Chemical:
MRID:
PC Code:
Plot:
Guideline:

Application Rate (lbs. a.i./A)

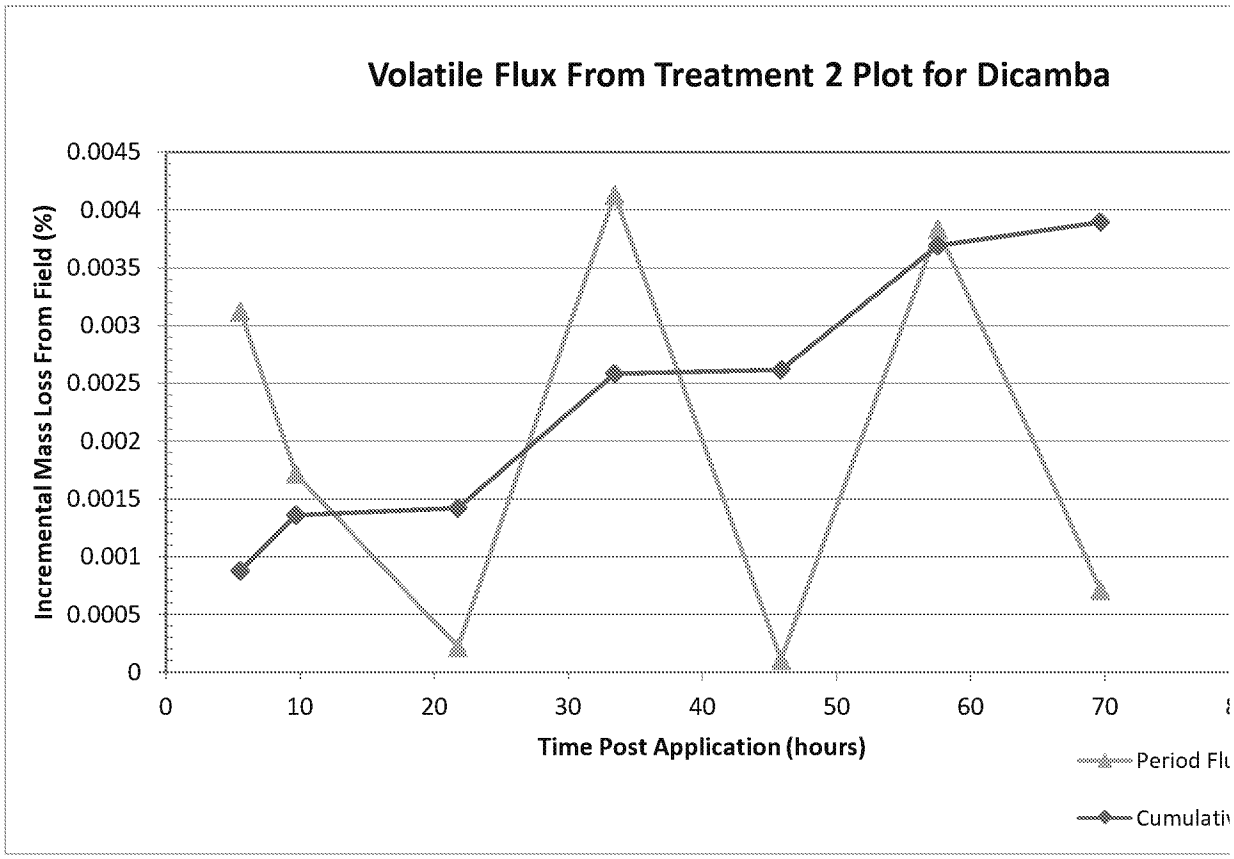
Period
1
2
3
4
5
6
7

Date and time from Table 14, p. 64 of the study report.
Reasoning from Table 27, p. 83 of the study report.
Sampling period and time post application calculated in accompanying spreadsheet 128931_51134103_DER-FATE_835.

Dicamba DGA
51134103
128931
Treatment 2
835.8100

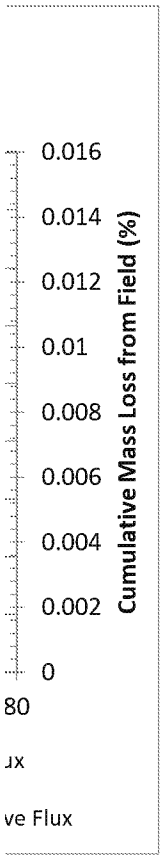
0.5

Date/Time	Sampling Period (hrs.)	Time Post Application (hrs.)	Flux ($\mu g/m^2 \cdot s$)	Period % of Applied
5/6, 10:15 - 15:22	5.12	5.55	0.000095	0.00312
5/6, 14:44 - 19:30	4.77	9.68	0.000056	0.00172
5/6-7, 18:50 - 7:34	12.73	21.75	0.000003	0.00022
5/7, 7:03 - 19:17	12.23	33.47	0.000053	0.00413
5/7-8, 18:45 - 7:40	12.92	45.85	0.000001	0.00011
5/8, 7:04 - 19:22	12.30	57.55	0.000049	0.00384
5/8-9, 18:54 - 7:31	12.62	69.70	0.000009	0.00071



