was treated every 30 days, on a year round basis. 29 Jun 2018: The dog received another dose of the product. 10 Jul 2018: The owner started seeing fleas and the dog was scratching. 12 Jul 2018: The dog started on Safeguard dewormer and was treated daily. 14 Jul 2018: The dog received the last dose of Safeguard dewormer. 17 Jul 2018*: The dog received another dose of the product. The owner is still seeing fleas and the symptoms are ongoing. The dog was not seen by a veterinarian or given any treatment. The owner is not seeing fleas in the home or on his 2 cats that are also treated with FRONTLINE. No further medical information expected.
30-Jul-2018	UAE; 18US049168; KY; U.S.A	**Species:** Canine **Breed:** Bernese Mountain Dog **Sex:** F **Sex qualifier:** - **Age:** 2.00 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?:** No (Treatment / vaccination program not respected)	01-Jul-2016*	26-Jul-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Carly, a 2 year old, 90 pound, non-pregnant non-lactating intact female, Bernese Mountain Dog. Jul 2016*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (D62005AR) given to the dog topically between the shoulder blades, by the owner. The dog was treated every other month, seasonally from Apr-Oct. 24 Jul 2018*: The dog received another dose of the product. 26 Jul 2018*: The dog had a raised area at the site of application. The day after, the area ruptured. The dog was not seen by a veterinarian. The owner gave the dog Cephalexin. The symptoms are ongoing. There was another dog treated that had symptoms (see case 18US48853). No further medical information expected.
31-Jul-2018	UAE; 18US049209; KS; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 6.687 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	30-Jun-2018*	30-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 31 Jul 2018, a veterinarian reported the following event for Faith, an 8 year old (born in 2010), 6.687 pound, spayed female Domestic Longhair. Unknown date: The cat started to receive one full pipette of FRONTLINE PLUS CATS (lot number and expiration date unknown) applied topically, between the shoulder blades, by the pet owner. After an unknown period of time following product application, the cat started vomiting and hypersalivating. She did not present to the veterinary clinic for examination or treatment. It could not be confirmed if the reported symptoms were noted

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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					following multiple application dates or just one. It was noted that the cat experienced a similar reaction following FRONTLINE GOLD FOR CATS (lot number and expiration date unknown) application (see case 18US049208). No further medical information expected.
31-Jul-2018	UAE; 18US049281; IL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	01-May-2011*	01-Jul-2018*	4 Week(s) 6 Day(s)	D-D	Suspected Adverse Event: On 31 JULY 2018, the owner reported the following event for a 9 year old, canine , neutered, male,15 pound, Shih Tzu. MAY 2018*: One vial of FRONTLINE PLUS DOG 5-22 LBS (L64505BL) was applied between the shoulder blades. JULY 2018*: The canine had skin irritation at the application site and the pet was presented to a clinic for treatment where the vet prescribed Zrytec and Hydroxyzine. 31 July 2018: The pet is still experiencing ongoing symptoms.No further medical information is expected.
31-Jul-2018	UAE; 18US049339; IL; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; Hydrogen peroxide; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Apr-2017*	31-Jul-2018	30 Day(s)	D-D	Suspected Adverse Event: On 31 Jul 2018, a pet owner reported the following event for Ivy, a 1.5 year old, approximately 30 pound, spayed female Shetland Sheep Dog. Apr 2017*: The dog started to receive one full chew of HEARTGARD PLUS (136 MCG/114 MG) (lot number and expiration date unknown), orally, by the pet owner, on a monthly basis as well as one full vial of FRONTLINE PLUS DOG 23-44 LBS (lot number unknown), applied topically, between the shoulder blades, by the pet owner, on a monthly basis. Early Jul 2018*: The most recent vial of FRONTLINE PLUS was applied. 31 Jul 2018: The most recent chew of HEARTGARD PLUS was administered at 9:30 am. Later in the day, the dog ingested a tampon. The pet owner induced vomiting using hydrogen peroxide at 4:20 pm. The dog fully recovered. It was noted that the dog does get loose stool after receiving HEARTGARD PLUS (see case 18US049340). No further medical information expected.
31-Jul-2018	UAE; 18US049340; IL; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.50 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous	01-Apr-2017*	31-Jul-2018*	30 Day(s)	D-D	Suspected Adverse Event: On 31 Jul 2018, a pet owner reported the following event for Ivy, a 1.5 year old, approximately 30 pound, spayed female Shetland Sheep Dog. Apr 2017*: The dog started to receive one full chew of HEARTGARD PLUS (136 MCG/114 MG) (lot number and expiration date unknown), orally, by the pet owner, on a monthly basis as well as one full vial of FRONTLINE PLUS DOG 23-44 LBS (lot number unknown), applied topically, between the shoulder blades, by the pet owner, on a monthly basis. Early Jul 2018*: The most recent vial of FRONTLINE PLUS was applied. 31 Jul 2018*: The most recent chew of HEARTGARD PLUS was administered at 9:30 am. Whenever HEARTGARD PLUS is administered, the dog develops loose stool approximately 4 hours later. The symptoms fully resolve within 12-24 hours without treatment. It was noted that the pet owner had to induce vomiting after the

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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
						Was the product used ok?: Yes					dog received the most recent chew of HEARTGARD PLUS on 30 Jun 2018* since the dog ingested a tampon as well (see case 18US049339). No further medical information expected.
27-Jul-2018	UAE; 18US049352; MD; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 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	N/A	22-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Jul 2018, the owner reported the following event for Smokey, 10 year old, 8 pound, neutered male (all other signalments unknown). 22 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced pruritus. The pet was not presented to the clinic and no treatment was provided. 27 Jul 2018: Symptoms are stil ongoing. The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US048516, 18US048946, and 18US048947) No further medical information is expected.
01-Aug-2018	UAE; 18US049391; NC; 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?:** Yes	01-Mar-2018*	11-Jun-2018	N/A	D-D	Suspected Adverse Event: On 1 Aug 2018, the owner reported the following event for a canine (all other signalment unknown). 11 Jun 2018: Fleas were seen on the pet. An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at an unknown location. The pet experienced itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. 11 Jul 2018: Another vial was applied. The status of the pet is unknown. The pet has received the product since 1 Mar 2018* and no symptoms presented. There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.
01-Aug-2018	UAE; 18US049494; CA; U.S.A	**Species:** Canine **Breed:** Rottweiler **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-Jul-2018	2 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018, the owner reported the following event for a Rottweiler canine (all other signalments unknown). 29 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R60204AR) was applied topically at an unknown location. 31 Jul 2019: The pet began snapping at the air all night. It is unknown if the pet was presented to the clinic or if any treatment was provided. 1 Aug 2018: Symptoms are still ongoing and are worsening. No further medical information is expected.
01-Aug-2018	UAE; 18US049622; GA; U.S.A	**Species:** Canine **Breed:** Akita **Sex:** F **Sex qualifier:** Unknown **Age:** 2.00 Year(s) **Weight:** 80 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	28-Jul-2018	28-Jul-2018	0 Day(s)	D-A	Suspected Adverse Event: On the 1 Aug 2018, a veterinarian reported the following event for Fancy, an 80 pound, 2 year old (unknown date of birth), female, unknown reproductive status, Akita. 28 Jul 2018: The Owner applied for the first time FRONTLINE PLUS DOG 89-132 LBS (unknown lot number), topically, between the shoulder blades. Later that day the dog had mild panting and restlessness that was on and off for about 4 times that day. 29 Jul 2018: Around 12:30 pm, the dog had tremors and she urinated and defecated herself after having a seizure. 1 Aug 2018: The owner contacted the veterinarian 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?: No (Overdose)					advised to bring the dog in for a check up and on the way into the clinic the dog passed away, by the time she made it into the clinic rigor mortis had already set in the legs and paws. The pet owner told the veterinarian that there were fleas in his home and that an exterminating company had recently sprayed the home with an unknown pesticide, the owners and the dog were away while the home was treated with the pesticide. No further information available at this time. UPDATE 1 Aug 2018: Per the veterinarian, the pesticide products used in the home were Onslaught (S-fenvalerate 6.4%) and Pre-Core (S-methoprene 1.2%). The pet's last rabies vaccination was given on 22 Dec 2016, and the pet is overdue for a booster. Necropsy and rabies testing will be performed. No further information at this time. UPDATE 16 Aug 2018: Per medical record, histopathology revealed a final diagnosis of granulomatous meningoencephalitis. The brain was negative for rabies. Aerobic culture revealed Enterococcus faecalis: heavy growth in the lung, few colonies in the kidney, and moderate growth in the intestine. Aerobic culture also revealed moderate growth of Staphylococcus intermedius in the lung. No further medical information expected.
01-Aug-2018	UAE; 18US049714; OH; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Month(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	01-Jan-2018*	13-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Layla, 6 month, 18 pound, spayed female (all other signalments unknown). 13 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. After 2 hours the pet experienced pruritus. The pet was not presented to the clinic. The owner treated with Douxo. 30 Jul 2018: The symptoms are still ongoing. The pet has received the product since 1 Jul 2017* and no symptoms presented. There is one other dog in the household that also received the product and experienced symptoms (see case 18US048570). No further medical information is expected.
01-Aug-2018	UAE; 18US049741; NH; U.S.A	**Species:** Canine **Breed:** Beagle **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	22-May-2018*	25-Jul-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018, the owner reported the following event for a Beagle canine (all other signalments unknown). 22 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (P62005AR) was applied topically at an unknown location. 25 Jul 2018: The pet experienced intense itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
01-Aug-2018	UAE; 18US049757; NE; U.S.A	**Species:** Canine **Breed:** Rat Terrier **Sex:** F **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	N/A	01-Jan-2016*	0 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018, the owner reported the following event for Scruffy, 3 year old, 14 pound, spayed female, Rat Terrier canine. Unknown date: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. The pet experienced a rash at the application site. The pet was presented to the clinic. The attending veterinarian cleaned the site and prescribed an unknown medication. The pet recovered after 24 hours.

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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					No further medical information is expected.
01-Aug-2018	UAE; 18US049766; MO; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 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 ok?:** No (Treatment / vaccination program not respected)	31-Jul-2018	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018, the owner reported the following event for Bennett, 5 year old, 83 pound, neutered male, Black Labrador Retriever canine. 31 Jul 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P63007AR) was applied between the shoulder blades. 1 Aug 2018: Another vial was applied. The pet experienced diarrhea and began gnawing at the paw. 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-Aug-2018	UAE; 18US049776; MI; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 11 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Gabapentin; Paxil; Benadryl; unknown Steroid; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2016*	01-Apr-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018 the pet owner reported the following event for Gus, 3 years old, 11 pounds, neutered male, Bichon Frise- York Shire Terrier Mix Canine. Apr 2018*: 1 vial of FRONTLINE Plus DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. An unknown time after the product was applied, the dog experienced anxiety and unusual behavior. Apr 2018*: The dog recovered the following day. The dog also experienced the same symptoms on a monthly basis since the first application in Jan 2016*. The pet is also receiving Gabapentin, Paxil, Benadryl and steroids. No further information is expected.
01-Aug-2018	UAE; 18US049778; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **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	01-Jul-2018*	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 1 Aug 2018 the pet owner reported the following event for Max, 6 year old, 22 pound, neutered male, domestic short hair/ 1 Aug 2018 : 1 vial of FRONTLINE PLUS CATS (lot R40741AW) was applied between the shoulder blades. An unknown amount of hours later, the cat had white, chalky residue at the application site. The pet did not present to the clinic. Symptoms are ongoing. No further medical information is expected.
02-Aug-2018	UAE; 18US049779;	**Species:** Feline **Breed:** Domestic	1	1	0	**Product used:** FIPRONIL	31-Jul-2018	02-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 21 July 2018, the owner reported the following event for Bentley, a 17 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
	PA; U.S.A	Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 17 lbs				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Domestic Longhair. 31 July 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied per label to the cat for the first time. 2 August 2018: The cat developed hair loss and a red rash at the application site. The owner is monitoring the cat, and will have him seen if necessary. The cat has asthma, but is in good health. There is one other cat in the home who also had a reaction. See case 18US049786. No further medical information available.
02-Aug-2018	UAE; 18US049786; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 9.5 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	31-Jul-2018	02-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 21 July 2018, the owner reported the following event for Bailey, a 9.5 pound, neutered male, Domestic Shorthair. 31 July 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was applied per label to the cat for the first time. 2 August 2018: The cat developed a rash on his back. The owner is monitoring the cat, and will have him seen if necessary. The cat had FL 11 years ago with no issues. The cat is in cancer remission but is in good health. There is one other cat in the home who also had a reaction. See case 18US049779. No further medical information available.
02-Aug-2018	UAE; 18US049889; -; 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	02-Aug-2018*	02-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 2 Aug 2018, a pet owner reported the following event for a canine of unknown signalment. Unknown date: The dog received FRONTLINE PLUS (lot number unknown) (product unsubstantiated). After an unknown period of time following product application, the skin at the application site looked as though it had burned off. No further medical information expected.
02-Aug-2018	UAE; 18US049915; WV; U.S.A	**Species:** Canine **Breed:** Siberian Husky **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	26-Jul-2018*	26-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 2 Aug 2018, the owner reported the following event for a Siberian Husky (all other signalments unknown). 26 Jul 2018*: The dog started on 1 dose of FRONTLINE PLUS DOG 45-88 LBS (P62501AR) given to the dog topically (unknown site of application), by the owner. On an unknown date after the application, the owner saw fleas on the dog. The dog's itching increased and had red bumps on the belly. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
02-Aug-2018	UAE; 18US049979; GA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	14-Jul-2018*	21-Jul-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 2 Aug 2018, the owner reported the following event for Max, a 6 month old, 50 pound, intact male, Retriever (Golden). 14 Jul 2018*: 1 vial of FRONTLINE PLUS DOG 45-88 LBS

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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: - **Age:** 6.00 Month(s) **Weight:** 50 lbs				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					(R61301AR) was given to the dog topically, between the shoulder blades, by the owner. This was the first dose applied. The dog had fleas prior to the application. 21 Jul 2018*: The dog started scratching and broke out in what looked like hives on his lower extremities inside his legs and on his belly. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
02-Aug-2018	UAE; 18US050094; NE; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Black) **Sex:** F **Sex qualifier:** - **Age:** 5.00 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	13-Jun-2018	20-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 2 Aug 2018, the owner reported the following event for Sidney, a 5 month old, 35 pound, non-pregnant non-lactating intact female, Retriever (Labrador, Black)/Blue Heeler mixed breed. 13 Jun 2018: The dog started on 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R60516BL) given to the dog topically between the shoulder blades, by the owner. 20 Jun 2018*: The dog started itching. The owner was not seeing any fleas. The owner may have seen a tick attached to the pet but was unsure of when. 10 Jul 2018: The dog received another dose of the product. The symptoms were ongoing. 30 Jul 2018: The dog received another dose of the product. The symptoms were ongoing. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
06-Aug-2018	UAE; 18US050095; GA; U.S.A	**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 **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Jun-2018	15-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 2 Aug 2018, the owner reported the following event for a Poodle (miniature) (all other signalment unknown). 15 June 2018: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was topically applied to the dog. 15 July 2018 One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was topically applied to the dog. On an unknown date the dog started to scratch its hair out from the fleas. The dog is also chewing and making sores. No further medical information available.
02-Aug-2018	UAE; 18US050109; GA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **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	02-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 2 Aug 2018, the owner reported the following event for 2 Yorkshire Terrier canines (all other signalments unknown). Unknown date: The pet are having an ongoing issue with fleas. An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (P62408AL) was applied topically at an unknown location. The pet experienced increased itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.

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02-Aug-2018	UAE; 18US050142; OH; U.S.A	**Species:** Canine **Breed:** Coonhound (Black And Tan) **Sex:** F **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 70 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	30-Jul-2018	02-Aug-2018	3 Day(s)	D-D	Suspected Adverse Event: On 2 August 2018: The owner reported the following event for a 8 year old, Canine, intact non-pregnant non-lactating, female, Coonhound. 2 Aug 2018: Owner reporting symptoms of vomiting and diarrhea after the 1st treatment of the Frontline. One vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied between the shoulder blades. No other product was given or applied with the use of the product .The pet is still experiencing symptoms and has not been presented to a vet, owner did wash the pet with DAWN after consulting with the vet over the phone . No further medical information is expected. 30 Jul 2018: Owner applied the 1st treatment of Frontline to the pet. Update 15 Aug 2018: After further review, the dose on the product screen was corrected.
02-Aug-2018	UAE; 18US050159; OH; U.S.A	**Species:** Canine **Breed:** Coonhound (Black And Tan) **Sex:** F **Sex qualifier:** - **Age:** 10.00 Week(s) **Weight:** 8 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	30-Jul-2018	02-Aug-2018	3 Day(s)	D-D	Suspected Adverse Event: On 2 August 2018: The owner reported the following event for a 10 week old, Canine, intact non-pregnant non-lactating, female, Coonhound. 2 Aug 2018: Owner reporting symptoms of vomiting and diarrhea after the 1st treatment of the Frontline. One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. No other product was given or applied with the use of the product .The pet is still experiencing symptoms and has not been presented to a vet, owner did wash the pet with DAWN after consulting with the vet over the phone . No further medical information is expected. 30 Jul 2018: Owner applied the 1st treatment of Frontline to the pet.
03-Aug-2018	UAE; 18US050179; VA; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** U **Sex qualifier:** Unknown **Age:** 45.00 Day(s) **Weight:** Unknown	5	5	5	**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*	03-Aug-2018	2 Day(s)	D-A	Suspected Adverse Event: On 3 Aug 2018, the owner reported the following event for five 45 day old, Pomeranians (all other signalments unknown). 2015*: The mother started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61914AR) given to the dog topically between the shoulder blades. The dog was treated on a year round basis. 19 Jun 2018: The puppies were born. 1 Aug 2018: The mother was given another dose of the product. 3 Aug 2018: The puppies died. The puppies were not seen by a veterinarian or given any treatment. No further medical information expected.
03-Aug-2018	UAE; 18US050190; VT; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	01-May-2018*	21-Jul-2018	N/A	D-D	Suspected Adverse Event: On 3 Aug 2018, the owner reported the following event for a 50 pound Terrier (signalment unknown). 8 July 2018: A vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied to the dog. The dog has been treated monthly since May 2018. 21 July 2018: The dog got fleas and started to itch. 29 July 2018:Another dose of FL was given and the dog continued to itch. The dog's tail is raw from chewing. 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
03-Aug-2018	UAE; 18US050217; NY; U.S.A	**Species:** Canine **Breed:** Spaniel **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 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	27-Jun-2018*	31-Jul-2018	4 Day(s)	D-B	Suspected Adverse Event: On 3 Aug 2018, the owner reported the following event for a 50 pound, 1 year old Spaniel. 27 July 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (P62207AL) was applied to the dog per label. 31 July 2018: The dog started to have seizures. 5 Aug 2018: The owner will be having the dog seen by the vet. The dog had the same reaction after the first application of FL given in June 2018. No further medical information available.
03-Aug-2018	UAE; 18US050486; -; 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	N/A	03-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 3 Aug 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 at an unknown location. The pet experienced foaming at the mouth and body tremors. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
06-Aug-2018	UAE; 18US050543; IL; U.S.A	**Species:** Canine **Breed:** Eskimo (Spitz) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 25 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?:** -	03-Jul-2018	04-Jul-2018	1 Day(s)	D-C	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Xander, 3 year old, 25 pound, neutered male, American Eskimo canine. 3 Jul 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied between the shoulder blades. 4 Jul 2018: The pet experienced skin irritation at the application site. 5 Jul 2018: The pet experienced vomiting which caused a blood vessel in eye to bust. 8 Jul 2018: The vomiting stopped. 9 Jul 2018: The pet was presented to the clinic. The attending veterinarian treated the pet with an unknown eye ointment. 6 Aug 2018: The skin irritation is still ongoing. There are 2 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
06-Aug-2018	UAE; 18US050648; OH; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Month(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**	02-Aug-2018	02-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Chloe, an 18 pound, Shih Tzu/Yorkshire Terrier mixed breed (all other signalments unknown). Unknown date: The first dose of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was given to the dog topically (unknown site of application), by the owner. Immediately after the application the dog became lethargic and started hiding. 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. UPDATE 14 Aug 2018: The owner reported the following for an 8 month old, spayed female. 2 Aug 2018: 1 vial of the product was applied topically from 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
						ok?: No (Treatment / vaccination program not respected)					shoulder blades to the tail, by the owner. 7 Aug 2018: The dog recovered. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
06-Aug-2018	UAE; 18US050677; FL; U.S.A	**Species:** Canine **Breed:** Weimaraner **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	20-Jul-2018	27-Jul-2018	1 Week(s)	D-D	Suspected Adverse Event: On 6 Aug the pet owner reported the following event for Gracie, 6 years old, 62 pounds, spayed female Weimaraner and Siberian Husky mix canine . 20 Jul 2018: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot R62301AR) was applied between the shoulder blades of. 27 Jul 2018: The dog began to experience a lack of appetite, lethargy, vomiting and pruritus. 28 Jul 2018: Benadryl was given to the pet. Pet did not present to the clinic. Benadryl was given for several days after pet experienced symptoms to treat pruritus. The lack of appetite is still ongoing but the pet did recover from all other symptoms on an unknown date. No further medical information is expected.
06-Aug-2018	UAE; 18US050678; MD; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 6.00 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	01-Aug-2018	01-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 6 AUG 2018, the owner reported the following event for ROLO, approximately 6 year old , 80 lb, intact Male , Pitbull. 1 AUG 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P2501AR) was applied topically between the shoulder blades. The symptoms of skin irritation progressively got worse as time went on and the pet became ataxic in his hind leg area, the pet owner did bathe the pet in an unknown dog shampoo as a treatment. 6 AUG 2018: The pet skin has started to blister at the application site and is still ataxic in his hindquarters. Pet has not been presented to a vet. Pet's symptoms are still on going. No further medical information is expected.
06-Aug-2018	UAE; 18US050679; VT; U.S.A	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** -	28-Jul-2018	01-Aug-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018 the pet owner reported the following event for unknown name, unknown age, 10 pounds, unknown reproductive status and unknown breed. 28 Jul 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. Unknown date: Cat experienced lethargy. Pet did not present to the vet. Unknown whether symptoms are ongoing. No further medical information expected.
06-Aug-2018	UAE; 18US050680; NY; U.S.A	**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**	01-Aug-2018*	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for two felines (all signalments unknown). Unknown date: The first vial of FRONTLINE PLUS CATS (lot unknown) was given to each cat, topically (unknown site of application), by the owner. On an unknown date after the application, the cats had a bald spot at the application site. There was no redness or irritation. It is unknown if the cats were seen by a veterinarian or given any treatment. The cats' current status is unknown. 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
						product used ok?: Unknown to Company					
06-Aug-2018	UAE; 18US050717; PA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 13 lbs	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	N/A	18-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Blair, 8 year old, 13 pound, neutered male, Yorkshire Terrier canine. 17 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. Unknown date: The pet experienced hair loss down the back and itching. The pet was not presented to the clinic. The owner applied Neosporin. 6 Aug 2018: The symptoms are still ongoing. There are 4 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
06-Aug-2018	UAE; 18US050741; NY; U.S.A	**Species:** Canine **Breed:** Tibetan Spaniel **Sex:** M **Sex qualifier:** - **Age:** 4.00 Month(s) **Weight:** 14.81 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** ORAL BORDETELLA CANINE - 1081.01 - PHN3259; Vanguard Plus 5; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2018	04-Aug-2018	1 Day(s)	D-C	Suspected Adverse Event: On 6 Aug 2018, the office manager reported the following event for Lincoln, a 4 month old (born 29 Mar 2018), 14.81 pound, approximately intact male, Tibetan Spaniel. 3 Aug 2018: The patient received one vial of FRONTLINE PLUS DOG 0-22 LBS (lot unknown), applied topically, between the shoulder blades for the first time. 4 Aug 2018: The pet owners observed Lincoln shake his head three times in a row and felt that he was exhibiting Parkinson-like head tremors. He was neither shivering nor twitching. 5 Aug 2018: He began experiencing malaise, lethargy, anorexia, and wasn't wanting to come out of his crate. Per the advice of an on-call veterinarian at the clinic, Lincoln was treated with Karo syrup. 6 Aug 2018: The canine recovered. Prior to product application, the patient was vaccinated on 18 Jul 2018 with Vanguard Plus 5 and RECOMBITEK ORAL BORDETELLA (33009BUNKNOWN, 24 Apr 2019), 1 mL, PO, for the first time. At the time of vaccination, he presented with mild corneal dystrophy (OU), but was otherwise in good health. Historically, he's experienced unknown head jerking following use of Revolution. No further medical information expected.
06-Aug-2018	UAE; 18US050763; OR; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 30 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used**	30-Jul-2008*	30-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Mimsy, a 30 pound, Shetland Sheep Dog (Sheltie) (all other signalments unknown). 30 Jul 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (L62007AL) was given to the dog topically (Unknown site of application), by the owner. The dog has been treated seasonally for an unknown amount of time. This was the first dose this year. The dog was itching occasionally prior to the first dose. On an unknown date after the application, the dog was itching more. 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. UPDATE 10 Aug 2018: The owner reported the following for Mimsy, a 10 year old, spayed female. 2008*: The dog started on 1 vial of FRONTLINE PLUS DOG 23-44 LBS given topically between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from Jun-Sep. The dog also started on 1 dose of HEARTGARD PLUS (136

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						ok?: Yes					MCG/114 MG) (7BC0195, 28 Feb 2020) given orally, by the owner. The dog was treated every 6 weeks, on a year round basis. 11 Jul 2018: The dog received the most recent dose of HEARTGARD PLUS (136 MCG/114 MG). 30 Jul 2018: The most recent dose of FRONTLINE PLUS DOG 23-44 LBS was applied. The dogs symptoms increased after the application. The owner did find a flea on the dog. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The dog does go outside in an open yard for potty breaks and the owner lives in a wooded area where the dog also goes for walks. The owner also has a strictly indoor cat that is not treated but no fleas have been seen on the cat. No further medical information expected.
06-Aug-2018	UAE; 18US050773; MD; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 15 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	24-Jul-2018	26-Jul-2018*	2 Day(s)	D-C	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Jet, 6 year old, 15 pound, neutered male, Domestic Shorthair feline. 24 Jul 2018: One vial of FRONTLINE PLUS CATS (P41104AW) was applied between the shoulder blades. 26 Jul 2018*: The pet experienced runny stool, and increased eating. The pet's eyes started rolling to the back of his head and also became fearful of the stairs. The pet was not presented to the clinic and no treatment was provided. 6 Aug 2018: The symptoms are still ongoing. There is one other cat in the household that also received the product and is asymptomatic. No further medical information is expected.
06-Aug-2018	UAE; 18US050774; CT; U.S.A	**Species:** Feline **Breed:** - **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 17 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	19-Apr-2017	19-Apr-2017	0 Day(s)	D-C	Suspected Adverse Event: On 6 Aug 2018, the veterinary technician reported the following event for Rudy, a 2 year old (born 3 Jul 2014), 17 pound, neutered male, Terrier mix. 19 Apr 2017: The patient received one vial of FRONTLINE PLUS DOG 5-22 LBS (M60607), topically, between the shoulder blades, for the first time, and on approximately the same date, received one chew of HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown), PO. Four hours following FRONTLINE PLUS application, Rudy had his tail tucked between his legs, was waiting at the door for the pet owner which is atypical behavior for him, and was shaking. The pet owner bathed him in an unknown shampoo and then took him to the clinic where he was seen for mild, intermittent fasciculation with intention tremors as well as application site inflammation. Rudy was bathed at the clinic with unknown dish soap. Unknown date: He recovered. Previously, the canine has received HEARTGARD PLUS, monthly, since 2014 without any issues. He has since experienced adverse symptoms following NEXGARD use. Please also see case 18US050760. No further medical information expected.
27-Jul-2018	UAE; 18US050817; PA; 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	29-Jan-2018*	05-Jul-2018	6 Day(s)	D-D	Suspected Adverse Event: On 27 July 2018, the owner reported the following event for Bella, a 9 pound dog (signalment unknown). 29 June 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was topically applied per label to the dog. 5 July 2018: The dog started to itch and chew himself. 24 July 2018: The dog was seen by the vet and they found 6 fleas and discovered the dog has a skin yeast issue. There is one other dog in the home. See case 18US048387. 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
						Was the product used ok?: Unknown to Company					
06-Aug-2018	UAE; 18US050827; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 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	01-Aug-2018	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Finn, a 15 year old, 14 pound, neutered male Shih Tzu. 1 Aug 2018: The dog received one full vial of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) applied topically, between the shoulder blades, by the pet owner, to treat an existing flea infestation. After an unknown period of time following product application, the dog was chewing around his tail and legs, and there has since been hair loss in that area. Three fleas were also observed on the dog. It was noted that the pet owner vacuums daily and empties the vacuum outside following every use. There is one other dog in the home that experienced similar clinical signs following product application (see case 18US050838). No further information at this time. UPDATE 6 Aug 2018: Per the pet owner, there are no fleas observed in the home. The dog primarily stays indoors but does go outside to an open yard where stray animals pass through. The symptoms are ongoing. No further information medical expected.
06-Aug-2018	UAE; 18US050829; NE; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **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-Aug-2018*	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for a Yellow Lab of unknown signalment. 1 Aug 2018: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied to the dog. Right after the application the dog vomited. The owner declined the report. No further medical information available.
06-Aug-2018	UAE; 18US050838; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 18.4 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-Aug-2018	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Rusty, a 1 year old, 18.4 pound, neutered male Shih Tzu. 1 Aug 2018: The dog received one full vial of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown) applied topically, between the shoulder blades, by the pet owner, to treat an existing flea infestation. After an unknown period of time following product application, the dog was scratching. The clinical sign resolved after an unknown period of time. It was noted that the pet owner vacuums daily and empties the vacuum outside following every use. There is one other dog in the home that experienced similar clinical signs following product application (see case 18US050827). No further information at this time. UPDATE 6 Aug 2018: Per the pet owner, the symptoms did not resolve (they are currently ongoing) and a single flea was noted on Rusty. The dog had a haircut on an unknown date. There are no fleas observed in the home. The dog primarily stays indoors but

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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
											does go outside to an open yard where stray animals pass through. No further medical information expected.
06-Aug-2018	UAE; 18US050865; 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	29-Jul-2017	29-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for a cat signalment unknown). 29 July 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat who was already scratching before the treatment. On an unknown date the cat's itching increased which lasted a few days and the cat recovered. The owner declined the report. No further medical information available.
06-Aug-2018	UAE; 18US050921; VT; U.S.A	**Species:** Feline **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	28-Jul-2018	01-Aug-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018 the pet owner reported the following event for unknown name, unknown age, 11 pounds, unknown reproductive status and unknown breed. 28 Jul 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. Unknown date: Cat experienced lethargy. Pet did not present to the vet. Unknown whether symptoms are ongoing. No further medical information expected.
06-Aug-2018	UAE; 18US050942; AZ; U.S.A	**Species:** Canine **Breed:** French Bulldog **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 16 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	30-Jul-2017*	01-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Finnegan, a 1 year old, 16 pound, neutered male French Bulldog. 30 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS was applied per label to the dog for the first time. 1 Aug 2018: The dog started to experience vomiting, diarrhea, lethargy, and flaky white residue. The dog was seen by the vet on an unknown date and prescribed Metronidozole and his condition is improving. There is one other treated dog who did not have symptoms. No further medical information available.
07-Aug-2018	UAE; 18US050964; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 14 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**	N/A	03-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Chase, 12 year old, 14 pound, neutered male, Domestic Shorthair feline. 3 Aug 2018: Half a vial of FRONTLINE PLUS CATS (R41201) was applied between the shoulder blades. The cat became ataxic and lethargic. The pet was not presented to the clinic and no treatment was provided. 5 Aug 2018: The cat passed away. The pet has received the product in the past on unknown dates and experienced lethargy. 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?: No (Low dose)					
07-Aug-2018	UAE; 18US051029; PA; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 92 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	30-Jul-2014*	30-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Karma, an 8 year old 92 pound, spayed female mixed breed dog. 30 July 2018: One vial of FRONTLINE PLUS DOG 89-132 (R61814AR) was applied to the dog per label. Following the treatment the dog was lethargic, vomiting, and loss of appetite. The owner gave the dog Pedialyte. *1 Aug 2018: The dog recovered. The dog has been on FL in the past with no issues. There is one other treated dog in the home who did not have a reaction. No further medical information available.
07-Aug-2018	UAE; 18US051042; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Week(s) **Weight:** 2.5 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-Aug-2018	07-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Lotson, a 12 week old, 2.5 pound, neutered male Domestic Shorthair. 7 Aug 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied per label to the cat for the first time. Within a few minutes the cat was lethargic and salivating. No further medical information available.
07-Aug-2018	UAE; 18US051145; CA; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** - **Age:** 8.00 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	05-Aug-2017*	06-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Sunny, 8 year old, 16 pound, intact male, Poodle mix canine. 5 Aug 2018 : One vial of FRONTLINE PLUS DOG 5-22 LBS (R61013AL) was applied between the shoulder blades. 6 Aug 2018: Fleas were found on the pet. The pet experienced itching and whining. 7 Aug 2018: The pet was presented to clinic. The attending veterinarian bathed the pet and prescribed NEXGARD. The symptoms are still ongoing. No further medical information is expected.
07-Aug-2018	UAE; 18US051175; VA; 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	17-Jul-2018	18-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for a dog (signalment unknown). 17 July 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied to the dog. On an unknown date the dog developed alopecia, itching, scratching, and diarrhea. No further medical information available.

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07-Aug-2018	UAE; 18US051254; OR; U.S.A	**Species:** Canine **Breed:** Manchester Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 18.5 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?:** Yes	10-Jun-2018	11-Jun-2018	0 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Max, 2 year old, 18.5 pound, neutered male, Manchester Terrier canine. 10 Jun 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 11 Jun 2018: The pet experienced a rash all over the body, lethargy, anorexia. 13 Jun 2018: The pet was presented to the clinic. The attending veterinarian prescribed a rash ointment. 16 Jun 2018: The pet recovered. The pet also received the product 5 Aug 2018 and experienced symptoms (see case 18US054763). No further medical information is expected.
06-Aug-2018	UAE; 18US051256; CA; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 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	30-May-2011*	30-May-2018	0 Day(s)	D-D	Suspected Adverse Event: On 6 Aug 2018, the owner reported the following event for Nikita, an 8 year old, 11 pound, spayed female, Domestic Mediumhair (Crossbreed). 2011*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically between the shoulder blades, by the owner. The cat was treated every other month, from May-Aug. Each time the product was applied, the cat would be lethargic for the rest of the day. The cat would recover by the next day. 30 May 2018: The most recent dose of the product was applied. The cat had the same symptoms. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.
07-Aug-2018	UAE; 18US051261; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **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?:** Yes	07-Aug-2018	07-Aug-2018	0 Day(s)	D-B	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Momo, 1 year old, 2 pound, intact male, Domestic Mediumhair feline. 7 Aug 2018: One vial of FRONTLINE PLUS CATS (M41406AW) was applied between the shoulder blades. The cat experienced a seizure which included foaming at the mouth. The seizure lasted 10 minutes and then the pet recovered. The pet was not presented to the clinic and no treatment was provided. There are 2 other cats in the household that received the product and are symptomatic (see case 18US051990 ,18US051995). No further medical information is expected.
07-Aug-2018	UAE; 18US051314; IL; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 34 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Prednisone; Percortin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	17-Jul-2011	18-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Sandy, a 7 year old, 34 pound, spayed female mix breed dog. 17 July 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R60516BL) was applied to the dog per label. 18 July 2018: The dog's fur had turned yellow at the application site. The dog has not been seen by the vet. The dog has been on FL all her life with no issues. The dog has Addison disease and takes Prednisone and a Percortin injection monthly. The dog has been on these medications for 3 years with no issues. No further medical information available.

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08-Aug-2018	UAE; 18US051329; WV; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **Weight:** 20 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	01-May-2018*	01-May-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 8 Aug 2018, the owner reported the following event for Ginger, 2 year old, 20 pound, intact female, Dachshund canine. 1 May 2018*: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. After about 8 hours the pet experienced vomiting and diarrhea. The pet was not presented to the clinic and no treatment was provided. 2 May 2018*: The pet recovered. There is one other dog in the household that also received the product and was asymptomatic. No further medical information is expected.
08-Aug-2018	UAE; 18US051389; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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	01-Aug-2016*	03-Jul-2018	N/A	D-D	Suspected Adverse Event: On 8 Aug 2018, the owner reported the following event for Elvis, 6 year old, 13 pound, neutered male, Domestic Shorthair Feline. 1 Jul 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 3 Jul 2018: The cat experienced alopecia at the application site. The skin at the site is also dry and flaky. The pet was not presented to the clinic and no treatment was provided. 1 Aug 2018: Another vial was applied. Symptoms persisted 9 Aug 2018: The symptoms are still ongoing. The pet has received the product monthly since 1 Aug 2016* and no symptoms presented. No further medical information is expected.
08-Aug-2018	UAE; 18US051401; 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:** Topical / Cutaneous **Was the product used ok?:** Yes	08-May-2018*	08-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 8 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 8 Aug 2018*: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied between the shoulder blades. The pet experienced itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The symptoms are still ongoing. The pet has received the product since 8 May 2018* and the same symptoms presented. It is unknown if the pet recovered after each application. No further medical information is expected.
08-Aug-2018	UAE; 18US051503; CA; U.S.A	**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:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	N/A	08-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 8 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). Unknown date: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. The pet experienced intense itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. There are two other dog in the household that also received the product and are asymptomatic. No further medical information is expected.
09-Aug-2018	UAE; 18US051716;	**Species:** Canine	1	1	0	**Product used:** FIPRONIL	02-Apr-2018	02-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 9 Aug 2018, the owner reported the following event for Blue, a 7 month old, 12 pound, neutered male

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	TX; U.S.A	**Breed:** Terrier Breeds (500 Series) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Month(s) **Weight:** 12 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Low dose)					Terrier. 2 Aug 2018: One half vial of FRONTLINE PLUS DOG 5-22 LBS (P62719AL) was applied to the dog. Within a few hours the dog was 'poo-poo' looking, sluggish, loss of appetite, he was also scratching, rolling on the grass, and biting himself. 3 Aug 2018: The dog recovered. The dog has been treated with FL since April 2018 and has had the same reaction each time. The dog has not been seen by the vet. No further medical information available. Suspected Adverse Event:
09-Aug-2018	UAE; 18US051750; PA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 11.1 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-2006	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 9 Aug 2018, the owner reported the following event for Smitty, 12 year old, 11 pound, neutered male, Domestic Longhair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R40515AW) was applied between the shoulder blades. The pet experienced lethargy and a blank stare. The pet was not presented to the clinic and no treatment was provided. 9 Aug 2018: The symptoms are still ongoing. The pet has received the product since 1 Jan 2006* and no symptoms presented. There is another cat in the household that also received the product and is asymptomatic. No further medical information is expected.
09-Aug-2018	UAE; 18US051815; NC; U.S.A	**Species:** Caprine **Breed:** - **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 4 lbs	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-May-2018*	2 Week(s)	D-A	Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Bernie, a 2 year old, 4 pound, spayed female Domestic Shorthair. 1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) was applied per label. *15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching. *1 June 2018: The cat passed away. The cat had been using FLSP since March 2018. There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US052099, 18US052111, and 18US052129. No further information available.
09-Aug-2018	UAE; 18US051885; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 12.6 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	07-Aug-2003	09-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 9 Aug 2018, the owner reported the following event for Emma, a 15 year old, 12.6 pound, spayed female Domestic Longhair. 7 Aug 2018: One vial of FRONTLINE PLUS CATS (P40108BW) (FL) was topically applied per label to the cat. 9 Aug 2018: The cat developed pink patch of hair loss and sensitivity at the application site. The cat has been on FL all her life without issues. No further medical information available.
09-Aug-2018	UAE; 18US051986; OH; U.S.A	**Species:** Canine **Breed:** Pomeranian **Sex:** U	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Apr-2018*	28-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 9 Aug 2018, the owner reported the following event for two Pomeranians (all other signalments unknown). Apr 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** -					LBS (P60803BL) was given to the dog topically (unknown site of application), by the owner. This was the first dose this year. The owner treats monthly on a seasonal basis. 28 Jul 2018: The dogs received another dose of the product. On an unknown date, the owner started seeing a large amount of fleas on the dogs. The dogs started scratching themselves to the point of having scabs. It is unknown if the dogs have been seen by a veterinarian or given any treatment. The dogs' current status is unknown. The owner is not sure if there are fleas in the home. The dogs go outside in a backyard where stray cats and dogs are present. No further medical information expected.
07-Aug-2018	UAE; 18US051990; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** - **Age:** 3.00 Year(s) **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?:** Yes	07-Aug-2018	07-Aug-2018	0 Day(s)	D-B	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Mama, 3 year old, 2 pound, intact female, Domestic Mediumhair feline. 7 Aug 2018: One vial of FRONTLINE PLUS CATS (M41406AW) was applied between the shoulder blades. The cat experienced a seizure which included foaming at the mouth. The seizure lasted 10 minutes and then the pet recovered. The pet was not presented to the clinic and no treatment was provided. There are 2 other cats in the household that received the product and are symptomatic (see case 18US051261,18US051995). No further medical information is expected.
07-Aug-2018	UAE; 18US051995; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(s) **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?:** Yes	07-Aug-2018	07-Aug-2018	0 Day(s)	D-B	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Gray, 2 year old, 2 pound, intact female, Domestic Mediumhair feline. 7 Aug 2018: One vial of FRONTLINE PLUS CATS (M41406AW) was applied between the shoulder blades. The cat experienced a seizure which included foaming at the mouth. The seizure lasted 10 minutes and then the pet recovered. The pet was not presented to the clinic and no treatment was provided. There are 2 other cats in the household that received the product and are symptomatic (see case 18US051261 ,18US051990). No further medical information is expected.
10-Aug-2018	UAE; 18US052090; IN; U.S.A	**Species:** Canine **Breed:** Beagle **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	03-Aug-2018*	03-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 10 Aug 2018, the owner reported the following event for a Beagle (all other signalments unknown). 3 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (P61007AL) 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 owner was seeing fleas on the dog and the dog started chewing and scratching the fur because of a rash (location unknown). 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.
09-Aug-2018	UAE; 18US052099; NC; U.S.A	**Species:** Feline **Breed:** Domestic Longhair	4	1	1	**Product used:** FIPRONIL SPRAY	01-Mar-2018*	15-May-2018*	2 Week(s)	D-A	Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Schroder, a 5 year old, 8 pound, neutered male Domestic Longthair.

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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
		(Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 8.0 lbs				**Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) (FLSP) was applied per label. *15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching. *1 June 2018: The owner applied FRONTLINE PLUS CATS (FL) (lot unknown) to the cat. *7 June 2018: The cat passed away. The cat had been using FLSP since March 2018 and has had FL in the past with no past issues. There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US051815, 18US052111, and 18US052129. No further information available. Update 22 Aug 2018: Upon further review, missing patient information was added to the patient screen.
09-Aug-2018	UAE; 18US052111; NC; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 6 lbs	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-May-2018*	2 Week(s)	D-A	Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Linus, a 5 year old, 6 pound, neutered male Domestic Longhair. 1 May 2018: The cats had fleas and FRONTLINE SPRAY (FLSP) (R01403A) was applied per label. *15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching. *1 June 2018: The cat was treated per label with FRONTLINE PLUS CATS (FL) (lot unknown). *12 June 2018: The cat continued to have fleas and passed away. The cat had been using FLSP since March 2018 and has FL in the past with no issues. There are a total of 8 treated cats and 3 other cats in the home that passed away. See cases 18US051815, 18US052099, and 18US052129. No further information available.
09-Aug-2018	UAE; 18US052129; NC; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 4 lbs	1	1	1	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Mar-2018*	15-May-2018*	2 Week(s)	D-A	Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Smidge, a 2 year old, 4 pound, spayed female Siamese. 1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) was applied per label. *15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching. *4 Jul 2018: The cat passed away. The cat had been using FLSP since March 2018. There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US051815, 18US052099, 18US052111. No further information available.
10-Aug-2018	UAE; 18US052195; MI; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** - **Age:** 3.00 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	15-Jul-2018	15-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 10 Aug 2018, the owner reported the following event for KOKO, 3 year old, 11 pound, Neutered Male, Chihuahua Mix. 15 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (J60110BL) was applied topically, between the shoulder blades. Jul 2018*: The Canine had symptoms of vomiting, diarrhea, and obsessive scratching on and off after the initial treatment for two weeks. The pet has not been presented to a clinic for treatment. 10 Aug 2018: The pet's symptoms are ongoing. No further medical information is expected.

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10-Aug-2018	UAE; 18US052315; IL; U.S.A	**Species:** Canine **Breed:** Schnauzer **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 25 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Probiotic; Dasuquin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2011*	06-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 10 Aug 2018 the pet owner reported the following event for Sophie, 10 year old, 25 pound, spayed female Schnauzer. *1 Jan 2011: 1 vial of FRONTLINE PLUS unknown weight (lot unknown) was applied between the shoulder blades. 5 Aug 2018: 1 vial of FRONTLINE PLUS 23-44 LBS (lot R60516AL) was applied between the shoulder blades. 6 Aug 2018: Pet began to experience panting. The pet did not present to the clinic and the owner bathed the dog. The dog recovered. Pet is on probiotics and receives Dasuquin every day. No further medical information expected.
10-Aug-2018	UAE; 18US052377; IL; 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?:** Unknown to Company	01-Jul-2018	01-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 10 Aug 2018, the owner reported the following event for 3 Felines (all other signalments unknown). 1 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically 1 Aug 2018: Another vial was applied. Fleas were seen on the pets. The pets experienced increased scratching and chewing. It is unknown if the pet were presented to the clinic or if any treatment was provided. The status of the cats is unknown. No further medical information is expected.
10-Aug-2018	UAE; 18US052384; NY; 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	09-Aug-2018	09-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 10 Aug 2018, the owner reported the following event for a Bichon Frise (signalment unknown). 9 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog. Following the dose the dog developed diarrhea. The owner declined the report, no further medical information available.
13-Aug-2018	UAE; 18US052510; MN; U.S.A	**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:** Topical / Cutaneous **Was the product used**	31-Jul-2018*	31-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for a canine (all signalments unknown). 31 Jul 2018*: An unknown amount of FRONTLINE PLUS DOG 23-44 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 applied. On an unknown date after the application, the owner saw fleas on the dog. The dog started scratching to the point it created a wound. 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.