8100_7-22-20_Calc.xlsx

Cumulative % of Applied	Reasoning
0.00312	Slope
0.00484	Slope
0.00506	Slope
0.00919	Slope
0.00930	Slope, no intercept
0.01313	Slope
0.01385	Slope, no intercept



Chemical:	Dicamba DGA	Raw Air Conc.		
MRID:	51134103			Applicable for specific sampling methods
PC Code:	128931			
Plot:	Treatment 2			
Guideline:	835.8100			
	DICAMBA CONCENTRATION IN AIR TUBES (µg/m3)			
	Sample ID	**Measured Concentration (ng)**	**Sample ID (Back-Half)**	**Measured Concentration (Back-Half) (µg)**
0 - 6	A	0.2490	[#]	[#]
	B	0.5410	[#]	[#]
	C	0.1790	[#]	[#]
	D	0.1950	[#]	[#]
	E	ND	[#]	[#]
	F	0.1700	[#]	[#]
	G	ND	[#]	[#]
	H	0.3590	[#]	[#]
6 - 12	A	ND	[#]	[#]
	B	0.1150	[#]	[#]
	C	ND	[#]	[#]
	D	0.2990	[#]	[#]
	E	0.1710	[#]	[#]
	F	0.1710	[#]	[#]
	G	0.1300	[#]	[#]
	H	0.1300	[#]	[#]
12 - 24	A	0.1780	[#]	[#]
	B	0.1610	[#]	[#]
	C	ND	[#]	[#]
	D	0.1040	[#]	[#]
	E	ND	[#]	[#]
	F	0.1520	[#]	[#]
	G	0.1620	[#]	[#]
	H	0.0887	[#]	[#]
24 - 36	A	0.1330	[#]	[#]
	B	0.2000	[#]	[#]
	C	0.1550	[#]	[#]
	D	0.4520	[#]	[#]
	E	0.4220	[#]	[#]
	F	0.5950	[#]	[#]

				Raw Air Conc.			
Sample Collection Start Time (Local Time)	**Sample Collection Stop Time (Local Time)**	**Start Flow Rate (L/min)**	**End Flow Rate (L/min)**	**Sampling Duration (Minutes)**	**Measured Air Concentration (µg/m^3)**	**Measured Air Concentration (Back-Half) (µg/m^3)**	**Percent of Front-Half Concentration**
10:15	14:42	3.002	3.024	267	0.000310	#VALUE!	#VALUE!
10:19	14:47	3.003	3.124	268	0.000659	#VALUE!	#VALUE!
10:23	14:52	3.004	3.153	269	0.000216	#VALUE!	#VALUE!
10:28	14:57	3.003	3.129	269	0.000236	#VALUE!	#VALUE!
10:30	15:02	2.996	3.118	272	#VALUE!	#VALUE!	#VALUE!
10:35	15:10	3.003	3.145	275	0.000201	#VALUE!	#VALUE!
10:39	15:17	3.004	3.098	278	#VALUE!	#VALUE!	#VALUE!
10:42	15:22	3.005	3.070	280	0.000422	#VALUE!	#VALUE!
14:44	18:49	3.009	2.933	245	#VALUE!	#VALUE!	#VALUE!
14:48	18:55	2.991	2.865	247	0.000159	#VALUE!	#VALUE!
14:53	19:00	2.995	2.892	247	#VALUE!	#VALUE!	#VALUE!
14:58	19:05	2.994	2.899	247	0.000411	#VALUE!	#VALUE!
15:05	19:10	2.998	2.903	245	0.000237	#VALUE!	#VALUE!
15:12	19:16	3.002	2.907	244	0.000237	#VALUE!	#VALUE!
15:19	19:24	3.007	2.865	245	0.000181	#VALUE!	#VALUE!
15:24	19:30	3.006	2.947	246	0.000178	#VALUE!	#VALUE!
18:50	7:01	2.998	2.939	731	0.000082	#VALUE!	#VALUE!
18:56	7:06	2.999	2.975	730	0.000074	#VALUE!	#VALUE!
19:00	7:11	3.004	2.979	731	#VALUE!	#VALUE!	#VALUE!
19:07	7:16	2.995	2.944	729	0.000048	#VALUE!	#VALUE!
19:11	7:20	3.006	2.971	729	#VALUE!	#VALUE!	#VALUE!
19:17	7:24	2.997	2.940	727	0.000070	#VALUE!	#VALUE!
19:26	7:29	3.000	2.943	723	0.000075	#VALUE!	#VALUE!
19:31	7:34	3.004	3.009	723	0.000041	#VALUE!	#VALUE!
7:03	18:44	2.995	3.085	701	0.000062	#VALUE!	#VALUE!
7:07	18:48	3.007	3.095	701	0.000094	#VALUE!	#VALUE!
7:13	18:53	2.997	3.095	700	0.000073	#VALUE!	#VALUE!
7:17	18:58	3.006	3.098	701	0.000211	#VALUE!	#VALUE!
7:22	19:03	2.997	3.051	701	0.000199	#VALUE!	#VALUE!
7:26	19:08	3.007	3.053	702	0.000280	#VALUE!	#VALUE!

Measured Air Concentration (Total) ($\mu g/m^3$)
0.000310
0.000659
0.000216
0.000236
0.000201
0.000422
0.000159
0.000411
0.000237
0.000237
0.000181
0.000178
0.000082
0.000074
0.000048
0.000070
0.000075
0.000041
0.000062
0.000094
0.000073
0.000211
0.000199
0.000280

	G	0.1380	[#]	[#]
	H	0.2100	[#]	[#]
36 - 48	A	0.0862	[#]	[#]
	B	ND	[#]	[#]
	C	ND	[#]	[#]
	D	0.2190	[#]	[#]
	E	ND	[#]	[#]
	F	ND	[#]	[#]
	G	ND	[#]	[#]
	H	ND	[#]	[#]
48 - 60	A	0.1660	[#]	[#]
	B	0.3760	[#]	[#]
	C	0.3450	[#]	[#]
	D	0.3500	[#]	[#]
	E	0.3390	[#]	[#]
	F	0.2670	[#]	[#]
	G	ND	[#]	[#]
	H	0.2150	[#]	[#]
60 - 72	A	0.1480	[#]	[#]
	B	0.1430	[#]	[#]
	C	0.1580	[#]	[#]
	D	ND	[#]	[#]
	E	ND	[#]	[#]
	F	0.0991	[#]	[#]
	G	0.1260	[#]	[#]
	H	0.2090	[#]	[#]
Sample start and end times from Table 26, pp. 80-82 of the study report.				
Sample concentrations from Appendix A, Table 9, pp. 136-137 of the study report.				
Flow rates from Appendix F, pp. 410-412 of the study report.				

Raw Air Cont

7:30	19:12	2.992	3.047	702	0.000065	#VALUE!	#VALUE!
7:36	19:17	2.995	3.003	701	0.000100	#VALUE!	#VALUE!
18:45	7:03	2.998	2.896	738	0.000040	#VALUE!	#VALUE!
18:50	7:08	3.002	2.914	738	#VALUE!	#VALUE!	#VALUE!
18:55	7:13	3.007	2.920	738	#VALUE!	#VALUE!	#VALUE!
18:59	7:18	3.001	2.918	739	0.000100	#VALUE!	#VALUE!
19:05	7:23	2.997	2.921	738	#VALUE!	#VALUE!	#VALUE!
19:09	7:30	3.000	2.929	741	#VALUE!	#VALUE!	#VALUE!
19:13	7:35	3.007	2.940	742	#VALUE!	#VALUE!	#VALUE!
19:18	7:40	2.996	2.958	742	#VALUE!	#VALUE!	#VALUE!
7:04	18:52	3.001	3.115	708	0.000077	#VALUE!	#VALUE!
7:10	18:57	3.002	3.068	707	0.000175	#VALUE!	#VALUE!
7:14	19:01	3.003	3.049	707	0.000161	#VALUE!	#VALUE!
7:20	19:05	3.006	3.088	705	0.000163	#VALUE!	#VALUE!
7:25	19:09	3.009	3.109	704	0.000157	#VALUE!	#VALUE!
7:31	19:13	3.000	3.048	702	0.000126	#VALUE!	#VALUE!
7:36	19:18	3.001	3.088	702	#VALUE!	#VALUE!	#VALUE!
7:41	19:22	3.004	3.036	701	0.000102	#VALUE!	#VALUE!
18:54	7:10	3.005	2.916	736	0.000068	#VALUE!	#VALUE!
18:58	7:14	3.005	2.967	736	0.000065	#VALUE!	#VALUE!
19:02	7:16	3.004	2.975	734	0.000072	#VALUE!	#VALUE!
19:07	7:19	3.001	2.951	732	#VALUE!	#VALUE!	#VALUE!
19:10	7:22	3.008	2.938	732	#VALUE!	#VALUE!	#VALUE!
19:15	7:25	3.002	2.957	730	0.000046	#VALUE!	#VALUE!
19:19	7:28	2.994	2.925	729	0.000058	#VALUE!	#VALUE!
19:24	7:31	2.992	2.951	727	0.000097	#VALUE!	#VALUE!