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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-Aug-2018	UAE; 18US052549; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 8 lbs	6	6	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-2000*	24-Jul-2018*	4 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for six, 8 pound, felines (all other signalments unknown). 2000*: The cats started on 1 vial of FRONTLINE PLUS CATS (R40719AW) given to each cat topically between the shoulder blades, by the owner. The cats were treated monthly on a year round basis. 20 Jul 2018: The cats received another vial of the product. 24 Jul 2018*: The cats had fleas and developed scabs and hair loss at the base of the tail. The cats were not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
13-Aug-2018	UAE; 18US052652; OH; U.S.A	**Species:** Canine **Breed:** Schnauzer **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 22 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-May-2016*	01-May-2017*	0 Day(s)	D-C	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for Scooter, a 12 year old, 22 pound, neutered male, Schnauzer/Yorkshire Terrier mixed breed. 2006*: The dog started on HEARTGARD PLUS (68 MCG/57 MG) (lot unknown, expiration unknown) given to the dog orally by the owner. The dog was treated monthly on a year round basis. 2016*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown, expiration unknown) was given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a seasonally basis from May-Jun. The product was not typically applied at the same time as HEARTGARD PLUS. Every time the product was applied, a few hours after the application, the dog would become twitchy. The symptoms would resolve after a couple of days on their own. 2017*: The owner applied the most recent dose of FRONTLINE PLUS DOG 5-22 LBS and the pet had the same symptoms for the same amount of time. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
13-Aug-2018	UAE; 18US052657; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12.9 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	31-Jul-2017*	10-Aug-2018*	10 Day(s)	D-C	Suspected Adverse Event: On 13 Aug 2018, the clinic staff member reported the following event for Cecily, a 12 year old (born 17 Mar 2006), 12.9 pound, spayed female, Domestic Shorthair. 31 Jul 2018: The pet owner applied one vial of FRONTLINE PLUS CATS (lot unknown), topically, between the shoulder blades. Unknown date: Within ten days of application, the cat developed localized alopecia which the pet owner treated at home with Neosporin. 10 Aug 2018: Upon presentation to the veterinarian, Cecily had alopecia spanning the back of her head and neck, severe inflammatory dermatitis around her neck extending caudally, and less severe crusting caudodorsally. Fleas were not seen during examination. Treatment consisted of parenteral Depo-Medrol and Convenia. Presently, the feline's status is unknown. She's previously received FRONTLINE PLUS CATS on an unknown date in 2017 after which, she developed transient localized alopecia. It's unknown on what date she recovered from the original event. There is at least one other cat in the home. No further medical information expected.
13-Aug-2018	UAE;	**Species:** Canine	1	1	0	**Product used:**	N/A	01-Jun-2018	31 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the veterinarian

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	18US052675; MI; U.S.A	**Breed:** Lhasa Apso **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 19.2 lbs				FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 28.3 MG CHEWABLE TABLETS; ULTRA Duramune Lepto; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					reported the following event for Maddy, an 8 year old (born 26 May 2010), 19.2 pound, spayed female, Lhasa Apso. 1 May 2018*: One dose of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically in an unknown location by the pet owner. 29 May 2018: The patient was vaccinated by the reporter with ULTRA Duramune Lepto, 0.5 mL, SC, in the left hind leg. 1 Jun 2018: One chew of NEXGARD (28.3 mg) (AA215216A, Nov 2018) was administered PO, for the first time. On approximately the same date, one chew of HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown) was administered PO. Immediately following NEXGARD ingestion, Maddy became pruritic which lasted for the entire month. 1 Jul 2018: Despite the ongoing symptom, another chew of NEXGARD was administered. On approximately the same date, another chew of HEARTGARD PLUS was given. Unknown date: The pet owner treated the pruritus with an unknown Burt's Bees product and oatmeal shampoo; however, the treatments did not help. 1 Aug 2018*: The symptom resolved. The patient has received both HEARTGARD PLUS and FRONTLINE PLUS previously since unknown dates without issues. No further medical information expected.
13-Aug-2018	UAE; 18US052693; PA; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **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 / Cutaneous **Was the product used ok?:** Unknown to Company	13-Jun-2018*	13-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for an 8 pound, Maine Coon Feline (all other signalments unknown). 13 Jun 2018*: Fleas were seen on the pet. An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. The pet experienced itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. the status of the cat is unknown. There are 2 other cats in the household that also received the product and experienced symptoms (see case 18US054004). No further medical information is expected.
13-Aug-2018	UAE; 18US052713; CA; U.S.A	**Species:** Canine **Breed:** Bulldog **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	10-Aug-2018*	10-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for 3 Bulldogs (all other signalments unknown). 10 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (S60211AR) was given to each 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 dogs started scratching more. It is unknown if the dogs were seen by a veterinarian or given any treatment. The dogs' current status is unknown. No further medical information expected.
13-Aug-2018	UAE; 18US052818; KY; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	11-Aug-2018*	11-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the owner for Titan, a 70 pound, 5 year old*, intact male Golden Retriever. 11 Aug 2018: Titan was administered 0.75 of a tube of

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		Sex qualifier: - **Age:** 5.00 Year(s) **Weight:** 70 lbs				9% SPOT ON **Other products used:** no other products **Route:** unknown **Was the product used ok?:** No (Treatment / vaccination program not respected)					FRONTLINE PLUS DOG 89-132 (P61809AR). An unknown amount of time later, the owner noticed rigidity in his legs and appeared to have a seizure that lasted approximately 3 to 4 minutes. Titan recoverd an unknown amount of time later. It is unknown if Titan has received the product in the past. It is unknown if the pet has a history of drug or vaccine reaction.
15-Aug-2018	UAE; 18US052847; TN; 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	30-Jul-2018	30-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for a dog signalment unknown. 30 July 2018: The dog had fleas and one vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog. The dog starting itching all the time on an unknown date. No further medical information available.
13-Aug-2018	UAE; 18US052865; AL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 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	11-Aug-2018	11-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On the 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Trixie, an 8 year old (unknown date of birth), spayed female, Chihuahua. 11 Aug 2018: The owner sprayed 2-6 pumps of FRONTLINE SPRAY (unknown lot number) onto her handsand rubbed it in the dogs fur and let the fur dry. The dog had fleas and was scratching alot due to the fleas. An unknown amount of time later the itchiness became worse. The owner has a total of 4 other chihuahua that all have fleas and she also applied the FRONTLINE SPRAY to them on the same day and the same symptom ocurred. All 5 dogs had fleas prior to using the FRONTLINE SPRAY. The symptoms are ongoing no further medical information expected. 13 Aug 2018: On the 13 Aug 2018, the following issue was reported to Safety Call International (SCI) by the pet owner for FRONTLINE SPRAY (unknown lot number). The owner purchased 1 bottle of FRONTLINE SPRAY from her veterinarian, she was having problems trying to spray the product due to the bottle being broken and leaking. There was a lump inside the bottom of the bottle. Product return is not expected. No further information expected. UPDATE 14 Aug 2018: Unable to obtain lot information as product has been discarded. No furhter information expected. UPDATE 23 Aug 2018: The pet owner reported other cases see: 18US055555, 18US055556, 18US055557 18US055558. No further information expected.
13-Aug-2018	UAE; 18US052900;	**Species:** Canine **Breed:** Pit Bull	1	1	0	**Product used:** FIPRONIL	N/A	14-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for a Pitbull canine (all other signalments

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	OH; U.S.A	**Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					unknown). 13 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R61020AL) was applied topically at an unknown location. 14 Jul 2018*: The pet experienced skin irritation and itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
13-Aug-2018	UAE; 18US052906; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 15.00 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	N/A	04-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for a Shih Tzu canine (all other signalments unknown). 3 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. 4 Aug 2018*: The dog experienced diarrhea and unusual behavior. It is unknown if the pet was presented to the clinic or if any treatment was provided. 15 Aug 2018: The symptoms are still ongoing. No further medical information is expected. Update 17 Aug 2018: The owner reported Ginger is a 2 year old, 15 pound, spayed female. 13 Aug 2018: The pet was presented to the clinic. The attending veterinarian prescribed steroid and unknown medication. 17 Aug 2018: Symptoms are still ongoing. No further medical information is expected.
13-Aug-2018	UAE; 18US052915; MA; 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	04-Aug-2018	08-Aug-2018	4 Day(s)	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for a dog (signalment unknown). 4 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog for the first time. 8 Aug 2018: The dog developed diarrhea. The dog was seen by the vet on an unknown day. No further medical information available.
14-Aug-2018	UAE; 18US052926; SD; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 85 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	01-Jan-2012*	02-Jan-2015*	1 Day(s)	D-D	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for Louie, a 7 year old, 85 pound, neutered male, Pit Bull. 2012*: 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 monthly on a seasonal basis from May-Sep. 2015*: The dog had the most recent dose of the product. The day after the administration, the day vomited. The dog recovered 4 days later. The dog was not seen by a veterinarian or given any treatment. The dog experienced the same symptoms occasionally since the first treatment in 2012. The dog also had symptoms using NEXGARD (see case 18US052925). No further medical

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											information expected.
14-Aug-2018	UAE; 18US053219; MO; 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?:** Yes	08-Aug-2018	08-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for Feline (all other signalments unknown). 8 Aug 2018: Fleas were seen on the pet. An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. The pet experienced increased itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. 14 Aug 2018: The status of the pet is unknown. No further medical information is expected.
14-Aug-2018	UAE; 18US053254; PA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **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?:** Yes	12-Aug-2014*	13-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for Gus, 8 year old, 70 pound, neutered male, Golden Retriever canine. 12 Jun 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (P60719AR) was applied between the shoulder blades. 13 Jun 2018*: The dog experienced increased itching. The pet was not presented to the clinic and no treatment was provided. 12 Aug 2018: Another vial was applied. Symptoms persisted. 14 Aug 2018: The symptoms are still ongoing. The pet has received the product since 12 Aug 2014 and no symptoms presented. No further medical information is expected.
14-Aug-2018	UAE; 18US053297; PA; 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	N/A	13-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for a Feline (all other signalments unknown). 13 Aug 2018: One vial of FRONTLINE PLUS CATS (R40401AW) was applied between the shoulder blades. The cat experienced lethargy, decreased drinking, and a rash at the application site. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
14-Aug-2018	UAE; 18US053323; OR; 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	14-Jun-2018	16-Jun-2018	2 Day(s)	D-B	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for a Chihuahua canine (all other signalments unknown). 14 Jun 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R61421AL) was applied topically at an unknown location. 16 Jun 2018: The dog experienced a mild seizure and vomiting. The duration of the seizure is unknown. It is unknown if the pet was presented to the clinic or if any treatment was provided. 14 Aug 2018: The pet has continued to experienced sporadic seizures. The vomiting has resolved. 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
15-Aug-2018	UAE; 18US053335; SC; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 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	01-Jul-2016*	02-Jul-2018*	N/A	D-D	Suspected Adverse Event: On 14 Aug 2018, the owner reported the following event for Maggie, a 14 year old, 10 pound, spayed female Chihuahua/Poodle mix. *1 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied to the dog. On an unknown date the dog started acting as if she was walking into spider webs. The owner gave the dog a bath and the symptoms were ongoing, but decreased. *1 Aug 2018: The dog was given another dose of FL and her symptoms continued. The dog has been on FL on and off over the years without issues . No further medical information available.
15-Aug-2018	UAE; 18US053343; FL; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	01-Jul-2013*	02-Aug-2013*	1 Day(s)	D-C	Suspected Adverse Event: On 15 Aug 2018, a pet owner reported the following event for PJ, an approximately 8 year old, approximately 15 pound, neutered male Maltese. Two unknown dates: The owner applied one full vial of FRONTLINE PLUS DOG 5-22 LBS (lot number unknown), topically, between the shoulder blades. Product application was separated by a month. Both times that the product was applied, the dog started acting nervous and twitching the day after application. The dog did not present to the veterinary clinic for examination or treatment following either episode and he would fully recover 5-7 days later. No further medical information expected.
15-Aug-2018	UAE; 18US053370; PA; U.S.A	**Species:** Canine **Breed:** Cairn Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 27.000 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2004*	07-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018 the pet owner reported the following event for Scruffy, a 15 year old (born 19 May 2003), 27 pound, neutered male Cairn Terrier. 1 Jan 2004*: Started on HEARTGARD PLUS (136 MCG/114 MG) (lot and expiration unknown) and FRONTLINE PLUS DOG 23-44 LBS (lot and expiration unknown) once monthly. 6 Jul 2018: The pet owner administered 1 HEARTGARD PLUS chew PO and applied 1 vial of FRONTLINE PLUS topically intrascapular. 7 Jul 2018: The dog vomited and developed hemorrhagic diarrhea. 21 Jul 2018: The dog presented to the clinic and was treated with Cerenia and metronidazole. A performed fecal test indicated no parasites seen. 28 Jul 2018*: The dog recovered. Scruffy has been on both products since 1 Jan 2004* without issue. The pet owner reported this dog's littermate experienced an identical reaction to the same products (see case number 18US053393). No further information is available at this time.
15-Aug-2018	UAE; 18US053383; MO; U.S.A	**Species:** Canine **Breed:** Rat Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 Year(s) **Weight:** 20.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Vetmedin pimobendan chewable 1.25 mg NP;	24-Jul-2018*	24-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 15 Aug 2018, a sales representative reported the following event for Iris, a 14 year old, 20.5 pound, female spayed Rat Terrier. 24 Jul 2018*: Owner applied FRONTLINE PLUS DOG 0-22 LBS (P61501AL) to Iris. An unknown amount of time later that day pet became pruritic. Owner called clinic and clinic advised owner to wash pet with Dawn dish soap. 1 Aug 2018: Patient presented to clinic where generalized deep pyoderma was noted over the entire dorsum, with blood and crusts. Per the doctor, the most severe area of pyoderma was over

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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 Brand Furosemide; Galliprant; Prednisolone; Proviable; Benazapril; Tramadol; **Route:** PO-Oral **Was the product used ok?:** Yes					the shoulders where FRONTLINE PLUS would have been applied. Patient was treated with cefpodoxime. 13 Aug 2018: Patient presented to the clinic for a re-check exam where her skin was much improved but not fully recovered. Patient also takes VETMEDIN (Unsubstantiated) (Lot and expiration unknown), prednisolone, Proviable, benazapril, unknown brand furosemide, Galliprant, and tramadol. It is unknown if patient has ever received FRONTLINE PLUS before. No further information at this time.
15-Aug-2018	UAE; 18US053393; PA; U.S.A	**Species:** Canine **Breed:** Cairn Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 28 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2004	07-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018 the pet owner reported the following event for Widget, a 15 year old (born 19 May 2003), 28 pound, spayed female Cairn Terrier. 1 Jan 2004*: Started on HEARTGARD PLUS (136 MCG/114 MG) (lot and expiration unknown) and FRONTLINE PLUS DOG 23-44 LBS (lot and expiration unknown) once monthly. 6 Jul 2018: The pet owner administered 1 HEARTGARD PLUS chew PO and applied 1 vial of FRONTLINE PLUS topically intrascapular. 7 Jul 2018: The dog vomited and developed hemorrhagic diarrhea. 21 Jul 2018: The dog presented to the clinic and was treated with Cerenia, metronidazole, and subcutaneous fluids. 28 Jul 2018*: The dog recovered. Widget has been on both products since 1 Jan 2004* without issue. The pet owner reported this dog's littermate experienced an identical reaction to the same products (see case number 18US053370). No further information is available at this time.
15-Aug-2018	UAE; 18US053449; MI; U.S.A	**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?:** -	01-Jun-2018*	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for 2 dogs (signalment unknown). *1 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to each dog. On an unknown date the dogs developed redness, rashes, and increase itching. No further medical information available.
15-Aug-2018	UAE; 18US053454; NY; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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**	13-Jul-2018*	20-Jul-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Dusty, a 6 year old, 10 pound, neutered male, Domestic Longhair (Crossbreed). 13 Jul 2018*: The first vial of FRONTLINE PLUS CATS (R41105AW) was given to the cat topically between the shoulder blades, by the owner. 20 Jul 2018*: The cat started scratching under its neck and causing sores. The owner did notice fleas in the home and flea dirt on the cat. 3 Aug 2018*: The cat recovered. The cat was not seen by a veterinarian or given any treatment. 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?: Yes					
15-Aug-2018	UAE; 18US053503; ME; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 20.00 Year(s) **Weight:** 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	01-Jul-2000*	08-Aug-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Pretty Kitty, a 20 year old, 5 pound, spayed female, unknown feline. 2000*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically between the shoulder blades, by the owner. The cat was treated seasonally from Apr-Aug, every 3 months. 1 Aug 2018: The cat received another dose of the product. 8 Aug 2018*: The cat started scratching worse than before the application. The owner is seeing fleas. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There were other pets treated with the product that had symptoms (see cases 18US053514 and 18US053518). No further medical information expected.
15-Aug-2018	UAE; 18US053514; ME; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **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-Jul-2000*	03-Aug-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for 3 Golden Retrievers (all other signalments unknown). 2000*: The dogs started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) given to each dog topically between the shoulder blades, by the owner. The dogs were treated seasonally from Apr-Aug, every 3 months. 1 Aug 2018: The dogs received another dose of the product. 3 Aug 2018*: The dogs started scratching worse than before the application. The owner is seeing fleas. The dogs were not seen by a veterinarian or given any treatment. The symptoms are ongoing. There were other pets treated with the product that had symptoms (see cases 18US053503 and 18US053518). No further medical information expected.
15-Aug-2018	UAE; 18US053518; ME; U.S.A	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	01-Jul-2009*	03-Aug-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Tungsten, a 9 year old, 60 pound, neutered male, Spaniel (English Springer). 2009*: The dog started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) given to the dog topically between the shoulder blades, by the owner. The dog was treated seasonally from Apr-Aug, every 3 months. 1 Aug 2018: The dog received another dose of the product. 3 Aug 2018*: The dog started scratching worse than before the application. The owner is seeing fleas. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There were other pets treated with the product that had symptoms (see cases 18US053503 and 18US053514). No further medical information expected OR No further information available at this time.
15-Aug-2018	UAE; 18US053531; TX; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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-Aug-2018	02-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Cheetoh, 6 year old, 8 pound, neutered male, Domestic Shorthair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R40202BW) was applied between the shoulder blades. 2 Aug 2018: The pet experienced itching, lethargy, and vomiting. 15 Aug 2018: The pet was presented to the clinic. The attending veterinarian prescribed an unknown antibiotic and adminstered a steroid injectable. 16 Aug 2018: Symptoms have improved but are still ongoing. There are 2 other cats in the household that also received the

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						product used ok?: Yes					product and experienced symptom (see case 18US053956, 18US053960). No further medical information is expected.
15-Aug-2018	UAE; 18US053551; PA; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 75 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)	15-Jul-2018	15-Aug-2018	5 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Max, 75 pound, male, Boxer canine (all other signalments unknown). 15 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60510AX) was applied between the shoulder blades. 10 Aug 2018: Another vial was applied. 15 Aug 2018: The dog experienced a bright red rash all over the body. The pet's ear were also swollen and inflamed. The pet was not presented to the clinic and no treatment was provided. 16 Aug 2018: Symptoms are still ongoing. There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.
15-Aug-2018	UAE; 18US053645; NY; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 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?:** No (Treatment / vaccination program not respected)	01-Jan-2014*	15-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018 the pet owner reported the following event for Willie, 12 year old, 12 pound, neutered male Toy Poodle. 15 Aug 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (lot R624512AL) was applied in 1 spot in between the shoulder blades, in 1 spot in the middle of the pet's back and 1 spot on the pet's tale. Pet experienced lethargy. Pet did not present to the clinic and symptoms are ongoing. Dog has an enlarged liver. No further medical information expected.
15-Aug-2018	UAE; 18US053661; TX; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 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	02-Aug-2018	02-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Romeo, 1 year old, 9 pound, neutered male, Domestic Shorthair Feline. 2 Aug 2018: One vial of FRONTLINE PLUS CATS (R41201AW) was applied between the shoulder blades. The pet experienced hypersalivation. The pet was not presented to the clinic and no treatment was provided. The pet recovered after 10 minutes. There is one other cat in the household that also received the product and is asymptomatic.No further medical information is expected.
15-Aug-2018	UAE; 18US053679; CA; U.S.A	**Species:** Canine **Breed:** Cockapoo **Sex:** F **Sex qualifier:** - **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 /	11-Jul-2018	12-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Dabv, 3 year old, 10 pound, intact female, Cockapoo Canine. 11 Jul 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62529AL) was applied between the shoulder blades. 12 Jul 2018: The pet experienced hyperactivity and itching. The pet recovered after 30 second. 11 Aug 2018: Another vial was applied. 12 Aug 2018: The same symptoms presented. The pet recovered

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						Cutaneous **Was the product used ok?:** Yes					after 30 seconds. The pet was not presented to the clinic and no treatment was provided. No further medical information is expected.
15-Aug-2018	UAE; 18US053690; CO; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 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	05-Mar-2018	15-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018 the pet owner reported the following event for Molly, 1 year old, 10 pound, neutered female Maine Coon Cat. 15 Aug 2018: 1 vial of FRONTLINE PLUS CATS (lot P40203AL) was applied between the shoulder blades. Cat is experiencing unusual behavior. Cat is pacing and hiding under the bed. Cat did not present to the vet and symptoms are ongoing. No further medical information expected.
22-Aug-2018	UAE; 18US053719; ME; U.S.A	**Species:** Canine **Breed:** Spaniel (English Springer) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 34 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	N/A	02-Jan-2015*	1 Day(s)	D-A	Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for Bella, 10 year old, 34 pound, spayed female, English Springer Spaniel canine. 2015*: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. On an unknown date the pet was presented to the clinic. The attending veterinarian diagnosed the pet with Renal failure and Lyme disease. It is unknown what treatments were provided. 22 Aug 2018: The dog passed away. The pet received Bravecto monthly since 2016*. No further medical information is expected.
16-Aug-2018	UAE; 18US053808; PA; U.S.A	**Species:** Canine **Breed:** West Highland White **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 22 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?:** No (Off label use / Indication)	01-Jan-2009*	13-Aug-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 16 Aug 2018 the pet owner reported the following event for Andie, 11 year old, *22 pound, neutered male West Highland White Terrier *1 Jan 2009: 1 vial FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied in between the shoulder blades and in 1 spot at the base of the tail. 4 Jul 2018: 1 vial FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied in between the shoulder blades and in 1 spot at the base of the tail. *6 Jul 2018: Pet experienced a black, crusty spot at the application site. Unknown date: The dog recovered. 11 Aug 2018: 1 vial FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied in between the shoulder blades and in 1 spot at the base of the tail. *13 Aug 2018: Pet experienced a black, crusty spot at the application site. Pet owner used peroxide for treatment. *14 Aug 2018: The dog recovered. Pet did not present to the clinic. Pet has a history of reacting to another unknown flea and tick control product and experienced vomiting and nausea after use. Pet has been using Benadryl since July 2018. No further information medical information expected.
16-Aug-2018	UAE; 18US053831;	**Species:** Feline **Breed:** Feline	1	1	0	**Product used:** FIPRONIL	N/A	16-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Aug 2018, the owner reported the following event for a Feline (all other signalments 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
	FL; U.S.A	(unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown				10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					16 Aug 2018*: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. The pet accidentally ingested the product and experienced foaming at the mouth. The pet recovered after a few minutes. It is unknown if the pet was presented to the clinic or if any treatment was provided. No further medical information is expected.
16-Aug-2018	UAE; 18US053924; MO; U.S.A	**Species:** Canine **Breed:** Basset Hound **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	01-Mar-2018*	15-Jul-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Maggie, female, Basset Hound/ Terrier (Jack Russel) mixed breed (all other signalments unknown). Mar 2018*: The dog started on an unknown amount of FRONTLINE PLUS DOG 23-44 LBS (P60505AL) given to the dog topically (unknown site of application), by the owner. This was the first treatment this year but it is unknown if the dog received the product before. The frequency of application is unknown. 15 Aug 2018: The dog received another dose of the product. On an unknown date after the application, the dog scratched itself raw around the tail. Owner did see fleas on the dog. 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. UPDATE 21 Aug 2018: The owner reported the following for Maggie, a 12 year old, 23 pound, spayed female. Mar 2018*: The dog started on 1 vial of the product given topically between the shoulder blades, by the owner. The dog was treated monthly. 15 Jul 2018: The dog was given another dose of the product. The symptoms started. 15 Aug 2018: Another dose of the product was given. The symptoms continued. The dog was seen by a veterinarian and given an unknown treatment. The symptoms are ongoing. No further medical information expected.
16-Aug-2018	UAE; 18US053932; CA; U.S.A	**Species:** Canine **Breed:** Papillon **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 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	01-Aug-2008*	08-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 16 Aug 2018, the owner reported the following event for Sadie, an approximately 10 year old, 10 pound, spayed female, Papillon/Chihuahua mixed breed. 2008*: The dog started on FRONTLINE PLUS DOG 5-22 LBS (S60810AX) was given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a year round basis. 7 Aug 2018*: The dog received another dose of the product. 8 Aug 2018*: The dog started scratching at the application site. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. The dog had the same symptoms after using Vectra. No further medical information expected.
16-Aug-2018	UAE; 18US053956; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	01-Aug-2018	02-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Melvin, 6 year old, 7 pound, neutered male, feline (breed unknown). 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R40202BW) was applied between the shoulder blades.

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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
		Neutered **Age:** 6.00 Year(s) **Weight:** 7 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					2 Aug 2018: The pet experienced itching. The pet was not presented to the clinic and no treatment was provided. 16 Aug 2018: Symptoms have improved but are still ongoing. There are 2 other cats in the household that also received the product and experienced symptom (see case 18US053531, 18US053960). No further medical information is expected.
16-Aug-2018	UAE; 18US053960; TX; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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-Aug-2018	02-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 15 Aug 2018, the owner reported the following event for Tiger, 6 year old, 8 pound, neutered male, feline (breed unknown). 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R40202BW) was applied between the shoulder blades. 2 Aug 2018: The pet experienced itching. 16 Aug 2018: Symptoms have improved but are still ongoing. There are 2 other cats in the household that also received the product and experienced symptom (see case 18US053956, 18US053531). No further medical information is expected.
13-Aug-2018	UAE; 18US054004; -; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 15 lbs	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	13-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 13 Aug 2018, the owner reported the following event for two 15 pound, Maine Coon Felines (all other signalments unknown). 13 Jun 2018*: Fleas were seen on the pets. An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically. The pets experienced itching. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the cats is unknown. There are 1 other cats in the household that also received the product and experienced symptoms (see case 18US52693). No further medical information is expected.
17-Aug-2018	UAE; 18US054076; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	01-Aug-2018	02-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for John, 8 year old, 22 pound, neutered male, Domestic Shorthair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 2 Aug 2018*: The pet experienced intense itching until the skin became raw. 9 Aug 2018: The pet was presented to the clinic and given steroid and unknown antibiotic. 10 Aug 2018: The pet recovered. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US055111, 18US055175,18US055297). No further medical information is expected.
17-Aug-2018	UAE; 18US054086; PA; 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-Jan-2018*	01-Jan-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for a 54 pound canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (M64702AL) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the 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
		Age: - **Weight:** 54 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					dose applied. The dog had fleas and sores from scratching prior to the application. The dog got more sores after the application. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
17-Aug-2018	UAE; 18US054112; GA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	N/A	09-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for a 30 pound, canine (all other signalments unknown). 9 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was given to the dog topically (unknown site of application), by the owner. The dog has been treated year round for an unknown amount of time. On an unknown date after the application, the owner was seeing fleas on the dog. The dog was scratching and whimpering. The dog has sores and bruises from scratching. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
17-Aug-2018	UAE; 18US054131; NY; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 54 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** PO-Oral **Was the product used ok?:** Yes	17-Jun-2018	17-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for a 1 year old, 54 pound, intact male Boxer. 17 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61201AR) (FL) was applied per label to the dog. The dog licked the application site and started to drool the drooling lasted 5 minute and the dog recovered. The dog has been on FL for the past three months and he also takes HEARTGARD PLUS (272 MCG/227 MG) (L037014, Sept 2018) monthly for the past year with no issues. No further medical information available.
17-Aug-2018	UAE; 18US054134; WA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** - **Age:** 7.00 Year(s) **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?:** Yes	01-Jan-2015*	13-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Snicker, 7 year old, 8 pound, intact female, Yorkshire Terrier canine. 13 Aug 2018: A large number of fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R6031AL) (invalid lot) was applied between the shoulder blades. The pet experienced increased itching. The pet was not presented to the clinic and no treatment was provided. 17 Aug 2018: Symptoms are still ongoing. The pet has received the product for the past few years and no symptoms presented. There is one other dog in the household that also received the product and experienced symptoms (see case 18US054141) No further medical information is expected.
17-Aug-2018	UAE; 18US054141;	**Species:** Canine **Breed:**	1	1	0	**Product used:** FIPRONIL	01-Jan-2015	13-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Link, 7 year old, 7 pound, neutered male,

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	WA; U.S.A	Pomeranian **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 7 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Pomeranian canine. 13 Aug 2018: A large number of fleas were found on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R6031AL) (lot invalid) was applied between the shoulder blades. The pet experienced increased itching. The pet was not presented to the clinic and no treatment was provided. 17 Aug 2018: Symptoms are still ongoing. The pet received the product for the past few years and no symptoms presented. There is one other dog in the household that also received the product and experienced symptoms (see case 18US054134). No further medical information is expected.
17-Aug-2018	UAE; 18US054156; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **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	15-Jul-2017*	21-Jul-2018	6 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Sassy, a 6 year old, 10 pound, spayed female Shih Tzu/Poodle mix. 15 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog per label. 21 July 2018: The dog was diagnosed with vestibular disease/vertigo at the vet and prescribed unknown antibiotics. The dog was hospitalized for 10 days. The dog has had FL as needed along with other flea medications in the past and had the same disease last year. No further medical information available.
17-Aug-2018	UAE; 18US054169; 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:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	01-Jan-2016*	01-Jan-2016*	0 Day(s)	D-B	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for a canine (all other signalments unknown). 2016*: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied between the shoulder blades. One chew of HEARTGARD PLUS (product unsubstantiated) (lot unknown, expiration unknown) was administered. The same day the pet experienced a seizure. It is unknown if the pet was presented to the clinic or if any treatment was provided. The pet recovered. The pet has a preexisting history of seizures. No further medical information is expected.
16-Aug-2018	UAE; 18US054195; NJ; 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**	N/A	13-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 16 Aug 2018, the owner reported the following event for a canine (all signalments unknown). 13 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was given to the dog topically (unknown site of application), by the owner. The dog had been on the product for an unknown amount of time. On an unknown date after the application, the dog had some residue on the fur. 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.

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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					
17-Aug-2018	UAE; 18US054337; MA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 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-Jul-2014*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Tessie, a 10 pound, Female Spayed, approximately 5 year old, Domestic Short Hair. Jul 2018*: One vial of FRONTLINE PLUS CATS (R40801RW) was applied between the shoulder blades. The Feline had symptoms of vomiting on and off for about a month.The feline has vomitied in the past after use of the product Pet has not been presented to a clinic. No further information. No further medical information is expected.
17-Aug-2018	UAE; 18US054378; TN; U.S.A	**Species:** Feline **Breed:** Turkish Angora **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	01-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Fred, unknown age, unknown weight, neutered male Turkish Angora. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. No further medical information.
17-Aug-2018	UAE; 18US054381; TN; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	01-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Jerry, 4 year old, unknown weight, neutered male mixed breed feline. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced vomiting, pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. No further medical information.
17-Aug-2018	UAE; 18US054382; TN; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	01-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Angel, unknown age, unknown weight, neutered male mixed breed feline. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced vomiting, pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. 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
17-Aug-2018	UAE; 18US054384; TN; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** F **Sex qualifier:** Neutered **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?:** Yes	01-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Jasmine, 4 year old, unknown weight, spayed female mixed breed feline. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. No further medical information.
17-Aug-2018	UAE; 18US054385; TN; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **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?:** Yes	01-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Princess, 5 year old, unknown weight, spayed female Calico. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. No further medical information.
17-Aug-2018	UAE; 18US054386; TN; U.S.A	**Species:** Feline **Breed:** Siamese **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-Jan-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018 the pet owner reported the following event for Camila, 2 year old, unknown weight, spayed female Siamese. *1 Jan 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 13 Aug 2018: 1 vial FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Aug 2018: Pet experienced pruritus and was exhibiting unusual behavior. The pet did not present to the clinic. Symptoms are ongoing. No further medical information.
20-Aug-2018	UAE; 18US054464; NY; U.S.A	**Species:** Feline **Breed:** Siamese **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 3.5 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 (Treatment / vaccination program not	01-Apr-2018*	18-Aug-2018	1 Day(s)	D-A	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Milly, an approximately 5 year old, 3.5 pound, spayed female, Siamese. Apr 2018*: The cat started on 1 vial of FRONTLINE PLUS CATS (P40101AW) given to the cat topically between the shoulder blades, by the owner. The cat was not treated regularly. 17 Aug 2018: The cat was given another dose of the product. 18 Aug 2018: The cat vomited, had trouble walking and the back legs were cold. The cat was euthanized. The cat was seen by a veterinarian but was not given any treatment. The veterinarian diagnosed the cat having a blood clot. 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
						respected)					
20-Aug-2018	UAE; 18US054574; NY; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 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-Aug-2018*	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Mia, 13 year old, 10 pound, spayed female, Domestic Longhair feline. Aug 2018*: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced hair loss through out the body. The pet was not presented to the clinic and no treatment was provided. 7 Aug 2018*: The pet recovered. The pet also experienced symptoms after FRONTLINE GOLD FOR CATS (see case 18US054720). No further medical information is expected.
20-Aug-2018	UAE; 18US054742; KY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** - **Age:** 6.00 Week(s) **Weight:** 1 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)	09-Aug-2018*	09-Aug-2018*	0 Day(s)	D-A	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for a 6 week old, approximately 1 pound, intact male, feline (unknown). 9 Aug 2018*: 1 vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically between the shoulder blades, by the owner. This was the first dose applied. After the application, the cat started having trouble walking. 10 Aug 2018*: The cat had a seizure and then died. The cat was not seen by a veterinarian or given any treatment. UPDATE 20 Aug 2018: On review of case, the patient was under the label age and weight for product given. No further medical information expected.
20-Aug-2018	UAE; 18US054744; AR; 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	20-Aug-2018*	20-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 20 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically at an unknown location. The pet experienced bumps around the ears. 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.
20-Aug-2018	UAE; 18US054746; MI; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** - **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:** Topical / Cutaneous **Was the product used ok?:** Yes	16-Aug-2018*	18-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Ava, a 4 year old, 30 pound, non-pregnant non-lactating intact female, Siberian Husky. 16 Aug 2018*: The first vial of FRONTLINE PLUS DOG 23-44 LBS (R60516AL) was given to the dog topically between the shoulder blades, by the owner. The dog had fleas prior to the application. 18 Aug 2018: The dog started scratching. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was another dog treated with the product that had symptoms (see case 18US055137). No further medical information expected.

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07-Aug-2018	UAE; 18US054763; OR; U.S.A	**Species:** Canine **Breed:** Manchester Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 18.5 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?:** Yes	10-Jun-2018	06-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Max, 2 year old, 18.5 pound, neutered male, Manchester Terrier canine. 5 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 6 Aug 2018: The pet experienced vomiting and bloody diarrhea. The pet was presented to the clinic. A blood chemistry was run which came back within normal limits. The veterinarian administered Cerenia and prescribed a pro biotic 7 Aug 2018: Symptoms have improved but are still ongoing. The pet also received the produt 10 Jun 2018 and experienced symptoms (see case 18US0512254). No further medical information is expected.
20-Aug-2018	UAE; 18US054782; -; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s) **Weight:** 7 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION; **Route:** - **Was the product used ok?:** Yes	01-Jul-2014*	14-Aug-2018*	18 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the following event was reported to Safety Call International (SCI) by the owner for Baby, a 5 year old, 7 pound, intact female Shih Tzu mix. 1 Jul 2014*: Patient began receiving monthly doses of FRONTLINE PLUS DOG 0-22 LBS (Lot unknown). 27 Jul 2018: Owner applied one dose of FRONTLINE PLUS to treat for fleas and did not think it was working well. Her veterinarian recommended applying FRONTLINE GOLD DOG 5-22 LBS (Lot unknown). 12 Aug 2018*: Owner applied FRONTLINE GOLD to pet. 14 Aug 2018*: Owner noticed patient was experiencing dermal irritation on the abdomen and sides. It is unknown if patient presented to the clinic for any treatment. All further details are unknown. No further medical information expected.
20-Aug-2018	UAE; 18US054799; MI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Chocolate) **Sex:** F **Sex qualifier:** - **Age:** 4.00 Month(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	13-Jul-2018*	14-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Molly, 4 month old, 25 pound, intact female, Labrador Retriever canine. 13 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 23-44 LBS (P60204AL) was applied between the shoulder blades. 14 Aug 2018: The dog experienced digging, and irritability. The pet was not presented to the clinic and no treatment was provided. 20 Aug 2018: Symptoms are still ongoing. The pet also received the product on 13 Jul 2018* and no symptoms presented. No further medical information is expected.
20-Aug-2018	UAE; 18US054808; WI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** Unknown	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	15-Aug-2018	15-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Goofus, a 4 year old, spayed female Domestic Shorthair (other signalment unknown). 15 Aug 2018: The cat was itching without the presence of fleas and one vial of FRONTLINE PLUS CATS (R40711AW) was applied to the cat per label for the first time. Within a few hours the cat's itching increased. The owner is monitoring the cat's condition. There is one other treated cat who did not have a reaction. No further medical information available.

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						Was the product used ok?: Yes					
20-Aug-2018	UAE; 18US054814; 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?:** Yes	19-Aug-2017*	19-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for a cat (signalment unknown). 19 Aug 2018: The cat was licking and biting and one vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. After the application the cat's itching and licking increased. No further medical information available.
21-Aug-2018	UAE; 18US055018; MI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 16.38 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	12-Aug-2017*	13-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 21 Aug 2018 a veterinarian reported the following event for Ducky, a 16.38 pound, 6 year old (9 Oct 2011), neutered male Domestic Shorthair. 12 Aug 2018: Cat received 1 dose FRONTLINE PLUS CATS (lot unknown) (unsubstantiated). 13 Aug 2018: Cat started experiencing anorexia, lethargy, and hiding. 20 Aug 2018: Presented to the clinic where physical exam was normal, blood chemistry and CBC performed were WNL, and cat had already started to eat again when hand fed. 21 Aug 2018: Owner reports cat is fully recovered. Reporter does not have the product and can not verify it is FRONTLINE PLUS, but owner says it was a FRONTLINE product she bought from the pet store. Owner reports she has been using the product intermittently for a year and the cat has the same reaction every time. No further medical information expected.
17-Aug-2018	UAE; 18US055111; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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-Aug-2018	02-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Frosty, 6 year old, 8 pound, spayed female, Domestic Shorthair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 2 Aug 2018*: The pet experienced intense itching until the skin became raw. 10 Aug 2018: The pet recovered. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US054076, 18US055175, 18US055297). No further medical information is expected.
20-Aug-2018	UAE; 18US055137; MI; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** - **Age:** 3.00 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	16-Aug-2018*	18-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Bella, a 3 year old, 40 pound, non-pregnant non-lactating intact female, Siberian Husky. 16 Aug 2018*: The first vial of FRONTLINE PLUS DOG 23-44 LBS (R60516AL) was given to the dog topically between the shoulder blades, by the owner. The dog had fleas prior to the application. 18 Aug 2018: The dog started scratching. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was another dog treated with the product that had symptoms (see case 18US054746). No

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						Was the product used ok?: Yes					further medical information expected.
17-Aug-2018	UAE; 18US055175; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 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	01-Aug-2018	02-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Coco, 10 year old, 9 pound, spayed female, Domestic Shorthair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 2 Aug 2018*: The pet experienced intense itching until the skin became raw. 10 Aug 2018: The pet recovered. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US054076, 18US055111, and 18US055297). No further medical information is expected.
21-Aug-2018	UAE; 18US055192; SC; U.S.A	**Species:** Canine **Breed:** Dalmatian **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 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?:** Yes	07-Aug-2018	14-Aug-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 21 August 2018, the owner reported the following event for Jace, a 2 year old, 48 pound, neutered male Dalmatian. 7 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61601AR) was applied per label to the dog for the first time. On an unknown date the dog started to pick up fleas. *14 Aug 2018: The dog started to itch and scratch and developed hair loss on his chest. The dog has not been seen by the vet for his ongoing symptoms. No further medical information available.
21-Aug-2018	UAE; 18US055195; PA; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** multi vitamins; unknown probiotic; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	26-Jul-2010*	26-Jul-2010*	N/A	D-D	Suspected Adverse Event: On 21 Aug 2018, the owner reported the following event for Hines, a 12 year old, 80 pound, neutered male German Shepherd Dog. *26 July 2010: One vial of FRONTLINE PLUS DOG (product unsubstantiated) was applied to the dog per label. On an unknown date the dog started to vomit and recovered on an unknown date. The owner started to give the dog half doses over the course of many years with no symptoms seen. The dog takes multivitamins and probiotics for immune support, but he has no medical conditions. There is one other dog in the home who also had the same reaction. See case 18US055204. No further medical information available.
21-Aug-2018	UAE; 18US055196; NE; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 10.00 Year(s) **Weight:** 10 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous	16-Aug-2017*	18-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 21 Aug 2018, the owner reported the following event for Jack, 10 year old, 10 pound, Shih Tzu canine. 16 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830) was applied between the shoulder blades. 18 Aug 2018: The pet experienced intense scratching and whining. The pet was not presented to the clinic and not treatment was provided. The symptoms are still ongoing. There is one other dog in the household that also received the

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						Was the product used ok?: Yes					product and was asymptomatic. No further medical information is expected.
21-Aug-2018	UAE; 18US055197; MS; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** - **Age:** 12.00 Year(s) **Weight:** 43 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	14-Aug-2015*	17-Aug-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 21 Aug 2018, the owner reported the following event for Ruben, a 12 year old, 43 pound, intact Cocker Spaniel. 14 Aug 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (R62540AL) was topically applied to the dog per label due to the dog having fleas and scratching. *17 Aug 2018: The dog started to itch more with the presence of fleas. The dog has not been seen by the vet. The dog has had FL on and off for years with no issues. No further medical information available.
21-Aug-2018	UAE; 18US055204; PA; U.S.A	**Species:** Canine **Breed:** Bichon Frise **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 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	26-Jul-2010*	26-Jul-2010*	N/A	D-D	Suspected Adverse Event: On 21 Aug 2018, the owner reported the following event for Sam, a 11 year old, 25 pound, neutered male Bichon Frise. *26 July 2010: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied to the dog per label. On an unknown date the dog started to vomit and recovered on an unknown date. The dog received half doses over the course of many years with no issues. There is one other dog in the home who also had the same reaction. See case 18US055195. No further medical information available.
22-Aug-2018	UAE; 18US055254; MI; U.S.A	**Species:** Canine **Breed:** Hound Breeds (200 Series) **Sex:** F **Sex qualifier:** - **Age:** 2.00 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?:** No (Overdose)	01-Aug-2018	15-Aug-2018	2 Week(s)	D-D	Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for Dolly, 2 year old, 30 pound, intact female, Hound breed canine. 1 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was applied between the shoulder blades. 15 Aug 2018: The fleas issue was still ongoing. The dog experienced rashes and sore all over the body. The pet was not presented to the clinic. The owner treated with Neosporin. 22 Aug 2018: Symptoms are still ongoing. No further medical information is expected.
22-Aug-2018	UAE; 18US055274; MA; U.S.A	**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:** Topical / Cutaneous **Was the product used ok?:** Yes	22-Aug-2018	22-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 22 Aug 2018: An unknown amount of FRONTLINE SPRAY (lot unknown) was applied at an unknown location. Later that same day, the pet experienced anorexia. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.

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22-Aug-2018	UAE; 18US055279; WI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 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?:** Unknown to Company	17-Aug-2017*	17-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for Moushi, 4 year old, 8 pound, spayed female, Domestic Shorthair feline. 17 Aug 2018: One vial of FRONTLINE PLUS CATS (P41003AW) was applied topically at an unknown location. The cat became hyperactive and then collapsed. The pet also began licking excessively and the third eyelid began drooping. It is unknown if the pet was presented to the clinic or if any treatment was provided. 19 Aug 2018*: The pet recovered. The cat also experienced symptoms after using FRONTLINE GOLD (see case 18US055629). No further medical information is expected.
17-Aug-2018	UAE; 18US055297; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 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-Aug-2018	02-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 17 Aug 2018, the owner reported the following event for Lola, 5 year old, 12 pound, spayed female, Domestic Shorthair feline. 1 Aug 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 2 Aug 2018*: The pet experienced intense itching until the skin became raw. 10 Aug 2018: The pet recovered. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US054076, 18US055175, 18US055111). No further medical information is expected.
22-Aug-2018	UAE; 18US055314; CT; U.S.A	**Species:** Canine **Breed:** Greyhound **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 84 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	20-Aug-2016*	21-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for Link, 6 year old, 84 pound, neutered male, Greyhound canine. 1 Aug 2018: One chew of HEARTGARD PLUS (272 MCG/227 MG) (lot unknown, exp unknown) was adminstered orally. 20 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 21 Aug 2018: The dog experienced upset stomach and diarrhea. Unknown date: The pet was presented to the clinic. Bloodwork, Radiographs, and Ultrasound were run but came back within normal limits. No treatment was provided. 22 Aug 2018: Symptoms are still ongoing. The pet has received the FRONTLINE monthly since 20 Aug 2016* and the same symptoms presented after every application. The pet would recover on unknown dates. The pet has reacted to Sentinel in the past. No further medical information is expected.
22-Aug-2018	UAE; 18US055404; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 15.00 Month(s)	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	21-Aug-2018*	22-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: On the 22 Aug 2018, a veterinary technician reported the following event for Patricia, a female feline of unknown further signalment. 22 Aug 2018: The pet owner applied FRONTLINE (unsubstantiated) (lot and expiry unknown) to the cat on an unknown location. About 2 hours later the cat passed away. It is unknown if this is the first time the patient received this product. No further information available. UPDATE 22 Aug 2018: According to the clinic staff, the cat was 15

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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: Unknown				Cutaneous **Was the product used ok?:** Yes					months old and spayed. The FRONTLINE PLUS CATS (PP41102AX) was applied 1 vial between the shoulder blades down to the skin on 21 Aug 2018. The cat passed away on 22 Aug 2018. No further medical information expected.
13-Aug-2018	UAE; 18US055555; AL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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?:** Yes	11-Aug-2018	11-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On the 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Pepper, a 6 month old (unknown date of birth), neutered male, Chihuahua. 11 Aug 2018: The owner sprayed 2-6 pumps of FRONTLINE SPRAY (unknown lot number) onto her handsand rubbed it in the dogs fur and let the fur dry. The dog had fleas and was scratching alot due to the fleas. An unknown amount of time later the itchiness became worse. The owner has a total of 4 other chihuahua that all have fleas and she also applied the FRONTLINE SPRAY to them on the same day and the same symptom ocurred. All 5 dogs had fleas prior to using the FRONTLINE SPRAY. The symptoms are ongoing no further medical information expected. 13 Aug 2018: On the 13 Aug 2018, the following issue was reported to Safety Call International (SCI) by the pet owner for FRONTLINE SPRAY (unknown lot number). The owner purchased 1 bottle of FRONTLINE SPRAY from her veterinarian, she was having problems trying to spray the product due to the bottle being broken and leaking. There was a lump inside the bottom of the bottle. Product return is not expected. The pet owner reported other cases see 18US052865, 18US055556, 18US055557, 18US055558. No further information expected. UPDATE 14 Aug 2018: Unable to obtain lot information as product has been discarded. No further information expected.
13-Aug-2018	UAE; 18US055556; AL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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?:** Yes	11-Aug-2018	11-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On the 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Po, a 6 month old (unknown date of birth), neutered male, Chihuahua. 11 Aug 2018: The owner sprayed 2-6 pumps of FRONTLINE SPRAY (unknown lot number) onto her handsand rubbed it in the dogs fur and let the fur dry. The dog had fleas and was scratching alot due to the fleas. An unknown amount of time later the itchiness became worse. The owner has a total of 4 other chihuahua that all have fleas and she also applied the FRONTLINE SPRAY to them on the same day and the same symptom ocurred. All 5 dogs had fleas prior to using the FRONTLINE SPRAY. The symptoms are ongoing. No further medical information expected. 13 Aug 2018: On the 13 Aug 2018, the following issue was reported to Safety Call International (SCI) by the pet owner for FRONTLINE SPRAY (unknown lot number). The owner purchased 1 bottle of FRONTLINE SPRAY from her veterinarian, she was having problems trying to spray the product due to the bottle being broken and leaking. There was a lump inside the bottom of the bottle. Product return is not expected. The pet owner reported other cases see 18US052865, 18US055555, 18US055557, 18US055558. No further information expected. UPDATE 14 Aug 2018: Unable to obtain lot information as product has been discarded. No further 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
13-Aug-2018	UAE; 18US055557; AL; U.S.A	**Species:** Canine **Breed:** Cairn Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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?:** Yes	11-Aug-2018	11-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On the 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Moo Moo, a 6 month old (unknown date of birth), spayed female, Cairn Terrier. 11 Aug 2018: The owner sprayed 2-6 pumps of FRONTLINE SPRAY (unknown lot number) onto her hands and rubbed it in the dogs fur and let the fur dry. The dog had fleas and was scratching alot due to the fleas. An unknown amount of time later the itchiness became worse. The owner has a total of 4 other chihuahua that all have fleas and she also applied the FRONTLINE SPRAY to them on the same day and the same symptom ocurred. All 5 dogs had fleas prior to using the FRONTLINE SPRAY. The symptoms are ongoing. No further medical information expected. 13 Aug 2018: On the 13 Aug 2018, the following issue was reported to Safety Call International (SCI) by the pet owner for FRONTLINE SPRAY (unknown lot number). The owner purchased 1 bottle of FRONTLINE SPRAY from her veterinarian, she was having problems trying to spray the product due to the bottle being broken and leaking. There was a lump inside the bottom of the bottle. Product return is not expected. The pet owner reported other cases see 18US052865, 18US055555, 18US055556, 18US055558. No further information expected. UPDATE 14 Aug 2018: Unable to obtain lot information as product has been discarded. No further information expected.
13-Aug-2018	UAE; 18US055558; AL; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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?:** Yes	11-Aug-2018	11-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On the 13 Aug 2018, the following event was reported to Safety Call International (SCI) by the pet owner for Pumpkin, a 6 month old (unknown date of birth), spayed female, Chihuahua. 11 Aug 2018: The owner sprayed 2-6 pumps of FRONTLINE SPRAY (unknown lot number) onto her handsand rubbed it in the dogs fur and let the fur dry. The dog had fleas and was scratching alot due to the fleas. An unknown amount of time later the itchiness became worse. The owner has a total of 4 other chihuahua that all have fleas and she also applied the FRONTLINE SPRAY to them on the same day and the same symptom ocurred. All 5 dogs had fleas prior to using the FRONTLINE SPRAY. The symptoms are ongoing no further medical information expected. 13 Aug 2018: On the 13 Aug 2018, the following issue was reported to Safety Call International (SCI) by the pet owner for FRONTLINE SPRAY (unknown lot number). The owner purchased 1 bottle of FRONTLINE SPRAY from her veterinarian, she was having problems trying to spray the product due to the bottle being broken and leaking. There was a lump inside the bottom of the bottle. Product return is not expected. The pet owner reported other cases see 18US052865, 18US055555, 18US055556, 18US055557. No further information expected. UPDATE 14 Aug 2018: Unable to obtain lot information as product has been discarded. No further information expected.
23-Aug-2018	UAE; 18US055642; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed)	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE	01-Mar-2008*	09-Aug-2018*	N/A	D-A	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for Reuben, a 15 year old, approximately 25 pound, neutered male, Domestic Shorthair (Crossbreed). 2008*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically between the shoulder blades,

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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:** Neutered **Age:** 15.00 Year(s) **Weight:** 25 lbs				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					by the owner. The cat was treated monthly on a seasonal basis from Mar-Nov. Jul 2018*: The cat received another dose of the product. 9 Aug 2018*: The cat was lethargic, not eating, hiding, was weak to the point of not being able to stand, and crying. The owner was also seeing fleas. 15 Aug 2018: The cat received the most recent dose of the product. The symptoms continued. 23 Aug 2018: The cat died. The symptoms were ongoing prior to the cats death. The cat was not seen by a veterinarian or given any treatment. There was 2 other cats treated with the product that had symptoms (see case 18US056029 and 18US056030). No further medical information expected.
23-Aug-2018	UAE; 18US055695; LA; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 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?:** Unknown to Company	01-Jan-2018*	23-Aug-2018	1 Day(s)	D-C	Suspected Adverse Event: On 23 Aug 2018, the office manager reported the following event for Izzy, a 12 pound, 9 year old*, spayed female Shih Tzu. Jan 2018*: Izzy started on FRONTLINE PLUS DOG 0-22 LBS (Lot Unknown). 22 Aug 2018: The most recent dose was applied. 23 Aug 2018: Izzy experienced labored breathing. The owner was instructed by the clinic to wash pet. Izzy has received the FRONTLINE product for an unknown amount of time, but has never had a reaction. The owner has not bought her in for examination and/or treatment. It is unknown if the pet has a history or drug or vaccine reaction. No further information at this time.
23-Aug-2018	UAE; 18US055702; OH; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 30 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	N/A	09-Aug-2018	8 Day(s)	D-D	Suspected Adverse Event: On 23 Aug 2018, the family member reported the following event for Tilla, 4 year old, 30 pound, spayed female, Beagle canine. 1 Aug 2018: The pet was experiencing an ongoing issue with fleas. One vial of FRONTLINE PLUS DOG 23-44 LBS (R60516BL) was applied between the shoulder blades. 9 Aug 2018: The pet experienced alopecia around the tail. The pet was not presented to the clinic and no treatment was provided. 23 Aug 2018: Fleas are still present and the symptoms are still ongoing. There are 2 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
23-Aug-2018	UAE; 18US055876; OH; U.S.A	**Species:** Canine **Breed:** Chihuahua **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 to Company	20-Aug-2018*	20-Aug-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for a male Chihuahua (all other signalments unknown). 20 Aug 2018: An unknown amount of FRONTLINE PLUS (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 seemed dazed and confused. 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.

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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
23-Aug-2018	UAE; 18US055915; KS; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 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	23-Aug-2018	23-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for Wally, a 7 year old, 13 pound, neutered male Domestic Shorthair. 23 Aug 2018; One vial of FRONTLINE PLUS CATS (R40601BW) was applied to the cat per label for the first time. Immediately following the treatment the cat started to drool. The owner wiped the cat's tongue to offer relief for is ongoing symptoms. No further medical information available.
23-Aug-2018	UAE; 18US055920; FL; 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	23-Aug-2018	23-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for a cat (signalment unknown). 23 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat. The cat licked the application site and started hyper salivating. The owner gave the cat water and the cat recovered. The owner declined the report. No further medical information available.
23-Aug-2018	UAE; 18US055923; VT; U.S.A	**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	12-Jul-2017*	12-Jul-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for 2 felines (all signalments unknown). 2017*: The cats started on an unknown amount of FRONTLINE PLUS CATS (R40202) given to each cat topically (unknown site of application), by the owner. The frequency of application is unknown. 12 May 2018: The cats received another dose of the product. The cats licked the product and started losing weight. The cats also vomited a few days after the application. The weight loss was continuous. 12 Jun 2018: The cats received another dose of the product. The cats had the same symptoms. 12 Jul 2018: The cats received the last dose of the product. The cats had the same symptoms. It is unknown if the cats were seen by a veterinarian or given any treatment. No further medical information expected.
04-Jul-2018	UAE; 18US055931; -; U.S.A	**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	15-May-2015*	15-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 4 Jul 2018, a pet owner reported the following event for a male feline of further unknown signalment. 15 May 2018: The cat received FRONTLINE (lot number unknown) (product unsubstantiated). Immediately after, the cat had an unknown reaction that resulted in suffering. The cat presented to a veterinary clinic where he received unknown treatment. Jun 2018: The cat received FRONTLINE again where the same reaction occurred. It was noted that the cat has been receiving FRONTLINE for several years. No further information at this time. UPDATE 24 Aug 2018: The pet owner was contacted to obtain additional information regarding the events. To date, 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
						to Company					information remains unknown. No further medical information expected.
24-Aug-2018	UAE; 18US056023; ME; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 67 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-Aug-2018	18-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Boston, a 1 year old, 67 pound, Neutered Male, Yellow Labrador Retriever. 17 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61301) was applied between the shoulder blades and in 4 small spots along the back. 18 Aug 2018: The Canine had localized skin irritation at all four spots of where the product was applied. The Pet has not been presented to a clinic. 24 Aug 2018: The pet's symptoms are ongoing. No further medical information is expected.
23-Aug-2018	UAE; 18US056029; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 25 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-Mar-2015*	09-Jul-2018*	N/A	D-C	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for Asa, a 3 year old, approximately 25 pound, neutered male, Domestic Shorthair (Crossbreed). 2015*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically between the shoulder blades, by the owner. The cat was treated monthly on a seasonal basis from Mar-Nov. Jun 2018*: The cat received another dose of the product. 9 Jul 2018*: The cat was lethargic, not eating, hiding, was weak to the point of not being able to stand, and crying. The owner was also seeing fleas. Jul 2018*: The cat received another dose of the product. 11 Aug 2018: The cat received the most recent dose of the product. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was 2 other cats treated with the product that had symptoms (see case 18US055642 and 18US056030). No further medical information expected.
23-Aug-2018	UAE; 18US056030; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 25 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-Mar-2008*	09-Aug-2018*	N/A	D-C	Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for Teddy, a 10 year old, approximately 25 pound, neutered male, Domestic Shorthair (Crossbreed). 2008*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically between the shoulder blades, by the owner. The cat was treated monthly on a seasonal basis from Mar-Nov. Jul 2018*: The cat received another dose of the product. 9 Aug 2018*: The cat was lethargic, not eating, hiding, was weak to the point of not being able to stand, and crying. The owner was also seeing fleas. 11 Aug 2018: The cat received the most recent dose of the product. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. There was 2 other cats treated with the product that had symptoms (see case 18US055642 and 18US056029). No further medical information expected.
24-Aug-2018	UAE; 18US056031; CA; U.S.A	**Species:** Canine **Breed:** Maltese **Sex:** F **Sex qualifier:** - **Age:** 1.50 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	20-Aug-2018	20-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Alice, a 1.5 year old, Female intact, non-lactating and non-pregnant, 19 pound, Maltese. 20 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P61501AL) was applied between the shoulder blades. Shortly

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		Weight: 19 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					after application the Canine had symptoms of vomiting. The pet was not presented to a clinic. 24 Aug 2018: The pet's symptoms are ongoing. No further medical information is expected.
24-Aug-2018	UAE; 18US056036; IA; U.S.A	**Species:** Canine **Breed:** Maltese **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-Aug-2013*	01-Aug-2013*	0 Day(s)	D-C	Suspected Adverse Event: On 24 Aug 2018 the pet owner reported the following event for a Maltese of unknown signalment. 1 Aug 2013*: The pet owner applied 1 vial of FRONTLINE PLUS DOG 5-22 LBS (product unsubstantiated) topically to an unknown application site for the first time. Approximately 20 minutes post application the dog developed tachypnea and began hiding. The dog presented to the clinic and was treated with an unknown injectable product. 2 Aug 2013*: The dog recovered. No further medical information is expected.
24-Aug-2018	UAE; 18US056074; MA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 16.00 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	10-Aug-2006*	03-Aug-2018	17 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Zoey, 16 year old, 22 pound, spayed female, Domestic Shorthair Feline 17 Jul 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS CAT (lot unknown) was applied between the shoulder blades. 3 Aug 2018: The pet experienced itching. The pet was not presented to the clinic and no treatment was provided. 24 Aug 2018: Symptoms are still ongoing. The pet has received the product since 10 Aug 2006* and no symptoms presented. No further medical information is expected.
24-Aug-2018	UAE; 18US056188; CA; U.S.A	**Species:** Canine **Breed:** Akita **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 85 lbs	-	-	0	**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	13-Aug-2018	10 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Juno, 8 year old, 85 pound, spayed female, Akita canine. 3 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60403AX) was applied between the shoulder blades. 13 Aug 2018: The pet experienced lethargy, hacking and anorexia. The pet was not presented to the clinic and no treatment was provided. 27 Aug 2018: The symptoms are still ongoing. There is one other dog in the household that also received the product and experienced symptoms (see case 18US056644). No further medical information is expected.
24-Aug-2018	UAE; 18US056211; NY; U.S.A	**Species:** Canine **Breed:** Staffordshire Terrier **Sex:** F **Sex qualifier:** - **Age:** 5.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	23-Aug-2018	23-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Desirae, 5 year old, 58 pound, intact female, Staffordshire Terrier canine. 23 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P62501AR) was applied between the shoulder blades. The pet became very stiff. 24 Aug 2018: The pet experienced difficulty walking and lethargy.

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		Weight: 58 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Symptoms are still ongoing. No further medical information is expected.
24-Aug-2018	UAE; 18US056219; NE; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 14.00 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	N/A	02-Jan-2016*	1 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018 the pet owner reported the following event for Misty, 14 year old, 10 pound, spayed female Domestic Shorthair Feline. *1 Jan 2016: 1 vial of FRONTLINE PLUS CAT (lot UNKNOWN) was applied between the shoulder blades. *2 Jan 2016: Pet experienced hair loss at the application site. *9 Jan 2016 : Pet recovered. Cat did not present to the clinic. Pet experienced the same symptoms after the use of Revolution. It is unknown whether pet has FRONTLINE prior to application date and pre-existing conditions are also unknown. Another cat in the home experienced the same symptoms after use of the product case number 18-56220.
24-Aug-2018	UAE; 18US056220; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	N/A	02-Jan-2016*	1 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018 the pet owner reported the following event for Snowy, unknown age, unknown weight, neutered male Domestic Shorthair Feline. *1 Jan 2016: 1 vial of FRONTLINE PLUS CAT (lot UNKNOWN) was applied between the shoulder blades. *2 Jan 2016: Pet experienced hair loss at the application site. *9 Jan 2016: Pet recovered. Cat did not present to the clinic. Pet experienced the same symptoms after the use of Revolution. It is unknown whether pet has FRONTLINE prior to application date and pre-existing conditions are also unknown. Another cat in the home experienced the same symptoms after use of the product case number 18US056219. No further medical information expected.
24-Aug-2018	UAE; 18US056228; NJ; 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	10-Jul-2018	13-Aug-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Daisy, a canine (all other signalments unknown). 10 Jul 2018: An unknown amount of FRONTLINE PLUS DOG (lot unknown) was applied topically at an unknown location. 10 Aug 2018: Another vial was applied. Unknown date: The dog experienced intense itching, which also caused alopecia in various locations. It is unknown if the pet was seen by the veterinarian or given any treatment. The status of the pet is unknown. No further medical information is expected.
27-Aug-2018	UAE; 18US056289; OH; U.S.A	**Species:** Canine **Breed:** English Bulldog **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	21-Aug-2018*	23-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for an English Bulldog (all other signalments unknown). 21 Aug 2018: 1 vial of FRONTLINE PLUS DOG 45-88 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 applied. 23 Aug 2018: The dog had diarrhea and the dog's cheek, paws

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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
						Route: Topical / Cutaneous **Was the product used ok?:** Unknown to Company					and ears were red and irritated. 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.
27-Aug-2018	UAE; 18US056355; VA; 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:** unknown **Was the product used ok?:** Unknown to Company	01-Jan-2013*	01-Jan-2013*	0 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, a veterinarian reported the following event for a feline of unknown signalment. 2013*: The cat received FRONTLINE (lot number unknown) (product unsubstantiated). After an unknown period of time following application, the cat developed hair loss. Further details regarding the event were unknown. No further medical information expected.
27-Aug-2018	UAE; 18US056533; IL; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 60 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; Phycox; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2012*	26-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018 the pet owner reported the following event for Yadi, 7 year old, 60 pound, neutered male Border Collie. *1 Jan 2012: 1 vial of FRONTLINE PLUS DOG (Unsubstantiated) (lot unknown) was applied between the shoulder blades.Pet received HEARTGARD PLUS (unsubstantiated) (lot and expiration unknown) *26 Aug 2016: Dog started taking Phycox daily for joint support. 26 Aug 2018: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied in between the should blades around noon. The dog also received 1 chew of HEARTGARD PLUS (272 MCG/227 MG) (7BC021 (invalid), 1 MAR 2020). Pet started experiencing hair loss at the application site that evening. Pet did not present to the clinic and symptoms are ongoing. Further medical information expected.
27-Aug-2018	UAE; 18US056552; 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	27-Aug-2018*	27-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for a Feline (all other signalments unknown). 27 Aug 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was applied topically at an unknown location. The pet experienced foaming at the mouth and hypersalivation. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
27-Aug-2018	UAE; 18US056553;	**Species:** Canine **Breed:** Basset	1	1	0	**Product used:** FIPRONIL	N/A	27-Aug-2018*	26 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, a pet owner reported the following event for Roscoe, an 11 year old (born in Oct 2006),

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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	Hound **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 55 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** DELMOPINOL 49 MG ORAL CHEWABLE TABLET; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					55 pound, neutered male Basset Hound. Unknown date: The dog started to receive one full vial of FRONTLINE (lot number unknown) (product unsubstantiated) applied topically, between the shoulder blades, by the pet owner, on a monthly basis. 16 Aug 2018*: The dog started to receive one full chew of ORAVET DENTAL HYGIENE CHEWS L (05222020, 20 May 2020), orally, by the pet owner, on an intermittent daily basis. The day after the initial chew was administered as well as one to two other unknown dates, the dog vomited once within approximately 5 minutes of product administration. He did not present to the veterinary clinic for examination or treatment following any episode as he fully recovered following each episode of vomiting. No further medical information expected.
27-Aug-2018	UAE; 18US056644; CA; U.S.A	**Species:** Canine **Breed:** Akita **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	03-Aug-2018	13-Aug-2018	10 Day(s)	D-D	Suspected Adverse Event: On 24 Aug 2018, the owner reported the following event for Taji , 8 year old, 80 pound, neutered male, Akita canine. 3 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60403AX) was applied between the shoulder blades. 13 Aug 2018: The pet experienced lethargy, and hacking. The pet was not presented to the clinic and no treatment was provided. 27 Aug 2018: The symptoms are still ongoing. There is one other dog in the household that also received the product and experienced symptoms (see case 18US056188). No further medical information is expected.
27-Aug-2018	UAE; 18US056651; PA; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 68 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	24-Jul-2018	24-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for a Pit Bull canine (all other signalments unknown). 24 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) was applied topically at an unknown location. 25 Aug 2018*: The dog experienced hair loss, skin sores, and a skin infection at an unknown location. It is unknown if the pet was seen by the veterinarian or given any treatment. The status of the pet is unknown. The pet also received the product 24 Jul 2018* and no symptoms presented. No further medical information is expected. UPDATE 6 Sept 2018: As reported by the owner Goat is a 11 year old, 68 pound, neutered male. 24 Aug 2018: The dog experienced hair loss, skin sores and infection through out the body. Fleas were also present on the pet. Unknown date: The dog was presented to the clinic. The attending veterinarian treated with Chlorpheniramine, and an unknown anitbiotic. 6 Sept 2018: Treatment is still ongoing. Symptoms are still ongoing. No further medical information is expected.
27-Aug-2018	UAE; 18US056680; MI; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	12-Aug-2018	13-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for a canine (all other signalments unknown). 12 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R40601AW) was applied topically at an unknown location.

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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:** 10.000 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					13 Aug 2018*: The dog experienced increased itching. It is unknown if the pet was seen by the veterinarian or if any treatment was given. The status of the pet is unknown. No further medical information is expected.
27-Aug-2018	UAE; 18US056691; -; 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?:** Yes	27-Aug-2018*	27-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for a feline (all other signalments unknown). 27 Aug 2018: One vial of FRONTLINE PLUS FOR CATS (lot unknown) was applied between the shoulder blades. The cat was able to ingest the product. The cat experienced vomiting. It is unknown if the pet was presented to the clinic or if any treatment was provided. The status of the pet is unknown. No further medical information is expected.
27-Aug-2018	UAE; 18US056694; CT; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 18 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-Jul-2010	13-Jul-2018*	N/A	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for Mitchell, 8 year old, 18 pound, neutered male, Maine Coon Feline. 13 Jul 2018: One vial of FRONTLINE PLUS CATS (R40515) was applied between the shoulder blades. Unknown date: The cat experienced itching. The pet was not presented to the clinic and no treatment was provided. 13 Aug 2018: Another vial was applied. Symptoms persisted. 27 Aug 2018: Symptoms are still ongoing. The cat has received the product monthly since 13 Jul 2010 and no symptoms presented. No further medical information is expected.
28-Aug-2018	UAE; 18US056812; MI; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 15 lbs	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	13-Aug-2018	15-Aug-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for Charlie, a 15 pound, neutered male, Dachshund (all other signalments unknown). 13 Aug 2018: The dog started on an unknown amount of FRONTLINE PLUS DOG 5-22 LBS (P60208AL) given to the dog topically (unknown site of application), by the owner. Prior to the application, the dog was biting and scratching. On an unknown date after the application, the dog had little bumps all over the body. 20 Aug 2018*: The dog recovered. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog has a history of food allergies. No further medical information expected. UPDATE 6 Sep 2018: The owner reported the following event for a 12 year old canine. 13 Aug 2018: The dog received 1 vial of the product topically between the shoulder blades. 15 Aug 2018*: The symptoms started. The dog was not seen by a veterinarian. The owner bathed the dog. The 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
28-Aug-2018	UAE; 18US056823; OH; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(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?:** Yes	18-Aug-2018	18-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for Lady, 12 year old, 19 pound, spayed female, Mixed Breed canine. 18 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. After 1 hours the pet experienced intense itching all over the body. The scratching also cause scabs to form througout the body. The pet was not presented to the clinic and no treatment was provided. 28 Aug 2018: The symptoms are still ongoing. There is one other dog in the household that did not receive the product and is asymptomatic. The dog also received FRONTLINE GOLD and experienced symptoms (see case 18US056835). No further medical information is expected.
29-Aug-2018	UAE; 18US056885; ME; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 20.000 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	01-Aug-2017*	21-Aug-2018	20 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 1 Aug 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically at an unknown location. 21 Aug 2018: The dog experienced itching. It is unknown if the dog was seen by a veterinarian or given any treatment. The status of the pet is unknown. The dog has received the product monthly since 1 Aug 2017* and no symptoms presented. No further medical information is expected.
28-Aug-2018	UAE; 18US056928; NM; U.S.A	**Species:** Feline **Breed:** Calico **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 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	28-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a 11 year old, spayed female, Calico Feline (all other signalments unknown). 28 Aug 2018: An unknown amount of FRONTLINE PLUS CATS (P41510BW) was applied topically at an unknown location. The cat experienced hyperactivity, itching around ears, and agitation. 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 on prior unknown dates and no symptoms presented. No further medical information is expected.
28-Aug-2018	UAE; 18US057016; VA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 38 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	14-Aug-2017*	15-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 14 Aug 2018: The pet had an ongoing issue with fleas. An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically at an unknown location. Unknown date: The dog experienced itching. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. The pet received the product montly for the past year 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
28-Aug-2018	UAE; 18US057027; WI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **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?:** Yes	01-Aug-2018*	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event:On 28 Aug 2018, the owner reported the following event for a Unknown Male Canine, Labrador Retriever (All other signalments unknown). 1 Aug 2018 *: One vial of FRONTLINE PLUS FOR DOG Size (Unsubstantiated) (Lot Number Unknown) was applied between the shoulder blades topically. The canine had symptoms of lethargy, anorexia and skin irritation. The pet was presented to a clinic where the pet owner was asked to feed a bland diet for a few days. 28 Aug 2018: The pet has recovered. No further medical information is expected.
28-Aug-2018	UAE; 18US057035; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	28-Aug-2018*	28-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a 10 pound Canine (all other signalments unknown). Unknown date: Fleas were seen on the pet. An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically at an unknown location. The dog experienced itching. The status of the pet is unknown. There is one other dog in the household that also received the product and experienced symptoms (see case 18US057733). No further medical information is expected.
28-Aug-2018	UAE; 18US057046; WV; 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	27-Jul-2018	28-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a Canine (all other signalments unknown). 27 Jul 2018: The dog had an ongoing issue with fleas. An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied topically. 27 Aug 2018: Another vial was applied Unknown date: The dog experienced itching. It is unknown if the dog was seen by the veterinarian or given any treatment. The dog's status is unknown. No further medical information is expected.
29-Aug-2018	UAE; 18US057191; MN; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 10 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 (Low dose)	01-Jan-2012*	12-May-2018	0 Day(s)	D-C	Suspected Adverse Event: On 29 Aug 2018 the pet owner reported the following event for Molly, 9 years, 10 pound, spayed female Shih Tzu. *1 Jan 2012: half of vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 12 May 2018: half of vial of FRONTLINE PLUS DOG 5-22 LBS (lot P62719BL) was applied between the shoulder blades. That evening the pet experienced shaking of the hind quarters, lethargy and dark/ black diarrhea. *13 May 2018: Pet presented to the clinic and pet was prescribed unknown antibiotics for treatment. *12 Jun 2018: The pet recovered. Another dog in the home received a half of dose of FRONTLINE and did not experience symptoms.

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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
											No further medical information expected.
29-Aug-2018	UAE; 18US057351; PA; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 53 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-Aug-2012	27-Aug-2018	12 Day(s)	D-C	Suspected Adverse Event: On 29 Aug 2018, the owner reported the following event for Dallas, 6 year old, 53 pound, neutered male, Australian Shepherd canine. 15 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (R60601DR) was applied between the shoulder blades. 27 Aug 2018: The dog experienced intense itching and hotspot around the left front paw. The dog was not presented to the clinic and no treatment was provided. 29 Aug 2018: The symptoms are still ongoing. The pet has received the product since 15 Aug 2012 and no symptoms presented. No further medical information is expected.
30-Aug-2018	UAE; 18US057402; NM; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 2.00 Year(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?:** No (Route not indicated / recommended)	29-Jul-2018*	29-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Odessa, a 2 year old, 5 pound, intact female Domestic Shorthair. 29 Aug 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was topically applied to the cat between the shoulder blades and to the base of the tail. Two hours later the cat started to act abnormal like she was on acid. Five hours later the cat passed. The cat has had FL once before on an unknown date with no issue. The cat has not been examined by the vet, there was one other cat in the home who also passed away, see case 18US057411. No further information available. UPDATE 13 SEPT 2018: Per owner, Odessa is not dead, the owner was under the impression the cat was buried by her roommate, but the cat came back home on an unknown date. The cat is recovered and fine. No further medical information available.
30-Aug-2018	UAE; 18US057411; NM; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** - **Age:** 6.00 Month(s) **Weight:** 5 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 (Route not indicated / recommended)	29-Aug-2018	29-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Chappy, a 6 month old, 5 pound, intact male Domestic Longthair. 29 Aug 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was topically applied to the cat between the shoulder blades and to the base of the tail for the first time. Two hours later the cat started to act abnormal like he was on acid. Five hours later the cat passed. The cat has not been examined by the vet, there was one other cat in the home who also passed away, see case 18US057402. No further information available.
30-Aug-2018	UAE; 18US057415; MO; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 18.00 Month(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**	29-Aug-2018	29-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 30 Aug 2018, the veterinarian reported the following event for Moe, an 18 month old, 10 pound, neutered male, Domestic Shorthair (Crossbreed). 29 Aug 2018: The first vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically between the shoulder blades, by the owner. Pet owner purchased Frontline off of Amazon. The same night, the cat started having tremors, became ataxic, and was not eating. The cat was seen by a veterinarian but was not given any treatment. The 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
						product used ok?: Yes					
30-Aug-2018	UAE; 18US057421; PA; U.S.A	**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	28-Aug-2018*	29-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for 2 felines (all other signalments unknown). 28 Aug 2018: Fleas were seen on both pets. An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically. 29 Aug 2018*: The cats experienced increased itching. It is unknown if the pets were seen by the veterinarian or if any treatment was given. The status of the cats is unknown. No further medical information is expected.
30-Aug-2018	UAE; 18US057438; CA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **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:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Aug-2018	27-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Jax, a 3 year old, approximately 24 pound, neutered male, Canine (unknown). 25 Aug 2018: The dog started on 1 vial of FRONTLINE PLUS DOG 23-44 LBS (R61915AL) given to the dog topically between the shoulder blades, by the owner. The dog had fleas prior to the first application. 27 Aug 2018: The dog started chewing the fur off its tail and had bumps on the right leg that looked like flea bites. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
30-Aug-2018	UAE; 18US057471; PA; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	19-Dec-2012*	16-Aug-2018*	N/A	D-D	Suspected Adverse Event: On 30 Aug 2018 the pet owner reported the following event for Daisy, 6 year old, *35 pound, spayed female Shetland Sheep Dog. *19 Dec 2012: 1 vial of FRONTLINE PLUS unknown (unknown lot) was applied between the shoulder blades. 22 Jul 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot R60314AL) was applied between the shoulder blades. *16 Aug 2018: A lump on the side of the dog's spine appeared. 19 Aug 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot R60314AL) was applied between the shoulder blades. Pet did not present to the clinic. Symptoms are ongoing. Pet owner is not sure whether the lump appear after the 19 Jul 2018 or after 19 Aug 2018. No further medical information expected.
30-Aug-2018	UAE; 18US057483; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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 / Cutaneous **Was the product used**	01-Oct-2017*	03-Oct-2017*	2 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Boomer, a 6 year old, approximately 55 pound, neutered male, canine (unknown). Oct 2017*: The first vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was given to the dog topically between the shoulders, by the owner. Approximately 2 days later, the dog was scratching at its ears and paws. The dog recovered about 3-4 days later. The dog was not seen by a veterinarian or given any treatment. The dog had symptoms also using FRONTLINE GOLD (see case 18US057481). 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?: Yes					
30-Aug-2018	UAE; 18US057556; VA; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** F **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 50 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	29-Aug-2005*	30-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Penny, a 13 year old, 50 pound, spayed female mixed breed dog. 29 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (FL) (S60620AR) was applied to the dog per label. 30 Aug 2018: The dog was lethargic. The dog has not been seen by the vet and the owner is monitoring her condition. The dog has had FL all her life with no issues. The dog also takes HEARTGARD PLUS (136 MCG/114 MG) (8BC0045, Nov 2020) monthly with no issues. The dog had a reaction to an unknown flea medication in the past. No further medical information available.
30-Aug-2018	UAE; 18US057574; MN; U.S.A	**Species:** Caprine **Breed:** - **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 61 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; Phenobarbital; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	20-Jul-2011*	20-Aug-2018*	31 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for an approximately 61 pound canine (all other signalments unknown). 20 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R60601AR) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first application. On an unknown date after the application, the dog was lethargic and had a burn on its skin (unknown location). 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. UPDATE 6 Sep 2018: The owner reported the following for Brandyan approximately 9 year old, spayed female, canine (unknown). 2011*: The dog started on 1 vial of the FRONTLINE PLUS DOG 45-88 LBS given topically between the shoulder blades. The dog also started on 1 dose of HEARTGARD PLUS (272 MCG/227 MG) (7BC0470, 30 Jul 2019) given orally. The dog was treated with both products, monthly on a year round basis. 2013*: The dog started on Phenobarbital and was treated twice every day. 20 Jul 2018: The dog received another dose of the FRONTLINE PLUS DOG 45-88 LBS, HEARTGARD PLUS (272 MCG/227 MG), and Phenobarbital. 20 Aug 2018: The dog received another dose of Phenobarbital. The owner went to apply another dose of FRONTLINE but noticed there was a scab at the application site already. The owner removed the scab and the dog recovered. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
27-Aug-2018	UAE; 18US057583; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products**	12-Aug-2018	13-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 27 Aug 2018, the owner reported the following event for a 5 pound Feline (all other signalments unknown). 12 Aug 2018: An unknown amount of FRONTLINE PLUS CATS (R60830AL) was applied topically at an unknown location. 13 Aug 2018*: The cat experienced increased itching. It 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
		Age: - **Weight:** 5 lbs				**used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					unknown if the pet was seen by the veterinarian or given any treatment. The status of the pet is unknown. No further medical information is expected.
31-Aug-2018	UAE; 18US057721; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	01-Jan-2017*	30-Jul-2018*	13 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for a 7 pound, canine (all other signalments unknown). 17 Jul 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was given to the dog topically (unknown site of application, by the owner). The dog was previously treated on a year round basis for an unknown amount of time. The frequency of application is unknown. 30 Jul 2018*: The dog was itching and scratching. The owner did find fleas on the dog. 17 Aug 2018: Another dose of the product was given. The symptoms continued. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog's current status is unknown. The owner is not seeing fleas in the home. The owner lives in the woods. There is another dog treated with the product that had the same symptoms (see case 18US057939). No further medical information expected.
30-Aug-2018	UAE; 18US057733; FL; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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	28-Aug-2018	28-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 28 Aug 2018, the owner reported the following event for a 85 pound Canine (all other signalments unknown). Unknown date: Fleas were seen on the pet. An unknown amount of FRONTLINE PLUS DOG 89-132 LBS (lot unknown) was applied topically at an unknown location. The dog experienced itching. The status of the pet is unknown. There is one other dog in the household that also received the product and experienced symptoms (see case 18US057035). No further medical information is expected.
30-Aug-2018	UAE; 18US057747; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 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?:** Yes	01-Jan-2017*	27-Jul-2018	1 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for an 11 year old, 8 pound, spayed female, Domestic Shorthair (Crossbreed). 26 Jul 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application, by the owner. It is unknown if this was the first dose applied. 27 Jul 2018: The cat had hair loss (unspecified location). It is unknown if the cat was seen by a veterinarian or given any treatment. The cat's current status is unknown. No further medical information expected. UPDATE 6 Sep 2018: The owner reported the following for Tenni . Jan 2017*: The cat started on 1 vial of the product given topically between the shoulder blades. The cat was treated monthly on a year round basis. 26 Jul 2018: The cat received another dose of the product. 27 Jul 2018: The owner noticed hair loss at the application site and

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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 skin was red. 10 Aug 2018*: The cat recovered. The cat was not seen by a veterinarian or given any treatment. No further medical information expected.
30-Aug-2018	UAE; 18US057759; NY; U.S.A	**Species:** Feline **Breed:** - **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?:** Yes	29-Apr-2018	29-Apr-2018	N/A	D-D	Suspected Adverse Event:On 30 Aug 2018, the owner reported the following event for Unknown Feline (All other signalments unknown) 29 Apr 2018: One vial of FRONTLINE PLUS CATS (Lot number unknown) was applied between the shoulder blades. The Feline began having symptoms of lethargy and hyperactivity when the product was applied. The owner had used the product consistently since April and was using Advantage previously for the cat before starting Frontline in April.The pet began having symptoms after the first treatment and would start to run away when the owner attempted to apply the product. The pet has not been presented to the clinic. 27 Aug 2018: Owner applied the most recent treatment and the pet showed no symptoms with this application. 30 Aug 2018: The pet has sinced recovered. No further medical information is expected
31-Aug-2018	UAE; 18US057781; GA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 15 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Preventor; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	15-Jul-2018*	22-Aug-2018	1 Week(s)	D-D	Suspected Adverse Event: On 31 Aug 2018 the pet owner reported the following event for Flynn, *3 year old, 15 pound, neutered male mixed breed canine. *1 Jul 2017: Pet began using Preventor to treat heartworm. 15 Aug 2018: 1 vial of FRONTLINE PLUS (unsubstantiated) (P61506VLR,31 Jul 2019) (foreign label and could not confirm the country) was applied between the shoulder blades. 22 Aug 2018: Dog experienced increased itching and no fleas were seen on the pet. Pet did not present to the clinic and symptoms are ongoing. It was confirmed by pet that foreign label FRONTLINE was used to treat the dog. No further medical information expected.
31-Aug-2018	UAE; 18US057850; CA; U.S.A	**Species:** Canine **Breed:** Doberman **Sex:** M **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **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	01-Jul-2018*	02-Jul-2018*	1 Day(s)	D-A	Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for a 6 year old Doberman (signalment unknown). *1 July 2018: FRONTLINE PLUS DOG 23-44 LBS (P63205AL) was applied to the dog. Following the treatment on an unknown date, the dog had discharge from his eyes and various neurological issues. The dog was euthanized on a unknown date. There was one other treated dog in the home who also had passed away. See case 18US058780. No further medical iformation available.
31-Aug-2018	UAE; 18US057874; PA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	30-Aug-2018	31-Aug-2018	0 Day(s)	D-A	Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for Feline, Daisy, a 4 pound*, Female spayed, Domestic Longhair. 30 Aug 2018: One vial of FRONTLINE PLUS CATS (R41201AW) was applied between the shoulder blades. 31 Aug 2018: The Feline was found underneath the owner's car deceased. The owner stated that the pet had used Frontline Gold

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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: 6.00 Year(s) **Weight:** 4 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					for Cats in the Past and had no symptoms. The pet was not presented to the clinic. No further medical information is expected. UPDATE 7 Sep 2018: Per veterinarian, a gross necropsy was performed, but no obvious cause of death could be determined. Remains were frozen, and histopathology is planned. No further information at this time.
31-Aug-2018	UAE; 18US057939; PA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	01-Jan-2017*	30-Jul-2018*	13 Day(s)	D-D	Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for a 19 pound, canine (all other signalments unknown). 17 Jul 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was given to the dog topically (unknown site of application, by the owner). The dog was previously treated on a year round basis for an unknown amount of time. The frequency of application is unknown. 30 Jul 2018*: The dog was itching and scratching. The owner did find fleas on the dog. 17 Aug 2018: Another dose of the product was given. The symptoms continued. It is unknown if the dog was seen by a veterinarian or given any treatment. The dog's current status is unknown. The owner is not seeing fleas in the home. The owner lives in the woods. There is another dog treated with the product that had the same symptoms (see case 18US057721). No further medical information expected.
31-Aug-2018	UAE; 18US058044; GA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** - **Age:** 6.00 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	24-Aug-2018	26-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 31 Aug 2018 the pet owner reported the following event for Roxy, 6 month old, 7 pound, intact female Chihuahua. 24 Aug 2018: 1 vial of FRONTLINE PLUS 5-22 LBS (lot unknown) was applied between the shoulder blades. 26 Aug 2018: The dog experienced redness on her face. Pet was washed with Dawn. *27 Aug 2018: The dog's hair on her face, stomach and back began to fall out and pruritus started. No fleas were present on the dog. Pet did not present to the clinic and symptoms are ongoing. No further medical information expected.
31-Aug-2018	UAE; 18US058049; DE; 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	24-Jun-2018	25-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for a Feline (all other signalments unknown). 24 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. Unknown date: Fleas were seen on the pet. The cat experienced itching and weight loss. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. The cat received the product monthly starting 24 Jun 2018 it is unknown if symptoms presented. No further medical information is expected.
05-Sep-2018	UAE; 18US058079; MA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:**	2	2	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	31-Aug-2018*	31-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for 2, 10 pound dogs (signalment unknown). *31 Aug 2018: FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to two dogs. On an unknown date the dogs developed rashes at their lower

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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:** 10 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					belly. The owner declined the report. No further medical information available.
04-Sep-2018	UAE; 18US058094; TX; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Month(s) **Weight:** 13 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 (Route not indicated / recommended)	03-Sep-2018	03-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 4 Sept 2018, the owner reported the following event for Doby, 9 month old, 13 pound, neutered male, Shih Tzu canine. 3 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) was orally ingested. After 30 minutes the pet experienced vomiting and lethargy. The pet was not presented to the clinic and no treatment was provided. 4 Sept 2018: The symptoms have improved but are still ongoing. No further medical information is expected.
04-Sep-2018	UAE; 18US058144; VA; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 67 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Cosequin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	02-Sep-2008	28-Aug-2018*	N/A	D-D	Suspected Adverse Event: On 4 Sept 2018, the owner reported the following event for Blue, a 10 year old, 67 pound, neutered male Siberian Husky. *2 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (J63706AR) was applied per label to the dog. *28 Aug 2018: The dog started to pick up fleas and started to itch. *2 Sept 2018: The dog was given another application of FL and the fleas and itching continued. The dog has been on FL seasonally all his life with no issues and the dog has also been on Cosequin for the past 4 years for a torn ACL with no issues. The dog has not been seen by the vet. No further medical information available.
04-Sep-2018	UAE; 18US058201; IL; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** M **Sex qualifier:** - **Age:** 6.50 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?:** Yes	04-Sep-2017*	17-Aug-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 4 Sep 2018, the owner reported the following event for Harley, a 6.5 year old, 55 pound, intact male, Beagle mixed breed canine. *3 Aug 2018: The dog presented with fleas and began itching. 10 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P63312BR) was applied between the shoulder blades. *17 Aug 2018: The dog's itching increased and the pet developed hair loss on his left leg, front right paw, and back area. There is one cat in the home experiencing itching and hairloss that is also treated with FRONTLINE PLUS (see case 18US058412). The dog has received the three previous treatments with FRONTLINE on unknown dates in 2017 with no adverse symptoms. The dog has not been seen by the veterinarian and the symptoms are ongoing. The dog also continues to have fleas. No further medical information expected.
04-Sep-2018	UAE; 18US058327; NC; U.S.A	**Species:** Feline **Breed:** Russian Blue **Sex:** M	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	02-Sep-2018	02-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 4 Sept 2018, the owner reported the following event for Smokie, 5 year old, 10 pound, neutered male, Russian Blue Feline. 2 Sept 2018: One vial of FRONTLINE PLUS CATS (S40101DW)

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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: Neutered **Age:** 5.00 Year(s) **Weight:** 10 - 12 lbs				12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					was applied between the shoulder blades. After 1 hour, the cat experienced lethargy, anorexia, and vomiting. The cat was not seen by a veterinarian and no treatment was provided. 4 Sept 2018: The symptoms are still ongoing. No further medical information is expected.
04-Sep-2018	UAE; 18US058412; IL; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** - **Age:** 8.00 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-Sep-2017*	17-Aug-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 4 Sep 2018, the owner reported the following event for Snowy, an 8 year old, 15 pound, intact Domestic Mediumhair feline. *3 Aug 2018: The cat presented with fleas and began itching. 10 Aug 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. *17 Aug 2018: The cat's itching increased and the pet developed hair loss on the back of her neck. There is one dog in the home experiencing itching and hairloss that is also treated with FRONTLINE PLUS (see case 18US058201). The cat has received the three previous treatments with FRONTLINE on unknown dates in 2017 with no adverse symptoms. The cat has not been seen by the veterinarian and the symptoms are ongoing. The dog also continues to have fleas. No further medical information expected.
04-Sep-2018	UAE; 18US058414; WI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** M **Sex qualifier:** - **Age:** 6.00 Year(s) **Weight:** 91.5 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	01-Aug-2012*	13-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 4 Sep 2018 the pet owner reported the following event for Toby, a 6 year old (born 9 Feb 2012), 91.5 pound, intact male Yellow Labrador Retriever. 1 Aug 2012*: Started on HEARTGARD PLUS (272 MCG/227 MG) (lot and expiration unknown) and FRONTLINE PLUS DOG 89-132 LBS (lot and expiration unknown) once monthly. 12 Aug 2018: The pet owner administered 1 HEARTGARD PLUS chew PO and applied 1 vial of FRONTLINE PLUS topically, intrascapular. 13 Aug 2018: The dog began exhibiting lethargy and anorexia. 16 Aug 2018: The dog presented to the clinic with ongoing symptoms. A CBC and chemistry test was performed which yielded unremarkable results and a fecal test was negative for parasites. No treatment was administered. 19 Aug 2018: The dog recovered. Toby has been on both products since 1 Aug 2012* with no issues. No further information is available at this time. UPDATE 17 Sep 2018: The pet owner called and made the following update to the case: 12 Sep 2018: The owner administered the most recent chew of HEARTGARD PLUS without any issues. 14 Sep 2018: The owner administered the most recent dose of FRONTLINE PLUS DOG without any issues. No further medical information expected.
04-Sep-2018	UAE; 18US058518; TX; U.S.A	**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	03-Sep-2018*	03-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 4 Sep 2018, the owner reported the following event for Jojo, a Shih Tzu/Poodle mixed breed (all other signalments unknown). 3 Sep 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R61418AL) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first application. On an unknown date after the application, the dog vomited.