Raw Air Conc.
0.000065
0.000100
0.000040
0.000100
0.000077
0.000175
0.000161
0.000163
0.000157
0.000126
0.000102
0.000068
0.000065
0.000072
0.000046
0.000058
0.000097

Chemical:	Dicamba DGA
MRID:	51134103
PC Code:	128931
Plot:	Treatment 2
Guideline:	835.8100

Treatment 2 Plot	
Sample Periods	6
Day	
Hours	
DTG	
Fortification Level (µg)	**Percer**
0	NA
0.003	87%
0.01	99%
0.06	92%

NA indicate not applicable.
Reviewer calculated.

PUF Sample Results (ng/PUF; Appendix A, Table 10, p. 138 of the study report).

0	0.200
0.003	2.62
0.01	9.86
0.06	54.9

Reviewer calculated percent recoveries.

0	NA
0.003	87%
0.01	99%
0.06	92%

6	6	12	12	12
nt Recovery (%)				
NA	NA	NA	NA	NA
88%	86%	89%	87%	87%
93%	93%	96%	93%	95%
97%	95%	102%	100%	100%

ND	ND	ND	ND	ND
2.64	2.57	2.66	2.62	2.60
9.25	9.29	9.57	9.28	9.51
58.0	56.7	61.3	59.9	60.2

NA	NA	NA	NA	NA
88%	86%	89%	87%	87%
93%	93%	96%	93%	95%
97%	95%	102%	100%	100%

Chemical: Dicamba DGA
MRID: 51134103
PC Code: 128931
Plot: Treatment 2
Guideline: 835.8100

Treatment 2 Plot				Air Concentrations (µg/m
Sample Periods	1	2	3	4
Day	1	1	1 & 2	2
Hours	0 - 6	6 - 12	12 - 24	24 - 36
DTG	5/6, 10:15 - 15:22	5/6, 14:44 - 19:30	5/6-7, 18:50 - 7:34	5/7, 7:03 - 19:17
Sampler				
A	0.00030952	0	8.20287E-05	6.24108E-05
B	0.000658938	0.000159012	7.38359E-05	9.35125E-05
C	0.000216153	0	0	7.26949E-05
D	0.000236434	0.000410835	4.80422E-05	0.000211269
E	0	0.000236556	0	0.000199073
F	0.0002011	0.000237204	7.04323E-05	0.000279729
G	0	0.000180726	7.54051E-05	6.51039E-05
H	0.000422105	0.000177543	4.0806E-05	9.98906E-05

m^3)		
5	6	7
2 & 3	3	3 & 4
36 - 48	48 - 60	60 - 72
5/7-8, 18:45 - 7:40	5/8, 7:04 - 19:22	5/8-9, 18:54 - 7:31
3.96343E-05	7.66721E-05	6.79233E-05
0	0.000175231	6.50681E-05
0	0.000161262	7.2005E-05
0.000100134	0.000162932	0
0	0.000157416	0
0	0.000125774	4.55625E-05
0	0	5.84016E-05
0	0.000101558	9.67467E-05

Note: Measured air concentrations should be corrected for low field spike recoveries <90 percent.

Chemical:	Dicamba DGA
MRID:	51134103
PC Code:	128931
Plot:	Treatment 2
Guideline:	835.8100

Plot Treatment 2

Sampler	1			2			3
	Model	Measured		Model	Measured		Model
A	0.003546	0.00030952	A	0.000635	0	A	0.017464
B	0.005639	0.000658938	B	0.001634	0.000159012	B	0.014323
C	0.0011	0.000216153	C	0.000821	0	C	0.004089
D	0.00066	0.000236434	D	0.004112	0.000410835	D	0.004734
E	0	0	E	0.003984	0.000236556	E	0.001677
F	0.000055	0.0002011	F	0.003042	0.000237204	F	0.002804
G	0.000114	0	G	0	0.000180726	G	0.004002
H	0.00319	0.000422105	H	0.000145	0.000177543	H	0.013161