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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?:** Unknown to Company					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-Sep-2018	UAE; 18US058528; CA; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.50 Year(s) **Weight:** 20.00 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** fish oil; Tropiclean shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	03-Aug-2017*	03-Sep-2018	31 Day(s)	D-D	Suspected Adverse Event: On 4 Sep 2018, the owner reported the following event for Archie, a 2.5 year old, approximately 20 pound, neutered male, Dachshund (miniature). 2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (P60803BL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a year round basis. Dec 2017*: The dog started on fish oil. May 2018*: The dog started being bathed with Tropiclean shampoo. 3 Aug 2018: The dog was given another dose of the FRONTLINE. 16 Aug 2018: The dog was given another bath with the Tropiclean shampoo. 3 Sep 2018: The dog was given another dose of fish oil. The owner noticed a scab between the dog's shoulder blades where the FRONTLINE is usually applied. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
31-Aug-2018	UAE; 18US058780; CA; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** M **Sex qualifier:** Unknown **Age:** 8.00 Year(s) **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	01-Jul-2018*	22-Jul-2018*	3 Week(s)	D-A	Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for a 8 year old Beagle (signalment unknown). *1 July 2018: FRONTLINE PLUS DOG 23-44 LBS (P63205AL) was applied to the dog. Following the treatment on an unknown date, the dog died in its sleep. There was one other treated dog in the home who also had passed away. See case 18US057850. No further medical iformation available.
05-Sep-2018	UAE; 18US058788; IL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 87 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** AFOXOLANER 136 MG CHEWABLE TABLETS; FIPRONIL 9.8% / S-METHOPRENE 8.8% / PYRIPROXYFEN 0.25%	02-Jan-2017*	08-Aug-2018*	8 Month(s) 1 Week(s)	D-C	Suspected Lack of Efficacy Claim: On 5 Sep 2018, a district manager reported the following event for Bear, a 7 year old, 87 pound, neutered male Labrador Retriever. 2 Jan 2017: The pet owner received 12 doses of FRONTLINE PLUS DOG 89-132 LBS (lot number unknown) to be applied topically, between the shoulder blades, by the pet owner, on a monthly basis. 20 Dec 2017: The pet owner received 8 doses of FRONTLINE GOLD DOG 89-132 LBS (lot number unknown) to be applied topically, between the shoulder blades, by the pet owner, on a monthly basis. Dec 2017: The pet owner won a gift basket through the clinic that contained enough NEXGARD (lot number and expiration date unknown) (product unsubstantiated) to treat two dogs for a year. Since the owner was not satisfied with the FRONTLINE, the dog started to receive one full chew of NEXGARD (lot number and expiration date unknown) (product unsubstantiated), orally, 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
						TOPICAL SOLUTION; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					pet owner, on a monthly basis. 8 Aug 2018: The dog presented to the clinic since he had been very stiff and had no energy for an unknown period of time . A blood sample was submitted to a laboratory, but the sample was lost. Rimadyl and amoxicillin were dispensed. 18 Aug 2018: The dog presented to the veterinary clinic. A Quant C6 was performed through Idexx Laboratory and the result was 124. It could not be confirmed if the dog was previously tested for Lyme disease. There is one other dog in the home, but it could not be confirmed how much the dog weighs. No further information at this time. UPDATE 5 Sep 2018: Per the email from the veterinary clinic: Jan 2018: The dog started to receive NEXGARD. 8 Aug 2018: A blood sample was sent to Idexx for a tick panel and comprehensive bloodwork but the sample was lost by Idexx. Unknown date: The dog made some improvement following Rimadyl and amoxicillin administration. 18 Aug 2018: The dog had finished Rimadyl. Upon presentation to the clinic, he was only toe touching on his left hind leg and all of the
05-Sep-2018	UAE; 18US058861; HI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 14.2 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Clavamox; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2017*	05-Sep-2018	6 Day(s)	D-D	Suspected Adverse Event: On 5 Sep 2018, the owner reported the following event for Franky, an approximately 4 year old, 14.2 pound, neutered male, Domestic Shorthair (Crossbreed). 2017*: The cat started on 1 vial of FRONTLINE PLUS CATS (R41005BW) given to the cat topically between the shoulder blades, by the owner. The cat was not treated regularly. 25 Jul 2018*: The cat started on Clavamox 1 Aug 2018*: The cat received the last dose of Clavamox. 30 Aug 2018: The cat received another dose of the product. 5 Sep 2018: The owner noticed hair loss at the application site. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
06-Sep-2018	UAE; 18US058923; VA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 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	20-Jun-2018	21-Jun-2018*	N/A	D-D	Suspected Adverse Event: On 6 Sept 2018, the owner reported the following event for Zeus, 7 year old, 14 pound, neutered male, Mixed Breed canine. 20 Jun 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R61421AL) was applied between the shoulder blades. 21 Jun 2018*: The dog experienced intense itching. The pet's skin became raw. The pet was not seen by a veterinarian or given any treatment. 20 Jul 2018: Another vial was applied. Symptoms persisted. 20 Aug 2018: Another vial was applied. 6 Sept 2018: Symptoms and flea issue are still ongoing. No further medical information is expected.
06-Sep-2018	UAE; 18US058931; SC; U.S.A	**Species:** Feline **Breed:** Domestic Mediumhair (Crossbred) **Sex:** F **Sex qualifier:** Neutered	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	04-Sep-2018*	04-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 6 Sep 2018, the following adverse event was reported to Safety Call International (SCI) by the pet owner for Majic, a 3 year old, 15 pound, spayed female, Domestic Mediumhair (crossbreed). 4 Sep 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat topically, between the shoulder blades, by the owner. It is unknown if this was the first dose applied. On an unknown date after the application, the cat was lethargic and not

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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:** 15 lbs				products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					eating. 5 Sep 2018: The pet owner gave the cat a bath. 6 Sep 2018: The cat recovered. The cat was not seen by a veterinarian. No further medical information expected. UPDATE 6 Sep 2018: Per the records received, the human exposure was reported in case 18US059797. No further medical information expected.
06-Sep-2018	UAE; 18US058965; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	01-Mar-2017*	02-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 11 Sep 2018, the owner reported the following event for a 10 pound feline (all other signalments unknown). 2017*: The cat started on an unknown amount of FRONTLINE PLUS CATS (lot unknown) given to the cat topically (unknown site of application), by the owner. The frequency of application is unknown. 2 Sep 2018: The cat received another dose of the product. On an unknown date after the application the cat's fur was falling out. The owner did find flea dirt on the cat but no live fleas. It is unknown if the cat was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
06-Sep-2018	UAE; 18US059001; CA; U.S.A	**Species:** Canine **Breed:** Portuguese Water Dog **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 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?:** Yes	01-Sep-2009*	05-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 6 Sept 2018, the owner reported the following event for Lily, 10-year-old, 48 pound, spayed female, Portuguese Water Dog. 4 Sept 2018: Fleas were seen on the dog. One vial of FRONTLINE PLUS DOG 45-88 LBS (R62301AR) was applied between the shoulder blades. 5 Sept 2018: The dog experienced intense itching and raw skin at the base of the tail. The pet was not seen by a veterinarian or given any treatment. 6 Sept 2018: The symptoms are still ongoing. The dog has received the product sporadically since 1 Sept 2009* and no symptoms presented. No further medical information is expected.
06-Sep-2018	UAE; 18US059141; 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?:** Yes	01-Sep-2018*	02-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 6 Sept 2018, the owner reported the following event for a Canine (all other signalments unknown). 1 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 (lot unknown) was applied between the shoulder blades. 2 Sept 2018*: The experienced itching. The pet was not presented to the clinic and no treatment was provided. 6 Sept 2018: The symptoms are still ongoing. No further medical information is expected.
06-Sep-2018	UAE; 18US059171; TX; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 53.0 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other	18-Aug-2018*	24-Aug-2018	6 Day(s)	D-B	Suspected Adverse Event: On 6 Sep 2018, a veterinarian reported the following event for Zora, a 53 pound, 5 year old (*25 Aug 2013), spayed female, Pit Bull Mix. 18 Aug 2018: FRONTLINE PLUS DOG (unsubstantiated)(lot and expiration unknown) was applied in an unknown location on Zora's body. 24 Aug 2018: The pet owner noted nystagmus, unknown

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						products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					neurologic symptoms and lethargy and gave 2 doses of dog aspirin. An unknown amount of time later the nystagmus and neurologic symptoms resolved. 25 Aug 2018: Zora presented to the clinic for continued lethargy. A 5 inch necrotic, sloughing wound was noted on the left lateral thorax was noted on exam. Bloodwork was drawn and sent to Antech with the following abnormal results: BUN 60 (6-31) creatinine 4.1 (0.5-1.6) ALT 960 (12-118), globulins 4.5 (1.6-3.6) total protein 7.7 (5-7.4), slight monocytosis 1296 (0-840), urine- 1+ protein, specific gravity 1.012, heartworm positive, Borrelia positive for chronic exposure, a Leptospirosis PCR was negative. Zora was treated with gentamycin, cefpodoxime, silver sulfadiazine and doxycycline. Zora has no known history of drug or vaccine reactions. The veterinarian has a low level of suspicion that the FRONTLINE has caused the reaction. No further information at this time.
06-Sep-2018	UAE; 18US059231; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** - **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?:** Unknown to Company	03-Sep-2018*	04-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 6 Sept 2018, the owner reported the following event for Ben, 13 pound, neutered male, Domestic Shorthair Feline (all other signalments unknown). 3 Sept 2018: An unknown amount of FRONTLINE PLUS CAT (lot unknown) was applied topically at an unknown location. 4 Sept 2018*: The cat experienced hair loss at the application site. It is unknown if the cat was seen by a veterinarian or given any treatment. The status of the pet is unknown. No further medical information is expected.
07-Sep-2018	UAE; 18US059346; -; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 9 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	04-Aug-2018*	24-Aug-2018*	N/A	D-A	Suspected Adverse Event: On 7 Sep 2018 the attending vet reported the following event for Chances, 12 year old, 9 pound, spayed female Domestic Shorthair feline. *4 Aug 2018: 1 vial of FRONTLINE COMBO SPOT ON CATS (P41408CL) was applied between the shoulder blades. *24 Aug 2018: Cat began to experience a loss of vision. 4 Sep 2018: Another vial was applied. 6 Sep 2018: The pet began to experience twitching and was less active. The cat died at *9:30 am and was presented to the clinic at *9:35 am. There is an unknown numbers dogs in the home that are using a flea and tick control product that contains a pyrethrin. No further medical information expected. Update 05 Oct 2018: The contact page was revised. UPDATE 26 Oct 2018: Per a conversation with the veterinarian, a necropsy was done and multiple gross abnormalities were found. The patient's serum potassium level was 10 (reference range and units not given). UPDATE 31 Oct 2018: Per medical records sent, on 8 Sep 2018, blood work was run and showed NEU = 0.17 K/uL (reference range = 2.50 - 12.50), LYM = 8.32 K/uL (0.40 - 6.80), EOS = 0.05 K/uL (0.10 - 0.70), Glu > 686 mg/dL (71 - 159), creat = 2.7 mg/dL (0.8 - 2.4), BUN = 45 mg/dL (16 - 36), Phos = 15.7 mg/dL (3.1 - 7.5), ALT high, but unreadable, Na = 149 mmol/L (150 - 225), and K = > 10.0 mmol/L (3.5 - 5.8). A Rabies FA Antigen done at the Texas Department of State Health Services on 8 Sep 2018 and 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
											negative. Histopathologic diagnoses on necropsy were: multifocal myocardial fibrosis, widespread subacute pulmonary edema with multifocal lymphocytic peribronchiolar pneumonia, moderate chronic institial nephritis and acute centrilobular hepatic congestion. Comments made by the pathologist are that the most important lesions affected the myocardium, lungs and kidneys. The myocardial lesion is histologically compatible with cardiomyopathy. Underlying cardiomyopathy, presumably, contributed to the clinical syndrome. The pulmonary edema and acute
07-Sep-2018	UAE; 18US059461; TN; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** - **Age:** 3.00 Year(s) **Weight:** 69 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)	19-Aug-2018	06-Sep-2018	3 Day(s)	D-B	Suspected Adverse Event:On 7 September 2018, the vet reported the following event for Bandit, a 3 year old, 69 pound, intact male Pit Bull. 19 Aug 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (FL) (lot unknown) was topically applied to the dog. 3 September 2018: Another vial of FL was given to the dog. 6 September 2018: The dog started to vomit. 7 September 2018: The dog started to have seizures. The dog was taken to the vet and given a bath and fluids. No further medical information available. Update 01 Nov 2018: After further review, the Expected? box on the assessment screenwas selected No
07-Sep-2018	UAE; 18US059577; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 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	N/A	29-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 7 Sept 2018, the owner reported the following event for Phatom, 11 year old, 8 pound, neutered male, Domestic Shorthair Feline. 29 Aug 2018: One vial of FRONTLINE PLUS CATS (M40405AL) was applied between the shoulder blades. The cat experienced shaking and wobbly gait. The cat was not presented to the clinic and no treatment was provided. 7 Sept 2018: The symptoms are still ongoing. There cat has used the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and are asymptomatic. No further medical information is expected.
10-Sep-2018	UAE; 18US059639; OH; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** F **Sex qualifier:** - **Age:** 8.00 Year(s) **Weight:** 100 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown anti-seizure medication; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Sep-2010*	09-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 10 Sep 2018, the owner reported the following event for Zoey, an 8 year old, 100 pound, non-pregnant non-lactating intact female, German Shepherd. 2010*: The dog started on 1 vial of FRONTLINE PLUS DOG 89-132 LBS (P62805AR) given to the dog topically, between the shoulder blades, by the owner. The dog was only treated as needed. The dog also started on an unknown anti-seizure medication. The dog was treated daily. 8 Sep 2018: The dog received another dose of both products. 9 Sep 2018: The skin at the site of application was raised and swollen and the fur was starting to fall out. The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.

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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
10-Sep-2018	UAE; 18US059662; FL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** - **Age:** 10.00 Year(s) **Weight:** 10 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	25-Aug-2008	25-Aug-2018	0 Day(s)	D-D	Suspected Adverse Event: On 10 Sept 2018, the owner reported the following event for Bandit, 10 year old, 10 pound, intact male, Shih Tzu canine. 24 Aug 2018: One chew of HEARTGARD (68 MCG/57 MG) (lot unknown, exp unknown) was adminstered orally. 25 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (R61013AL) was applied between the shoulder blades. 3 Sept 2018: The fleas issue continued. The dog experienced pruritus throughout the body. The dog was not seen by a veterinarian or given any treatment. 10 Sept 2018: Symptoms are still ongoing. The dog has received the FRONTLINE since 25 Aug 2008 and no symptoms presented. The pet has received HEARTGARD since 24 Aug 2017* and no symptoms presented. No further medical information is expected.
11-Sep-2018	UAE; 18US060041; OH; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	N/A	11-Sep-2018	20 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for Baby, 1 year old, neutered male, Mixed breed feline. 22 Aug 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was applied between the shoulder blades. 11 Sept 2018: The cat experienced pruritis throughout the body. The cat was not seen by a veterinarian or given any treatment. The symptoms are still ongoing. The cat has received the product on prior unknown dates and no symptoms presented. There are 2 other cats in the household that also received the product and are experiencing symptoms (see case 18US061984, 18US061985). No further medical information is expected.
11-Sep-2018	UAE; 18US060053; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 15.9 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	31-Jul-2017*	06-Oct-2017	2 Day(s)	D-D	Suspected Adverse Event: On 11 Sep 2018, the receptionist reported the following event for Rayme, an 8 year old, 15.9 pound, neutered male, Domestic Shorthair (Crossbreed). 31 Jul 2017: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically, between the shoulder blades, by the owner. The frequency of application is unknown. 4 Oct 2017: The cat received another dose of the product. 6 Oct 2017: The cat started vomiting and was lethargic. 9 Oct 2018: The cat was seen by a veterinarian and given Omeprazole. The cat recovered. The cat had symptoms while using FRONTLINE GOLD (see case 18US060050). No further medical information expected.
11-Sep-2018	UAE; 18US060093; MI; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** M **Sex qualifier:** Neutered **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**	28-Dec-2017	29-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 11 September 2018 the owner reported the following event for Banjo, a one year old, 60 pound, neutered male Husky mix. 28 Aug 2018: The owner applied one vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) to his dog per label. On an unknown date the dog picked up fleas and started to itch, scratch, bite and chew his paws and lose fur. The dog has been on FL since December 2017 and has been picking up fleas the past 2 months. There is one other dog in the home who also is having the same issues. See case 18US060147. No further medical information available.

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						product used ok?: Yes					Update 24 Sep 2018: After additional review, Veddra coding was updated.
11-Sep-2018	UAE; 18US060100; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Probiotic; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Mar-2018	08-Sep-2018	2 Day(s)	D-C	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for Lexi, 12 year old, 12 pound, spayed female, Chihuahua canine. 6 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60509AL) was applied between the shoulder blades. 8 Sept 2018: The dog experienced bloody diarrhea. 11 Sept 2018: The pet was presented to the clinic. It is unknown if any treatment was provided. The symptoms are still ongoing. The dog has a preexisting history of Colitis and receives a Probiotic daily. The dog has received the product since 6 Mar 2018 and no symptoms presented. There is one other dog in the household that also received the product and is experiencing symptoms (see case 18US060473). No further medical information is expected.
11-Sep-2018	UAE; 18US060120; NY; U.S.A	**Species:** Canine **Breed:** Anatolian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 16.00 Month(s) **Weight:** 112 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	22-Jul-2018	29-Aug-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 11 September 2018, the owner reported the following event for Cado, a 16 month old, 112 pound, neutered male Antolian Shepherd. 22 Aug 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (R60908BR) was topically applied per label to the dog. Within a week the dog was itching, licking his front legs, missing hair, developed bumps, and had diarrhea which is getting worse. The owner is monitoring the dog and the dog has not been seen by the vet. The dog had the same reaction the previous month. No further medical information available.
11-Sep-2018	UAE; 18US060147; MI; U.S.A	**Species:** Canine **Breed:** Siberian Husky **Sex:** F **Sex qualifier:** Neutered **Age:** - **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	28-Dec-2017	29-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 11 September 2018 the owner reported the following event for Dakota, age unknown, spayed female Husky mix. 28 Aug 2018: The owner applied one vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) to his dog per label. On an unknown date the dog picked up fleas and started to itch, scratch, bite and chew his paws and lose fur. The dog has been on FL since December 2017 and has been picking up fleas the past 2 months. There is one other dog in the home who also is having the same issues. See case 18US060093. No further medical information available.
11-Sep-2018	UAE; 18US060193; IL; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 75 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	10-Sep-2018	11-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event:On 11 Sep 2018, the owner reported the following event for the canine, Axe, a 75 pound, Male Neutered, Australian Shepherd. 10 Sep 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P63312DR) was applied between the shoulder blades. 11 Sep 2018: The Canine had experienced symptoms of excessive scratching. The pet was not presented to a clinic. The owner did bathe the pet prior to use of the FRONTLINE with a unknown pet shampoo. The Owner has additional pets in the home with the same reaction 18US060193, 18US060424, and 18US060766. 11 Sep 2018: The pet's symptoms are ongoing. No further medical

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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
											information is expected.
11-Sep-2018	UAE; 18US060295; MI; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	21-May-2018*	22-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for Dayday, a Pit Bull Canine (all other signalments unknown). 21 Aug 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (S60620AR) was applied topically at an unknown location. The owner found fleas on the pet. 22 Aug 2018*: The dog experienced intense itching, which also cause hair loss throughout the body. It is unknown if the pet was presented to the clinic or given any treatment. The status of the pet is unknown. The pet has received the product since 21 May 2018. It is unknown if any symptoms presented. No further medical information is expected.
11-Sep-2018	UAE; 18US060317; HI; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 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	29-Aug-2018	05-Sep-2018	1 Week(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for Skittles, 3 year old, 11 pound, neutered male, Domestic Shorthair Feline. 29 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blade. 5 Sept 2018: The cat experienced hair loss at the application site. The cat was not seen by a veterinarian or given any treatment. 13 Sept 2018: Symptoms are still ongoing. No further medical information is expected.
11-Sep-2018	UAE; 18US060321; PA; 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	15-Apr-2018	06-Sep-2018	22 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for 2 Felines (all other signalments unknown). 15 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 6 Sept 2018: The owner started noticing fleas on the pet. The cat experienced intense itching. It is unknown if the cat was seen by a veterinarian of given any treatment. The status of the pet is unknown. The pet has received the product monthly since 15 Apr 2018 and no symptoms presented. There is one other cat in the household that also received the product (see case 18US061065). No further medical information is expected.
11-Sep-2018	UAE; 18US060381; 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 ok?:** Unknown	30-Jun-2018	01-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for a Feline (all other signalments unknown). 30 Jun 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. 30 Jul 2018: Another vial was applied 31 Aug 2018: The third vial was applied. Unknown date: The cat experienced intense itching and scabs around the neck. 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.

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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
						to Company					
11-Sep-2018	UAE; 18US060390; NC; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 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	04-Sep-2018	10-Sep-2018*	6 Day(s)	D-D	Suspected Adverse Event: On 11 September 2018, the owner reported the following event for Kiwi, a 10 year old, 12 pound, spayed female Chihuahua. 4 September 2018: The dog was itching and one vial of FRONTLINE PLUS DOG 5-22 LBS (P61007AL) was applied to the dog per label for the first time. *10 September 2018: The dog itching increased. The dog has not been seen by the vet for her ongoing condition, there is one other dog in the home who also had the same reaction. See case 18US060492. No further medical information available.
11-Sep-2018	UAE; 18US060419; VT; U.S.A	**Species:** Canine **Breed:** Basset Hound **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 77 lbs*	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Essential Pet Glucosamine and Chondroitin; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	09-Sep-2016*	10-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 12 Sep 2018 the pet owner reported the following event for Marley, 9 year old, 77 pound, neutered male Basset Hound-Golden Retriever mix. *24 Aug 2018: Dog started Essential Pet Glucosamine and Chondroitin daily. 9 Sep 2018: 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was applied between the shoulder blades. 10 Sep 2018: Pet began to experience increased itching and there are not any fleas present on the dog. The pet did not present to the clinic and the symptom is on going. The has been using FRONTLINE monthly since *9 Sep 2016. No further medical information expected.
11-Sep-2018	UAE; 18US060424; IL; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **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	10-Sep-2018	11-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event:On 11 Sep 2018, the owner reported the following event for the canine, Australian Shepard (all other signalment unknown) 10 Sep 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P63312DR) was applied between the shoulder blades. 11 Sep 2018: The Canine had experienced symptoms of excessive scratching. The pet was not presented to a clinic. The owner did bathe the pet prior to use of the FRONTLINE with a unknown pet shampoo. 31 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.
12-Sep-2018	UAE; 18US060470; PA; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Unknown **Age:** - **Weight:** 30 lbs	4	2	2	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the**	03-Sep-2011*	03-Sep-2018	0 Day(s)	D-A	Suspected Adverse Event: On 12 Sep 2018, the owner reported the following event for two 30 pound, male, Spaniels (Cocker) (all other signalments unknown). 2011: The dogs started on an unknown amount of FRONTLINE PLUS DOG 45-88 LBS. The owner treated as needed. 3 Sep 2018: The owner split a dose of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) between four dogs topically, from the shoulder blades to the tail. Within an hour of the application, two dogs started having difficulty breathing and walking. Then both dogs died. The dogs were not seen by a veterinarian or given any treatment.

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						product used ok?: No (Treatment / vaccination program not respected)					No further medical information expected.
11-Sep-2018	UAE; 18US060473; CA; U.S.A	**Species:** Canine **Breed:** Terrier (Jack Russell) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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	06-Mar-2018	06-Sep-2018	0 Day(s)	D-C	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for JR, 6 year old, 11 pound, neutered male, Jack Russell Terrier canine. 6 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60509AL) was applied between the shoulder blades. The dog experienced bloody diarrhea. 11 Sept 2018: The pet was presented to the clinic. It is unknown if any treatment was provided. The symptoms are still ongoing. The dog has received the product since 6 Mar 2018 and no symptoms presented. There is one other dog in the household that also received the product and is experiencing symptoms (see case 18US060100). No further medical information is expected.
11-Sep-2018	UAE; 18US060492; NC; U.S.A	**Species:** Canine **Breed:** Medium crossbred (10 - 20 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 5.00 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	04-Sep-2018	10-Sep-2018*	6 Day(s)	D-D	Suspected Adverse Event: On 11 September 2018, the owner reported the following event for Riley, a 5 year old, 24 pound, spayed female mixed breed. 4 September 2018: The dog was itching and one vial of FRONTLINE PLUS DOG 23-44 LBS (R62412AL) was applied to the dog per label for the first time. *10 September 2018: The dog itching increased. The dog has not been seen by the vet for her ongoing condition, there is one other dog in the home who also had the same reaction. See case 18US060390. No further medical information available.
12-Sep-2018	UAE; 18US060517; OH; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	N/A	05-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Cur, 8 year old, 45 pound, neutered male, Mountain Cur mixed canine. 5 Sept 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. The dog experienced anorexia, lethargy, and decreased drinking. The pet also began itching and licking paws obsessively. The dog ingested some of the product. The dog was not seen by a veterinarian or given any treatment 8 Sept 2018: The dog recovered. There are 3 other dogs in the household that did not receive the product and are asymptomatic. No further medical information is expected. Update 24 Sep 2018: After further review the reason for assessment was revised.
12-Sep-2018	UAE; 18US060537; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s)	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products	10-Mar-2018	17-Aug-2018*	N/A	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Riley, 11 year old, 12 pound, neutered male, Domestic Shorthair Feline. 10 Aug 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was applied between the shoulder blades. 17 Aug 2018*: Fleas were found on the pet. The cat experienced increased itching. The pet was not seen by a veterinarian or given any treatment.

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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 lbs				**Route:** Topical / Cutaneous **Was the product used ok?:** Yes					10 Sept 2018: Another vial was applied. 12 Sept 2018: Symptoms are still ongoing. The pet has received the product since 10 Mar 2018 and no symptoms presented. No further medical information is expected.
12-Sep-2018	UAE; 18US060603; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	21-Aug-2018*	01-Sep-2018	11 Day(s)	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Angel, 10 pound, Domestic Shorthair feline. 21 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 1 Sept 2018: The cat experienced strange hiding behavior. The cat also had scabs around the face and neck. The pet presented to the clinic. The attending veterinarian prescribed a steroid and antibiotic injection. 12 Sept 2018: Symptoms are still ongoing. No further medical information is expected.
12-Sep-2018	UAE; 18US060647; MN; U.S.A	**Species:** Canine **Breed:** German Shepherd Dog **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 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	09-Aug-2018	09-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Max, 3 year old, 85 pound, neutered male, German Shepherd canine. 9 Aug 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60510AX) was applied between the shoulder blades. 9 Sept 2018: Another vial was applied. The dog experienced skin irritation at the application site. 12 Sept 2018: The dog presented to the clinic. The attending veterinarian shaved the site and applied Cortizone. Symptoms are still ongoing. No further medical information is expected.
12-Sep-2018	UAE; 18US060687; FL; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 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	12-Sep-2018	12-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Piggy, 3 year old, 10 pound, neutered male, Domestic Shorthair Feline. 12 Sept 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The cat ingested the product and immediately began hypersalivating. The cat did not present to the clinic and there was no treatment provided. The cat recovered after 20 minutes. There are 4 other cats in the household that also received the product and are asymptomatic. No further medical information is expected.
12-Sep-2018	UAE; 18US060762; IN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 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	29-Jun-2018	11-Sep-2018	13 Day(s)	D-D	Suspected Adverse Event: On 12 Sept 2018, the owner reported the following event for Izzy, 9 year old, 10 pound, spayed female, mixed breed Feline. 29 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 11 Sept 2018: The owner found fleas on the pet. The cat experienced small red bumps around the stomach. The cat was not seen by a veterinarian or given any treatment. 12 Sept 2018: Symptoms are still ongoing. The cat has received the product since 29 Jun 2018 and no

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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					symptoms presented. No further medical information is expected.
13-Sep-2018	UAE; 18US060766; IL; U.S.A	**Species:** Canine **Breed:** Australian Shepherd **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Unknown Pet Shampoo; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	10-Sep-2018	11-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 11 Sep 2018, the owner reported the following event for the canine, Australian Shepard (all other signalment unknown) 10 Sep 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (Lot Unknown) was applied between the shoulder blades. 11 Sep 2018: The Canine had experienced symptoms of excessive scratching. The pet was not presented to a clinic. The owner did bathe the pet prior to use of the FRONTLINE with an unknown pet shampoo. The owner has 2 dogs that have used FRONTLINE PLUS DOG 23-44 LBS and had symptoms noted, see cases 18US060193 and 18US060424. 31 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.
13-Sep-2018	UAE; 18US060786; MD; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** - **Age:** 7.40 Year(s) **Weight:** 13.5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IMRAB 3 TF - 1905.23; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; Benadryl; Zyrtec; Claritin; unknown steroid; **Route:** unknown **Was the product used ok?:** Unknown to Company	01-Aug-2018*	09-Aug-2018	8 Day(s)	D-B	Suspected Adverse Event: On 12 Sept 2018, the following event was reported via the medical records for Marley, a 13.5 pound, 7.4 year old, neutered male, Yorkshire Terrier-Poodle Mix. 9 Aug 2018: The dog was vaccinated with IMRAB 3 TF (lot and expiration unknown) 1 ml SC in the right hind leg. The dog was sent home and while in the car he started to vomit and eventually became unresponsive per the pet owner. He presented back to the clinic with a dull mentation, temperature 97.9F, pale, with gray/tacky mucous membranes. The dog was responsive on presentation but in shock. An IV catheter was placed and he was treated with diphenhydramine 0.27 ml IM (50mg/ml), 1/4 shock dose of Norm-R IV, Dex SP 0.10 ml (4mg/ml), and he was placed in oxygen therapy. The dog immediately began to perk up and became BAR. Additionally, he received an injection of Cerenia 1 mg/kg (10mg/ml). It is unclear if the dog fully recovered at this time; currently his status is unknown. The dog has previously received IMRAB 3 TF without reactions on an unknown date. The dog has received an unknown HEARTGARD product (lot and expiration unknown) (product unsubstantiated) and an unknown FRONTLINE product (lot and expiration unknown) (product unsubstantiated) on an unknown date. The dog has a history of allergies for which he has received Benadryl, Zyrtec, Claritin, and unknown steroid; it is unknown if any of these medications were administered at the time of the event. No further information is expected.
13-Sep-2018	UAE; 18US060790; PA; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** - **Age:** 14.00 Year(s) **Weight:** 51 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Quadritop ointment; Carprofen; Cefpodoxime; **Route:** Topical / Cutaneous	01-Sep-2005*	11-Sep-2018	10 Day(s)	D-B	Suspected Adverse Event: On 13 Sep 2018, the owner reported the following event for Wilson, a 14 year old, 51 pound, intact male, Boxer. 2005*: The dog started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) given to the dog topically, between the shoulder blades, by the owner. The dog was treated monthly on a seasonal basis from Jun-Nov. 1 Sep 2018*: The dog received another dose of the product. Unknown date: The dog was bitten by a groundhog. 10 Sep 2018: The dog was seen by a veterinarian and started on Quadritop ointment, Carprofen, and Cefpodoxime. 11 Sep 2018: The dog received another dose of Quadritop ointment, Carprofen, and Cefpodoxime. The dog had a seizure that

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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					lasted several minutes. 12 Sep 2018: The dog received only a dose of Quadritop ointment. The dog had another seizure and recovered. The dog was seen by a veterinarian but was not given any treatment. No further medical information expected.
13-Sep-2018	UAE; 18US060897; RI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** - **Age:** 4.00 Month(s) **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?:** Yes	12-Sep-2018	13-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 13 September 2018, the owner reported the following event for Coraline, a 4 month old, intact female cat (signalment unknown). 12 September 2018: The cat had fleas and was itching before the treatment. One vial of FRONTLINE PLUS CATS (R41201AW) was applied per label to the cat for the first time. 13 September 2018: The cat's itching increased and the cat is meowing at the owner, whenever she walks by. The owner is monitoring the cat. There is one other treated cat in the home who also had the same reaction. See case 18US060900. No further medical information available.
13-Sep-2018	UAE; 18US060900; RI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **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	12-Sep-2018	13-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 13 September 2018, the owner reported the following event for Erza, a 4 month old, intact male cat (signalment unknown). 12 September 2018: The cat had fleas and was itching before the treatment. One vial of FRONTLINE PLUS CATS (R41201AW) was applied per label to the cat for the first time. 13 September 2018: The cat itching increased and the cat is meowing at the owner, whenever she walks by. The owner is monitoring the cat. There is one other treated cat in the home who also had the same reaction. See case 18US060897. No further medical information available.
14-Sep-2018	UAE; 18US060970; KY; 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-Sep-2018*	06-Sep-2018*	5 Day(s)	D-D	Suspected Adverse Event: On 13 Sep 2018, the owner reported the following event for an unknown canine (all signalments unknown). 1 Sep 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 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 applied. The owner bathed the dog prior to the application and was seeing fleas. 6 Sep 2018*: The dog was constantly scratching and chewing at its feet. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
13-Sep-2018	UAE; 18US061065; 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	15-Apr-2018	06-Sep-2018	22 Day(s)	D-D	Suspected Adverse Event: On 13 Sept 2018, the owner reported the following event for a 15 pound, Feline (all other signalments unknown). 15 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 6 Sept 2018: The owner started noticing fleas on the pet. The cat expereinced intense itching. It is unknown if the cat was seen by a veterinarian or given any treatment. The status of the pet is unknown. The pet has received the product monthly since 15 Apr 2018 and

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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					no symptoms presented. There are 2 other cats in the household that received the product and experienced symptoms (see case 18US60321). No further medical information is expected.
13-Sep-2018	UAE; 18US061107; CA; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 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	02-Aug-2018*	07-Sep-2018*	5 Day(s)	D-D	Suspected Adverse Event: On 13 Sep 2018 the pet owner reported the following event for GiGi, 1 year old, 7 pound, spayed female Maine Coon Cat. 2 Sep 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. *7 Sep 2018: Cat began to experience a rash throughout her body. 9 Sep 2019: Cat presented to the clinic, was given a shot for swelling and prescribed Augmentin 200 mg. Symptoms are ongoing. Pet received her first application of FRONTLINE on *2 Aug 2018. Two other cats in the home did experience symptoms after use of the product, case numbers 18US061112 and 18US061107. No further medical information expected.
13-Sep-2018	UAE; 18US061112; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 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	02-Aug-2018*	09-Sep-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 13 Sep 2018 the pet owner reported the following event for Everest, 1 year old, 9 pound, spayed female Domestic Shorthair. 2 Sep 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. *9 Sep 2018: Cat began to experience redness and balding throughout her body. Pet was presented to the vet clinic, was given a shot for swelling and was prescribed Augmentin 200 mg. Symptoms are ongoing. Pet received her first application of FRONTLINE on *2 Aug 2018. Two other cats in the home did experience symptoms after use of the product, case numbers 18US061107 and 18US061113. No further medical information expected.
13-Sep-2018	UAE; 18US061113; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 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	02-Aug-2018*	10-Sep-2018*	8 Day(s)	D-D	Suspected Adverse Event: On 13 Sep 2018 the pet owner reported the following event for Biggie, 6 year old, 9 pound, neutered male Domestic Shorthair. 2 Sep 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. *10 Sep 2018: Pet began to experience a rash on his face. 13 Sep 2018: Pet was presented to the vet clinic, was given a shot for swelling and was prescribed Augmentin 200 mg. Symptoms are ongoing. Pet received her first application of FRONTLINE on *2 Aug 2018. Two other cats in the home did experience symptoms after use of the product case numbers 18US061112 and 18US061107 No further medical information expected.
14-Sep-2018	UAE; 18US061147; PA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** - **Weight:** 9.62 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**	22-Aug-2018*	22-Aug-2018*	0 Day(s)	D-B	Suspected Adverse Event: On 14 September 2018, the vet tech reported the following event for Pester, a 9.62 pound, spayed female Domestic Shorthair age unknown by reporter. 22 Aug 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was applied to the cat. Following the treatment on an unknown date the cat started to have grand mal seizures and scratching herself to the point of bleeding. 14 September 2018: The cat was seen by the vet and blood work was done (results unknown). It is unknown by the reporter if the cat has received FL in the past or if it was the first treatment 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
						ok?: Unknown to Company					Update 02 Nov 2018: After further review, Expected? on the assessment screen was selected No.
14-Sep-2018	UAE; 18US061219; IL; U.S.A	**Species:** Canine **Breed:** Schnauzer (Miniature) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.50 Year(s) **Weight:** 22 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	14-Sep-2018*	14-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 14 September 2018, the owner reported the following event for Spot, 11.5 year old, 22 pound, spayed female Schnauzer (miniature). *14 September 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (R62540AL) was applied to the dog. On an unknown date the dog developed diarrhea. The dog has had FL before and the owner explained diarrhea happens occasionally and typically last a day or so. The owner declined the report. No further medical information available.
14-Sep-2018	UAE; 18US061235; NY; U.S.A	**Species:** Canine **Breed:** Spaniel (Cocker) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	14-Aug-2018	17-Aug-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 14 Sep 2018 the pet owner reported the following event for Tom, 9 year old, 40 pound, neutered male Cocker Spaniel. 14 Aug 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (P62402AL) was applied between the shoulder blades. *17 Aug 2018: The dog experienced missing fur and redness at the application site. 23 Aug 2018: The pet presented to the vet clinic and no medication was prescribed. *7 Sep 2018: The dog recovered. Three cats in the in home experienced symptoms after the use of FRONTLINE PLUS FOR CATS, case numbers 18US061269, 18US061288, and 18US061278. No further medical information expected.
14-Sep-2018	UAE; 18US061255; MO; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **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	14-Jun-2018	14-Jun-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 14 September 2018, the owner reported the following event for a 4 year old, neutered male tabby (signalment unknown). 14 June 2018: One vial of FRONTLINE PLUS CATS (R40202AW) was applied to the cat. On an unknown date the cat experienced hair loss and irritation at the application site. No further medical information available.
14-Sep-2018	UAE; 18US061265; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 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**	14-Jun-2018*	14-Sep-2018	31 Day(s)	D-D	Suspected Adverse Event: On 14 Sept 2018 the pet owner reported the following event for Bentley, 1 year old, 70 pound, neutered male, Retriever(Labrador, Golden). 14 Aug 2018: The dog was itching and one vial of FRONTLINE PLUS FOR DOGS 45-88 LBS (LOT UNKNOWN) was applied between the shoulder blades. 14 Sept 2018: The dog itching and scratching increased and the dog developed bruising of the abdomen. The dog was taken to the vet and his current condition is unknown. The dog has been treated with the FL since June 2018. No further information at this time.

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						product used ok?: Unknown to Company					
14-Sep-2018	UAE; 18US061269; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 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	14-Aug-2018	15-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 14 Sep 2018 the pet owner reported the following event for Hope, 4 year old, 12 pound, neutered male, all other signalments unknown. 14 Aug 2018: 1 vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 15 Aug 2018: Cat experienced hair loss at the application site. 23 Aug 2018: The pet presented to the vet clinic and no medication was prescribed. *7 Sep 2018: The cat recovered. Three other pets in the in home experienced symptoms after the product, case numbers 18US061235, 18US061288 and 18US061278 No further medical information expected.
14-Sep-2018	UAE; 18US061278; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 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	14-Aug-2018	15-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 14 Sep the pet owner reported the following event for Mr. White, 5 year old, *12 pound, neutered male, all other signalments unknown. 14 Aug 2018: 1 vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 15 Aug 2018: Cat experienced hair loss at the application site. *17 Aug 2018: Pet experienced redness at the application site. 23 Aug 2018: Cat presented to the clinic and no medication was prescribed. *7 Sep 2018: The cat recovered. Three other pets in the in home experienced symptoms after the use of the product, case numbers 18US061235, 18US061269 and 18US061288. No further medical information expected.
14-Sep-2018	UAE; 18US061282; OH; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	25-Aug-2017*	04-Aug-2018	N/A	D-D	Suspected Adverse Event: On 14 September 2018, the owner reported the following event for a 72 pound dog (signalment unknown). 25 July 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (FL) (lot unknown) was applied to the dog. 4 Aug 2018: The dog started to itch. 25 Aug 2018: The dog was given another dose of FL. 14 Sept 2018: The dog had around 15-18 fleas. The dog is treated year round. No further medical information available.
14-Sep-2018	UAE; 18US061288; NY; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 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**	14-Aug-2018	15-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 14 Sep 2018 the pet owner reported the following event for Mr. Black, 4 year old, *12 pound, all other signalments unknown. 14 Aug 2018: 1 vial of FRONTLINE PLUS CATS (R41005AW) was applied between the shoulder blades. 15 Aug 2018: Cat experienced hair loss at the application site. *17 Aug 2018: Cat experienced redness at the application site. 23 Aug 2018: Cat presented to the clinic and no medication was prescribed. *7 Sep 2018: The cat recovered. Three other pets in the in home experienced symptoms after 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
						product used ok?: Yes					product, case numbers 18US061235, 18US061269 and 18US06178. No further medical information expected.
14-Sep-2018	UAE; 18US061320; GA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	10-Sep-2018	10-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 14 September 2018, the owner reported the following event for a 13 pound, cat (signalment unknown). 10 September 2018: The cat was itching and treated with FRONTLINE PLUS CATS (R41201AW) for the first time. The itching continues without the presence of fleas and on an unknown date the cat developed hairloss at the application site. No further medical information available.
14-Sep-2018	UAE; 18US061402; OH; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 8 lbs	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?:** Yes	14-Sep-2013*	14-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 14 Sep 2018 the pet owner reported the following event for Nikki, 7 year old, 8 pound, spayed female Domestic Shorthair. 14 Sep 2018: 1 vial of FRONTLINE PLUS CATS (S40117AW) was applied between the shoulder blades around 9:00 am. By 4:00 pm, the cat experienced yellow discoloration at the application site. Pet did not present to the clinic and the symptom is ongoing. The cat has been on FRONTLINE for the last *5 years. Three other cats in the home received an application of FRONTLINE and did not experience any symptoms. No medical information expected.
17-Sep-2018	UAE; 18US061455; NJ; U.S.A	**Species:** Canine **Breed:** Cairn Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 15 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	16-Sep-2007*	17-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Sep 2018 the pet owner reported the following event for Lily, 11 year old, 15 pound, spayed female Cairn Terrier. 16 Sep 2018: 1 vial of FRONTLINE PLUS DOG 5-22 (P61525AL) was applied between the shoulder blades. 17 Sep 2018: Dog experienced vomiting and defecated in her crate. The pet recovered. The dog did not present to the clinic. She has been using FRONTLINE monthly for the last 11 years. One other pet in the home used the same weight range product and did not experience symptoms. No further medical information expected.
17-Sep-2018	UAE; 18US061470; CA; U.S.A	**Species:** Canine **Breed:** Spaniel (Brittany) **Sex:** F **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 50 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**	16-Sep-2018	16-Sep-2018	0 Day(s)	D-B	Suspected Adverse Event: On 17 Sept 2018, the owner reported the following event for Stacey, 4 year old, 50 pound, spayed female, Brittany Spaniel canine. 16 Sept 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (P61407AR) was applied between the shoulder blades. After 12 hours the pet experienced vomiting, increased urination, and wobbly gait. The dog was not seen by a veterinarian or given any treatment. 17 Sept 2018: The symptoms are still ongoing. Veterinarian states that normally alert dog is acting reserved, is leaking urine, is unable to stand for more than a few seconds and collapses mainly in the hind limbs, seems to be trembling more than tremoring, is

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						ok?: Yes					possibly circling to the right and is curled often to the right, but otherwise appears fine. Dog has mild erythema at the Frontline application point on the dorsum in between the shoulder blades with no evidence of application in the ears or that the dog has been ingesting the product. Both ear canals are normal with normal appearing tympanic membranes. The dog has no nystagmus with normal pupilary light responses in both eyes. Dog is currently not taking any other medications and last received vaccinations in March 2018. Dog was started on Frontline due to a cat in the household bringing in fleas. Plan is to bathe the dog to remove any residual Frontline that hasn't translocated and to perform a CBC/chem/UA for baseline diagnostics. There are 2 other dogs in the household that also received the product and are asymptomatic. No further medical information is expected.
17-Sep-2018	UAE; 18US061535; NY; U.S.A	**Species:** Canine **Breed:** Pekingese **Sex:** F **Sex qualifier:** Unknown **Age:** 12.00 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?:** Unknown to Company	N/A	16-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 17 Sep 2018 the pet owner called to report the following event for Kita, a 12 year old, 14 pound, female, Pekinese/ Shih Tzu Mix. 14 Sep 2018*: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) (FL) was applied topically in an unknown manner. 16 Sep 2018*: Following the application the pet owner reported that there was an increase in the pet's scratching near her hindquarters. Fleas were also noticed on the pet's body. The pet was scratching before the FL was applied. The dog is in poor health, has been diagnosed with cancer and has a history of irritation due to fleas. No further medical information.
17-Sep-2018	UAE; 18US061556; CA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 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?:** Unknown to Company	01-Jul-2018*	01-Jul-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 17 Sep 2018, the following event was reported to Safety Call International (SCI) by a pet owner for Felix, an 11 year old, 13 pound, male neutered Domestic Shorthair. 1 Jul 2018*: Owner applied FRONTLINE (Unsubstantiated) (Lot and expiration unknown) and an unknown amount of time later Felix developed a very large scab on the back of his neck which had been bleeding all over. Owner stated that patient also lost 10 pounds. Felix did not present to the clinic and no treatment was started. His current condition is unknown. It is unknown if he had ever received FRONTLINE prior to this application or if he had fleas prior to administration. It is unknown whether Felix has any history of reactions or if he has received any additional medications or products. All further details are unknown. No further information at this time.
17-Sep-2018	UAE; 18US061562; MI; U.S.A	**Species:** Canine **Breed:** Harrier **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 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**	22-Aug-2018	23-Aug-2018	1 Day(s)	D-D	Suspected Adverse Event: On 17 Sept 2018, the owner reported the following event for a 1 year old, intact male, Harrier canine (all other signalments unknown). Unknown date: One vial of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) was applied between the shoulder blades. The pet experienced a chemical burn at the application site. 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. UPDATE 19 Sept 2018: The owner called to report Hockeye is a 48 pound canine. 22 Aug 2018: One 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
						ok?: Yes					23 Aug 2018: The dog experienced a burn at the application site. The dog was not seen by a veterinarian or given any treatment. 25 Aug 2018: The dog recovered. No further medical information is expected.
17-Sep-2018	UAE; 18US061706; OR; U.S.A	**Species:** Canine **Breed:** Mastiff **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 87 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-Jul-2018*	16-Jul-2018*	N/A	D-C	Suspected Adverse Event: On 17 Sep 2018, the owner reported the following event for Rowdy, an approximately 4 year old, 87 pound, neutered male, Mastiff/Retriever (Golden) mixed breed. 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. On an unknown date after the application, the dog started vomiting and had diarrhea. The symptoms were continuous and got worse over time. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. The dog was given another treatment around 16 Aug 2018 and 16 Sep 2018 and the symptoms continued. No further medical information expected.
17-Sep-2018	UAE; 18US061770; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	14-Sep-2018	14-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 17 Sept 2018, the owner reported the following event for Amis, 8 year old, 12 pound, neutered male, Feline (all other signalments unknown). 14 Sept 2018: One vial of FRONTLINE PLUS CATS (R4111AW) was applied between the shoulder blades. Immediately after, the pet experienced intense itching. 15 Sept 2018: The cat recovered. There are 3 other cats in the household that received FRONTLINE and experienced symptoms (see case 18US061930,18US061937,18US061994). No further medical information is expected.
17-Sep-2018	UAE; 18US061772; CA; U.S.A	**Species:** Canine **Breed:** Terrier Breeds (500 Series) **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 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	05-Sep-2018	07-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 17 Sep 2018 the owner reported the following event for Hannah, 6 year old, 17 pound, spayed female Terrier mix. 5 Sep 2018: One vial of FRONTLINE PLUS FOR DOGS 5-22LBS (R60830AL) was applied between the shoulder blades. *7 Sep 2018: Pet begin itching and scratching and pulling hair out. The dog was not seen by the Vet. No further information.
17-Sep-2018	UAE; 18US061832; PA; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** F **Sex qualifier:** Neutered **Age:** 1.00 Year(s) **Weight:** 54 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**	13-Jul-2018	16-Jul-2018*	N/A	D-C	Suspected Adverse Event: On 17 Sep 2018, the owner reported the following event for Brittany, a 1 year old, 54 pound, spayed female, Boxer. 13 Jul 2018: The dog started on 1 dose of FRONTLINE PLUS DOG 45-88 LBS (R61811AR) given to the dog topically, between the shoulder blades, by the owner. The dog had fleas prior to the application and was scratching. 16 Jul 2018*: The scratching increased and the dog had welts all over the body. 13 Aug 2018: The dog received another dose of the product. The symptoms were ongoing. 31 Aug 2018*: The symptoms stopped.

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						ok?: Yes					The dog was seen by a veterinarian and switched to a different product. The owner was applying alcohol to the dog's skin as treatment. No further medical information expected.
17-Sep-2018	UAE; 18US061880; OH; U.S.A	**Species:** Feline **Breed:** Bombay **Sex:** F **Sex qualifier:** Neutered **Age:** 8.50 Year(s) **Weight:** 5.2 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?:** Yes	13-Sep-2018*	14-Sep-2018	1 Day(s)	D-B	Suspected Adverse Event: On 17 Sep 2018, the owner reported the following event for Caliente, an 8.5 year old, 5.2 pound, spayed female, Bombay. 13 Sep 2018: 1 vial of FRONTLINE PLUS CATS (S40117AW) was given to the cat topically, between the shoulder blades, by the owner. It is unknown if this was the first dose applied. 14 Sep 2018: The cat became lethargic, not responsive, and not steady on her feet. The cat vomited and stopped eating and drinking. The cat was seen by a veterinarian and given fluid therapy (sodium chloride) and Cerenia. The symptoms are ongoing. No further medical information expected.
17-Sep-2018	UAE; 18US061904; LA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 2.00 Year(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	12-Sep-2018	13-Sep-2018	1 Day(s)	D-C	Suspected Adverse Event: On 18 September 2018, the owner reported the following event for Pearl, a 2 year old, 7 pound, spayed female Chihuahua. 12 September 2018: The dog was treated with one vial of FRONTLINE PLUS DOG 5-22 LBS (R60509AL) for the first time. 13 September 2018: The dog vomited 3 times, she was lethargic, had diarrhea, not eating or drinking, and she couldn't get up. 15 September 2018: The dog started to improve. 17 September 2018; The dog is lethargic and still not eating or drinking. The dog has not been seen by the vet and the owner is monitoring her. No further medical information available.
18-Sep-2018	UAE; 18US061915; NJ; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 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?:** Yes	04-Sep-2017*	07-Sep-2018*	3 Day(s)	D-B	Suspected Adverse Event: On 18 Sep 2018 the pet owner reported the following event for Noonie, 2 year old, 5 pound, neutered male, Chihuahua. *4 Sep 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied between the shoulder blades. *7 Sep 2018: The dog experienced a seizure, was feverish and had a lack of energy. Pet did not present to the clinic and symptoms are ongoing. Pet received his first dose of FRONTLINE last month. No further medical information expected.
18-Sep-2018	UAE; 18US061930; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Neutered **Age:** 8.00 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 / Cutaneous **Was the product used ok?:** Yes	14-Sep-2018	14-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for Tyler, 8 year old, 14 pound, spayed female, Feline (all other signalments unknown). 14 Sept 2018: One vial of FRONTLINE PLUS CATS (R4111AW) was applied between the shoulder blades. The cat experienced vomiting. The pet did not present to the clinic and no treatment was provided. 16 Sept 2018: The cat recovered. There are 3 other cats in the household that received FRONTLINE and experienced symptoms (see case 18US061770,18US061937,18US061944). No further medical information is expected.

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18-Sep-2018	UAE; 18US061937; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	14-Sep-2018	14-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for Kitt, 8 year old, 12 pound, neutered male, Feline (all other signalments unknown). 14 Sept 2018: One vial of FRONTLINE PLUS CATS (R4111AW) was applied between the shoulder blades. The cat experienced lethargy. The pet did not present to the clinic and no treatment was provided. 16 Sept 2018: The cat recovered. There are 3 other cats in the household that received FRONTLINE and experienced symptoms (see case 18US061770,18US061930,18US061944). No further medical information is expected.
18-Sep-2018	UAE; 18US061944; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	14-Sep-2018	14-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for Flooky, 8 year old, 12 pound, neutered male, Feline (all other signalments unknown). 14 Sept 2018: One vial of FRONTLINE PLUS CATS (R4111AW) was applied between the shoulder blades. The cat experienced lethargy. The pet did not present to the clinic and no treatment was provided. 16 Sept 2018: The cat recovered. There are 3 other cats in the household that received FRONTLINE and experienced symptoms (see case 18US061770,18US061930,18US061937). No further medical information is expected.
18-Sep-2018	UAE; 18US061948; FL; U.S.A	**Species:** Canine **Breed:** Retriever Labrador **Sex:** F **Sex qualifier:** Neutered **Age:** - **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?:** Unknown to Company	14-Sep-2018*	15-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for a, 50 pound, spayed female, Labrador Retriever canine (all other signalments unknown). 14 Sept 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (S60510) was applied topically at an unknown location. 15 Sept 2018*: The dog experienced vomiting, fever, and lethargy. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. There is one other dog in the household that also received the product and experienced symptoms (see case 18US062107). No further medical information is expected.
11-Sep-2018	UAE; 18US061984; OH; U.S.A	**Species:** Feline **Breed:** Feline mixed/various breeds **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	N/A	11-Sep-2018	20 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for Lily, 3 year old, intact female, Mixed breed feline. 22 Aug 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was applied between the shoulder blades. 11 Sept 2018: The cat experienced pruritis throughout the body. The cat was not seen by a veterinarian or given any treatment. The symptoms are still ongoing. The cat has received the product on prior unknown dates and no symptoms presented. There are 2 other cats in the household that also received the product and are experiencing symptoms (see case 18US060041, 18US061985). No further medical information is expected.
11-Sep-2018	UAE;	**Species:** Feline	1	1	0	**Product used:**	N/A	11-Sep-2018	20 Day(s)	D-D	Suspected Adverse Event: On 11 Sept 2018, the owner reported

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	18US061985; OH; U.S.A	**Breed:** Feline mixed/various breeds **Sex:** M **Sex qualifier:** Neutered **Age:** 2.00 Year(s) **Weight:** 7 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 Bobby, 2 year old, neutered male, Mixed breed feline. 22 Aug 2018: One vial of FRONTLINE PLUS CATS (R41206AW) was applied between the shoulder blades. 11 Sept 2018: The cat experienced pruritis throughout the body. The cat was not seen by a veterinarian or given any treatment. The symptoms are still ongoing. The cat has received the product on prior unknown dates and no symptoms presented. There are 2 other cats in the household that also received the product and are experiencing symptoms (see case 18US060041, 18US061984). No further medical information is expected.
18-Sep-2018	UAE; 18US062017; KS; U.S.A	**Species:** Canine **Breed:** Beagle **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 32 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 136MCG/326MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	01-Jan-2018*	17-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sep 2018 the veterinary technician reported the following event for Amber , 6 year old, 32 pound, spayed female, Beagle. *27 Aug 2018: 1 chew of HEARTGARD PLUS (136/114 MG) (lot and expiration unknown) was given to the dog. 17 Sep 2018: 1 vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied in between the shoulder blades, within 3 hours of application, the pet began to experience discomfort and was shaking. 18 Sep 2018: The dog experienced vomiting and was presented to the clinic. Bloodwork and x-rays were done and the pet was prescribed Amocillan and Tramadol. It is unknown when the first dose of FRONTLINE was given. Pet has been on HEARTGARD since March of last year. No further medical information is expected.
18-Sep-2018	UAE; 18US062021; TN; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 2.50 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	09-Sep-2017*	09-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 18 September 2018, the owner reported the following event for Buddy, a 2,5 year old, 12 pound, neutered male Domestic Shorthair. 9 September 2018: One vial of FRONTLINE PLUS CATS (FL) (R41206AW) was applied per label to the cat. Following the treatment the cat was chewing his belly and itching himself crazy. 14 September 2018: The cat is laying around and has a red spot at the application site. The cat has not been seen by the vet. The cat may have received FL in the past with no issues. There are several other treated cats in the home who did not have an issues. No further medical information available.
18-Sep-2018	UAE; 18US062106; WI; U.S.A	**Species:** Feline **Breed:** Maine Coon Cat **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 14 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** Fenbendazole; **Route:** Topical / Cutaneous	17-Sep-2004*	18-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 18 Sep 2018 the pet owner reported the following event for Bo, 15 year old, 14 pound, neutered male, Maine Coon Cat. *18 Mar 2018: Cat began taking Fenbendazole daily for hyperthyroidism. 17 Sep 2018: 1 vial of FRONTLINE PLUS CAT (lot unknown) was applied between the shoulder blades. 18 Sep 2018: Cat began experiencing lethargy and a lack of appetite. The pet did not present to the clinic and symptoms are ongoing. The Cat stated using FRONTLINE about *14 years ago. 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
						Was the product used ok?: Yes					
18-Sep-2018	UAE; 18US062107; FL; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** - **Weight:** 75 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	14-Sep-2018*	15-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for a 75 pound, nuetered male, Mixed breed canine (all other signalments unknown). 14 Sept 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (S60510) was applied topcially at a unknown location. 15 Sept 2018*: The dog experienced vomiting. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. There is one other dog in the household that also received the product and experienced symptoms (see case 18US061948). No further medical information is expected.
18-Sep-2018	UAE; 18US062131; MO; U.S.A	**Species:** Canine **Breed:** - **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 6 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Intranasal **Was the product used ok?:** No (Route not indicated / recommended)	18-Sep-2018	18-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: The following event was reported by the veterinarinan for a 6 pound canine, the remaining signalment unknown. 18 Sep 2018: Approximately 15 minutes prior to report, FRONTLINE PLUS DOG 0-22 LBS was given intranasally. The dog began to sneeze. No additional reaction was noted. No further information is expected.
18-Sep-2018	UAE; 18US062177; MA; U.S.A	**Species:** Canine **Breed:** Boxer **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 54 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** DA2PP vaccine; Unknown rabies 3-year vaccine; Unknown Oral Bordetella; IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 272MCG/652MG ; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	30-Jun-2018*	18-Sep-2018	3 Day(s)	D-D	Suspected Adverse Event: On 18 Sep 2018, the owner reported the following event for Leo, a 1 year old, 54 pound, intact male, Boxer. Apr 2018*: The dog started on 1 dose of HEARTGARD PLUS (272 MCG/227 MG) (7BC0573, 30 Sep 2020) given orally by the owner. The dog was treated monthly. Jun 2018*: The dog started on 1 dose FRONTLINE PLUS DOG 45-88 LBS (R61513AR) given to the dog topically between the shoulder blades, by the owner. Jul 2018*: The dog received another dose of the FRONTLINE PLUS. 1 Sep 2018*: The dog was given another dose of HEARTGARD PLUS. 11 Sep 2018: The dog received a DA2PP vaccine, unknown rabies 3-year vaccine, and unknown Oral Bordetella. 15 Sep 2018: The dog received another dose of FRONTLINE PLUS. 18 Sep 2018: The dog's skin was inflamed at the application site. The dog also had diarrhea. The owner was seen by a veterinarian and given Muricin antibiotic ointment. The 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
18-Sep-2018	UAE; 18US062187; OH; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 Year(s) **Weight:** 7 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	15-Sep-2016*	15-Sep-2018	N/A	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for Benjie, 3 year old, 7 pound, neutered male, Mixed Breed canine. 15 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. The pet experienced itching and alopecia throughout the body. 18 Sept 2018: Symptoms are still ongoing. There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.
18-Sep-2018	UAE; 18US062202; PA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 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	N/A	16-Sep-2018	0 Day(s)	D-C	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for Cody, 7 year old, 10 pound, neutered male, Yorkshire Terrier canine. 16 Sept 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P60208AL) was applied between the shoulder blades. The pet experienced lameness in one of the hind legs. 17 Sept 2018: The pet also experienced lameness in the second hind leg. The pet did not present to the clinic and no treatment was provided. 18 Sept 2018: Symptoms are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
18-Sep-2018	UAE; 18US062203; AZ; U.S.A	**Species:** Canine **Breed:** Queensland Terrier **Sex:** M **Sex qualifier:** - **Age:** 13.00 Year(s) **Weight:** 70 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	14-Sep-2018	15-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 19 Sep 2018, the owner reported the following event for Buddy, a 13 year old, 70 pound, intact male, Queensland Terrier. 14 Sep 2018: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (S60211AR) was given to the dog topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. 15 Sep 2018: The dog started itching. The owner did not seeing any fleas or ticks. It is unknown if the dog was seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected. UPDATE 20 Sept 2018: The owner called to report one vial was applied between the shoulder blade on 14 Sept 2018. This was the first application. The pet was not seen by a veterinarian or given any treatment. 20 Sept 2018: The symptoms improved but are still ongoing. There is one other dog in the household that also received the product as is asymptomatic. No further medical information expected.
18-Sep-2018	UAE; 18US062228; MI; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** Unknown	5	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	03-Sep-2018*	03-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sep 2018, the owner reported the following event for an unknown feline (all signalments unknown). 3 Sep 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first application. On an unknown date after the application, the cat had a rash in an unspecified location. It is unknown if the cat was seen by a veterinarian or given any

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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?:** Unknown to Company					treatment. The cat's current status is unknown. No further medical information expected.
18-Sep-2018	UAE; 18US062229; PA; U.S.A	**Species:** Canine **Breed:** West Highland White **Sex:** U **Sex qualifier:** Unknown **Age:** - **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	12-Sep-2017*	13-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 18 September 2018, the owner reported the following event for a 18 pound, West Highland White (signalment unknown). 12 September 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied to the dog. On an unknown date the dog developed skin irritation at the application site. The dog has been on FL for an unknown length of time. No further medical information available.
18-Sep-2018	UAE; 18US062252; CA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** 15.00 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	18-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 18 Sept 2018, the owner reported the following event for a 15 year old, Feline (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topcially at an unknown location. The pet experienced hypersalivation. It is unknown if the pet was seen by a veterinarian or given any treatment. The status of the pet is unknown. The cat has a history of heart and kidney disease. No further medical information is expected.
19-Sep-2018	UAE; 18US062334; TX; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 10 lbs	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	05-Sep-2017*	17-Sep-2018	12 Day(s)	D-D	Suspected Adverse Event: On 19 Sept 2018, the owner reported the following event for 2, 10 pound, Yorkshire Terrier canine (all other signalments unknown). 5 Sept 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically at an unknown location. 17 Sept 2018: Fleas were found on the pets. The dogs experienced pruritus throughout the body. It is unknown if the pets were seen by a veterinarian or given any treatment. 19 Sept 2018: Symptoms are still ongoing. The dogs have received the product since 5 Sept 2017*. It is unknown if symptoms presented prior. No further medical information is expected.
20-Sep-2018	UAE; 18US062460; MO; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** U **Sex qualifier:** Unknown **Age:** 11.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	19-Sep-2018*	19-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 19 Sept 2018, the owner reported the following event for a Shih Tzu 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 an issue with a front leg. It is unknown if the pet was presented to the clinic or given any treatment. The status of the pet is unknown. 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
						Cutaneous **Was the product used ok?:** Unknown to Company					
19-Sep-2018	UAE; 18US062483; MN; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 9.00 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	19-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 19 Sept 2018, the owner reported the following event for Keke, 9 year old, neutered male, Domestic Longhair feline (all other signalments unknown). 19 Sept 2018: One vial of FRONTLINE PLUS CATS (R40601AW) was applied between the shoulder blades. The cat licked the product and began hypersalivating. The pet was not seen by a veterinarian or given any treatment. The symptoms improved, but are still ongoing. The pet has received the product on prior unknown dates and no symptoms presented. No further medical information is expected.
20-Sep-2018	UAE; 18US062546; -; 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	20-Sep-2018*	20-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 Sep 2018, the owner reported the following event for an unknown feline (all other signalments unknown). 20 Sep 2018: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically (unknown site of application), by the owner. It is unknown if this was the first dose applied. Approximately 4 minutes later, the cat was foaming at the mouth. It is unknown if the cat licked the product. The cat was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
20-Sep-2018	UAE; 18US062796; IL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **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	29-May-2018	30-Aug-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 20 Sept 2018, the owner reported the following event for a Shih Tzu canine (all other signalments unknown). 29 Aug 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. Unknown date: The fleas issue persisted. The pet experienced itching. 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 29 May 2018 and no symptoms presented. There is one other dog in the household that also received the product and is asymptomatic. No further medical information is expected.
20-Sep-2018	UAE; 18US062890; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 13.00 Year(s) **Weight:** 20 lbs*	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical /	16-Aug-2018*	17-Aug-2018*	N/A	D-A	Suspected Adverse Event: On 20 September 2018, the owner reported the following event for Zachary,a 13 year old, 20 pound, neutered male cat (breed unknown by owner). *16 August 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was topically applied to the cat. *17 August 2018: The cat seemed lethargic and his appetite started to change. The symptoms continued to the next dose. 16 September 2018: The cat was treated again. 17 September 2018: The cat passed away.

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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					The reporter is not sure if FL was given to the cat in the past. The cat was not seen by the vet, no further medical information available.
20-Sep-2018	UAE; 18US062912; NY; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **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-Sep-2018*	20-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 20 September 2018, the owner reported the following event for a Yorkie (signalment unknown). *20 September 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62412AL) was applied to the dog. On an unknown date the dog vomited. No further medical information is known.
20-Sep-2018	UAE; 18US062917; OH; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	12-Sep-2018	13-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 20 September 2018, the owner reported the following event for a 5 pound cat (signalment unknown). 12 September 2018:The cat had fleas and one vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat for the first time. On an unknown date the cat started to itch and scratch without the presence of fleas. No further information is known.
20-Sep-2018	UAE; 18US062920; OH; U.S.A	**Species:** Canine **Breed:** Poodle (Miniature) **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 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?:** Unknown to Company	20-Sep-2018	20-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 20 September 2018, the owner reported the following event for Bruno, a 3 year old, 11 pound, neutered male Poodle (miniature). 20 September 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R62514BL) was topically applied per label to the dog for the first time. Immediately the owner noticed scratching, swelling of the skin, and redness. The dog has not been seen by the vet and the owner is monitoring the dog's condition. No further medical information available.
21-Sep-2018	UAE; 18US062937; IN; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** M **Sex qualifier:** Neutered **Age:** 12.00 Year(s) **Weight:** 12 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical /	01-Aug-2015*	21-Sep-2017*	N/A	D-A	Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Kudjoe, 12 year old, 12 pound, nuetered male, Chihuahua Canine. 1 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. 2 Aug 2018*: The dog experienced seizure. The pet had a blank stare and was unable to move for a few minutes (It is unknown to the owner when the symptoms started). 21 Aug 2018*: The dog passed away.

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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					The dog has received the product on and off for several years . The pet was diagnosed with cancer about 1 year ago. No further medical information is expected.
24-Sep-2018	UAE; 18US062990; OH; U.S.A	**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	21-Sep-2018	21-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for two mixed breed dogs (signalment unknown). *21 September 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (S60620AR) was applied to each dog. On an unknown date the dogs skin was pink at the application site. No further medical information is known.
21-Sep-2018	UAE; 18US063071; CO; U.S.A	**Species:** Canine **Breed:** Dachshund **Sex:** M **Sex qualifier:** Neutered **Age:** 3.00 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	20-Sep-2017*	21-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 21 Sep 2018, the owner reported the following event for Milo, a 3 year old, 18 pound, neutered male, Dachshund. 20 Sep 2018: One vial of FRONTLINE PLUS FOR DOGS 5-22 LBS (P62719AL) was applied between the shoulder blades. 21 Sep 2018: The pet presented with white flakes localized to the site of application on the dog's black hair coat. The dog has not been seen by the veterinarian and the symptoms are ongoing. The dog has received one previous application on an unknown date and the pet experienced the same symptoms. There is another dog in the household receiving the FRONTLINE with no adverse symptoms. No further medical information expected.
21-Sep-2018	UAE; 18US063072; MI; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 Year(s) **Weight:** 5 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	20-Sep-2018	20-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 21 Sep 2018 the veterinary technician reported the following event for Riley, 8 year old, 5 pound, neutered male, Yorkshire Terrier. 20 Sep 2018: 1 vial of FRONTLINE PLUS 5-22 LBS (lot and expiration unknown) was given orally with unknown dog food. 1 chew of HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration date unknown) was also given to the pet at the same time within 2 hours, the dog experienced lethargy. 21 Sep 2018: Pet did present to the clinic but has not received any treatment at this time. No further medical information is known.
21-Sep-2018	UAE; 18US063081; MO; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** M **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	09-Sep-2017*	10-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for 17 pound male dog (signalment unknown). 9 September 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was topically applied to the dog.

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		Unknown **Age:** - **Weight:** 17 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					On an unknown date the dog got fleas and itching himself raw. No further medical information available.
21-Sep-2018	UAE; 18US063199; NY; U.S.A	**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:** Topical / Cutaneous **Was the product used ok?:** Yes	21-Jul-2018	28-Jul-2018*	1 Week(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for 2 Chihuahuas (signalment unknown). 21 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P61304AL) was applied to each dog. 25 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P61304AL) was applied to each dog. On an unknown date the dogs started to itch themselves to rawness and developed hot spots. No further medical information available. UPDATE 26 Sep 2018: The owner reported the following for 2 Chihuahuas (signalment unknown). 28 Jul 2018*: The dogs had skin irritation from itching on their bellies, inside the legs, on the tail, and sides. The skin was red and bleeding. The dogs were not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
21-Sep-2018	UAE; 18US063200; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 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?:** Unknown to Company	21-Sep-2014	22-Jul-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Kitty Boy Floyd, 5 year old, 12 pound, neutered male, Domestic Shorthair Feline. 21 Jul 2018*: One vial of FROTNLINE PLUS CATS (R40711AW) was applied between the shoulder blade. 22 Jul 2018*: The cat experienced hair loss and irritation at the application site. The pet was seen by a veterinarian and no treatment was provided. 21 Sept 2018: Symptoms are still ongoing. The pet has received the product since 21 Sept 2014. The same symptoms presented. The pet would recover on an unknown date. There is one other cat in the household that received the product and experienced symptoms (see case 18US064880) No further medical information is expected.
21-Sep-2018	UAE; 18US063226; IA; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 1.00 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	31-Jul-2018	14-Sep-2018	2 Week(s)	D-D	Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Oscar, 1 year old, 10 pound, neutered male, Domestic Longhair feline. 31 Aug 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 14 Sept 2018: The cat experienced hair loss at the application site. 21 Sept 2018: The symptoms are still ongoing. There is one other cat in the household that also received the product and experienced The pet also received the product on 31 Jul 2018 and no symtoms presented. No further medical information is expected.

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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
21-Sep-2018	UAE; 18US063347; CA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:** Neutered **Age:** 10.00 Year(s) **Weight:** 80 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Fiprotrol; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	14-Sep-2018	16-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for a 10 year old, 80 pound, spayed female Golden Retriever. 14 September 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (FL) (P60705AR) was applied to the dog. *16 September 2018: The dog started to itch without the presence of fleas. The dog was using Fiprotrol prior to the FL application. No further medical information available.
21-Sep-2018	UAE; 18US063348; MA; U.S.A	**Species:** Canine **Breed:** Poodle (Toy) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 Year(s) **Weight:** 12.5 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?:** Yes	01-Sep-2015	02-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for Teddy, a 4 year old, 12.5 pound, neutered male Poodle (Toy). 1 September 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (P62015AL) was topically applied to the dog per label. 2 September 2018: The dog developed a chemical burn at the site of application. 21 September 2018: The dog was seen by the vet, but no treatment was given The dog has been on FL all his life with no issues. No further medical information available.
24-Sep-2018	UAE; 18US063399; KY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	01-Sep-2018*	01-Sep-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 24 September 2018, the owner reported the following event for A 13 pound Domestic Shorthair (signalment unknown). *1 September 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was topically applied to the cat. On an unknown date, the cat experienced weight loss and lethargy. No further medical information available.
24-Sep-2018	UAE; 18US063414; VA; U.S.A	**Species:** Canine **Breed:** Welsh Corgi **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 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	14-Jul-2016	20-Sep-2018	6 Day(s)	D-D	Suspected Adverse Event: On the 24 Sep 2018, a veterinarian reported the following event for Skippy, a 23 pound, 5 year old (born 20 May 2013), neutered male, Welsh Corgi. 14 Jul 2016: The dog started on FRONTLINE PLUS 23-44 LBS (lot and expiry unknown) without any issues. 14 Sep 2018: The pet owner the most recent dose of FRONTLINE, 1 vial, topically between the shoulder blades. 20 Sep 2018: The owner noticed an acute moist dermatitis where the FRONTLINE PLUS was applied on the right shoulder lateral to midline. 21 Sep 2018: The patient presented to the clinic with ongoing symptoms. The veterinarian treated the dog with injectable Dexamethasone SP and sent the dog home Cephapodoxime, Neo-Pred topical powder and Chlohexadine scrub.

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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 symptoms are ongoing. This dog does have a history of suffering from seasonal allergies. The veterinarian reported another reaction see case 18US063411. No further medical information expected.
24-Sep-2018	UAE; 18US063419; NY; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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?:** Unknown to Company	24-Sep-2018*	24-Sep-2018*	0 Day(s)	D-C	Suspected Adverse Event: On 24 September 2018, the owner reported the following symptoms for JC, an 8 year old 12 pound, neutered male Domestic Longhair. *24 September 2018: One vial of FRONTLINE PLUS CATS (R41212AW) was applied to the cat. On an unknown date the cat started itching, scratching, eating his skin raw, and has lost weight. The owner declined the report. No further medical information available.
24-Sep-2018	UAE; 18US063472; IL; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (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	01-Jan-2016	23-Sep-2018	3 Day(s)	D-D	Suspected Adverse Event :On 24 Sep 2018, the owner reported the following event for the Feline named Spooky, 7-8 year old*, 15 pound*, neutered, male Domestic Longhair Crossbreed. 20 Sep 2018: One vial of the FRONTLINE PLUS CATS (R40101AW) was applied topically between the shoulder blades. 23 Sep 2018: The pet had symptoms of hair loss and skin irritation. The owner noticed the pet had an area of hair loss where the product was applied. The pet was not presented to a clinic. The pet has been receiving the FRONTLINE PLUS CATS since 1 Jan 2016. 28 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.
21-Sep-2018	UAE; 18US063527; MD; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** U **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	18-Sep-2018*	18-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 21 September 2018, the owner reported the following event for a 5 year old, Domestic Longhair (all other signalments unknown). *21 September 2018: The cat received one vial of FRONTLINE PLUS CATS (M41207AW). On an unknown date the cat stopped using the litter box, had a decreased appetite and was lethargic for a few days. The cat's current condition is unknown, no further information is known.
24-Sep-2018	UAE; 18US063586; GA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 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	01-Sep-2016*	01-Sep-2016*	0 Day(s)	D-D	Suspected Adverse Event: On 24 Sept 2018, the owner reported the following event for Toby, 4 year old, 12 pound, neutered male, mixed breed canine. 1 Sept 2016*: One vial of FROTNLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. The pet became hyperactive and experienced redness at the application site. The pet was not seen by a veterinarian of given any treatments. The pet recovered that day. 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
						Was the product used ok?: Yes					
24-Sep-2018	UAE; 18US063688; CO; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 13 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** unknown rabies vaccine; **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company	22-Sep-2018	22-Sep-2018	0 Day(s)	D-C	Suspected Adverse Event: On 24 Sept 2018, the owner reported the following event for a Domestic Longhair (other signalment unknown). 22 Sept 2018: One vial of FRONTLINE PLUS CATS (M40406AW) was applied to the cat and the cat was given an unknown rabies vaccine at the clinic. Two hours later, the cat's ears and head started to twitch. The cat was fly biting and drooling excessively. No further medical information available. UPDATE 08 Oct 2015: On 5 Oct 2018, the pet owner reported the following information for Umbreon, a 5 year old, 13 pound, netuered male, Domestic Longhair. 22 Sep 2018: Following the presentation of symptoms, the cat was given Benadryl, a subdermal patch, an unknown anti-itch medication and the site of application was wiped to remove the product. In addition to the symptoms noted, the pet owner also reported that the cat was lethargic. The cat is in good health outside of the symptoms noted. 25 Sep 2018: The cat fully recovered. No further medication information expected.
24-Sep-2018	UAE; 18US063717; NJ; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** F **Sex qualifier:** - **Age:** 12.00 Week(s) **Weight:** 6 lbs	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	20-Aug-2018	22-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 21 Sep 2018, the owner reported the following event for two 6 pound*, 12 week old* unknown, intact felines that are both domestic Shorthairs. 22 Sep 2018: One vial of the FRONTLINE PLUS CATS (S40101BW) was applied topically between the shoulder blades. The kittens began to become lethargic that afternoon. The owner started applying the product back in 20 Aug 2018. 23 Sep 2018: The kittens recovered from the symptoms the next day. The pets were not presented to a vet while the symptoms were occurring.No further medical information is expected.
24-Sep-2018	UAE; 18US063746; GA; 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	24-Sep-2018*	24-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 24 Sept 2018, the owner reported the following event for a Feline (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS CATS (lot unknown) was applied topically at an unknown location. The pet experienced itching. 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.
24-Sep-2018	UAE; 18US063810; NY; U.S.A	**Species:** Canine **Breed:** Mixed Breeds / various **Sex:** M **Sex qualifier:**	3	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	10-Sep-2017	17-Sep-2018	1 Week(s)	D-D	Suspected Adverse Event: On 24 Sept 2018, the owner reported the following event for Duke, 7 year old, 50 pound, neutered male, Mixed Breed canine. 10 Sept 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) 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
		Neutered **Age:** 7.00 Year(s) **Weight:** 50 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					between the shoulder blades. 17 Sept 2018: The flea activity persisted. The dog experienced itching. The pet was not seen by a veterinarian or given any treatment. 24 Sept 2018: The symptoms are still ongoing. There are 3 other dogs in the household that also received the product. One of those dogs also experienced symptoms (see case 18US064905). No further medical information is expected.
25-Sep-2018	UAE; 18US063826; NC; U.S.A	**Species:** Canine **Breed:** Shetland Sheep Dog (Sheltie) **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	05-Sep-2018	05-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 25 September 2018, the owner reported the following event for a Shetland Sheep Dog of unknown signalment. 5 September 2018: The dog had fleas and one vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was topically applied to the dog. On an unknown date the dog chewed its tail bloody. No further medical information available.
25-Sep-2018	UAE; 18US063856; MD; U.S.A	**Species:** Canine **Breed:** American Bully **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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?:** No (Treatment / vaccination program not respected)	22-Sep-2018	15-Sep-2018	N/A	D-B	Suspected Adverse Event:On 25 Sep 2018, the owner reported the following event for the canine Boomer, an 8 year old, 100 pound, Neutered Male, American Bulldog. 22 Sep 2018: One vial of FRONTLINE PLUS DOG 89-132 LBS (Lot and Expiration Unsubstantiated) was applied between the shoulder blades and along the back. Shortly after receiving the product the pet began to exhibit anaphylaxis and was presented to an emergency clinic when symptoms had started to subside. The pet recovered the same day. UPDATE 23 Oct 2018: Per the patient's medical records, a grade 1-2/6 soft, systolic cardiac murmur was auscultated by the patient's primary care veterinarian on 28 Mar 2018. On presentation to the emergency clinic on 15 Sep 2018, the patient's pulse rate was 200, his mucous membranes were light pink and severe tachycardia was auscultated with no murmur noted. The heart rate was between 180 and 240 bpm. Thoracic radiographs showed no effusion and no pulmonary infiltrates where noted. The cardiac silhouette was noted to be WNL or possibly decreased in size. The Vena Cava appeared small. An aFAST ultrasound was done an a small amount of free abdominal fluid was seen in the ventral abdomen. On abdominocentesis, the fluid was noted to be blood tinged. No pericardial fluid was seen. The diagnosis at the emergency hospital was ventricular tachycardia. The owner declined further workup and the patient was discharged without any hospitalization. The primary care veterinarian recheck the patient on 19 Sep 2018 and his heart rate was 112 bpm and rhythm was noted to be regular and pulses normal. No further medical information is expected.
25-Sep-2018	UAE; 18US063977; MA; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** F **Sex qualifier:**	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON	01-Jul-2015*	04-Jul-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for Sadie, 10 year old, 50 pound, spayed female, Golden Retriever canine. 1 Jul 2018*: One vial of FRONTLINE PLUS DOG 45-88 LBS (R61811AR) was applied topically between the shoulder blade

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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
		Neutered **Age:** 10.00 Year(s) **Weight:** 50 lbs				**Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					4 Jul 2018*: The dog experienced pruritus and irritation at application site. 17 Sept 2018: The pet presented to the clinic and was treated with Doxycycline. 19 Sept 2018: The dog recovered. The pet received the product since 1 Jul 2015* and no symptoms presented. No further medical information is expected.
25-Sep-2018	UAE; 18US064022; IL; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** M **Sex qualifier:** Neutered **Age:** 8.00 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	01-Jan-2013*	01-Jan-2013*	0 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for Bailey, 8 year old, 15 pound, neutered male, Shih Tzu canine. Unknown date: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. Immediately after the pet became very hyperactive. The pet was not seen by a veterinarian or given any treatment. The pet recovered after 1 hour. No further medical information is expected.
25-Sep-2018	UAE; 18US064047; PA; U.S.A	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 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?:** Yes	01-Jan-2009*	24-Aug-2018*	15 Day(s)	D-D	Suspected Adverse Event:On 25 Sep 2018, the owner reported the following event for the Canine named Mimi, 9 year old, 5 pound, Spayed, Female Yorkshire Terrier. 9 Aug 2018: One vial of the FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied topically between the shoulder blades. 24 Aug 2018*: The pet had symptoms of hair loss. The groomer noticed the pet had an area of hair loss where the product was applied. The pet was not presented to a clinic. The pet has been receiving the FRONTLINE PLUS DOG 5-22 LBS off and on for about 9 years. 25 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.
25-Sep-2018	UAE; 18US064088; AZ; U.S.A	**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?:** Unknown to Company	25-Sep-2018	25-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for a Border Collie canine (all other signalments unknown). Unknown date: The pet has an ongoing issue with chewing lice. An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically. The pet 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. There are 2 other dogs in the household that received the product and experienced symptoms (see case 18US064899). No further medical information is expected.
21-Sep-2018	UAE; 18US064111; IN; U.S.A	**Species:** Feline **Breed:** Bombay **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 11 lbs	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other	01-Jun-2007*	01-Jan-2018*	N/A	D-A	Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Bear Bear, 11 year old, 11 pound, neutered male, Bombay Feline. 1 Apr 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 2 Apr 2018*: The cat began pulling hair out. 30 Apr 2018*: The cat passed away.

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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
						products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					The cat has received the product sporadically on prior unknown dates since a kitten. No symptoms presented previously. The cat was diagnosed with cancer on an unknown date. There is one other cat in the household that also received the product and experienced symptoms (see case 18US064320). No further medical information is expected.
25-Sep-2018	UAE; 18US064200; VA; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** F **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	18-Jul-2018	25-Sep-2018*	9 Day(s)	D-D	Suspected Adverse Event: On 25 September 2018, the owner reported the following event for a 19 pound, female cat (signalment unknown). 16 September 2018: The cat had fleas and one vial of FRONTLINE PLUS CATS (lot unknown) was applied to the cat per label. On an unknown date the cat developed a snotty nose and congestion, and she chewed her fur from her paws. The cat has received FL from July-September 2018. No further information available.
25-Sep-2018	UAE; 18US064203; CA; U.S.A	**Species:** Canine **Breed:** Chihuahua **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 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	18-Sep-2015*	18-Sep-2018	0 Day(s)	D-B	Suspected Adverse Event: On 25 Sep 2018 the pet owner reported the following event for Edge, 9 year, 13 pound, spayed female, Chihuahua. 18 Sep 2018: 1 vial of FRONTLINE PLUS DOG 5-22 LBS (L62502AL) was applied between the shoulder blades and almost immediately the dog became still, laid down and experienced labored breath. Pet owner gave the dog a bath. *20 Sep 2018: The dog recovered. The pet did not present to the clinic. The dog has been on FRONTLINE since *18 Sep 2015. No further medical information expected.
25-Sep-2018	UAE; 18US064238; NY; U.S.A	**Species:** Canine **Breed:** Cockapoo **Sex:** M **Sex qualifier:** Neutered **Age:** 15.00 Year(s) **Weight:** 26 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-Sep-2016*	04-Jun-2018*	3 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for a Canine (all other signalments unknown). Unknown date: An unknown amount of FRONTLINE PLUS DOG 23-44 (P62207AL) was applied at an unknown location. A couple days later the pet experienced increased itching. 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. UPDATE 28 Sept 2018: On 28 September 2018, the owner reported the following event for Coco, a 15 year old, 26 pound, neutered male Cockapoo. *1 June 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (FL) (P62207AL) was applied to the dog per label. *4 June 2018: The dog started to itch more without the presence of fleas. Per the owner the dog has an "itch issue" but the itching significantly increased after FL. The dog has been on FL for years and the owner is not sure if the dog has had any past reactions. The dog was not seen by the vet and the owner is monitoring his ongoing condition. No further medical information available.
25-Sep-2018	UAE; 18US064311;	**Species:** Canine **Breed:** Rottweiler	1	1	0	**Product used:** FIPRONIL	N/A	14-Sep-2018	2 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for Chuchu, 5 year old, 80 pound, neutered

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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
	OR; U.S.A	**Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 Year(s) **Weight:** 80 lbs				10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Unknown to Company					male, Rottweiler canine. 12 Sept 2018*: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied between the shoulder blades. 14 Sept 2018*: The dog experienced itching and rash around the base of the tail. The pet was not presented to the clinic or given any treatment. The pet has received the product on prior unknown dates and no symptoms presented.There is one other dog in the household that also received the product and experienced symptoms (see case 18US064312). No further medical information is expected.
25-Sep-2018	UAE; 18US064312; OR; U.S.A	**Species:** Canine **Breed:** Rottweiler **Sex:** M **Sex qualifier:** Neutered **Age:** 6.00 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	N/A	14-Sep-2018*	2 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for Rocky, 6 year old, 120 pound, neutered male, Rottweiler canine. 12 Sept 2018*: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied between the shoulder blades. 14 Sept 2018*: The dog experienced itching and rash throughout the body. The pet was not presented to the clinic or given any treatment. The pet has received the product on prior unknown dates and no symptoms presented .There is one other dog in the household that also received the product and experienced symptoms (see case 18US064311). No further medical information is expected.
21-Sep-2018	UAE; 18US064320; IN; U.S.A	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **Sex qualifier:** Neutered **Age:** 10.00 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	N/A	02-Apr-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Midnight, 10 year old, 10 pound, neutered male, Feline (all other signalments unknown). 1 Apr 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 2 Apr 2018*: The cat began itching and pulling hair out. 21 Sept 2018: Symptoms are still ongoing. The cat has received the product sporadically on prior unknown dates. No symptoms presented previously. There is one other cat in the household that also received the product and experienced symptoms (see case 18US064111). No further medical information is expected.
26-Sep-2018	UAE; 18US064487; MI; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** M **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 56 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	23-Sep-2018	24-Sep-2018	1 Day(s)	D-A	Suspected Adverse Event: On 26 Sep 2018, the owner reported the following event for Colby, an 11 year old, 56 pound, neutered male, Pit Bull. 23 Sep 2018: The dog started on an unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) given topically (unknown site of application), by the owner. 24 Sep 2018: The dog was severely vomiting, very lethargic, and couldn't walk (legs were stiff). 26 Sep 2018: The dog died. The dog was not seen by a veterinarian or given any treatment. No further medical information expected.
26-Sep-2018	UAE; 18US064629; MO; U.S.A	**Species:** Canine **Breed:** Pomeranian	1	1	0	**Product used:** FIPRONIL 10%/S	01-Jul-2018*	01-Aug-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 26 Sep 2018, the receptionist reported the following event for Griswald, a 16 pound, 6 year old (born 7 Feb 2012), neutered male Pomeranian and Pug mix.

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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:** Neutered **Age:** 6.00 Year(s) **Weight:** 16 lbs				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					Aug 2018*: Griswald received 1 dose of FRONTLINE PLUS DOG 5-22 LBS (P61310AL) applied topically between the shoulders, and soon after application seemed uncomfortable and acted like he did not like the product on his skin. He recovered an unknown amount of time later without treatment. The dog had the same reaction after the first application in Jul 2018. No further medical information expected.
26-Sep-2018	UAE; 18US064657; WA; U.S.A	**Species:** Canine **Breed:** Small crossbred (<10 Kg) **Sex:** F **Sex qualifier:** Neutered **Age:** 7.00 Year(s) **Weight:** 12.2 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Iverhart Plus; **Route:** Topical / Cutaneous **Was the product used ok?:** No (Treatment / vaccination program not respected)	01-Apr-2011*	01-Aug-2017*	0 Day(s)	D-D	Suspected Adverse Event: On 26 Sep 2018, the owner reported the following event for Toto, a 7 year old, 12.2 pound, spayed female, Small Crossbreed (<10kg). Apr 2011*: The dog started on 1 vial of FRONTLINE PLUS DOG 0-22 LBS (lot unknown, product unsubstantiated) given to the dog topically, from the shoulder blades to the tail, by the owner. The dog was treated monthly on a year round basis. 12 Jul 2014*: The dog started on Iverhart Plus. Aug 2017*: The dog received the last dose of the FRONTLINE PLUS. The dog also received a dose of Iverhart Plus. After the application, the dog had a decreased appetite and was itchy. The dog recovered after approximately 2-3 days. The dog was not seen by a veterinarian or given any treatment. The dog had the same symptoms after each dose given. The dog had symptoms using NEXGARD (see case 18US064652). No further medical information expected.
26-Sep-2018	UAE; 18US064688; IA; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **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-Jan-2018*	16-Sep-2018	2 Day(s)	D-C	Suspected Adverse Event: On 26 Sep 2018 the pet owner reported the following event for Turbo, 12 year old, *12 pound, neutered male, Domestic Shorthair. 14 Sep 2018: 1 vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. 16 Sep 2018: Cat began to experience increased itching and drinking, weight loss and decreased socialization. Pet did not present to the clinic and symptoms are ongoing. The cat has been on FRONTLINE since the beginning of this year. Another cat in the come is using the same product and did not experience symptoms after use. Cat has pre-existing breathing condition. No further medical information expected.
27-Sep-2018	UAE; 18US064795; WI; U.S.A	**Species:** Canine **Breed:** Retriever (Labrador, Yellow) **Sex:** F **Sex qualifier:** Neutered **Age:** 11.00 Year(s) **Weight:** 56 lbs	2	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** Famotidine; unknown meloxicam; gabapentin; Levothyroxine; **Route:** Topical / Cutaneous	01-Sep-2008*	02-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 27 September 2018, the owner reported the following event for Mattie, an 11 year old, 56 pound, spayed female Yellow Lab. 1 September 2018: One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied per label to the dog. 2 September 2018: The dog has inflammation and redness at the site of application. The owner washed the dog and is monitoring her condition. The dog has been on FL as needed for the past 10 years with no issues. The dog takes Levothyroxine for thyroid, meloxicam (brand name unknown) and gabapentin for hip pain due to hip dysplasia and metal plates in her back legs and she takes Famotidine for acid reflux. She has been on the other medications for 2 years with no issues. There is one other treated dog in the home who did not have any issues after being treated. 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
						Was the product used ok?: Yes					available.
27-Sep-2018	UAE; 18US064880; NY; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 4.00 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	21-Sep-2014*	23-Aug-2018	2 Day(s)	D-D	Suspected Adverse Event: On 27 Sept 2018 , the owner reported the following event for Buddy, 4 year old, 8 pound, neutered male, Domestic Shorthair Feline. 21 Aug 2018: One vial of FRONTLINE PLUS CATS (R40711AW) was applied between the shoulder blades. 23 Aug 2018: The cat experienced hair loss at the application site. The cat was not presented to the clinic and no treatment was provided. 26 Aug 2018*: The cat recovered. The cat has received the product monthly since 21 Sept 2014 and the same symptoms and recovery occur. There is one other cat in the household that received the product and experienced symptoms (see case 18US063200). No further medical information is expected.
25-Sep-2018	UAE; 18US064899; AZ; U.S.A	**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	0 Day(s)	D-D	Suspected Adverse Event: On 25 Sept 2018, the owner reported the following event for 2 Mixed Breed canines (all other signalments unknown). Unknown date: The pets experienced an ongoing issue with chewing lice. An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied topically. The pets experienced itching. It is unknown if the pets presented to the clinic or if any treatment was provided. The status of the pets is unknown. There is 1 other dog in the household that received the product and experienced symptoms (see case 18US064088). No further medical information is expected.
27-Sep-2018	UAE; 18US064905; NY; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 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	10-Sep-2017	17-Sep-2018	1 Week(s)	D-D	Suspected Adverse Event: On 24 Sept 2018, the owner reported the following event for Buddy, 7 year old, 50 pound, neutered male, Mixed Breed canine. 10 Sept 2018: Fleas were seen on the pet. One vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was applied between the shoulder blades. 17 Sept 2018: The flea activity persisted. The dog experienced itching. The pet was not seen by a veterinarian or given any treatment. 24 Sept 2018: The symptoms are still ongoing. The dog has received FRONTLINE PLUS monthly for at least a year with no history of reaction. There are 3 other dogs in the household that also received the product. One of those dogs also experienced symptoms (see case 18US063810). No further medical information is expected.
27-Sep-2018	UAE; 18US064919; AR; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 5.00 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 /	08-Aug-2018	08-Sep-2018	0 Day(s)	D-D	Suspected Adverse Event: On 27 September 2018, the owner reported the following event for Simon, a 5 year old, 10 pound, neutered male Domestic Longhair. 8 September 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was applied to the cat per label. Fifteen minutes following the treatment the cat went into hiding for two weeks. The cat had a similar reaction after receiving Comfortis. The cat has been on FL for two months and had no issues after the first application. There is one other treated cat in the home 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
						Cutaneous **Was the product used ok?:** Yes					fine after the application. No further medical information available.
27-Sep-2018	UAE; 18US064928; CO; U.S.A	**Species:** Canine **Breed:** Large crossbred (>20 Kg) **Sex:** M **Sex qualifier:** Neutered **Age:** 7.00 Month(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?:** Yes	20-Sep-2018*	21-Sep-2018*	1 Day(s)	D-D	Suspected Adverse Event: On 27 Sep 2018, the owner reported the following event for a canine (all other signalments unknown). Unknown Date: An unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R62001AR) 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 had a skin irritation (unknown location). 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. UPDATE 28 Sep 2018: The owner reported the following for Moose, a 7 month old, 70 pound, neutered male, large crossbreed (>20kg). 20 Sep 2018*: The dog started on 1 dose of the product, given topically between the shoulder blades. 21 Sep 2018*: The dog's skin looked burned at the application site. The dog was seen by the veterinarian and the wound was cleaned. The symptoms are ongoing. No further medical information expected.
27-Sep-2018	UAE; 18US065068; NC; U.S.A	**Species:** Feline **Breed:** Domestic Shorthair (Crossbreed) **Sex:** U **Sex qualifier:** Unknown **Age:** 6.00 Year(s) **Weight:** 12 lbs	4	4	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-Sep-2012*	16-Sep-2018	1 Week(s)	D-D	Suspected Adverse Event: On 28 Sep 2018, the owner reported the following event for four, 6 year old, approximately 12 pound, Domestic Shorthairs (Crossbreeds). 2012*: The cats started on an unknown amount of FRONTLINE PLUS CATS (R41206AW) given to each cat topically (unknown site of application), by the owner. The frequency of application is unknown. 9 Sep 2018: The cats received another dose of the product. The cats started scratching. The owner was seeing fleas. It is unknown if the cats were seen by a veterinarian or given any treatment. The cats' current status is unknown. No further medical information expected. UPDATE 28 Sep 2018: The owner reported the following. The owner treats only once per season. This was the first dose this season. The cats were scratching prior to the application and had fleas. 16 Sep 2018 the scratching increased. The cats have not been seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.
27-Sep-2018	UAE; 18US065086; AR; U.S.A	**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:** FIPRONIL 9.8% / S-METHOPRENE 11.8% / PYRIPROXYFEN 0.25% TOPICAL SOLUTION;	01-Sep-2018*	27-Sep-2018*	26 Day(s)	D-D	Suspected Adverse Event: On 27 Sept 2018, the clinic staff reported the following event for 2 felines of unknown signalment. Unknown dates: The cats have been on FRONTLINE PLUS CATS (lot and expiration unknown) for about a month. They were on FRONTLINE GOLD FOR CATS (lot and expiration unknown) for an unknown number of months prior. The cats have not had fleas in the past and now have fleas. There are no fleas in the home but a large amount on the pets. There are 2 dogs in the home who also have fleas, see case 18US065079. There have been stray cats dropped off in the area recently. 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
						Route: unknown **Was the product used ok?:** Unknown to Company					
28-Sep-2018	UAE; 18US065136; WI; U.S.A	**Species:** Canine **Breed:** Pit Bull **Sex:** F **Sex qualifier:** Neutered **Age:** 6.00 Year(s) **Weight:** 66.0 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?:** No (Treatment / vaccination program not respected)	15-Sep-2018*	17-Sep-2018	2 Day(s)	D-D	Suspected Adverse Event: On 28 Sep 2018, the veterinary technician reported the following event for Layla, a 6 year old* (born 05 Jul 2012*), 66 pound, spayed female Pit Bull Mix. 15 Sep 2018*: She received FRONTLINE PLUS DOG 45-88 LBS (R62001) (Invalid) one tube applied topically to the ventral neck and HEARTGARD PLUS (272 MCG/227 MG) (lot and expiration unknown) one chew administered orally. 17 Sep 2018: She began experiencing crusted thick debris of the fur on the ventral neck. 19 Sep 2018: She presented to the veterinary clinic. No diagnostics were performed. Treatments were initiated by clipping the fur, cleaning the area, and cephalexin. Her current condition is ongoing, but improving. It is unknown if she has previously received FRONTLINE PLUS or HEARTGARD PLUS. She has a pertinent medical history of atopic dermatitis. No further medical information expected.
28-Sep-2018	UAE; 18US065151; British Colombia; U.S.A	**Species:** Canine **Breed:** Belgian Tervueren **Sex:** U **Sex qualifier:** Unknown **Age:** - **Weight:** 51.4 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-Sep-2018*	01-Sep-2018*	0 Day(s)	D-D	Suspected Adverse Event: On 28 September 2018, the owner reported the following event for Benji, a 51.4 pound, Belgian Tervueren (all other signalment unknown). On an unknown date the dog was topically treated with FRONTLINE PLUS DOG 45-88 LBS (P60606AR). Following the treatment the dog's fur from the first inch to a half to 2 inches from the skin at the site of application has gone black and the end part is normal with no discoloration. No further medical information available.
28-Sep-2018	UAE; 18US065155; OH; U.S.A	**Species:** Canine **Breed:** Border Collie **Sex:** M **Sex qualifier:** Neutered **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?:** Yes	01-Jun-2018	01-Sep-2018*	31 Day(s)	D-D	Suspected Adverse Event:On 28 Sep 2018, the owner reported the following event for the Canine named Buddy, 7 year old, 40 pound, neutered, male Border Collie mix. 1 Aug 2018: One vial of the FRONTLINE PLUS DOG 23-44 LBS (P61322AL) was applied topically between the shoulder blades. 1 Sep 2018*: The pet had symptoms of hair loss. The owner noticed the pet had an area of hair loss where the product was applied. The pet was not presented to a clinic. The pet has been receiving the FRONTLINE PLUS DOG 23-44 LBS since 1 Jun 2018. 28 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.