0.094976902	8.57126E-05	0.056070942	7.44961E-05	0.002699675
0.016904647	4.48093E-05	0.022742709	5.44181E-05	0.001911674
0.840282421	9.35647E-05	0.503246632	0.000101657	0.249467238
31.56630946	6	6.078428425	6	1.99432124

0.116788491	0	0.079447945	0	0.00501065
0.014659527	#N/A	0.015930998	#N/A	0.001234419
0.900665232	0.000109908	0.780359111	0.000107817	0.701828503
63.46878054	7	24.87020422	7	16.47642235

slope	0.094976902	0.056070942	0.002699675
intercept	8.57126E-05	7.44961E-05	2.78106E-05
stderr (slope)	0.016904647	0.022742709	0.001911674
stderr (intercept)	4.48093E-05	5.44181E-05	1.84995E-05
DOF (slope w/ intercept)	6	6	6
slope w/ intercept sig?	Yes	Yes	Yes
intercept sig?	Yes	Yes	Yes
intercept < 25th %?	Yes	Yes	Yes
slope no intercept	0.116788491	0.079447945	0.00501065
stderr (slope no intercept)	0.014659527	0.015930998	0.001234419
DOF (slope no intercept)	7	7	7
slope no intercept sig?	Yes	Yes	Yes
flux	94.98	56.07	2.70
reasoning	Slope	Slope	Slope
ratio method	142.91	97.54	6.27

Modeled air concentrations from Table 26, pp. 80-82 of the study report.

Air Concentrations During Sampling Periods ($\mu g/m^3$)

3			4			5			6
Measured		Model	Measured		Model	Measured		Model	
8.20287E-05	A	0.001619	6.24108E-05	A	0.013417	3.96343E-05	A	0.001852	
7.38359E-05	B	0.001833	9.35125E-05	B	0.018432	0	B	0.003328	
0	C	0.000406	7.26949E-05	C	0.011924	0	C	0.001758	
4.80422E-05	D	0.002696	0.000211269	D	0.005918	0.000100134	D	0.003392	
0	E	0.003088	0.000199073	E	0	0	E	0.00206	
7.04323E-05	F	0.004607	0.000279729	F	0.001513	0	F	0.002386	
7.54051E-05	G	0.002409	6.51039E-05	G	0.002987	0	G	0.000244	
4.0806E-05	H	0.003082	9.98906E-05	H	0.012133	0	H	0.001432	

LINEST Excel Function Output (Slope w/ Intercept)

2.78106E-05	0.05253543	5.8293E-06	-0.000112538	1.8404E-05	0.048552191
1.84995E-05	0.016755245	4.56855E-05	0.002234395	2.31044E-05	0.012987489
3.11038E-05	0.620999655	5.49818E-05	0.000422615	3.90553E-05	0.699632003
6	9.831120154	6	0.00253676	6	13.97549689

LINEST Excel Function Output (Slope No Intercept)

0	0.05447015	0	0.001314463	0	0.05665172
#N/A	0.006609394	#N/A	0.001300038	#N/A	0.005265721
3.37873E-05	0.906566256	5.09723E-05	0.127433843	3.80221E-05	0.942972221
7	67.91939994	7	1.022314344	7	115.7471971

CALDPR Flux Back-Calculation Summary

0.05253543	-0.000112538	0.048552191
5.8293E-06	1.8404E-05	2.02579E-05
0.016755245	0.002234395	0.012987489
4.56855E-05	2.31044E-05	2.94549E-05
6	6	6
Yes	No	Yes
No	No	No
Yes	No	Yes
0.05447015	0.001314463	0.05665172
0.006609394	0.001300038	0.005265721
7	7	7
Yes	Yes	Yes
52.54	1.31	48.55
Slope	Slope, no intercept	Slope
54.90	2.11	58.40

6		7	
Measured		Model	Measured
7.66721E-05	A	0.010298	6.79233E-05
0.000175231	B	0.006304	6.50681E-05
0.000161262	C	0.000346	7.2005E-05
0.000162932	D	0.001438	0
0.000157416	E	0.00027	0
0.000125774	F	0.000058	4.55625E-05
0	G	0	5.84016E-05
0.000101558	H	0.008922	9.67467E-05

2.02579E-05	0.004530556	3.50626E-05
2.94549E-05	0.002655	1.41631E-05
3.51261E-05	0.32674162	3.05252E-05
6	2.911883133	6

0	0.00878695	0
#N/A	0.002663044	#N/A
3.37781E-05	0.608660514	4.01807E-05
7	10.88728265	7

0.004530556
3.50626E-05
0.002655
1.41631E-05
6
Yes
Yes
No
0.00878695
0.002663044
7
Yes
8.79
Slope, no intercept
14.68