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28-Sep-2018	UAE; 18US065164; CT; U.S.A	**Species:** Feline **Breed:** Domestic Longhair (Crossbreed) **Sex:** M **Sex qualifier:** Neutered **Age:** 17.00 Year(s) **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?:** Yes	21-Sep-2017*	21-Sep-2018	0 Day(s)	D-C	Suspected Adverse Event: On 28 September 2018, the owner reported the following event for Snuggles, a 17 year old, neutered male Domestic Longhair (weight unknown). 21 September 2018: One vial of FRONTLINE PLUS CATS (FL) (S40214AW) was topically applied to the cat per label. Within a hour the cat started to shake. The shaking is improving, but still ongoing and the cat has not been seen by the vet. The cat has been on FL as needed for at least a year and the owner has noticed the same reaction in the past. There is one other treated cat who is fine. No further medical information available.
28-Sep-2018	UAE; 18US065206; GA; U.S.A	**Species:** Canine **Breed:** Canine (unknown) **Sex:** U **Sex qualifier:** Unknown **Age:** - **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?:** Unknown to Company	04-Jul-2018	21-Sep-2018*	17 Day(s)	D-D	Suspected Adverse Event: On 28 Sept 2018, the owner reported the following event for a 24 pound, dog (signalment unknown). 4 September 2018: One vial of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) was applied to the dog. Following the treatment on an unknown date, the dog started itching a lot with the presence of fleas. 28 September 2018: The owner found 4 fleas on the dog. The dog has been on FRONTLINE PLUS for the past 3 months. No further medical information available.
28-Sep-2018	UAE; 18US065216; OH; U.S.A	**Species:** Canine **Breed:** Dachshund (Miniature) **Sex:** M **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:** IVERMECTIN/PYRANTEL PAMOATE CHEWABLE 68MCG/163MG; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	06-Sep-2014*	24-Sep-2018	18 Day(s)	D-B	Suspected Adverse Event: On 28 Aug 2018, the pet owner reported the following event for Teddy, 6 year old, approximately 10 pound, neutered male, Miniature Dachshund. 6 Sep 2014*: Dog began to receive treatments of FRONTLINE PLUS. 1 Sep 2015*: Dog began to have seizures. 6 Sep 2018: Dog received one dose of FRONTLINE PLUS DOG 5-22 LBS (S60401AX) (FL) topically between the shoulder blades and one dose of HEARTGARD PLUS (68 MCG/57 MG) (lot and expiration unknown) (HG). 24 Sep 2018: Dog presented with most recent seizure. The pet owner stated that the seizures typically last 3-5 minutes and are followed by a smaller episode later the same day. The seizures typically present approximately a week after application, but are irregular in frequency. The veterinary clinic was contacted. The dog is in good health outside of the symptoms noted. No further medical information expected.
28-Sep-2018	UAE; 18US065236; WI; U.S.A	**Species:** Canine **Breed:** Shih Tzu **Sex:** F **Sex qualifier:** Neutered **Age:** 9.00 Year(s) **Weight:** 20 lbs	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** IVERMECTIN/PYRANTEL PAMOATE	01-Jan-2009*	17-Sep-2018	0 Day(s)	D-B	Suspected Adverse Event:On 28 Sep 2018, the owner reported the following event for the Canine named Sophie, 9 year old, 20 pound, spayed, female, Pug and Shih Tzu mix. 17 Sep 2018: One vial of the FRONTLINE PLUS DOG 5-22 LBS (Lot Unknown) was applied topically between the shoulder blades. The pet had a grand mal seizure an hour after application of the product. The pet was not presented to a clinic. The owner called the vet clinic and they recommend washing the pet in Dawn Soap. The pet has been receiving the FRONTLINE PLUS DOG 5-22 LBS since 1 Jan 2009* seasonally for tick use mostly beginning in Apr

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						CHEWABLE 68MCG/163MG; PEPCID AC; **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					and ending in late fall . The pet has experienced seizure like activity prior to the seizure on 17 Sep 2018; no treatment was prescribed. The pet also receives HEARTGARD PLUS (68 MCG/57 MG) (Lot and Expiration unknown) once monthly since 1 Jan 2009* and PEPCID AC daily for the past 2 years. 28 Sep 2018: The pet's symptoms are ongoing. No further medical information is expected.
25-Sep-2018	UAE; 18UY000007; -; Uruguay	**Species:** Feline **Breed:** Persian (No Further Description) **Sex:** F **Sex qualifier:** - **Age:** 7.00 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?:** -	29-Aug-2018	29-Aug-2018	0 Day(s)	D-D	As reported by owner, Feline, 4 kilogram, intact, Persian, with good reproductive status, received FRONTLINE PLUS CAT, Batch 005/17, expiry 30 June 2020 applied topical by owner on 29 August 2018 for flea treatment, and Feline, 4 to 5 kilogram, intact, domestic longhair with good reproductive status, received FRONTLINE PLUS CAT, Batch 005/17, expiry 30 June 2020 applied topical by owner on 29 August 2018 for flea treatment. After product administration both continues having fleas. Details about dose frequency and environment treatment are unknown. No further information is expected.
06-Jul-2018	UAE; 18ZA000088; -; South Africa	**Species:** Canine **Breed:** Border Collie **Sex:** F **Sex qualifier:** Unknown **Age:** 7.50 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	15-May-2018	05-Jul-2018	4 Day(s)	D-D	Suspected Lack of Efficacy: as reported by owner, Mia, a female dog, Border Collie crossbreed, 7.5 years old, 11 kg weight, in good health condition, received FRONTLINE PLUS DOG M (BN P61317A, exp date May 2019, dosage 10-20 kg) administered topically by owner for parasite control on 15 May 2018 and on 1 Jul 2018. On 5 Jul 2018, Mia had many ticks ongoing, and owner pulled off 16 ticks. The owner applies this product religiously every 6 weeks and even has an alarm on her cell phone which reminds her when to apply the FRONTLINE PLUS again. The FRONTLINE SRAY is used when she takes the dogs for walks out of her property as an additional measure, that area of the Western Cape being a sub-tropical region. She also shakes out and dusts the bedding material of the dogs regularly with an anti-tick/flea powder. She bought a box of 10 FRONTLINE for each of her pets (5 dogs, 3 cats), costing over R 2000. She is now halfway through the box. Owner applies the FRONTLINE PLUS every 6 weeks and has no problem with fleas. She uses FRONTLINE SPRAY in between. It is only the Collie, that is not reacting to treatment. Mia was booked into the vet twice in 1 year with tick bite fever and was put on a drip. Mia has been in good health, apart from the tick bite fever. At 6 weeks old, Mia had a heat rash on her tummy but this was from a jersey that she was wearing that the vet advised the owner to take off and also gave Mia a cortisone shot. This resolved the problem which never recurred again. She baths the dogs infrequently and never 3 days before or after application of the FRONTLINE PLUS.The owner does not want to use Bravecto or NEXGARD as an alternative as she is convinced there is a high risk of liver failure. She said a dog hers died from liver failure due to Bravecto.The reaction of Mia is ongoing and was not recently treated. This is the extent of information available.
13-Aug-2018	UAE; 18ZA000101; -; South Africa	**Species:** Canine **Breed:** Border Collie **Sex:** U	1	1	1	**Product used:** FIPRONIL 10%/S METHOPRENE	23-Jul-2018*	30-Jul-2018*	1 Week(s)	D-A	Suspected Adverse Reaction: As reported by the owner, a dog, Border Collie, 20kg (other signalments unknown), in critical health condition, was treated with FRONTLINE PLUS DOG MEDIUM (BN and exp date unknown, product unsubtantiated), by the owner,

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		Sex qualifier: Unknown **Age:** Unknown **Weight:** 20 kg				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					topically, dosage once off, 3 weeks ago (23 Jul 2018 was chosen by default). The dog was sick prior to the treatment and had to be put down 1 week after treatment (30 Jul 2018 was chosen by default) due to pre-existing uncontrolled diarrhoea and weightloss of 9 kg. The owner used Bravecto before and said that the dog became aggressive. She also used Advantix recently. The dog lived with 2 other dogs who were also treated with FRONTLINE PLUS, 4 cats who were treated with an unknown product. The house was sprayed. This is the extent of information available. This case is linked with 18ZA000105.
20-Aug-2018	UAE; 18ZA000104; -; South Africa	**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 10%/S METHOPRENE 12% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes	08-Aug-2018	15-Aug-2018*	N/A	D-C	Suspected Adverse Reaction: As reported by the owner, a cat, domestic breed, female, 5 years old, 2 kg, in good health condition, was treated with FRONTLINE PLUS CAT (BN and exp date unknown), 1 pipette administered topically for parasite control by the owner on 8 Aug 2018. 1 week later (15 Aug 2018 was chosen by default), the cat experienced at the application site: pruritus, erythema, inflammation, pain and trauma. This had spread to left ear resulting in aural hematoma. The reaction was treated but is still ongoing. This is the extent of information available.
13-Aug-2018	UAE; 18ZA000105; -; South Africa	**Species:** Canine **Breed:** Border Collie **Sex:** U **Sex qualifier:** Unknown **Age:** Unknown **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?:** Yes	23-Jul-2018*	30-Jul-2018*	1 Week(s)	D-D	Suspected Lack of Efficacy: As reported by the owner, 2 dogs, Border Collie, weights unknown but more than 20kg (other signalments unknown), in goodl health condition, were treated with FRONTLINE PLUS DOG L (BN and exp date unknown, product unsubtantiated), by the owner, topically, dosage once off, 3 weeks ago (23 Jul 2018 was chosen by default). The dogs were scratching non stop few days after treatment (30 Jul 2018 was chosen by default). No fleas were seen. Dogs went to parlour and started scratching afterwards. The owner used Bravecto before and said that the dog became aggressive. She also used Advantix recently. The dogs lived with 1 other dog who was also treated with FRONTLINE PLUS, 4 cats who were treated with an unknown product. The house was sprayed. The event is still ongoing and was not treated. This is the extent of information available. This case is linked with 18ZA000101.
13-Aug-2018	UAE; 18ZA000112; -; South Africa	**Species:** Feline **Breed:** Feline (unknown) **Sex:** M **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	27-Jul-2018	27-Jul-2018	N/A	D-D	Suspected LOE: as reported by the owner, a male cat, 8 years old, 7 kg, (other signalments unknown) received FRONTLINE PLUS CATS (BN and exp date unknown), 1 pipette, topically for parasite control, administered by owner on 27 July 2018. 2 weeks after product administration, the cat still had fleas. The owner has only treated with FRONTLINE once previously, but had no packaging for BN or exp date. The owner treated again on 20 August for the 3 rd time with FRONTLINE PLUS CATS. On 29 August the owner reported the cat was still scratching as he still had fleas. The reaction was not treated. This is the extent of information available.
04-Sep-2018	UAE; 18ZA000120; -; South Africa	**Species:** Canine **Breed:** Yorkshire Terrier **Sex:** U	3	3	0	**Product used:** FIPRONIL 10%/S METHOPRENE	21-Jul-2018*	04-Sep-2018*	2 Week(s)	D-D	Suspected LOE: as reported by owner, 3 dogs, Yorkshire Terrier (other signalments unknown) received twice FRONTLINE PLUS DOG (BN and exp date unknown), product unsubstantiated (strength S chosen by default), topically, for parasite control,

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		Sex qualifier: Unknown **Age:** - **Weight:** Unknown				9% SPOT ON **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** Yes					administered by owner on unknown dates (21 July and 21 August 2018 were chosen by default). 2 weeks after the last administration (4 September 2018 was chosen by default), the animals still had fleas. She has other animals and has used other products in the past. The reaction was not treated and is ongoing. This is the extent of information available.

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06-Jul-2018	UHAE; 18BE000104; -; Belgium	**Sex:** U **Sex qualifier:** -**Age:** - **Weight:** -	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** - **Was the product used ok?:** No (Human exposure)	11-Mar-2018	11-Mar-2018	<=2 minutes	H-D	BE-FAGG-DVV-N2018-289 - Poison Centre: call from a family member of a child (20 months) that showed eye irritation after accidental contact with frontline spray. The incident just happend before the phone call.UPDATE HR 19 JULY 2018: Causality changed into A Probable.
01-Aug-2018	UHAE; 18BR004986; SP; Brazil	**Sex:** M **Sex qualifier:** -**Age:** 3.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Human exposure)	01-Aug-2018	01-Aug-2018	0 Day(s)	H-D	Suspected Adverse Event: As reported by the victim's mother, a 3-year-old boy had oral exposure to FRONTLINE SPOT-ON DOGS (size, dose, lot and expiration unknown), 10 minutes ago (1 Aug 2018, near 12:50 pm). The child experienced abdominal pain. At the time of the contact, the boy was not feeling anything else. No further information is available.
01-Aug-2018	UHAE; 18BR004987; RS; Brazil	**Sex:** M **Sex qualifier:** -**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?:** No (Human exposure)	01-Aug-2018	01-Aug-2018	0 Day(s)	H-D	Suspected Adverse Event: As reported by the victim's mother, a 4-year-old boy accidentally sprayed FRONTLINE SPRAY (017/16, Nov 2018) on his face today (1 Aug 2018). Following product exposure, the child started experiencing reddening of the face, itching and periorbital edema. The signs are still ongoing. This is the extent of the information available.
01-Aug-2018	UHAE; 18BR004997; RJ; Brazil	**Sex:** F **Sex qualifier:** -**Age:** 48.00 Year(s) **Weight:** Unknown	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 (Human exposure)	01-Aug-2018	01-Aug-2018	0 Day(s)	H-D	Suspected Adverse Event: As reported by the human patient, a 48-year-old woman (other signalment unknown), she applied one vial of FRONTLINE PLUS DOG M (lot and expiration unknown) to her dog today (1 Aug 2018) with no gloves. Few hours later, she washed her hands and handled dental floss. Then she started experiencing her tongue and one finger numb. This is the extent of the information available.
03-Aug-2018	UHAE; 18ES000581; -; Spain	**Sex:** F **Sex qualifier:** Unknown**Age:** -	1	1	0	**Product used:** FIPRONIL 10%/S	03-Aug-2018	03-Aug-2018	0 Day(s)	H-D	Symptomatic human exposure: As reported by animal owner, a woman (unknown age and weight) spiked herlself by error with a syringe while manipulating the content of a pipette of Frontline

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		Weight: Unknown				METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** SC-subcutaneous **Was the product used ok?:** No (Route not indicated / recommended)					Combo Spot On for big dogs in the same syringe on 03rd Aug 2018. That same day, the woman presented a haematoma in the injection site. It is unknown if part of the product was inoculated. On 06th Aug 2018, the women, who is the animal owner, did not experienced any other event.
08-Aug-2018	UHAE; 18FR001091; -; France	**Sex:** M **Sex qualifier:** -**Age:** 50.00 Year(s) **Weight:** Unknown	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 (Human exposure)	30-May-2018	01-Jun-2018	2 Day(s)	H-D	FR-ANMV-18 CPVL 01317: D0: a man twisted the cap of a pipette of FRONTLINE COMBO SPOT-ON CHIEN with his teeth. D2: he felt febrile. Duration of reaction: < or = 6 hours. Duration of reaction (precision): unknown (< 6 h). Outcome of SAR: Unknown. FRONTLINE COMBO SPOT-ON CHIEN () : low dose (cap opened with teeth).
08-Aug-2018	UHAE; 18FR001093; -; France	**Sex:** F **Sex qualifier:** Unknown**Age:** 59.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** SC-subcutaneous **Was the product used ok?:** No (Human exposure)	29-Jun-2018	29-Jun-2018	0 Day(s)	H-D	FR-ANMV-18 CPVL 01332: A woman intended to divide a pipette of FRONTLINE SPOT ON CHIEN to applicate half on each of her two dogs. She used a syringe (with needle) to collect product from the pipette, but while putting the cap back on needle, she accidentally pricked herself in her thumb. Onset of immediate local reddening and slight haematoma. Final outcome not known (follow-up phone call unanswered). Duration of reaction: < or = 30 minutes. Duration of reaction (precision): ongoing (15 minutes). Outcome of SAR: Unknown.
31-Aug-2018	UHAE; 18MA000003; -; Morocco	**Sex:** F **Sex qualifier:** -**Age:** 17.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)	31-Aug-2018	31-Aug-2018	0 Day(s)	H-D	Human Exposure: as reported by the patient's father, his daughter, 17 years old (other signalments unknown), got FRONTLINE SPRAY 250 ml (BN and exp date unknown, dose unknown) in her eye while her father was spraying his dog on 31 August 2018. The dog was so much listless that the daughter who was next to him got a bit of FRONTLINE SPRAY in her eye. She experienced a pinching sensation to the eye (Low-level term eye ache was used for VEDDRA coding). The product was misused due to the accidental human exposure. The reaction was not treated and the evolution is unknown.This is the extent of information available.
20-Aug-2018	UHAE; 18SE000146; -; Sweden	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE	2017*	2017*	0 Day(s)	H-D	A report received from facebook: For approximately 1 year ago the reporter has worked professional with clipping nails on dogs. According to the reporter, the dogs were treated with Frontline (not further specified, so Frontline combo small dog is chosen by

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						9% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** No (Human exposure)					default). Short after the person became nausea and started to itch. After further investigation and medication it was noticed that the person was only not itching, when the person was not handling other peoples dogs. However the person did not experience any problems, when handling her own not treated dogs. According to the reporter, her doctors has said that her body produces to much histamine. The reporter is treated with 4 tablets of antihistamine daily (type and strenght is unknown). MAH has not been able to get more information from the reporter.
17-Jul-2018	UHAE; 18UK001538; -; United Kingdom	**Sex:** U **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	2	0	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Human exposure)	N/A	01-Jul-2018*	N/A	H-E	As reported by the veterinary nurse, approximately two children of unknown age, sex, height, weight and general health, were exposed to FRONTLINE SPOT ON (assumed FRONTLINE SPOT ON DOG L, batch and expiry unknown) topically to the head by their parent, a client of the veterinary practice, at an unknown dose on an unknown date to treat head lice. The children did not experience any adverse clinical signs. Start date added for submission purposes only.
23-Aug-2018	UHAE; 18UK001933; -; United Kingdom	**Sex:** F **Sex qualifier:** Unknown**Age:** - **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPRAY **Other products used:** FRONTLINE PETCARE HOME AND ENVIRONMENT FLEA SPRAY; **Route:** unknown **Was the product used ok?:** No (Human exposure)	01-Aug-2018*	23-Aug-2018*	N/A	H-D	As reported by the animals' owner, an adult cat and 2 kittens, of unknown breed, age, weight and reproductive status, were treated with FRONTLINE SPRAY (batch number and expiry date unknown), route, frequency and date of administration unknown, administered by the animals owner. FRONTLINE PETCARE HOMEGARD SPRAY was also used to treat the house as directed, used on the same unspecified day. The owner reported that neither of them (the treatments) worked (See linked case 18UK001932). The cats were isolated to the downstairs bathroom after the house and they were treated, but after a day the cats still had live fleas on them and fleas were still being found around the house. The owner is allergic to flea bites and reportedly knows when there are some still around as they seem to be attracted to her - she is now covered in red itchy blotches. No further information was provided. Start date of adverse event and products added for submission purposes only.
05-Jul-2018	UHAE; 18US042254; NM; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 37.00 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 (Human exposure)	05-Jul-2018*	05-Jul-2018	0 Day(s)	H-D	Human Exposure: On 5 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 37 year old, non-pregnant, female of further unknown signalment. 5 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 23-44 LBS (lot unknown) got onto the patient's right leg when she opened the vial to apply it to her dog. She subsequently wiped the product off of her leg with her hand and then used a wet paper towel to wipe her leg. The reporter finished applying the product to her dog after which, she washed her hands with soap and water and wiped her leg again with a wet paper towel. The patient subsequently observed redness on the skin, likely from her rubbing it. The reporter has a history of asthma. UPDATE 6 Jul 2018: SCI attempted callback to patient to follow up on status. Left message for patient requesting a follow up. UPDATE 10 Jul 2018 - SCI followed up with patient on 9 Jul 2018. Patient advised she followed SCI recommendations to wash area, apply Vitamin E and cold compresses and symptoms (redness on her skin) resolved within the same day.

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											No further medical information expected.
18-Jul-2018	UHAE; 18US042720; VA; 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)	09-Jul-2018*	N/A	N/A	H-E	Human Exposure: Human Exposure: On 9 Jul 2018, the following human exposure was reported to Boehringer Ingelheim by the patient, a female of further unknown signalment. 9 Jul 2018*: The owner cut through the packaging of FRONTLINE PLUS DOG 45-88 LBS (S60719AX) with scissors while attempting to open the product to apply to the dog. While cutting the product, an unknown amount of FRONTLINE spilled out of the vials and onto her hands. The owner washed the area and remains asymptomatic at the time of the report.
09-Jul-2018	UHAE; 18US042995; LA; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 71.00 Year(s) **Weight:** 270.000 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)	07-Jul-2018	N/A	N/A	H-E	Human Exposure: Human Exposure: On 9 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 71 year old, 270 pound, female of further unknown signalment. 7 Jul 2018: An unknown amount of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) got on to the patient's hands when the packaging was being opened. The area was washed with liquid dish soap. There are no symptoms noted at the time of the report. The reporter has a history of Arthritis, Heart Problem, hypertension, and hypothyroidism. UPDATE 10 Jul 2018 - SCI followed up with patient on 9 Jul 2018. Patient remained asymptomatic. No further medical information expected.
06-Jul-2018	UHAE; 18US043149; WA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 67.00 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 (Human exposure)	04-Jul-2018*	06-Jul-2018	2 Day(s)	H-D	Human Exposure: On 6 Jul 2018, the following human exposure was reported to Safety Call year International (SCI) by the patient, a 67 year old, non-pregnant, female of further unknown signalment. 4 Jul 2018*: The reporter applied FRONTLINE PLUS DOG 5-22 LBS (lot unknown) to her dog. 6 Jul 2018: About 15 minutes after the patient's face touched the back of the dog, she immediately developed a burning sensation on her face and neck. She washed the area with soap and water for several minutes and in doing so, the symptoms have improved, but remain ongoing. The patient is allergic to dust and has a history of high blood pressure as well as fibromyalgia. No further medical information expected.
06-Jul-2018	UHAE; 18US043176; CA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 77.00 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**	06-Jul-2018*	06-Jul-2018	0 Day(s)	H-D	Human Exposure: On 6 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 77 year old, female of further unknown signalment. 6 Jul 2018: The patient got an unknown amount of FRONTLINE PLUS CATS (lot unknown) on her hands while applying it to her cat. She immediately washed her hands with soap and water. Before she abruptly disconnected the call, she advised SCI that her hands were slightly red, but experienced no other symptoms. The patient's current status is unknown. UPDATE 11 Jul 2018 - SCI followed up with patient on 10 Jul 2018. Patient stated that she did not want follow up, indicated she was fine, then disconnected.

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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
						ok?: No (Human exposure)					No further medical information expected.
13-Jul-2018	UHAE; 18US044595; WI; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 54.00 Year(s) **Weight:** 210 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)	13-Jul-2018*	13-Jul-2018	0 Day(s)	H-D	Human Exposure: On 13 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 54 year old, 210 pound, male of further unknown signalment. 13 Jul 2018: The patient had difficulty opening FRONTLINE PLUS DOG 45-88 LBS (R60206AR) and as a result, he got an unknown amount of product in his eye (OS). An unknown duration following product exposure, while still asymptomatic, he flushed his left eye with water; however, his left eye began feeling funny afterwards which he suspects is due to the fact that the water contains Chlorine. The reporter's current status is unknown because he disconnected the call; however, it was confirmed prior to the disconnection that he is disabled and epileptic. No further medical information expected.
23-Jul-2018	UHAE; 18US046918; TX; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 71.00 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 (Human exposure)	23-May-2018*	23-Jul-2018*	0 Days	H-D	Human Exposure: On 23 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 71 year old, male of further unknown signalment. 23 May 2018*: The patient began having chronic dermal exposure to FRONTLINE PLUS DOG 5-22 LBS (R1201BR) after applying the product to his dog. Within a few minutes of product exposure, the reporter developed a rash on his arms; however, the rash resolved without treatment within two hours of onset. Unknown dates: Like before, on multiple unknown dates within a few minutes of product exposure, the reporter developed the same transient rash on his arms which has since always resolved within two hours of onset. Unknown date: The patient's doctor examined his arms and determined that the rash is likely a reaction to FRONTLINE PLUS given the frequent contact with the dog and because the rash appears shortly following product exposure. The practitioner advised the patient to treat the rash with antihistamines, but the reporter did not do so. Presently, his status is unknown. No further medical information expected.
26-Jul-2018	UHAE; 18US047841; NJ; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 63.00 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 (Human exposure)	25-Jul-2018*	26-Jul-2018	1 Day(s)	H-D	Human Exposure: On 26 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 63 year old, non-pregnant, female of further unknown signalment. 25 Jul 2018*: The patient got an unknown amount of FRONTLINE PLUS CATS (R40601AW) on her hands. 26 Jul 2018: She is lethargic and very tired. It's unknown if treatment has been given for the ongoing event. The patient has a history of rheumatoid arthritis and urinary stress incontinence. She is also allergic to milk, eggplant, malt, and Percocet. UPDATE 30 Jul 2018 - SCI followed up with patient on 27 Jul 2018. Patient reports that she is fine and thinks she was just tired at the time of the initial report. She did not contact her medical doctor regarding her symptoms. No further medical information expected.
30-Jul-2018	UHAE; 18US048734; CA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 54.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 12% SPOT ON	28-Jul-2018*	28-Jul-2018	N/A	H-E	Human Exposure: On 30 Jul 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 54 year old female of further unknown signalment. 28 Jul 2018: A dose of FRONTLINE PLUS CATS (S40101AW) was applied topically to the patient's cat. The patient did not know

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						Other products used: no other products **Route:** Topical / Cutaneous **Was the product used ok?:** No (Off label use / Indication)					and petted the cat, and product got on her hands. She washed her hands to remove it, and is asymptomatic. 1 Aug 2018 - SCI attempted follow up with patient's mother on 31 Jul 2018. No answer, left message requesting follow up. UPDATE 6 Aug 2018 - SCI attempted follow up with patient's mother on 3 Aug 2018. No answer, left message requesting follow up. UPDATE 7 Sug 2018 - SCI attempted follow upw ith patient's mother on 6 Aug 2018. No answer, left message requesting follow up. No further medical information expected.
02-Aug-2018	UHAE; 18US050085; -; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 24.00 Year(s) **Weight:** 230 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)	02-Aug-2018	02-Aug-2018	0 Day(s)	H-D	Suspected Adverse Event Human Exposure: 2-Aug-2018 SCI reported the follwoing Human Exposure event. 2-Aug-2018 Reporter stated that approx 10 minutes prior to the call the human patient was opening the product and, when he cracked it open, it sprayed the product Frontline Plus 23-44 (P61007AL) into his right eye. Patient does not expected any other exposure routes as of this time. Symptoms of redness and burning arose immediately and is still present at this time. Patient rinsed his skin for approx 15 minutes and used OTC eye drops in an attempt to treat symptoms. No contacts worn at the time of the incident. UPDATE 8 Aug 2018 - SCI followed up with patient on 7 Aug 2018. Patient advised that he rinsed as advised and symptoms resolved within 1 hour. No further medical information expected.
03-Aug-2018	UHAE; 18US050100; CO; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 71.00 Year(s) **Weight:** -	1	0	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-Aug-2018	N/A	N/A	H-E	Suspected Human Exposure: 2-Aug-2018 SCI reported the following event. 2-Aug-2018 Human patient accidentally got a small amount of product on her wrist approximately 5 minutes ago. She washed with soap and water and is asx. UPDATE 8 Aug 2018 - SCI attempted follow up with patient on 7 Aug 2018. No answer, left message requesting follow up. UPDATE 10 Aug 2018 - SCI attempted follow up with patient on 9 Aug 2018. No answer, left message requesting follow up. No further medical informaiton expected. UPDATE 13 Aug 2018: SCI attempted to follow up with the reporter, but was unsuccessful. No further medical information expected.
08-Aug-2018	UHAE; 18US051654; MA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 63.00 Year(s) **Weight:** 164 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)	08-Aug-2018*	08-Aug-2018	0 Day(s)	H-D	Human Exposure: On 8 Aug 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 63 year old, 164 pound, non-pregnant, female of further unknown signalment. 8 Aug 2018: The patient kissed her dog at the FRONTLINE PLUS DOG (P63217) (product unsubstantiated) application site 6 hours after it was applied. About an hour following dermal exposure, her lips are feel funny. Presently, the reporter's status is unknown and no further description was provided regarding her symptoms. She does have diabetes mellitus and is allergic to penicillin, Tylenol, acetylsalicylic acid (ASA), Lisinopril, and Iodine. UPDATE 10 Aug 2018 - SCI followed up with patient on 9 Aug 2018. Patient did not do anything for treatment and symptoms resolved within 2 hours. No further medical information expected.

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13-Aug-2018	UHAE; 18US052600; ID; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 52.00 Year(s) **Weight:** Unknown	1	0	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products used:** no other products **Route:** - **Was the product used ok?:** -	N/A	N/A	N/A	H-E	Human Exposure: 13-Aug-2018 Per SCI report Caller applied Frontline Plus 45-88 (653315) to her dog using her hands 10 minutes ago not realizing she wasn't supposed to use her hands. She washed with soap and water and is asx. She wants to know what she should worry about if she contacts it again or if the dog rolls around on the carpet. No event reported, no further information expected.
10-Aug-2018	UHAE; 18US052797; MD; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** - **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)	10-Aug-2018*	N/A	N/A	H-E	Human Exposure: On 10 Aug 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a male, of further unknown signalment. 10 Aug 2018: The reporter got an unknown amount of FRONTLINE PLUS CATS (S40301AX) on his hands because the product leaked outside of the packaging (see case 18US052237 for product quality complaint). The patient has since washed his hands and remains asymptomatic. He is allergic to bees and poison ivy. No further medical information expected. UPDATE 14 Aug 2018: SCI attempted to follow up with the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 16 Aug 2018: SCI attempted to follow up with the patient, but was unsuccessful. A voice message was left. No further medical information expected.
19-Aug-2018	UHAE; 18US054877; OH; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 41.00 Year(s) **Weight:** Unknown	1	1	0	**Product used:** FIPRONIL SPOT ON DOG **Other products used:** no other products **Route:** PO-Oral **Was the product used ok?:** No (Human exposure)	18-Aug-2018*	19-Aug-2018	1 Day(s)	H-D	Human Exposure: On 19 Aug 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 41 year old, male of further unknown signalment. 19 Aug 2018: The patient may have ingested an unknown amount of FRONTLINE TOP SPOT DOGS 23-44 LBS (lot unknown) after applying the product to his dog because presently, he has a funny taste in his mouth. He's since rinsed his mouth out. Presently, the reporter's status is unknown. He is allergic to sulfa, codeine, and shellfish. UPDATE 22 Aug 2018 - SCI followed up with patient on 21 Aug 2018. Symptoms resolved within 2 hours and patient has remained asymptomatic. No further medical information expected.
22-Aug-2018	UHAE; 18US055384; NH; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 53.00 Year(s) **Weight:** 375 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)	01-Aug-2018*	01-Aug-2018*	0 Day(s)	H-D	Human Exposure: On 22 Aug 2018, the physician's assistant (PA) reported the following human exposure to Safety Call International (SCI) on behalf of the patient who is a 53 year old, 375 pound, non-pregnant, female of further unknown signalment. 1 Aug 2018: The patient applied FRONTLINE PLUS DOG 5-22 LBS (lot unknown) on her dog. Within 24 hours of application, the patient developed petechiae on her upper and lower extremities. The symptoms have since been waxing and waning and the patient's current status is unknown. It also cannot be confirmed, but the patient suspects she got the product on her skin when her dog rubbed against her. The patient has diabetes mellitus, hypertension, asthma, high cholesterol, and an unknown seizure disorder. UPDATE 29 Aug 2018 - SCI spoke with physician assistant (PA) on 28 Aug 2018. PA advised that a CBC was performed and came

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											back WNL. Symptoms were determined to be due to overuse of NSAIDs. Since that time, symptoms have resolved with no treatment or therapies. No further information medical information expected. Update 17 Oct 2018: Selected No checkbox for Expected on the product screen.
24-Aug-2018	UHAE; 18US056472; CA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 49.00 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 (Human exposure)	24-Aug-2018*	24-Aug-2018	0 Day(s)	H-D	Human Exposure: On 24 Aug 2018, the following human exposure was reported to Safety Call International (SCI) by the spouse of the patient who is a 49 year old, non-pregnant, female of further unknown signalment. 24 Aug 2018: The patient got an unknown amount of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) on her hands when the product was applied to their puppy. Despite washing her hands, within two hours of product exposure, she is nauseous and has a slight irritation in her mouth. Presently, the patient's status is unknown. She is a diabetic. UPDATE 29 Aug 2018 - SCI followed up with caller on 28 Aug 2018. Caller reports that wife (patient) did not do anything specific for treatment other than drank lots of fluids. Patient was still nauseous the following day (25 Aug 2018) but symptoms resolved after 2 days. No further information expected.
04-Sep-2018	UHAE; 18US058439; IL; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 78.00 Year(s) **Weight:** 120 Pounds	1	1	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?:** No (Human exposure)	04-Sep-2018*	04-Sep-2018	0 Day(s)	H-D	Human Exposure: On 4 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 78 year old, 120 pound, male of further unknown signalment. 4 Sep 2018: After applying FRONTLINE PLUS DOG 5-22 LBS (lot unknown) and FRONTLINE PLUS DOG 45-88 LBS (lot unknown) to his dogs, the reporter took a nap. Two to four hours following product application and napping, the patient woke up with edema of his upper lip. Treatment was not performed and the patient's current status is unknown. He does have a history of having unknown cardiac surgery and partial dentures. It's unknown if he's currently on any medications, but does have a history of receiving numerous unknown heart medications as well as blood thinners. No further medical information expected. UPDATE 11 Sep 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 11 Sep 2018: The patient called SCI back and advised that the swelling of his lips gradually subsided and after three days of rinsing and washing his lips, the event completely resolved on 7 Sep 2018. No further medical information expected.
02-Sep-2018	UHAE; 18US058561; VA; U.S.A	**Sex:** F **Sex qualifier:** -**Age:** 5.00 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 (Human	02-Sep-2018*	02-Sep-2018	0 Day(s)	H-D	Human Exposure: On 2 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the grandmother of the patient who is a 5 year old, non-pregnant, female of further unknown signalment. 2 Sep 2018: Shortly after unknown FRONTLINE (lot unknown) (product unsubstantiated) was applied topically to a dog's neck, the patient kissed the dog at the application site. Following product exposure, the patient developed a bad taste in her mouth. The patient's mother subsequently rinsed the patient's hands, face, and mouth. It's unclear if the symptom is ongoing. No further medical information expected. UPDATE 13 Sep 2018: SCI attempted to follow up with the reporter, but was unsuccessful and left a voice message. No

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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
						exposure)					further medical information expected. UPDATE 17 Sep 2018: CB complete. Child remained asx. Caller does not have any product information. No further medical information expected. UPDATE 26 Sep 2018: Per correspondence with SCI on 26 Sep 2018, it was confirmed that the child did not have any symptoms on initial report. No further medical information expected.
07-Sep-2018	UHAE; 18US059493; PA; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 11.00 Year(s) **Weight:** 70 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 ok?:** No (Human exposure)	07-Sep-2018*	07-Sep-2018	0 Day(s)	H-D	Human Exposure: On 7 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the mother of the patient who is an 11 year old, 70 pound, non-pregnant, female of further unknown signalment. 7 Sep 2018: The patient pet the cat 12 to 15 hours after FRONTLINE PLUS CATS (lot unknown) was applied. She then ate food without washing her hands. The patient relayed to the reporter that the food tasted funny, leading the reporter to suspect that the patient ingested the product. The patient is allergic to mold and her current status is unknown. No further medical information expected. UPDATE 11 Sep 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message was left. No further medical information expected. UPDATE 13 Sep 2018: SCI attempted to follow up with the reporter, but was unsuccessful and left a voice message. No further medical information expected. UPDATE 17 Sep 2018: SCI attempted to follow up with the reporter, but was unsuccessful and a voice message was left. No further medical information expected.
07-Sep-2018	UHAE; 18US059610; TX; U.S.A	**Sex:** F **Sex qualifier:** Unknown**Age:** 40.00 Year(s) **Weight:** 128.000 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 ok?:** No (Human exposure)	07-Sep-2018*	07-Sep-2018	0 Day(s)	H-D	Human Exposure: On 7 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 40 year old, 128 pound, non-pregnant, female of further unknown signalment. 7 Sep 2018: After cutting open FRONTLINE PLUS CATS (R41105AW), an unknown amount of product got onto the reporter's right hand. She immediately washed her hands several times with soap and water and applied Peroxide. Presently, the patient has a small bump which might be a blister, but suspects it is as a result of the Peroxide. The patient has asthma and gastroesophageal reflux disease (GERD). The reporter did not report or suggest that there was any product quality issue with the product. No further medical information expected. UPDATE 11 Sep 2018: SCI attempted to follow up the patient, but was unsuccessful. A voice message could not be left. No further medical information expected. UPDATE 13 Sep 2018: SCI attempted to follow up with the reporter, but was unsuccessful and was unable to leave a voice message. No further medical information expected. UPDATE 14 Sep 2018: SCI attempted to follow up with the reporter, but was unsuccessful and was unable to leave a message. No further information.
17-Sep-2018	UHAE; 18US061599; WA; U.S.A	**Sex:** F **Sex qualifier:** Pregnant**Age:** 31.00 Year(s) **Weight:** 241 Pounds	1	1	0	**Product used:** FIPRONIL 10%/S METHOPRENE 9% SPOT ON **Other products**	17-Sep-2018*	17-Sep-2018	0 Day(s)	H-D	Human Exposure: On 17 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 31 year old, 241 pound, female who is 32 weeks pregnant. 17 Sep 2018: After FRONTLINE PLUS DOG 45-88 LBS (350604287209) (invalid lot) was applied to a dog, the dog shook causing an unknown volume of product to get into the reporter's

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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
						used: no other products **Route:** Ophthalmic **Was the product used ok?:** No (Human exposure)					eye (unknown side) and mouth. An unknown duration following product exposure, she began experience blurred vision. In addition to the ongoing blurred vision, the affected eye is also red and her mouth is tingling. She's since irrigated her eye and mouth for five to seven minutes, but the symptoms are ongoing. The reporter is allergic to amoxicillin and penicillin and does not wear contact lenses. No further medical information expected. UPDATE 18 Sep 2018: SCI left a message for the reporter requesting follow up. No further medical information expected. UPDATE 19 Sep 2018: SCI confirmed with the patient that she rinsed her mouth and eyes and washed the exposed skin. Her symptoms resolved within an hour of treatment. No further medical information expected.
15-Sep-2018	UHAE; 18US061707; NY; U.S.A	**Sex:** M **Sex qualifier:** Unknown**Age:** 18.00 Month(s) **Weight:** 28 Pounds	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 (Human exposure)	15-Sep-2018*	15-Sep-2018	0 Day(s)	H-D	Human Exposure: On 15 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the mother of the patient who is an 18 month old, 28 pound, male of further unknown signalment. 15 Sep 2018: The patient hugged the reporter's dog near the FRONTLINE PLUS DOG 89-132 LBS (R64814) application site. Upon hugging the dog, the baby put his fingers in his mouth and made a yucky face. The reporter was unable to further describe the yucky face further; however, she's since washed the patient and offered him water, though his current status is unknown. No further medical information expected. UPDATE 18 Sep 2018: SCI left a message for the reporter requesting follow up. UPDATE 21 Sep 2018 - SCI followed up with patient's mother on 20 Sep 2018. Mother bathed patient and gave him a snack and he remained asymptomatic. No further medical information expected.
20-Sep-2018	UHAE; 18US062619; CT; U.S.A	**Sex:** F **Sex qualifier:** Pregnant**Age:** 29.00 Year(s) **Weight:** 170 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)	20-Sep-2018*	20-Sep-2018	0 Day(s)	H-D	Human Exposure: On 20 Sep 2018, the following human exposure was reported to Safety Call International (SCI) by the patient, a 29 year old, 170 pound, intact female who is 10 weeks pregnant. 20 Sep 2018: The reporter got an unknown volume of FRONTLINE PLUS DOG 45-88 LBS (R60604AR) on her finger after her dog shook, causing the product to get on her skin. Despite washing her skin multiple times, the affected skin now feels smooth as if the product was absorbed. No further medical information expected. UPDATE 21 Sep 2018: CB complete. Caller felt better after the call yesterday, and states that she is asx today. 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 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

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

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 Mr Jolle Van Oproy	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18BE000161
	Address Pharmacy Van Oproy Meir 10 Eindhout Laakdal 2430 Belgium		Address --UNKNOWN--	
	Phone # 014/86.62.63		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-06-2018	Date registrant became aware of incident. 09-11-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) BE-V180433	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 / KAT / KATZE	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)). 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 # 18BE000161

Brief description of incident circumstances

Suspected Adverse Reaction: As reported by the pharmacist, a 3 month old male neutered cat, weighing approximately 1.2 kg received one pipette of Frontline Spot-on Cat (Lot Number P20712EW, exp date 05/2019) via cutaneous route in the neck on 6/9/2018 by the animal's owner because of flea infestation. Immediately after product administration the cat experienced heavy breathing. The morning after product administration the animal laid suddenly down, experienced blood vomiting, convulsions, had absence of eye movements and died. According to the animal's owner the vet stated that Frontline Spot-on Cat was probably the cause of the cat's death. Autopsy will be performed to exclude other diseases causing acute death. Update 24/09/2018: Autopsy and histology were performed on 11/09/2018. Conclusion autopsy report: Congestive heart failure (CHF) with localised scar tissue near the left atrium and compensatory hypertrophy and hyperplasia in the entire heart (cardiomegaly with hypertrophic trabeculae and hypertrophic papillary muscles). Near the lungs subacute congestive heart failure with distinct pulmonary edema and histiocytosis was found. The underlying cause of the heart defect could not be traced anymore.

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 - 4 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 Death Dyspnoea Convulsion Eye paralysis Recumbency Haematemesis Cardiac insufficiency		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: 1.0 - 1.4 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 #

18BE000161

* 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 Ms ELIZIA MARIA DE LIMA	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18BR004729
	Address RUA SÃO GERALDO, 48 - APTO 303 - PARQUE TURISTAS CONTAGEM MG Brazil		Address --UNKNOWN--	
	Phone # (31)33612024		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-07-2018	Date registrant became aware of incident. 07-18-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 000023-0-000002	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE TRI-ACT 5-10 kg	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 # 18BR004729

Brief description of incident circumstances

Suspected Adverse Event: As reported by the pet owner, Kate, a 5.4-year-old, 7 kg, female, Dachshund, was treated with one vial of FRONTLINE TRI-ACT 5-10 KG (FL) (lot and expiration unknown), by the reporter, 'according to the product instructions' (topic, between the shoulder blades), for the first time, on 7 Jul 2018, 3 pm, for flea and tick prevention. Oral exposure not reported. Starting one hour post product application, Kate experienced seizures, respiratory discomfort at 9 pm and weakness in the next morning (8 Jul 2018). She was bathed and taken to the vet. Kate was treated with fluids and unknown drugs, and taken back home. At night, the dog experienced cardiorespiratory arrest and died. Necropsy was not performed. Owned said he heard about some similar cases with FL but no information was provided.There is no further 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: 5.4 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) fluids and other unknown	List signs/symptoms/adverse effects Convulsion Dyspnoea Lethargy Circulatory shock 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 #

18BR004729

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 ALINE RODRIGUES DE ALMEIDA	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18BR005976
	Address RUA GUARA, 195 BELO HORIZONTE MG 31950550 Brazil		Address --UNKNOWN--	
	Phone # (31)34323201		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-20-2018	Date registrant became aware of incident. 09-24-2018	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)). 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 # 18BR005976

Brief description of incident circumstances

Suspected Lack of Efficacy Claim: As reported by the pet owner, Pirata, a male small crossbred dog of 8 years old and 10 kg, was treated with FRONTLINE SPRAY (FL) (004/17, unknown exp date, topical, back), applied by the reporter on 17 Aug 2018, for flea treatment. He was diagnosed with tick-borne disease prior to FL. Lack of efficacy was suspected because the pet was infested by fleas. The environment has been treated with an unknown product. Pirata died on date not specified because of the tick-borne disease. FL had been applied every 4 months with no issue (first application was not provided - 1 Jan 2017 - chosen at random). There is another dog in this household with a similar issue (see case 18BR005975). No further 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: 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: 19 Month(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: 15 Day(s) Patient weight: 10 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 #

18BR005976

* 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 Dr Jutta Donhauser	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18DE000488
	Address Hitchinstraße 45 Bingen 55411 Germany		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 06-28-2018	Date registrant became aware of incident. 07-03-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 33857.00.00	EPA Registration # (Product 2) EU/2/97/004/006	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL SPRAY	A.I. (s) Metacam meloxicam 5 mg/ml injection dog cat	A.I. (s)
	Product 1 name FRONTLINE SPRAY	Product 2 name Metacam 5 mg/ml solution for injection for dogs	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation	Formulation Solution for Injection	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 # 18DE000488

Brief description of incident circumstances

As reported by the attending vet a 14 year old female neutered European cat (2.8 kg body weight) was brouhgt to the vet in critical condition: extreme flea infestation, anemia, big abdomen, cachexia and showing inappetence since 2 days. The cat was treated once topically with 7 spray bursts of FRONTLINE SPRAY 100 ml (off-label: low dose; labeled dose 6-12 bursts/kg), 0.27 mg/kg;
off-label: indication; low dose) and once s.c. with 0.25 ml Synulox RTU. About 10 minutes later the cat showed trembling and convulsions and died after about 5 minutes. No more details.

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: 10 Minute(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Muscle tremor Convulsion Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 7 Other per 1 animal Expose duration: 0 Day(s) Patient weight: 2.8 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 #

18DE000488

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 Ms Schneidereit	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18DE000608
	Address Germany		Address --UNKNOWN--	
	Phone # +49 3521 406960		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-05-2018	Date registrant became aware of incident. 08-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) EU/2/97/004/026	EPA Registration # (Product 2) 400081.00.00	EPA Registration # (Product 3)
	A.I. (s) Metacam meloxicam 0.5 mg/ml oral suspension cats guinea pigs	A.I. (s) FIPRONIL SPOT ON DOG	A.I. (s)
	Product 1 name Metacam 0.5 mg/ml oral suspension for cats	Product 2 name FRONTLINE SPOT-ON H 10	Product 3 name
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Oral Suspension	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 # 18DE000608

Brief description of incident circumstances

An owner reported that her 7.5-year-old, male intact Miniature Spitz (body weight: 4.5 kg) has suffered from osteoarthritis. In Dec 2017 the dog then showed a first episode with toppling over, salivation and urination and it took about 20 minutes until the dog had recovered. The dog was therefore examined by a vet and a mild mitral insufficiency was diagnosed, which was not treated. During the following months the dog suffered from syncopes from time to time and additionally coughing was observed. After one of the recent episodes, the owner had the impression that the dog showed lameness in its hind quarters. The dog was therefore again presented to the vet. The vet assumed that the dog's coughing was an allergic reaction due to dust formation caused by construction works in the owner's house, which was not treated. For the lameness the vet handed over METACAM 0.5 MG/ML ORAL SUSPENSION FOR CATS, which was however not given by the owner at that time. On 27 Jul 2018 the owner treated her dog with one pipette FRONTLINE SPOT ON DOG S once topically for tick prophylaxis. On 05 Aug 2018 the dog had another syncope with subsequent lameness. Therefore, on the morning of 06 Aug 2018 the dog was treated by the owner's daughter for the first time with 0.2 mg/kg METACAM 0.5 MG/ML ORAL SUSPENSION FOR CATS once orally (off-label use: species). At that time the dog was in a poor general health state according to the owner. During the following hours the dog showed further 5 syncopes and additionally the dog's coughing deteriorated. As the attending vet was not available, the dog was presented to a different vet. A severe lung oedema was diagnosed and the dog was therefore treated with furosemide once intravenously. The owner was advised to bring the dog immediately to an animal hospital, but the dog died on the way to the hospital. No necropsy was done.

Demographic information: Age: 7.5 Year(s) - Sex : Male Occupation (if relevant)	Exposure route: PO-Oral	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) Furosemide for lung oedema	List signs/symptoms/adverse effects Circulatory disorder NOS Lameness Cough Pulmonary oedema Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 0.2 mg/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 #
18DE000608

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 Anne Bahrenberg	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18DE000638
	Address Tierarztpraxis Budde Witten 58452 Germany		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. 08-23-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 400729.00.00	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 COMBO SPOT ON 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)). 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 # 18DE000638

Brief description of incident circumstances

A vet reported that a 2-year-old, female neutered European Shorthair cat (body weight: 4.1 kg; health state prior to treatment: good) is known to suffer from flea bite allergy and had therefore been treated repeatedly with FRONTLINE COMBO in the past, which had always been tolerated without any problems. However, during the day of 31 Jul 2018 the cat was again prophylactically treated by the owner with 1 pipette FRONTLINE COMBO SPOT ON CAT once topically on the skin of neck. At the same time the owner treated its dog with ADVANTIX and her second cat with a combination product against fleas and worms (brand name unknown by the reporting vet). At about 3 a.m. of the following day (i.e. on 01 Aug 2018) the owner found the cat that had been treated with FRONTLINE COMBO with generalised epileptiform seizures. The cat was therefore brought to an animal hospital and was treated with anticonvulsants. However, as seizures persisted, the cat was anaesthetised, but died on the same day (after 20 hours of signs). No further diagnostics were done. Further information received: The affected cat and the dog did not have physical contact according to the owner and the owner excluded that the affected cat could have come into contact with ADVANTIX. Both cats of the owner are pure 'in-house' cats.

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 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: 0.5 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Anticonvulsants;	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: 1 dosage form per 1 animal Expose duration: 0 Day(s) Patient weight: 4.1 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 #

18DE000638

* 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 Mr Bertrand MUROL	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18FR000944
	Address France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-08-2018	Date registrant became aware of incident. 07-09-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/3168431 0/2003	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 COMBO 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)).	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 # 18FR000944

Brief description of incident circumstances

Suspected Adverse Event: As reported by the animal's owner, a 14-year-old male cat received FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered by the owner on 07 JUL 2018. One day after product administration, as described by the owner, the animal experienced a neurological side effect: it was very prostrated. It died at the vet clinic on 10 JUL 2018 (no more details were available at the time of this report).

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: 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 Lethargy 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 #

18FR000944

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 C ANS...	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18FR001011
	Address 01 France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-21-2018	Date registrant became aware of incident. 07-24-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/3168431 0/2003	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 COMBO 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)).	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 # 18FR001011

Brief description of incident circumstances

FR-ANMV-18 CPVL 01225: D0: Dwarf Lop rabbit applied with 1 pipette of FRONTLINE COMBO SPOT-ON CHAT. D1 and D2: it displayed anorexia associated with lethargy. D3 morning: same signs. Around noon, sudden onset of circling, then one convulsive fit of fatal outcome (before presentation 7 days. Duration of reaction (precision): 60 hours.
Reason for treatment: fleas. Treatment of SAR: none. Investigations: none. Outcome of SAR: Unfavorable. FRONTLINE COMBO SPOT-ON CHAT () : 1 pipette; duration: once; onset time: < 24 hours.

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 Anorexia Lethargy Ataxia Convulsion Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 1 pipette; duration: once; ons 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 #

18FR001011

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 LIL...	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18FR001080
	Address France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-17-2018	Date registrant became aware of incident. 08-07-2018	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)).	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 # 18FR001080

Brief description of incident circumstances

FR-ANMV-18 ANMV 01644: On 25 Jul 2018, the animal owner contacted Elanco regarding potential adverse event involving COMFORTIS in a 6 years old male neutered European cat weighing 5 to 6 kg. The condition of the dog prior treatment was unknown. On 10 Jul 2018, the owner applied Fipronil on the cats. On 17 Jul 2018, the pet owner administered one tablet of COMFORTIS 270 MG COMPRIMES A CROQUER POUR CHIENS ET CHATS (Batch and expiry unknown) orally to the cat for flea infestation first time. The owner decided to divide the tablet into two pieces to avoid vomit. The cat received the first half of the tablet with food at evening 4 pm and the second one at evening 9 pm (Misuse type: treatment program not respected). The owner noticed that the cat was a bit less reactive at 9pm (coded as dullness). On 18 Jul 2018, the cat found dead in the morning with blood going out from the mouth (coded as bloody foam in mouth and nose). Another cat received COMFORTIS at the same time and it was perfectly well. Elanco considered this case closed. Additional information will be filed as received.

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 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 Week(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Foam in respiratory tract Impaired consciousness 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: 5.5 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 #

18FR001080

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 Mrs LOECKX	Submission date. 11-05-2018	Contact person (if different than reporter) Dr LESAGE	Internal ID # 18FR001116
	Address France		Address Clinique Vétérinaire de la Croix Blanche Chemin de la Croix Blanche CUSSY LES FORGES 89420 France	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-11-2018	Date registrant became aware of incident. 08-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/3168431 0/2003	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 COMBO 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)).	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 # 18FR001116

Brief description of incident circumstances

Suspected Adverse Event: As reported by the attending vet, a 9-month-old kitten received one pipette of FRONTLINE COMBO SPOT ON CHAT (BN: R40309AW, exp. date: 01 JAN 2020) administered on 09 AUG 2018. 48 hours after product administration, the animal experienced hypothermia (34°C), apathy, loss of appetite and drooling. It was brought to the clinic on 11 AUG 2018 in the morning and it died in the afternoon despite treatment with charcoal (the owner did not want the animal to be hospitalised). Note: a dog living in the same household was treated with one pipette of VECTRA pour chiens (unsubstantiated product) on 09 AUG 2018 and it seems that the animal had ingested VECTRA after licking the dog.

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: 9 Month(s) - 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: 2 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Charcoal	List signs/symptoms/adverse effects Hypothermia Lethargy Anorexia Hypersalivation 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 #

18FR001116

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 Miss Kassandra RENDA	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18FR001144
	Address 59 Grande Rue LUCY LE BOIS 89200 France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-10-2018	Date registrant became aware of incident. 08-15-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/3168431 0/2003	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 COMBO 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)). 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 # 18FR001144

Brief description of incident circumstances

ADVERSE REACTION case: As reported by owner, a cat (unknown signalment) had received FRONTLINE COMBO SPOT ON CHAT (BN and expiry date unknown) topically administered by the owner (unspecified site of application) on 09 AUG 2018. 2 days after product administration the animal experienced behavioural disorders. It was brought to vet and hospitalised, receiving care (unspecified date and treatment). Cat then died on 15 AUG 2018 mid afternoon. No further information available at the time of this report. Note: according to owner, vet linked first behaviour disorders to FRONTLINE COMBO SPOT ON CHAT poisoing. Purebred cat but breed not specified, and in house cat.
MAH UPDATE 29 OCT 2018: this case was received once more by MAH on 18 OCT 2018 with additional information (18FR001470, FRA-BIAHPV1P-18FR001470). As discussed with the ANMV's PV department, these information have been integrated into this case as an update.
Suspected Adverse Event: As reported by the animal's owner, a 8.5-month-old female Bengal cat, ID 250268501299033, in good condition, received one pipette of FRONTLINE COMBO SPOT-ON CHAT (BN and exp. date: unknown) administered by the owner on 09 AUG 2018 in mid-afternoon for flea treatment. 1 day after product administration, on 10 AUG 2018, the animal experienced appetite loss and slight prostration without any other signs. On 11 AUG 2018, the owner observed vomiting, staggering and moaning and immediately brought it to the vet. The vet diagnosed poisoning, administered Dexadreson (1 mL) and prescribed Carbodote (15 mL every 6 hours for 24 h) and Phosphaluvet 250 (2.5 mL 3 times per day for 3 days). The animal went back home but several hours later its health condition had not improved. It was then brought back to the vet and treated with fluid therapy. Its condition did not improve and it died on 11 AUG 2018.

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: 8.5 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: 1 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Dexadreson (1 mL),	List signs/symptoms/adverse effects Death Anorexia Lethargy Emesis Ataxia Vocalisation		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 #

18FR001144

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 Nagatomo	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18JP000455
	Address Nishima AH 3-1-8 kimachi kokurakitaku kitakyusyushi fukuoka Japan		Address --UNKNOWN--	
	Phone # 093-591-8020		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-30-2018	Date registrant became aware of incident. 08-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 9 A 308	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)).	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 # 18JP000455

Brief description of incident circumstances

As reported by the attending veterinarian, on 30 Jul 2018, a 14 day old mix cat (BW and sex unknown), which was a picked up stray, was brought to the animal hospital and was administered Frontline Spray (Lot number: unknown, Expiry date: unknown, Route of administration: topical, Dose: 0.5 mL) by the veterinarian. The veterinarian estimated the age of the cat to be about two weeks old, as its eyes had just opened right about then. 0.5 mL (less than that described in the package insert) was taken in her hand and then rubbed onto the body of the cat. The cat became unwell after returning home, and died on 01 Aug 2018. UPDATE date (27 Aug 2018) BW was 180g. The cat was well and had a good appetite when it arrived at the hospital. Just after returning home, the owner gave milk to the cat, but it was already unwell and did not drink milk. (The time between the administration of Frontline Spray and arriving home was 30 minutes to less than 1 hour.) The owner took a wait-and-see approach for the night. On the next day (31 Jul 2018), the owner gave milk to the cat again, but it did not drink milk, so the cat was brought back to the hospital. As increased heart rate, decreased blood pressure and convulsion of the four limbs were observed, anti-allergic treatment was given. Body temperature was normal. The veterinarian instructed the owner to take the cat home and observe it. However, no improvement was seen, and the cat was brought to the hospital again on 01 Aug 2018. Increased heart rate, decreased blood pressure and decreased body temperature were observed, and anti-allergic treatment was given. After returning home, 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: 14 Day(s) - * 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) Anti-allergic treatment Exposure data: Amount of pesticide: 0.5 millilitres per 1 animal Expose duration: 0 Day(s) Patient weight: 180 gms Human severity category D-A	List signs/symptoms/adverse effects Loss of condition Death Lethargy Anorexia Tachycardia Hypotension Muscle tremor Hypothermia		If lab tests were performed, list test names and results(If available submit report). None reported

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

Internal ID #

18JP000455

* 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 Jungwook Park	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18KR000043
	Address South Korea		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident.	Date registrant became aware of incident. 07-11-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) -	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FRONTLINE PETCARE OILY SKIN SHAMPOO	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE PETCARE OILY SKIN SHAMPOO	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 Shampoo	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 # 18KR000043

Brief description of incident circumstances

As reported by attending vet, the canine(Mixed,8Years, Male, 4~5kg) was administrate with Frontline(Batch number: R62201AL, Exp. Date : Sep 2020) by attending vet on 9 July 2018. Frontline was not used before in this patient. Condition of animal prior to administration was normal. On the way to home (after 5 minutes), the dog was depress and extremely weak. When the dog came back to hospital and got auscultate, the dog's heart beat was weak without any other neurological symptoms, After 30 minutes, the dog 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 : Occupation (if relevant)	Exposure route:	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		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 #

18KR000043

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 Carol Kenny	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001483
	Address United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-01-2018	Date registrant became aware of incident. 07-05-2018	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 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? 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 # 18UK001483

Brief description of incident circumstances

As reported by the animal owner, two canines of unknown age, breed, reproductive status, in unknown condition and of unknown weight, were given FRONTLINE (assumed FRONTLINE SPOT ON DOG M, batch number and expiry date unknown) on an unknown date via an unknown route by the animal owner for an unknown indication. The animal owner reports that they used the product on these two animals, which they lost this year in JAN (estimated as 01 JAN 2018) with no problems at all. This case is linked to case 18UK001422.

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:	
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: 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 #

18UK001483

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 Panksha Shah	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001608
	Address Tesco Pharmacy Harrow HA1 2TU United Kingdom		Address --UNKNOWN--	
	Phone # 02038014327		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-23-2018	Date registrant became aware of incident. 07-24-2018	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)). Back of neck and shoulders	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 # 18UK001608

Brief description of incident circumstances

As reported by the pharmacist, Puddy a female domestic longhair feline approximately 12 years of age and of unknown weight, reproductive status and in unknown condition, was given FRONTLINE SPOT ON CAT (batch number R20502AW expiry date FEB 2020) on 22 JUL 2018 topically to the skin on the back of the neck and shoulder at an unknown dose by the animal owner as a parasiticide. The pharmacist states that the owner applied FRONTLINE to her cat yesterday (estimated 22 JUL 2018) and it has died. The animal owner further reports that they put FRONTLINE on the cat in the evening and she was asleep for a while and ate some food. They then put the cat to the litter tray. The next morning (estimated 23 JUL 2018) the cat was in the litter tray and didn't move all day. The animal owner phoned their vet in the afternoon and arranged an appointment for 17:30. The vet thought the cat had died about an hour or so before. The animal owner reported that the cat had been sleeping a lot recently but otherwise didn't seem unwell. On 25 JUL 2018 the attending vet reported that the cat was already dead when they saw it and the cat had a lot of fleas, hundreds and thousands, and the cat was covered with flea eggs. The cat was seen by the vet in October last year (October 2017) and had a bad infestation and hair loss. The mucus membranes were already a bit lighter then but the cat was not very anaemic. Advocate was dispensed. The owner told the vet that she had managed to control them for a while but they started to appear again and the infestation got bad again. The cat was quite skinny. The vet did not know if the cat had any conditions as they only ever saw her for fleas and it was not investigated. The vet suspected that the cat was already very weak from the fleas when the owner applied the flea product, but they could not comment. The cat was seen in 2015 as the cat was itchy. No further information was supplied.

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: 12 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 Death Recumbency Lethargy		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 #

18UK001608

* 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 Shannon Stevens	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001659
	Address Grove Lodge Veterinary Hospital (GlVG Ltd) 18 Upper Brighton Road Worthing, West Sussex BN14 9DL United Kingdom		Address --UNKNOWN--	
	Phone # 01903234866		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-30-2018	Date registrant became aware of incident. 07-30-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4113	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)). 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 # 18UK001659

Brief description of incident circumstances

As reported by the veterinary nurse at the practice, Pepper, a female intact Domestic Shorthair feline, born approximately 01 JUL 2018, of unknown weight and condition, and the two other kittens in the litter (one male one female), were administered FRONTLINE SPRAY (batch and expiry unknown) topically by the animal owner at a dose of 1 to 2 sprays on 03 JUL 2018, again on approximately 07 JUL 2018 and then every other day for approximately one week. On approximately 30 JUL 2018 Pepper coughed, spat out blood and then collapsed and died, it happened very quickly. The other kittens are reported to look ropey (coded as malaise) and since the death of the animal, the dam will not go near the other kittens (having been a good mother before) (assumed environmental exposure).

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: 29 Day(s) - Sex : Mixed 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 Week(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Pulmonary haemorrhage Collapse NOS Death Malaise Mothering disorder		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 2 dosage form per 1 animal Expose duration: 6 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 #

18UK001659

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 Leighton Richards	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001693
	Address Oak Veterinary Group Ltd Prendergast Place Farm Haverfordwest Pembrokeshire, SA61 2PL United Kingdom		Address --UNKNOWN--	
	Phone # 01437760111		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 06-14-2010	Date registrant became aware of incident. 08-02-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) EU/2/04/047/001	EPA Registration # (Product 2) EU/2/97/004/026	EPA Registration # (Product 3) EU/2/04/048/001
	A.I. (s) PUREVAX RCPCH FELV	A.I. (s) Metacam meloxicam 0.5 mg/ml oral suspension cats guinea pigs	A.I. (s) PUREVAX RCP FELV
	Product 1 name PUREVAX RCPCh FeLV	Product 2 name Metacam 0.5 mg/ml oral suspension for cats and	Product 3 name PUREVAX RCP FeLV
	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?	Exposed to concentrate prior to dilution ?
	Formulation Injectable	Formulation Oral Suspension	Formulation Injectable

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 # 18UK001693

Brief description of incident circumstances

As reported by the attending veterinary surgeon, Breezer, a 16 year old male neutered Domestic Shorthair feline, weighing 5.25 kg and in fair condition, was administered PUREVAX RCPCH FELV (batch L453219, expiry 21 JAN 2019) via an unknown route to an unknown site by the attending vet at a dose of 1 dosage form on 31 JUL 2018 as a booster vaccination. The cat had received the product before as annual boosters (dates unknown). The attending vet reports that during the consult they thought that the animal had possibly lost a bit of weight - the animal owner hadn't noticed any problems. On abdominal palpation the attending vet noted something in the cranial abdomen, and the animal had awful plaque that could be flicked off, and halitosis, but the teeth otherwise looked ok. The animal owner had no concerns and it is reported that the animal still went outside. The animal owner reported that the animal had been drinking more. The animal was vaccinated in the afternoon of 31 JUL 2018. The animal owner reported that the animal was weak and apathetic half an hour post vaccination. The animal collapsed and was lying down when it went home, and the animal owner thought this unusual, and the animal didn't eat after it had left the surgery, and wasn't very well at all. The animal is reported to have gone out over night and then in the morning of 01 AUG 2018 was found collapsed lying on the patio. The attending vet did not hear from the animal owner until the evening of 01 AUG 2018 when the animal was brought into the surgery as the animal had fallen down the steps. The animal was examined and it's pulse was 160, respiratory rate was increased, the abdominal swelling was more palpable and painful and the animal's temperature was too low to read. The animal was given antibiotics and steroids and placed in a warming chamber. The prognosis was guarded. By 11 pm the animal was brighter and was trying to move away from the heater, the animal's temperature was 34.5 degrees C. The
animal then passed away (died) overnight. The animal owner believes that the cat had an anaphylactic reaction, not substantiated by the attending vet.
UPDATE 14 AUG 2018: The attending vet reported that the cat had been sent for a post-mortem on 03 AUG 2018. Clinical History for the animal revealed the following information.
On 07 JUN 2010 the animal presented for swelling of the right hind and the animal had been off colour for the last couple of days. The vet found the animal to have a temperature of 40.5 degrees C, swelling over the right paw, pain but no crepitus and felt that it was most likely a cat bite abcess. The animal was reported to be an unvaccinated male. The animal was treated with 0.5 ml Convenia 80 mg/ml and 1 bottle of METACAM 0.5 MG/ML ORAL SUSPENSION (batch and expiry unknown) was prescribed, to be given at a 4 kg dose daily.
On 14 JUN 2010 the animal presented still lame (coded as Suspected Lack of Efficacy) and the foot was still a little swollen and tender, but the temperature was normal and the animal was bright, alert and responsive. The animal owner reported that they hadn't been managing to get all the METACAM in the mouth. The animal was prescribed METACAM 0.5 MG/ML ORAL SUSPENSION (batch and expiry unknown) to be given at a 5 kg dose daily. The animal was also Given Profender Spot on Large 5-8 kg.
On 04 AUG 2011 the animal presented for vaccination with PUREVAX RCP FELV (batch L371942, expiry 08 AUG 2012). It was noted that there was some calculus present on teeth. The animal was also given Drontal Cat XL Tablet.
On 25 AUG 2011 the animal was prescribed FRONTLINE COMBO SPOT ON CATS (batch and expiry unknown) to be applied one vial every six weeks. The animal was vaccinated with PUREVAX RCP FELV (batch L368660, expiry 18 MAY 2012).
On 27 FEB 2012 the animal was prescribed FRONTLINE COMBO SPOT ON CAT (batch G41201AW, expiry 31 JUL 2014).
On 05 JUL 2012 the animal was given Profender Spot on Large, to be applied one vial to the back of the neck and repeated in 3 months.
On 02 AUG 2012 the animal was vaccinated with PUREVAX RCP FELV (batch L385571, expiry 29 SEP 2013) and given FRONTLINE COMBO SPOT ON CAT (batch G42003CW, expiry unknown).
On 24 SEP 2012 the animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months. The animal was also given Advantage Large Cat/Rabbit.
On 29 JUL 2013 the animal was given PUREVAX RCP FELV (batch L391399, expiry 08 FEB 2014) and Drontal Cat Tablet. It is reported that the animal had a scab over the left pinna that the animal owner had been bathing at home. It had healed well and there were no other concerns with health. The patient was reported to be extremely unremarkable for age.
On 21 OCT 2013 the animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.

See continuation page

Demographic information: Age: 16 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:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Metacam 0.5 mg/ml oral	List signs/symptoms/adverse effects Abdominal mass Lethargy Lethargy Anorexia Abdominal pain Hypothermia Death Tachypnoea Weight loss Tooth disorder Polydipsia Halitosis Anaphylaxis Collapse NOS Malaise *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: 5.25 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 #
18UK001693

Row 2 : Pesticides Involved - continued

EPA Registration # (Product 4) Vm 08327/4210

A.I. (s) FIPRONIL 10%/S METHOPRENE 12% SPOT ON

Product 4 name FRONTLINE COMBO SPOT ON CATS

Exposed to contrentate prior to dilution ?

Formulation

Row 2 : Pesticides Involved - continued

EPA Registration # (Product 5) EU/2/13/157/001-007

A.I. (s) FIPRONIL 8.3% / S-METHOPRENE 10% / PRAZIQUANTEL 8.3% / EPRINOMECTIN 0.4% SPOT ON

Product 5 name BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 kg

Exposed to contrentate prior to dilution ?

Formulation

Row 2 : Pesticides Involved - continued

EPA Registration # (Product 6) EU/2/97/004/039

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

Product 6 name Metacam 2 mg/ml solution for injection for cats

Exposed to contrentate prior to dilution ?

Formulation Solution for Injection

Row 3 : Incident Circumstances - continued

On 07 AUG 2014 the animal was given PUREVAX RCP FELV (batch L405269, expiry 13 JUN 2015) and Drontal Cat XL. It is noted that the animal had a soft tissue mass in the dorsal neck. The animal was given an unspecified Anesthetic on this day.
On 12 JAN 2015 the animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.
On 30 JUN 2015 the animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.
On 04 AUG 2015 the animal came in for booster vaccination but the mass on the neck was looking nasty and ulcerated. The animal was given a General Anesthesia (unspecified), 0.26 ml Synulox, 0.53 ml METACAM 2 MG/ML SOLUTION FOR INJECTION (batch and expiry unknown) and 8 tablets of Clavaseptin Tablets 62.5 mg to be given twice daily. The animal had soft tissue surgery and the mass was removed but not sent off.
On 05 AUG 2015 the animal had a Total Protein
of 78 and PCV of 41 percent.
On 07 AUG 2015 The animal owner reported that they were concerned that the animal had not produced faeces and is desperate to go out.
On 01 OCT 2015 The animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.
On 14 JAN 2016 The animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.
On 23 APR 2016 The animal was given Profender Spot on Large, to be applied one vial to the back of the neck and between the shoulder blades and repeated in 3 months.
On 05 AUG 2016 the animal was vaccinated with PUREVAX RCP FELV (batch L431904, expiry 18 AUG 2017) and BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 KG (batch and expiry unknown). It is reported that the animal was ok on exam and there were no concerns from the animal owner. The animal had a few matts and the attending vet advised brushing. The animal was also microchipped.
On 17 JAN 2017 the animal was given BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 KG (batch and expiry unknown).
On 31 JUL 2017 the animal was given PUREVAX RCP FEVLV (batch L436671, expiry 02 DEC 2017) and

some tartar was noted on the left upper molars.
On 04 DEC 2017 the animal was given BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 KG (batch and expiry unknown).
On 24 MAY 2018 was given BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 KG (batch and expiry unknown).
On 31 JUL 2018 the animal was examined and it was noted that there was modest swelling of the cranial abdomen, and that the animal owner reported drinking more and losing a little weight. The plaque was removed from the animal's teeth. The animal was given PUREVAX RCPCH FELV (batch L435219, expiry 24 JAN 2019) and BROADLINE SPOT ON SOLUTION FOR CATS 2.5-7.5 KG (batch and expiry unknown). On 01 AUG 2018 the animal was presented to the vet, and it is reported that the animal was
weak and apathetic the previous day within half an hour of vaccination. The animal went out overnight and was lying on the patio. This morning the animal collapsed and had been the same all day. The animal's temperature was too low to record, pulse was 160 and repiratory rate was high. Abdominal swelling was similar to yesterday and painful. The animal was hospitalised in a warming chamber, and given Aquapharm 11 250 ml IVFT, Synulox 0.3 ml and Dexadreson 0.5 ml. On 02 AUG 2018 it is reported that they came in to find that the animal had passed away.
On 03 AUG 2018 the attending vet spoke with the pathologist and it was reported that the abdomen tumour was large and extremely haemorrhagic, likely liver or adrenal, and that the animal bled to death internally.

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

Ataxia

Lack of efficacy

Skin disorders NOS

Mass NOS

Ulceration NOS

Intestinal stasis

Hair change

Neoplasia NOS

Abdominal cavity haemorrhage

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 Chris Westbury	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001729
	Address 147 Ivy House Road Oldbury West Midlands B69 1HG United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-05-2018	Date registrant became aware of incident. 08-03-2018	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 # 18UK001729

Brief description of incident circumstances

As reported by the animal owner, a female long haired feline, of unknown age, reproductive status, weight and condition, was administered 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 had to take the animal to the vet because the animal was listless and not eating. When the animal was examined, it was found to have fleas. The animal owner reports that the animal never went outside the house and as they were treating the animal every month with FRONTLINE, they didn't feel the need to check the animal for fleas. The animal owner reports that they subsequently had to have the animal put down (euthanased). Start date added for submission purposes only.

ED_005739D_00014383-00587

Demographic information: Age: Unknown - 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:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) euthanasia	List signs/symptoms/adverse effects Anorexia Lethargy 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 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 #
18UK001729

ED_005739D_00014383-00588

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 J P	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK001929
	Address PR United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-24-2018	Date registrant became aware of incident. 08-24-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4210	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 COMBO SPOT ON 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	

ED_005739D_00014383-00589

Internal ID # 18UK001929

Brief description of incident circumstances

On 25 Jul 2018, the attending veterinarian contacted Elanco Animal Health with a suspected adverse events to Milbemax (milbemycin oxime, praziquantel) tablet cat in a 3 year old cat (Breed, weight and gender unknown). On an unknown date, (approximately taken as 1 Jan 2018, for reporting purpose) the patient received this product previously. On 24 July 2018, the owner given one tablet of Milbemax (batch number and expiry date unknown) tablet to the cat via orally for routine worming. On the same day, few hours later the cat was ataxic and vomited. On 25 July 2018, the cat admitted and started intravenous fluid therapy. In house blood test showed raised kidney value. Elanco considered this case closed. Additional information will be filed as received. Update 15 Aug 2018: The information received from the attending veterinarian stated that on 26 Jul 2018, repeat blood tests showed elevated renal parameters. On 27 Jul 2018, the cat was euthanized. No post mortem carried out. Elanco considered this case closed. Additional information will be filed as received.
Frontline Combo Spot-on Cat best guess VDM.

ED_005739D_00014383-00590

Demographic information: Age: 3 Year(s) - 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:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) IVFT (suspect product)	List signs/symptoms/adverse effects Ataxia Emesis Renal insufficiency 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: 1 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 #
18UK001929

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 Jamie Unknown	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18UK002301
	Address United Kingdom		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-28-2018	Date registrant became aware of incident. 09-28-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4267	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 SPOT ON 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	

ED_005739D_00014383-00592

Internal ID # 18UK002301

Brief description of incident circumstances

As reported by the animal owner, two ferrets of unknown age, weight, breed, reproductive status and in unknown condition, were given FRONTLINE PLUS SPOT ON CAT (batch number and expiry date unknown) two days ago (26 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 a 0.5 pipette to treat two ferrets. The animal owner reports that this morning (28 SEP 2018) the animal owner found both ferrets had 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: 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:	
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: 0.5 dosage form per 2 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 #

18UK002301

ED_005739D_00014383-00594

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 Trish Unknown	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US042336
	Address NEW PROVIDENCE PA 17560 U.S.A		Address --UNKNOWN--	
	Phone # 717-786-2726		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-05-2018	Date registrant became aware of incident. 07-05-2018	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 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 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)). 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	

ED_005739D_00014383-00595

Internal ID # 18US042336

Brief description of incident circumstances

Suspected Adverse Event: On 5 Jul 2018, the owner reported the following event for 2 felines (all other signalments unknown).
Unknown date: A couple drops of FRONTLINE GOLD DOG (product unsubstantiated) (lot unknown) were applied between the shoulder blades. After a few hours the cats passed away. It is unknown if any symptoms presented prior to that.
No further medical information is expected.

ED_005739D_00014383-00596

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 Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 2 drops 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 #
18US042336

* approximate

ED_005739D_00014383-00597

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 Mrs Debra Meyerson	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18ZA000101
	Address CAPE TOWN South Africa		Address --UNKNOWN--	
	Phone # 0215100253		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-30-2018	Date registrant became aware of incident. 08-13-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) G2999	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 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? 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	

ED_005739D_00014383-00598

Internal ID # 18ZA000101

Brief description of incident circumstances

Suspected Adverse Reaction: As reported by the owner, a dog, Border Collie, 20kg (other signalments unknown), in critical health condition, was treated with FRONTLINE PLUS DOG MEDIUM (BN and exp date unknown, product unsubtantiated), by the owner, topically, dosage once off, 3 weeks ago (23 Jul 2018 was chosen by default). The dog was sick prior to the treatment and had to be put down 1 week after treatment (30 Jul 2018 was chosen by default) due to pre-existing uncontrolled diarrhoea and weightloss of 9 kg. The owner used Bravecto before and said that the dog became aggressive. She also used Advantix recently. The dog lived with 2 other dogs who were also treated with FRONTLINE PLUS, 4 cats who were treated with an unknown product. The house was sprayed. This is the extent of information available. This case is linked with 18ZA000105.

ED_005739D_00014383-00599

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 Week(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 off Expose duration: 0 Day(s) Patient weight: 20 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 #
18ZA000101

* approximate

ED_005739D_00014383-00600

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 Susan Gordon	Submission date. 11-05-2018	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US043957
	Address 2550 SR 603 ASHLAND OH 44805 U.S.A		Address HORIZON ANIMAL HOSPITAL 933 BUCYRUS RD GALION OH, 44833 U.S.A	
	Phone # 419-895-1996		Phone # 419-468-2169	
	Incident Status: New If update,include date of original submission	Location and date of incident. 05-01-2015	Date registrant became aware of incident. 07-11-2018	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	

ED_005739D_00014383-00601

Internal ID # 18US043957

Brief description of incident circumstances

Suspected Adverse Event: On 11 Jul 2018, the owner reported the following event for Shelby, an 11 year old, 48 pound, spayed female, Schnauzer.
2004*: The dog started on 1 vial of FRONTLINE PLUS DOG 45-88 LBS (lot unknown) was given to the dog topically between the shoulder blades, by the owner. The dog also started on HEARTGARD PLUS (136 MCG/114 MG) (lot unknown, expiration date). The dog was treated with both products monthly on a seasonal basis from Mar-Dec.
May 2015*: The dog's back legs started losing reflexes. The kidneys started failing. The dog lost its mind and was shaky.
1 Nov 2017*: The dog was given another dose of FRONTLINE PLUS DOG 45-88 LBS.
15 Nov 2017*: The dog was given another dose of HEARTGARD PLUS (136 MCG/114 MG).
25 Dec 2017*: The dog was euthanized.
The dog was seen by the veterinarian and given incontinence tablets. No further medical information expected.

ED_005739D_00014383-00602

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: 11 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) incontinence tablets	List signs/symptoms/adverse effects Ataxia Renal insufficiency Mental impairment NOS Systemic 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: Patient weight: 48 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 #
18US043957

* approximate

ED_005739D_00014383-00603

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 Kris Weber	Submission date. 11-05-2018	Contact person (if different than reporter) Dr JANICE MALLORY	Internal ID # 18US045421
	Address RENSSELAER PET CARE 1103 N CULLEN ST RENSSELAER IN, 47978 U.S.A		Address RENSSELAER PET CARE 1103 N CULLEN ST RENSSELAER IN, 47978 U.S.A	
	Phone # 219-866-4671		Phone # 219-866-4671	
	Incident Status: New If update,include date of original submission	Location and date of incident. 06-28-2018	Date registrant became aware of incident. 07-17-2018	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	

ED_005739D_00014383-00604

Internal ID # 18US045421

Brief description of incident circumstances

Suspected Adverse Event: On 17 Jul 2018, the clinic staff reported the following event for Brett, a 19 month old (born 12 Nov 2016), about 10 pound, intact male Domestic Shorthair. 27 Jun 2018: The owner purchased FRONTLINE GOLD CAT (lot unknown) from the vet clinic. Unknown date: On an unknown date after purchase, the owner applied the FRONTLINE 1 vial, topically, to both of her cats. Within about 24 hours of application the cat developed neurological signs of staggering, tremors, and laying down laterally recumbent with the head and back arched backwards.. The cat was not seen and no treatments were provided. These symptoms lasted an unknown period of time and the cat died at home the day after application. A necropsy was not performed and the cat was buried at home. There is no known medical history for this cat available as the clinic has never seen the pet. The cat is an indoor/outdoor cat, but the owner is not aware of any known exposures to chemicals or toxins. The other cat that received the product remains asymptomatic. No further information is expected.

ED_005739D_00014383-00605

Demographic information: Age: 19 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: 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 Ataxia Muscle tremor Recumbency Convulsion 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: 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 #
18US045421

* approximate

ED_005739D_00014383-00606

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 Yvette Sheffer	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US046207
	Address 13784 East Edwards Rd. SOLSBERRY IN 47459 U.S.A		Address --UNKNOWN--	
	Phone # 812-825-9067		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-08-2018	Date registrant became aware of incident. 07-19-2018	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 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	

ED_005739D_00014383-00607

Internal ID # 18US046207

Brief description of incident circumstances

Suspected Adverse Event: On 19 July 2018, the owner reported the following event for Dolly, a 5 pound, 5 year old, female Yorkie.
8 July 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (R60830AL) was applied per label to the dog. Within 2 hours the dog was lethargic and anorexic, the dog passed away 6 hours after the treatment.
The dog was not seen by the vet, there are 3 other treated dogs in the home who were fine after the application. No further medical information available.

ED_005739D_00014383-00608

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: 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 Anorexia Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 2 Dose Expose duration: 0 Day(s) Patient weight: 5 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 #
18US046207

ED_005739D_00014383-00609

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 Betty Gaylor	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US046653
	Address 287 pancake holland rd HIGHLAND NY 12528 U.S.A		Address --UNKNOWN--	
	Phone # 845-616-8242		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-19-2018	Date registrant became aware of incident. 07-20-2018	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)). 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	

ED_005739D_00014383-00610

Internal ID # 18US046653

Brief description of incident circumstances

Suspected Adverse Event: On 20 July 2018, the owner reported the following event for Brutus, a 10 week old, 9.5 pound, intact male Domestic Shorthair .
19 Jul 2018: One vial of FRONTLINE PLUS CATS (G40103AW) was topically applied to the cat for the first time per label.
19 July 2018: The cat had a seizure, the owner bathed the cat in Dawn and fifteen minutes later the cat passed away.
There are two other FL treated cats in the home who also had symptoms and passed away. See case 18US047029 and 18US047239. No further information available.

ED_005739D_00014383-00611

Demographic information: Age: 10 Week(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 Convulsion		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: 9.5 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 #
18US046653

* approximate

ED_005739D_00014383-00612

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 Betty Gaylor	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US047029
	Address 287 pancake holland rd HIGHLAND NY 12528 U.S.A		Address --UNKNOWN--	
	Phone # 845-616-8242		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-20-2018	Date registrant became aware of incident. 07-20-2018	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)). 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	

ED_005739D_00014383-00613

Internal ID # 18US047029

Brief description of incident circumstances

Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a Button, a 2.5 year old, 11 pound, spayed female Domestic Shorthair.
19 Jul 2018: One vial of FRONTLINE PLUS CATS (FL) (G40103AW) was topically applied to the cat.

20 July 2018: The cat started to convulse, she was taken to the vet and given medication. The cat passed away that day. Bloodwork was performed at the clinic.
The cat has been on FL all her life with no issues. There are two other FL treated cat in the home who passed away. See case 18US046653 and 18SU047239. No further information available.

ED_005739D_00014383-00614

Demographic information: Age: 2.5 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: 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 Convulsion 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: 11 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 #
18US047029

* approximate

ED_005739D_00014383-00615

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 Betty Gaylor	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US047239
	Address 287 pancake holland rd HIGHLAND NY 12528 U.S.A		Address --UNKNOWN--	
	Phone # 845-616-8242		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-20-2018	Date registrant became aware of incident. 07-20-2018	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)). 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	

ED_005739D_00014383-00616

Internal ID # 18US047239

Brief description of incident circumstances

Suspected Adverse Event: On 20 July 2018, the owner reported the following event for a Tina, a 2.5 year old, 11.5 pound, spayed female Domestic Shorthair.
19 Jul 2018: One vial of FRONTLINE PLUS CATS (FL) (G40103AW) was topically applied to the cat.

20 July 2018: The cat started to convulse, she was taken to the vet and given medication. The cat passed away that day. Bloodwork was performed at the clinic.
The cat has been on FL all her life with no issues. There are two other FL treated cat in the home who passed away. See case 18US046653 and 18US047029. No further information available.

ED_005739D_00014383-00617

Demographic information: Age: 2.5 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: 2 Year(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: 1 Dose Expose duration: 2 Year(s) Patient weight: 11.5 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 #
18US047239

* 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 Cynthia Simmmons	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US048947
	Address PIKESVILLE MD 21208 U.S.A		Address --UNKNOWN--	
	Phone # 410-913-6435		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 06-01-2018	Date registrant became aware of incident. 07-27-2018	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)). 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	

ED_005739D_00014383-00619

Internal ID # 18US048947

Brief description of incident circumstances

Suspected Adverse Event: On 27 Jul 2018, the owner reported the following event for Peanut, 10 year old, 11 pound, neutered male (all other signalments unknown).
1 Jun 2018*: Fleas were seen on the pet. One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades. The pet experienced pruritus. The pet was not presented to the clinic and no treatment was provided.
2 Jun 2018*: The pet passed away due to Diabetes.
The pet has received the product on prior unknown dates and no symptoms presented. There are 3 other cats in the household that also received the product and experienced symptoms (see case 18US048516, 18US048946 and 18US049352). No further medical information is expected.

ED_005739D_00014383-00620

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:	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Pruritus 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: 11 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 #
18US048947

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 HAMSLEY	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US049622
	Address SMITH ANIMAL HOSPITAL 2032 US HIGHWAY 341 N PERRY, GA 31069 U.S.A		Address --UNKNOWN--	
	Phone # 478-987-1514		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-28-2018	Date registrant became aware of incident. 08-01-2018	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 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? 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	

ED_005739D_00014383-00622

Internal ID # 18US049622

Brief description of incident circumstances

Suspected Adverse Event: On the 1 Aug 2018, a veterinarian reported the following event for Fancy, an 80 pound, 2 year old (unknown date of birth), female, unknown reproductive status, Akita.
28 Jul 2018: The Owner applied for the first time FRONTLINE PLUS DOG 89-132 LBS (unknown lot number), topically, between the shoulder blades. Later that day the dog had mild panting and restlessness that was on and off for about 4 times that day.
29 Jul 2018: Around 12:30 pm, the dog had tremors and she urinated and defecated herself after having a seizure.
1 Aug 2018: The owner contacted the veterinarian and she advised to bring the dog in for a check up and on the way into the clinic the dog passed away, by the time she made it into the clinic rigor mortis had already set in the legs and paws.
The pet owner told the veterinarian that there were fleas in his home and that an exterminating company had recently sprayed the home with an unknown pesticide, the owners and the dog were away while the home was treated with the pesticide. No further information available at this time.
UPDATE 1 Aug 2018: Per the veterinarian, the pesticide products used in the home were Onslaught (S-fenvalerate 6.4%) and Pre-Core (S-methoprene 1.2%). The pet's last rabies vaccination was given on 22 Dec 2016, and the pet is overdue for a booster. Necropsy and rabies testing will be performed. No further information at this time.
UPDATE 16 Aug 2018: Per medical record, histopathology revealed a final diagnosis of granulomatous meningoencephalitis. The brain was negative for rabies. Aerobic culture revealed Enterococcus faecalis: heavy growth in the lung, few colonies in the kidney, and moderate growth in the intestine. Aerobic culture also revealed moderate growth of Staphylococcus intermedius in the lung. No further medical information expected.

ED_005739D_00014383-00623

Demographic information: Age: 2 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 Tachypnoea Hyperactivity Muscle tremor Urinary incontinence Involuntary defecation Convulsion Death Encephalitis Septicaemia		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: 80 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 #
18US049622

ED_005739D_00014383-00624

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 Theresa Kravats	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US050179
	Address 6325 Prince Edward Hwy PROSPECT VA 23960 U.S.A		Address --UNKNOWN--	
	Phone # 434-414-2956		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-03-2018	Date registrant became aware of incident. 08-03-2018	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 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)).	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	

ED_005739D_00014383-00625

Internal ID # 18US050179

Brief description of incident circumstances

Suspected Adverse Event: On 3 Aug 2018, the owner reported the following event for five 45 day old, Pomeranians (all other signalments unknown).
2015*: The mother started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R61914AR) given to the dog topically between the shoulder blades. The dog was treated on a year round basis.
19 Jun 2018: The puppies were born.
1 Aug 2018: The mother was given another dose of the product.
3 Aug 2018: The puppies died.
The puppies were not seen by a veterinarian or given any treatment. No further medical information expected.

ED_005739D_00014383-00626

Demographic information: Age: 45 Day(s) - 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: 3 Year(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: 3 Year(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 #
18US050179

* approximate

ED_005739D_00014383-00627

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 Beth Nolan	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US050964
	Address P.O. Box 62 Hackettstown NJ 07842 U.S.A		Address --UNKNOWN--	
	Phone # 201-259-4376		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-03-2018	Date registrant became aware of incident. 08-07-2018	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	

ED_005739D_00014383-00628

Internal ID # 18US050964

Brief description of incident circumstances

Suspected Adverse Event: On 7 Aug 2018, the owner reported the following event for Chase, 12 year old, 14 pound, neutered male, Domestic Shorthair feline.
3 Aug 2018: Half a vial of FRONTLINE PLUS CATS (R41201) was applied between the shoulder blades. The cat became ataxic and lethargic. The pet was not presented to the clinic and no treatment was provided.
5 Aug 2018: The cat passed away.
The pet has received the product in the past on unknown dates and experienced lethargy. No further medical information is expected.

ED_005739D_00014383-00629

Demographic information: Age: 12 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 Ataxia Lethargy Death		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: 0.5 Dose Expose duration: Patient weight: 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 #
18US050964

ED_005739D_00014383-00630

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 Kelley GEBHARDT	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US051020
	Address HAPPY TAILS VET EMERGENCY CLINIC 3912-112 BATTLEGROUND AVE # 299 GREENSBORO NC, 27410 U.S.A		Address --UNKNOWN--	
	Phone # 336-288-2688		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. 08-06-2018	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? 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	

ED_005739D_00014383-00631

Internal ID # 18US051020

Brief description of incident circumstances

Suspected Adverse Event: On 4 Aug 2018, the following event was reported to Safety Call International (SCI) by the veterinarian for Buddy, a 9.42 pound, 10 year old, neutered male, Domestic Short Hair.
30 Jul 2018: Cat had 1 pipette FRONTLINE GOLD FOR CATS (lot unknown) applied in the evening.
31 Jul 2018: Cat began acting abnormally. Abnormally is not defined in the report.
1 Aug 2018: Cat started experiencing vomiting and anorexia.
2 Aug 2018: Pet owner reported symptoms to the vet clinic, who instructed her to bathe the cat with dish soap.
3 Aug 2018: Owner reported to the clinic symptoms were getting worse and was instructed to bring the cat in for evaluation, but owner declined.
4 Aug 2014: In the morning cat started having undefined seizure activity, experiencing hypothermia, and laterally recumbent. Owner declined treatment and considering euthanasia. It is unknown if the cat had received the product previously.
UPDATE 9 Aug 2018: Per the clinic, pet died in the owner's arms on 7 Aug 2018 before they could euthanize. No further medical information expected.

ED_005739D_00014383-00632

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: 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 Behavioural disorder NOS Emesis Anorexia Convulsion Hypothermia Recumbency 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: 9.42 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 #
18US051020

* approximate

ED_005739D_00014383-00633

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 Bill Eichelberger	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US051815
	Address 888 South Happy Hill Rd LEXINGTON NC 27295 U.S.A		Address --UNKNOWN--	
	Phone # 336-236-1257		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 05-15-2018	Date registrant became aware of incident. 08-09-2018	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)). 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	

ED_005739D_00014383-00634

Internal ID # 18US051815

Brief description of incident circumstances

Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Bernie, a 2 year old, 4 pound, spayed female Domestic Shorthair.
1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) was applied per label.
*15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching.
*1 June 2018: The cat passed away.
The cat had been using FLSP since March 2018. There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US052099, 18US052111, and 18US052129. No further information available.

ED_005739D_00014383-00635

Demographic information: Age: 2 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: 10 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Flea infestation Convulsion Pruritus 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: 8 Week(s) Patient weight: 4 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 #
18US051815

* approximate

ED_005739D_00014383-00636

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 Bill Eichelberger	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US052099
	Address 888 South Happy Hill Rd LEXINGTON NC 27295 U.S.A		Address --UNKNOWN--	
	Phone # 336-236-1257		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 05-15-2018	Date registrant became aware of incident. 08-09-2018	Was incident part of larger study ? No

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

ED_005739D_00014383-00637

Internal ID # 18US052099

Brief description of incident circumstances

Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Schroder, a 5 year old, 8 pound, neutered male Domestic Longthair.
1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) (FLSP) was applied per label.
*15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching.
*1 June 2018: The owner applied FRONTLINE PLUS CATS (FL) (lot unknown) to the cat.
*7 June 2018: The cat passed away.
The cat had been using FLSP since March 2018 and has had FL in the past with no past issues.
There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US051815, 18US052111, and 18US052129. No further information available.
Update 22 Aug 2018: Upon further review, missing patient information was added to the patient screen.

ED_005739D_00014383-00638

Demographic information: Age: 5 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: 3 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 Flea infestation Convulsion Pruritus		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: 8 Week(s) Patient weight: 8.0 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 #
18US052099

* approximate

ED_005739D_00014383-00639

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 Bill Eichelberger	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US052111
	Address 888 South Happy Hill Rd LEXINGTON NC 27295 U.S.A		Address --UNKNOWN--	
	Phone # 336-236-1257		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 05-15-2018	Date registrant became aware of incident. 08-09-2018	Was incident part of larger study ? No

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

ED_005739D_00014383-00640

Internal ID # 18US052111

Brief description of incident circumstances

Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Linus, a 5 year old, 6 pound, neutered male Domestic Longhair.
1 May 2018: The cats had fleas and FRONTLINE SPRAY (FLSP) (R01403A) was applied per label.
*15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching.
*1 June 2018: The cat was treated per label with FRONTLINE PLUS CATS (FL) (lot unknown).
*12 June 2018: The cat continued to have fleas and passed away.
The cat had been using FLSP since March 2018 and has FL in the past with no issues. There are a total of 8 treated cats and 3 other cats in the home that passed away. See cases 18US051815, 18US052099, and 18US052129. No further information available.

ED_005739D_00014383-00641

Demographic information: Age: 5 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: 10 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Flea infestation Convulsion Pruritus 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: 8 Week(s) Patient weight: 6 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 #
18US052111

* approximate

ED_005739D_00014383-00642

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 Bill Eichelberger	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US052129
	Address 888 South Happy Hill Rd LEXINGTON NC 27295 U.S.A		Address --UNKNOWN--	
	Phone # 336-236-1257		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 05-15-2018	Date registrant became aware of incident. 08-09-2018	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)). 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	

ED_005739D_00014383-00643

Internal ID # 18US052129

Brief description of incident circumstances

Suspected Adverse Event: On 9 August 2018, the owner reported the following event for Smidge, a 2 year old, 4 pound, spayed female Siamese.
1 May 2018: The cats had fleas and FRONTLINE SPRAY (R01403A) was applied per label.
*15 May 2018: The cat continued to battle fleas and developed a massive flea infestation. The cat also developed seizures and was constantly scratching.
*4 Jul 2018: The cat passed away.
The cat had been using FLSP since March 2018. There are a total of 8 treated cats and 3 other cats in the home that passed away. See case 18US051815, 18US052099, 18US052111. No further information available.

ED_005739D_00014383-00644

Demographic information: Age: 2 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: 10 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Flea infestation Convulsion Pruritus 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: 8 Week(s) Patient weight: 4 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 #
18US052129

* approximate

ED_005739D_00014383-00645

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 Sandra Meloidones	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US053719
	Address 652 Effex st BANGOR ME 04401 U.S.A		Address --UNKNOWN--	
	Phone # 207-974-7823		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-02-2015	Date registrant became aware of incident. 08-22-2018	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	

ED_005739D_00014383-00646

Internal ID # 18US053719

Brief description of incident circumstances

Suspected Adverse Event: On 22 Aug 2018, the owner reported the following event for Bella, 10 year old, 34 pound, spayed female, English Springer Spaniel canine.
2015*: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. On an unknown date the pet was presented to the clinic. The attending veterinarian diagnosed the pet with Renal failure and Lyme disease. It is unknown what treatments were provided.
22 Aug 2018: The dog passed away.
The pet received Bravecto monthly since 2016*. No further medical information is expected.

ED_005739D_00014383-00647

Demographic information: Age: 10 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 Renal insufficiency Lyme disease 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: 34 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 #
18US053719

ED_005739D_00014383-00648

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 Rosa Militllo	Submission date. 11-05-2018	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US054464
	Address 808 Brant Farnham Rd IRVING NY 14081 U.S.A		Address EDEN VETERINARY CLINIC 8217 N MAIN ST EDEN, NY 14057 U.S.A	
	Phone # 716-225-9353		Phone # 716-992-3477	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-18-2018	Date registrant became aware of incident. 08-20-2018	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	

ED_005739D_00014383-00649

Internal ID # 18US054464

Brief description of incident circumstances

Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for Milly, an approximately 5 year old, 3.5 pound, spayed female, Siamese.
Apr 2018*: The cat started on 1 vial of FRONTLINE PLUS CATS (P40101AW) given to the cat topically between the shoulder blades, by the owner. The cat was not treated regularly.
17 Aug 2018: The cat was given another dose of the product.
18 Aug 2018: The cat vomited, had trouble walking and the back legs were cold. The cat was euthanized.
The cat was seen by a veterinarian but was not given any treatment. The veterinarian diagnosed the cat having a blood clot. No further medical information expected.

ED_005739D_00014383-00650

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: 4 Month(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Emesis Thrombosis 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 Expose duration: 4 Month(s) Patient weight: 3.5 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 #
18US054464

* 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 Dustin Powers	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US054742
	Address 4585 Fredrica St. , room 205 OWENSBORO KY 42303 U.S.A		Address --UNKNOWN--	
	Phone # 270-686-8606		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-09-2018	Date registrant became aware of incident. 08-20-2018	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	

ED_005739D_00014383-00652

Internal ID # 18US054742

Brief description of incident circumstances

Suspected Adverse Event: On 20 Aug 2018, the owner reported the following event for a 6 week old, approximately 1 pound, intact male, feline (unknown).
9 Aug 2018*: 1 vial of FRONTLINE PLUS CATS (lot unknown) was given to the cat topically between the shoulder blades, by the owner. This was the first dose applied. After the application, the cat started having trouble walking.
10 Aug 2018*: The cat had a seizure and then died.
The cat was not seen by a veterinarian or given any treatment.
UPDATE 20 Aug 2018: On review of case, the patient was under the label age and weight for product given.
No further medical information expected.

ED_005739D_00014383-00653

Demographic information: Age: 6 Week(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 Ataxia Convulsion 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: 1 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 #
18US054742

* approximate

ED_005739D_00014383-00654

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 Sherri Thompson	Submission date. 11-05-2018	Contact person (if different than reporter) Dr KURTS	Internal ID # 18US055404
	Address FINGER LAKES ANIMAL HOSPITAL 5383 THOMAS RD CANANDAIGUA NY, 14424 U.S.A		Address FINGER LAKES ANIMAL HOSPITAL U.S.A	
	Phone # 585-394-2288		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-22-2018	Date registrant became aware of incident. 08-22-2018	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)). 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	

ED_005739D_00014383-00655

Internal ID # 18US055404

Brief description of incident circumstances

Suspected Adverse Event: On the 22 Aug 2018, a veterinary technician reported the following event for Patricia, a female feline of unknown further signalment.
22 Aug 2018: The pet owner applied FRONTLINE (unsubstantiated) (lot and expiry unknown) to the cat on an unknown location. About 2 hours later the cat passed away.
It is unknown if this is the first time the patient received this product. No further information available.
UPDATE 22 Aug 2018: According to the clinic staff, the cat was 15 months old and spayed. The FRONTLINE PLUS CATS (PP41102AX) was applied 1 vial between the shoulder blades down to the skin on 21 Aug 2018. The cat passed away on 22 Aug 2018. No further medical information expected.

ED_005739D_00014383-00656

Demographic information: Age: 15 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: 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: 1 Dose 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 #
18US055404

* 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 Deb Keller	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US055642
	Address 905 Clifton Heights Apt 4 HUMMELSTOWN PA 17036 U.S.A		Address --UNKNOWN--	
	Phone # 717-566-2438		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-09-2018	Date registrant became aware of incident. 08-23-2018	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)). 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	

ED_005739D_00014383-00658

Internal ID # 18US055642

Brief description of incident circumstances

Suspected Adverse Event: On 23 Aug 2018, the owner reported the following event for Reuben, a 15 year old, approximately 25 pound, neutered male, Domestic Shorthair (Crossbreed).
2008*: The cat started on 1 vial of FRONTLINE PLUS CATS (lot unknown) given to the cat topically between the shoulder blades, by the owner. The cat was treated monthly on a seasonal basis from Mar-Nov.
Jul 2018*: The cat received another dose of the product.
9 Aug 2018*: The cat was lethargic, not eating, hiding, was weak to the point of not being able to stand, and crying. The owner was also seeing fleas.
15 Aug 2018: The cat received the most recent dose of the product. The symptoms continued.
23 Aug 2018: The cat died. The symptoms were ongoing prior to the cats death.
The cat was not seen by a veterinarian or given any treatment. There was 2 other cats treated with the product that had symptoms (see case 18US056029 and 18US056030). No further medical information expected.

ED_005739D_00014383-00659

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: 10 Year(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 Behavioural disorder NOS Ataxia Vocalisation Flea infestation 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: 10 Year(s) 5 Month(s) Patient weight: 25 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 #
18US055642

* approximate

ED_005739D_00014383-00660

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 Audra Langston	Submission date. 11-05-2018	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US057411
	Address 1012 N Main Ave. PORTALES NM 88130 U.S.A		Address MULESHOE ANIMAL CLINIC 1430 US HIGHWAY MULESHOE TX, 79347 U.S.A	
	Phone # 540-676-2560		Phone # 806-272-3061	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-29-2018	Date registrant became aware of incident. 08-30-2018	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)).	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	

ED_005739D_00014383-00661

Internal ID # 18US057411

Brief description of incident circumstances

Suspected Adverse Event: On 30 Aug 2018, the owner reported the following event for Chappy, a 6 month old, 5 pound, intact male Domestic Longthair.
29 Aug 2018: One vial of FRONTLINE PLUS CATS (FL) (lot unknown) was topically applied to the cat between the shoulder blades and to the base of the tail for the first time. Two hours later the cat started to act abnormal like he was on acid. Five hours later the cat passed.
The cat has not been examined by the vet, there was one other cat in the home who also passed away, see case 18US057402. No further information available.

ED_005739D_00014383-00662

Demographic information: Age: 6 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 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: 31 Day(s) Patient weight: 5 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 #
18US057411

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 Kim Rowell	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US057850
	Address 1205 Delta St. LINDSAY CA 93247 U.S.A		Address --UNKNOWN--	
	Phone # 559-562-4061		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-02-2018	Date registrant became aware of incident. 08-31-2018	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	

ED_005739D_00014383-00664

Internal ID # 18US057850

Brief description of incident circumstances

Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for a 6 year old Doberman (signalment unknown).
*1 July 2018: FRONTLINE PLUS DOG 23-44 LBS (P63205AL) was applied to the dog.
Following the treatment on an unknown date, the dog had discharge from his eyes and various neurological issues. The dog was euthanized on a unknown date. There was one other treated dog in the home who also had passed away. See case 18US058780. No further medical iformation available.

ED_005739D_00014383-00665

Demographic information: Age: 6 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: 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 Eye disorder NOS Neurological 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: 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 #
18US057850

ED_005739D_00014383-00666

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 Mike Kimmeck	Submission date. 11-05-2018	Contact person (if different than reporter) Dr VINCENT SVONAVEC	Internal ID # 18US057874
	Address 1542 Gardner Rd. SOMERSET PA 15501 U.S.A		Address ANIMAL MEDICAL CENTER 1911 N CENTER AVE SOMERSET PA, 15501 U.S.A	
	Phone # 954-298-5092		Phone # 814-443-6979	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-31-2018	Date registrant became aware of incident. 08-31-2018	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)). 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		

ED_005739D_00014383-00667

Internal ID # 18US057874

Brief description of incident circumstances

Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for Feline, Daisy, a 4 pound*, Female spayed, Domestic Longhair.
30 Aug 2018: One vial of FRONTLINE PLUS CATS (R41201AW) was applied between the shoulder blades.
31 Aug 2018: The Feline was found underneath the owner's car deceased. The owner stated that the pet had used Frontline Gold for Cats in the Past and had no symptoms. The pet was not presented to the clinic. No further medical information is expected.
UPDATE 7 Sep 2018: Per veterinarian, a gross necropsy was performed, but no obvious cause of death could be determined. Remains were frozen, and histopathology is planned. No further information at this time.

ED_005739D_00014383-00668

Demographic information: Age: 6 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: 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: 1 Dose per 1 animal Expose duration: 0 Day(s) Patient weight: 4 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 #
18US057874

ED_005739D_00014383-00669

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 Kim Rowell	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US058780
	Address 1205 Delta St. LINDSAY CA 93247 U.S.A		Address --UNKNOWN--	
	Phone # 559-562-4061		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-22-2018	Date registrant became aware of incident. 08-31-2018	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	

ED_005739D_00014383-00670

Internal ID # 18US058780

Brief description of incident circumstances

Suspected Adverse Event: On 31 Aug 2018, the owner reported the following event for a 8 year old Beagle (signalment unknown).
*1 July 2018: FRONTLINE PLUS DOG 23-44 LBS (P63205AL) was applied to the dog.
Following the treatment on an unknown date, the dog died in its sleep. There was one other treated dog in the home who also had passed away. See case 18US057850. No further medical iformation available.

ED_005739D_00014383-00671

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: 3 Week(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 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 #
18US058780

* 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 Chris Tomlin	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US059346
	Address U.S.A		Address --UNKNOWN--	
	Phone # 214-207-5849		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-24-2018	Date registrant became aware of incident. 09-07-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4210	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 COMBO SPOT ON 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)). 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	

ED_005739D_00014383-00673

Internal ID # 18US059346

Brief description of incident circumstances

Suspected Adverse Event: On 7 Sep 2018 the attending vet reported the following event for Chances, 12 year old, 9 pound, spayed female Domestic Shorthair feline.
*4 Aug 2018: 1 vial of FRONTLINE COMBO SPOT ON CATS (P41408CL) was applied between the shoulder blades.
*24 Aug 2018: Cat began to experience a loss of vision.
4 Sep 2018: Another vial was applied.
6 Sep 2018: The pet began to experience twitching and was less active. The cat died at *9:30 am and was presented to the clinic at *9:35 am.
There is an unknown numbers dogs in the home that are using a flea and tick control product that contains a pyrethrin.
No further medical information expected.
Update 05 Oct 2018: The contact page was revised.
UPDATE 26 Oct 2018: Per a conversation with the veterinarian, a necropsy was done and multiple gross abnormalities were found. The patient's serum potassium level was 10 (reference range and units not given).
UPDATE 31 Oct 2018: Per medical records sent, on 8 Sep 2018, blood work was run and showed 0.17 K/uL (reference range = 2.50 - 12.50), LYM = 8.32 K/uL (0.40 - 6.80), EOS = 0.05 2.7 mg/dL (0.8 - 2.4), BUN = 45 mg/dL 15.7 mg/dL (3.1 - 7.5), ALT high, but unreadable, Na = 149 mmol/L (150 - > 10.0 mmol/L (3.5 - 5.8). A Rabies FA Antigen done at the Texas Department of State Health Services on 8 Sep 2018 and was negative. Histopathologic diagnoses on necropsy were: multifocal myocardial fibrosis, widespread subacute pulmonary edema with multifocal lymphocytic peribronchiolar pneumonia, moderate chronic institial nephritis and acute centrilobular hepatic congestion. Comments made by the pathologist are that the most important lesions affected the myocardium, lungs and kidneys. The myocardial lesion is histologically compatible with cardiomyopathy. Underlying cardiomyopathy, presumably, contributed to the clinical syndrome. The pulmonary edema and acute centrilobular hepatic congestion are indicative of some degree of heart failure. No histopathologic evidence of ethlene glycol intoxication was observed in the examined section of kidney. A toxic chemical screen done did not detect any toxic chemicals including organophosphates, some carbamates, organochlorine insecticides, permethrine, petroleum products and some drugs.

ED_005739D_00014383-00674

Demographic information: Age: 12 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: 20 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Impaired vision Muscle tremor Lethargy Death Electrolyte disorder Neutropenia Lymphocytosis Abnormal test result Hyperglycaemia Renal insufficiency Changes in blood phosphorous Hepatopathy Electrolyte disorder Cardiomyopathy Pulmonary oedema *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 Dose per 1 Expose duration: 31 Day(s) Patient weight: 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 #
18US059346

* approximate

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

Pneumonia

Nephritis

Hepatic disorder NOS

Cardiac insufficiency

ED_005739D_00014383-00675

ED_005739D_00014383-00676

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 Joseph Blackmore	Submission date. 11-05-2018	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US060470
	Address 25 Corson Rd CONSHOHOCKEN PA 19428 U.S.A		Address CONSHOHOCKEN VETERINARY HOSPITAL 316 W RIDGE PIKE CONSHOHOCKEN PA, 19428 U.S.A	
	Phone # 610-639-2539		Phone # 610-828-7520	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-03-2018	Date registrant became aware of incident. 09-12-2018	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? 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)). from the shoulder blades to the	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	

ED_005739D_00014383-00677

Internal ID # 18US060470

Brief description of incident circumstances

Suspected Adverse Event: On 12 Sep 2018, the owner reported the following event for two 30 pound, male, Spaniels (Cocker) (all other signalments unknown).
2011: The dogs started on an unknown amount of FRONTLINE PLUS DOG 45-88 LBS. The owner treated as needed.
3 Sep 2018: The owner split a dose of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) between four dogs topically, from the shoulder blades to the tail. Within an hour of the application, two dogs started having difficulty breathing and walking. Then both dogs died.
The dogs were not seen by a veterinarian or given any treatment. No further medical information expected.

ED_005739D_00014383-00678

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: 7 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Dyspnoea Ataxia 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: 30 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 #
18US060470

* 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 Leslie Buchanan	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US062890
	Address 2257 North Fountain Blvd. SPRINGFIELD OH 45504 U.S.A		Address --UNKNOWN--	
	Phone # 937-408-6697		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-17-2018	Date registrant became aware of incident. 09-20-2018	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	

ED_005739D_00014383-00680

Internal ID # 18US062890

Brief description of incident circumstances

Suspected Adverse Event: On 20 September 2018, the owner reported the following event for Zachary,a 13 year old, 20 pound, neutered male cat (breed unknown by owner).
*16 August 2018: One vial of FRONTLINE PLUS CATS (R41005AW) was topically applied to the cat.
*17 August 2018: The cat seemed lethargic and his appetite started to change. The symptoms continued to the next dose.
16 September 2018: The cat was treated again.
17 September 2018: The cat passed away.
The reporter is not sure if FL was given to the cat in the past. The cat was not seen by the vet, no further medical information available.

ED_005739D_00014383-00681

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: 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 Lethargy Appetite 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: Patient weight: 20 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 #
18US062890

* approximate

ED_005739D_00014383-00682

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 RoseMary Frasher	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US062937
	Address 1600 State Rd 1 South CONNERSVILLE IN 47331 U.S.A		Address --UNKNOWN--	
	Phone # 765-403-1491		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-21-2017	Date registrant became aware of incident. 09-21-2018	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	

ED_005739D_00014383-00683

Internal ID # 18US062937

Brief description of incident circumstances

Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Kudjoe, 12 year old, 12 pound, nuetered male, Chihuahua Canine.
1 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied between the shoulder blades.
2 Aug 2018*: The dog experienced seizure. The pet had a blank stare and was unable to move for a few minutes (It is unknown to the owner when the symptoms started).
21 Aug 2018*: The dog passed away.
The dog has received the product on and off for several years. The pet was diagnosed with cancer about 1 year ago. No further medical information is expected.

ED_005739D_00014383-00684

Demographic information: Age: 12 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 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Convulsion Impaired consciousness Akinesia Neoplasia 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: 3 Year(s) Patient weight: 12 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 #
18US062937

* 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 Valerie Muellar	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US063489
	Address 1155 Walden oaks dr. 303 West WOODSTOCK IL 60098 U.S.A		Address --UNKNOWN--	
	Phone # 815-307-0673		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-02-2018	Date registrant became aware of incident. 09-24-2018	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	

ED_005739D_00014383-00686

Internal ID # 18US063489

Brief description of incident circumstances

Suspected Adverse Event: On 24 September 2018, the owner reported the following event for Domino, a 2 year old, 15 pound, neutered male cat.
*26 Aug 2018: One vial of FRONTLINE GOLD FOR CATS (PP19761) was topically applied per label to the cat for the first time.
2 September 2018: The cat started to not eat or drink, he hid for days.
9 September 2018: The cat took three short breaths and passed away.
The cat was not seen by the vet. There is one other treated cat in the home who did not have a reaction. No further medical information available.

ED_005739D_00014383-00687

Demographic information: Age: 2 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: 1 Week(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Anorexia Adipsia Behavioural disorder NOS Dyspnoea 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: 15 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 #
18US063489

* approximate

ED_005739D_00014383-00688

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 RoseMAry Frasier	Submission date. 11-05-2018	Contact person (if different than reporter)	Internal ID # 18US064111
	Address 1600 State Rd. 1 South CONNERSVILLE IN 47331 U.S.A		Address --UNKNOWN--	
	Phone # 765-403-1491		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 01-01-2018	Date registrant became aware of incident. 09-21-2018	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)). 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	

ED_005739D_00014383-00689

Internal ID # 18US064111

Brief description of incident circumstances

Suspected Adverse Event: On 21 Sept 2018, the owner reported the following event for Bear Bear, 11 year old, 11 pound, neutered male, Bombay Feline.
1 Apr 2018: One vial of FRONTLINE PLUS CATS (lot unknown) was applied between the shoulder blades.
2 Apr 2018*: The cat began pulling hair out.
30 Apr 2018*: The cat passed away.
The cat has received the product sporadically on prior unknown dates since a kitten. No symptoms presented previously. The cat was diagnosed with cancer on an unknown date. There is one other cat in the household that also received the product and experienced symptoms (see case 18US064320). No further medical information is expected.

ED_005739D_00014383-00690

Demographic information: Age: 11 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: 10 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Pruritus Neoplasia 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: 10 Year(s) 10 Month(s) Patient weight: 11 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 #
18US064111

* approximate

ED_005739D_00014383-00691

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 John Meacham	Submission date. 11-05-2018	Contact person (if different than reporter) Dr UNKNOWN	Internal ID # 18US064487
	Address 173 West Evelyn HAZEL PARK MI 48030 U.S.A		Address ALL ABOUT ANIMALS 23451 PINEWOOD ST WARREN MI, 48091 U.S.A	
	Phone # 248-554-5698		Phone # 586-879-1745	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-24-2018	Date registrant became aware of incident. 09-26-2018	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	

ED_005739D_00014383-00692

Internal ID # 18US064487

Brief description of incident circumstances

Suspected Adverse Event: On 26 Sep 2018, the owner reported the following event for Colby, an 11 year old, 56 pound, neutered male, Pit Bull.
23 Sep 2018: The dog started on an unknown amount of FRONTLINE PLUS DOG 45-88 LBS (R61201BR) given topically (unknown site of application), by the owner.
24 Sep 2018: The dog was severely vomiting, very lethargic, and couldn't walk (legs were stiff).
26 Sep 2018: The dog died.
The dog was not seen by a veterinarian or given any treatment. No further medical information expected.

ED_005739D_00014383-00693

Demographic information: Age: 11 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: 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 Lethargy Muscle stiffness 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: 56 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 #
18US064487

BICHON FRISE CASES

ED_005739D_00014383-00694

ED_005739D_00014383-00695

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 Mr FERNANDO RINCO ROCHA	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18BR005689
	Address LADEIRA ALEXANDRE LEONEL, 82050 - SÃO MATEUS JUIZ DE FORA MG Brazil		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-08-2018	Date registrant became aware of incident. 09-10-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 000023-0-000002	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE TRI-ACT 5-10 kg	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)). Base of Skull and btw Shoulder	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	

ED_005739D_00014383-00696

Internal ID # 18BR005689

Brief description of incident circumstances

Suspected Adverse Event: As reported by the pet owner, Marie, a 4-year-old, 5.95 kg, female, Bichon Frise, was treated with one vial of FRONTLINE TRI-ACT 5-10 KG (FL) (lot and expiration unknown), topic, base of skull and btw the shoulder blades, by the reporter, for the first time, on 8 Sep 2018, 6 pm. She was in good health prior to FL. At night, Marie started experiencing agitation and scratching; on 9 Sep 2018 morning, vomiting, appetite loss, application site reddening and head shake. The veterinarian was called and she prescribed Polaramine and bath for treatment. The vomiting has stopped, however Marie still presents with agitation and head shake. Oral exposure denied. She was taken to the vet today. There is no further information available.

ED_005739D_00014383-00697

Demographic information: Age: 4 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) Polaramine and bath	List signs/symptoms/adverse effects Hyperactivity Pruritus Emesis Anorexia Application site erythema Central nervous system 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: 5.95 kg			
Human severity category D-C			

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

Internal ID #
18BR005689

ED_005739D_00014383-00698

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 S CLU...	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18FR000894
	Address 31 France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 06-15-2018	Date registrant became aware of incident. 07-03-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/0608697 8/2014	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE TRI-ACT 5-10 kg	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 Liquid (external use)	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	

ED_005739D_00014383-00699

Internal ID # 18FR000894

Brief description of incident circumstances

FR-ANMV-18 ANMV 01385: A 14-year old Bichon dog has received 1 pipette of FRONTLINE TRI-ACT SOLUTION POUR SPOT-ON POUR CHIENS 5 - 10 KG, once monthly since Jan-2018.The last application occured on 05-Jun-2018. The dog lives without any other animals and goes outside very fewly.The product has always been applied in prevention. Since 15-Jun-2018, the dog carries very numerous fleas whereas it did not present any fleas before. Another anti-parasitic product was implemented. Reason for treatment: Preventive. Outcome of SAR: Unknown.

ED_005739D_00014383-00700

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: 5 Month(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Other antiparasitic	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: duration: 6 Month; Expose duration: 5 Month(s) Patient weight: 6 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 #
18FR000894

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 Mrs Blandine POIRSON	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18FR000925
	Address France		Address --UNKNOWN--	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 04-13-2018	Date registrant became aware of incident. 07-04-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/1786870 3/1996	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 CHIEN	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	

ED_005739D_00014383-00702

Internal ID # 18FR000925

Brief description of incident circumstances

Suspected Adverse Event: As reported by the animal's owner, a 13-year-old female Bichon Frisé dog, 3.5 kg, in good condition, received one pipette of FRONTLINE SPOT-ON CHIEN(Batch: 03661103004141 , Exp. date: APR 2020) administered twice topically by the owner between the shoulders on 13 APR and 13 MAY 2018 for flea treatment (fleas had appeared on the animal after the winter). After product administration (unknown time to onset), the animal was still scratching itself. The event was still ongoing at the time of this report. Note: as it was not reported that fleas had been seen on the animal after product administration, this case was considered as an adverse reaction. The animal had also been treated with a spray (unspecified product and dates of administration). This case is linked with the cases 18FR0926 (similar non-serious AR in a cat from the same household after administration of FRONTLINE SPOT-ON CHAT) and 18FR0928 (non-serious different AR in another cat from the same household after administration of FRONTLINE SPOT-ON CHAT).

Demographic information: Age: 13 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 Pruritus		If lab tests were performed, list test names and results(If available submit report). None reported
Exposure data: Amount of pesticide: Once Expose duration: 30 Day(s) Patient weight: 3.5 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 #
18FR000925

ED_005739D_00014383-00703

ED_005739D_00014383-00704

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 Miss Marjorie VIALETTE	Submission date. 11-02-2018	Contact person (if different than reporter) CLINIQUE AMALTHEA	Internal ID # 18FR001293
	Address France		Address MIGLIACCIARU France	
	Phone #		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-06-2018	Date registrant became aware of incident. 09-17-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) FR/V/0608697 8/2014	EPA Registration # (Product 2)	EPA Registration # (Product 3)
	A.I. (s) FIPRONIL 6.01% / PERMETHRIN 44.88% SPOT ON SOLUTION	A.I. (s)	A.I. (s)
	Product 1 name FRONTLINE TRI-ACT 5-10 kg	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 Liquid (external use)	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	

ED_005739D_00014383-00705

Internal ID # 18FR001293

Brief description of incident circumstances

Suspected Adverse Event: As reported by the animal's owner, a 13.5-year-old spayed female Bichon dog, 5 kg, in good condition received one pipette of FRONTLINE TRI-ACT 5-10 kg (BN and exp. date: unknown) administered topically between the shoulders by the owner between 30 AUG and 06 SEP 2018 at 5:00 pm (06 SEP 2018 was chosen by default). 6 hours after product administration, on the same day around 11:00 pm, the animal ran around in circles and experienced application site burn and blisters. It was brought to the vet who prescribed Dermipred 500 and an ointment. It recovered on an unknown date. Note: the animal had previously been treated with FRONTLINE SPOT-ON. The animal was allergic to the active principle contained in ADVANTIX and VECTRA 3D. Another dog from the same household (a 4-year-old spayed female Malinois dog, 30 kg, in good condition) was treated concomitantly with the same product without any adverse reaction.

ED_005739D_00014383-00706

Demographic information: Age: 13.5 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: 0 Day(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Dermipred 500 and an	List signs/symptoms/adverse effects Application site burn Application site blister Ataxia		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: 5 kg			
Human severity category D-C			

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

Internal ID #
18FR001293

* approximate

ED_005739D_00014383-00707

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 Shelly Evans	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18UK001971
	Address 19 Sitwell Way Port Talbot SA12 6BH United Kingdom		Address --UNKNOWN--	
	Phone # 07912880891		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. 08-29-2018	Was incident part of larger study ? No

Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) Vm 08327/4270	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 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	

ED_005739D_00014383-00708

Internal ID # 18UK001971

Brief description of incident circumstances

As reported by the animal owner, a Bichon Frise canine weighing 7 kgs and of unknown age, sex, reproductive status and in unknown condition, was given FRONTLINE PLUS (assumed FRONTLINE PLUS SPOT ON DOG S, batch number and expiry date unknown) on 26 AUG 2018 via an unknown route at an unknown dose by the animal owner as a parasiticide. The animal owner reports that they normally use Bravecto but saw fleas over the weekend (estimated 25 AUG 2018) so purchased FRONTLINE PLUS instead. The animal owner does not know when they last used Bravecto but there is a gap between the last Bravecto application and the current FRONTLINE PLUS application. The animal owner further reports that they took the dog to the groomers on 16 AUG 2018 and they believe that is where the dog got the fleas from. The animal owner states that they hate FRONTLINE and it doesn't work. The animal owner vacuums the house, washes the bedding and sprays around the house. The animal owner reports that they are not being bitten and they also have a cat but they have not checked the cat for fleas. Start date for submission purposes only.

ED_005739D_00014383-00709

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:	
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: Unknown per Unknown 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 #
18UK001971

ED_005739D_00014383-00710

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 Gil Plavcan	Submission date. 11-02-2018	Contact person (if different than reporter) Terrance UNKNOWN	Internal ID # 18US048364
	Address 7541 Creek View Trl CHAGRIN FALLS OH 44023 U.S.A		Address Chagrin Animal Clinic U.S.A	
	Phone # 440-488-7777		Phone # 440-708-2828	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-20-2018	Date registrant became aware of incident. 07-27-2018	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 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 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 to the base	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	

ED_005739D_00014383-00711

Internal ID # 18US048364

Brief description of incident circumstances

Suspected Adverse Event: On 27 Jul 2018 the pet owner reported the following event for Blue, 8 years old, 19 pounds, neutered male Bichon Frise canine.
19 Jul 2018: 1 vial of FRONTLINE GOLD DOG 5-22 LBS (lot unknown) was applied between the shoulder blades from the neck to the tail.
20 Jul 2018: The dog was bleeding and had a burn in one spot in between the shoulder blades. The dog presented to the clinic and was treated with Benadryl, an unknown antibiotic and an unknown powder. Symptom is still ongoing.
No further medical information is available at this time.

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: 1 Day(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient) Benadryl, an unknown	List signs/symptoms/adverse effects Application site self trauma Application site burn		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: 19 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 #
18US048364

ED_005739D_00014383-00712

ED_005739D_00014383-00713

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 Julie Willett	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18US048799
	Address 521 Carpi Ct AVON LAKE OH 44012 U.S.A		Address --UNKNOWN--	
	Phone # 440-371-5628		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-26-2018	Date registrant became aware of incident. 07-30-2018	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	

ED_005739D_00014383-00714

Internal ID # 18US048799

Brief description of incident circumstances

Suspected Adverse Event: On 30 Jul 2018, the owner reported the following event for Bailey, an 8 year old, 14 pound, neutered male, Bichon Frise.
2017*: The dog started on 1 vial of FRONTLINE PLUS DOG 5-22 LBS (R62514AL) given to the dog topically between the shoulder blades, by the owner. The dog was treated monthly on a year round basis.
25 Jul 2018: The dog received another dose of the product.
26 Jul 2018: The dog had loose stool.
The dog was not seen by a veterinarian or given any treatment. The symptoms are ongoing. No further medical information expected.

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: 12 Month(s)	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Diarrhoea		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: 12 Month(s) Patient weight: 14 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 #
18US048799

ED_005739D_00014383-00715

ED_005739D_00014383-00716

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 Amy Krause	Submission date. 11-02-2018	Contact person (if different than reporter) Dr unknown UNKNOWN	Internal ID # 18US049736
	Address 6081 Sacramento Way EAST LANSING MI 48823 U.S.A		Address SCHULTZ VETERINARY CLINIC 2770 BENNETT ROAD OKEMOS MI, 48864 U.S.A	
	Phone # 517-449-4470		Phone # 517-337-4800	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-31-2018	Date registrant became aware of incident. 08-01-2018	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 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 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	

ED_005739D_00014383-00717

Internal ID # 18US049736

Brief description of incident circumstances

Suspected Adverse Event: On 1 Aug 2018 the pet owner reported the following event for Gus, 3 years old, 11 pounds, neutered male, Bichon Frise- Yorkshire Terrier Mix Canine.
27 Jul 2018: 1 chew of HEARTGARD (product unsubstantiated) (unknown lot and unknown expiration date)
31 Jul 2018: 1 vial of FRONTLINE GOLD DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. Within 20 seconds, the dog experienced anxiety and unusual behavior.
1 Aug 2018: The dog recovered.
The dog also experienced the same symptoms in May 2018* and June 2018* after the product was applied. The dog did not present to the clinic. The pet is also receiving Gabapentin, Paxil, Benadryl and steroids.
No further information is expected.

ED_005739D_00014383-00718

Demographic information: Age: 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: 3 Month(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Anxiety Behavioural 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 Expose duration: 3 Month(s) Patient weight: 11 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 #
18US049736

* 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 Amy Krause	Submission date. 11-02-2018	Contact person (if different than reporter) Dr unknown UNKNOWN	Internal ID # 18US049776
	Address 6881 Sacrementon Way EAST LANSING MI 48823 U.S.A		Address SCHULTZ VETERINARY CLINIC 2770 BENNETT ROAD OKEMOS MI, 48864 U.S.A	
	Phone # 517-449-4470		Phone # 517-337-4800	
	Incident Status: New If update,include date of original submission	Location and date of incident. 04-01-2018	Date registrant became aware of incident. 08-01-2018	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? 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	

ED_005739D_00014383-00720

Internal ID # 18US049776

Brief description of incident circumstances

Suspected Adverse Event: On 1 Aug 2018 the pet owner reported the following event for Gus, 3 years old, 11 pounds, neutered male, Bichon Frise- York Shire Terrier Mix Canine.
Apr 2018*: 1 vial of FRONTLINE Plus DOG 5-22 LBS (lot unknown) was applied between the shoulder blades. An unknown time after the product was applied, the dog experienced anxiety and unusual behavior.
Apr 2018*: The dog recovered the following day.
The dog also experienced the same symptoms on a monthly basis since the first application in Jan 2016*. The pet is also receiving Gabapentin, Paxil, Benadryl and steroids.
No further information is expected.

ED_005739D_00014383-00721

Demographic information: Age: 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: 2 Year(s) *	
Type of medical care sought (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient)	List signs/symptoms/adverse effects Anxiety Behavioural 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: Patient weight: 11 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 #
18US049776

* 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 Sharon Hussman	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18US052384
	Address CENTERPORT NY 11721 U.S.A		Address --UNKNOWN--	
	Phone # 516-680-6917		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 08-09-2018	Date registrant became aware of incident. 08-10-2018	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)).	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	

ED_005739D_00014383-00723

Internal ID # 18US052384

Brief description of incident circumstances

Suspected Adverse Event: On 10 Aug 2018, the owner reported the following event for a Bichon Frise (signalment unknown).
9 Aug 2018: One vial of FRONTLINE PLUS DOG 5-22 LBS (lot unknown) was applied to the dog. Following the dose the dog developed diarrhea. The owner declined the report, no further medical information available.

ED_005739D_00014383-00724

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 Diarrhoea		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: 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 #
18US052384

ED_005739D_00014383-00725

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 Joan Stevensonky	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18US055204
	Address POTTSVILLE PA 17901 U.S.A		Address --UNKNOWN--	
	Phone # 570-617-7926		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 07-26-2010	Date registrant became aware of incident. 08-21-2018	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? 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	

ED_005739D_00014383-00726

Internal ID # 18US055204

Brief description of incident circumstances

Suspected Adverse Event: On 21 Aug 2018, the owner reported the following event for Sam, a 11 year old, 25 pound, neutered male Bichon Frise.
*26 July 2010: One vial of FRONTLINE PLUS DOG (product unsubstantiated) (lot unknown) was applied to the dog per label.
On an unknown date the dog started to vomit and recovered on an unknown date. The dog received half doses over the course of many years with no issues. There is one other dog in the home who also had the same reaction. See case 18US055195. No further medical information available.

ED_005739D_00014383-00727

Demographic information: Age: 11 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 Emesis		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: 25 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 #
18US055204

* approximate

ED_005739D_00014383-00728

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 Elaine Clark	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18US059118
	Address 2700 Rockport lane TOMS RIVER NJ 08755 U.S.A		Address --UNKNOWN--	
	Phone # 609-489-2918		Phone #	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-06-2018	Date registrant became aware of incident. 09-06-2018	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 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 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 to the base	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	

ED_005739D_00014383-00729

Internal ID # 18US059118

Brief description of incident circumstances

Suspected Adverse Event: On 6 Sept 2018, the owner reported the following event for Jersey, 9 year old, 18 pound, neutered male, Bichon Frise canine.
6 Sept 2018: One vial of FRONTLINE GOLD DOG 5-22 LBS (PP27061) was applied between the shoulder blades to the base of the tail. After 5 hours, the dog experienced a seizure lasting about 4 minutes. The veterinarian did not see the pet. The owner treated the pet with Phenobarbital. The pet recovered.
The dog has a preexisting history of seizures. The last seizure was over a year ago. No further medical information is expected.

ED_005739D_00014383-00730

Demographic information: Age: 9 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) Phenobarbital	List signs/symptoms/adverse effects Convulsion		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: 18 lbs			
Human severity category D-B			

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

Internal ID #
18US059118

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 Joan UNKNOWN	Submission date. 11-02-2018	Contact person (if different than reporter)	Internal ID # 18US060033
	Address GREEN COVE SPRINGS FL 32043 U.S.A		Address --UNKNOWN--	
	Phone # 904-589-4887		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. 09-11-2018	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 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 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	

ED_005739D_00014383-00732

Internal ID # 18US060033

Brief description of incident circumstances

Suspected Adverse Event: On 11 Sept 2018, the owner reported the following event for a male, Bichon Frise Canine (all other signalments unknown).
Unknown date: An unknown amount of FRONTLINE GOLD DOG (product unsubstantiated) (lot unknown) was applied topically at an unknown location. On another unknown day, the pet experienced bumps around the base of the tail. 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.

ED_005739D_00014383-00733

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: 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 Dermatitis and eczema		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 #
18US060033

* 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 Louie Huerta	Submission date. 11-02-2018	Contact person (if different than reporter) Dr unknown UNKNOWN	Internal ID # 18US060941
	Address 8850 Rancho Street RANCHO CUCAMONGA CA 91701 U.S.A		Address Elda rancho pet U.S.A	
	Phone # 252-619-9425		Phone # 909-980-3575	
	Incident Status: New If update,include date of original submission	Location and date of incident. 09-12-2018	Date registrant became aware of incident. 09-13-2018	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 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 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)). 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	

ED_005739D_00014383-00735

Internal ID # 18US060941

Brief description of incident circumstances

Suspected Adverse Event: On 13 Sep 2018 the pet owner reported the following event for Casey, 11 year old, 12 pound, spayed female Bichon Frise.
12 Sep 2018: 1 vial of FRONTLINE GOLD DOG 5-22 LBS (lot unknown) was applied between the shoulder blades at 4:00 am. Around 1:00 pm, the dog began to experience diarrhea.
13 Sep 2018: The dog experienced vomiting. The pet did present to the clinic and was given an injection of Cerenia and was prescribed Metronidazole 50 mg, Cerenia 10.6 mg and Diagel.
Symptoms are ongoing. Pet has a history of seizures.
No further medical information expected.

ED_005739D_00014383-00736

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) Reaction treated with an	List signs/symptoms/adverse effects Diarrhoea Emesis		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: 12 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 #
18US060941

CERTIFECT CASES

ED_005739D_00014383-00737

EPA Quarterly Aggregate Report

Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (USA)
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [1]
Product Family: Certifect (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 9.8%/S-METHOPRENE 8.8%/ AMITRAZ 22.1% SPOT-ON / 65331-7	2	0	0	0	0	2
Totals	**2**	**0**	**0**	**0**	**0**	**2**

USA off-Label species totals are included

1. Due to system limitations the end date is displayed as 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

Use in Off-Label Species (USA)
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [1]
Product Family: Certifect (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
No matching records.				

1. Due to system limitations the end date is displayed as 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

Number of Incidents and Adverse Effects Reported by Exposure Type and Severity Category (Extraterritorial)
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [1]
Product Family: Certifect (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
No matching records.						

Extraterritorial off-label species totals are incldued

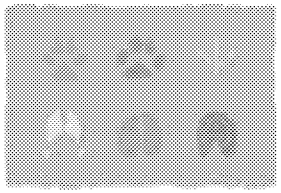
1. Due to system limitations the end date is displayed as 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

Use in Off-Label Species (Extraterritorial)
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [1]
Product Family: Certifect (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
No matching records.				

1. Due to system limitations the end date is displayed as 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

EPA Report



Worldwide Adverse Event Reports Involving - Animal Cases
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [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-Aug-2018	UAE; 18US051533; MN; U.S.A	**Species:** Canine **Breed:** Great Dane **Sex:** M **Sex qualifier:** - **Age:** 1.00 Year(s) **Weight:** 130 lbs	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:** PO-Oral **Was the product used ok?:** No (Route not indicated / recommended)	08-Aug-2018	08-Aug-2018	0 Day(s)	D-C	Suspected Adverse Event: On 8 Aug 2018, the owner reported the following event for Danate, a 1 year old, intact, 130 pound Great Dane. 8 Aug 2018: The dog found an unopened box of CERTIFECT FOR DOGS 89-132 LBS (G80302) that he was able to open and ingest unknowingly to the owner. The dog is experiencing lethargy and is wobbly. The owner will consult the vet. No further medical information available.
28-Sep-2018	UAE; 18US065116; MN; U.S.A	**Species:** Canine **Breed:** Retriever (Golden) **Sex:** M **Sex qualifier:** - **Age:** 2.50 Year(s) **Weight:** 89 lbs	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 (Treatment / vaccination program not respected)	N/A	28-Sep-2018	1 Day(s)	D-D	Suspected Adverse Event: On 28 Sep 2018, the pet owner called to report the following event for Sampson, a 2.5 year old, 89 pound, intact male Golden Retriever. 27 Sep 2018: Dog received three-fourths of a vial of CERTIFECT FOR DOGS 89-132 LBS (G91301AC) (CERT) in an unknown manner. 28 Sep 2018: The pet owner observed that the dog was lethargic and drooling. The dog has eaten a meal. No further medical information available.

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 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

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

Worldwide Adverse Event Reports - Human Cases
Reporting Period: 01-Jul-2018 to 01-Oct-2018 [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 1 October 2018, however only cases with a date first valid from 01 July 2018 through 30 September 2018 are displayed.

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 2:47:24 PM

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Your PSP package (20210325_Resubmission_CoverLetter_EPAAggregateReport3Q18) 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_003345
Sec3-6(a)(2)-000002: CDX_2021_003346
Sec3-6(a)(2)-000003: CDX_2021_003347
Sec3-6(a)(2)-000004: CDX_2021_003348
Sec3-6(a)(2)-000005: CDX_2021_003349
Sec3-6(a)(2)-000006: CDX_2021_003350

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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