Supplemental File

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Table 1: Bayes Factor interpretation

BF	Interpretation
> 100	Extreme evidence for H1
30 – 100	Very strong evidence for H1
10 – 30	Strong evidence for H1
3 – 10	Moderate evidence for H1
1 – 3	Anecdotal evidence for H1
1	No evidence
1/3 – 1	Anecdotal evidence for H1
1/3 – 1/10	Moderate evidence for H1
1/10 – 1/30	Strong evidence for H1
1/30 – 1/100	Very strong evidence for H1
< 1/100	Extreme evidence for H1

Table 2: Treatment contrasts for inswath spray solution deposition. Bayes Factor is used to test contrast hypothesis

Level1	Level2	Difference	CI_low	CI_high	BF	Std_Difference
Intact-Hood-AIXR	Intact-Hood-TTI	-2.21	-41.35	56.00	0.84	-0.01
Intact-Hood-AIXR	Intact-Hood-ULD	-8.40	-80.20	29.07	0.93	-0.04
Intact-Hood-AIXR	Intact-Open-AIXR	-213.80	-305.38	-131.08	4228.51	-0.93
Intact-Hood-AIXR	Intact-Open-TTI	-186.63	-275.90	-90.78	1064.12	-0.81
Intact-Hood-AIXR	Intact-Open-ULD	-323.90	-407.29	-234.30	6675845.05	-1.41
Intact-Hood-AIXR	Water-Hood-AIXR	-3.20	-51.75	51.51	0.67	-0.01
Intact-Hood-AIXR	Water-Hood-TTI	-159.85	-269.25	-24.58	42.34	-0.69
Intact-Hood-AIXR	Water-Hood-ULD	-90.24	-200.61	10.02	3.51	-0.39
Intact-Hood-AIXR	Water-Open-AIXR	26.14	-22.24	150.69	1.36	0.11
Intact-Hood-AIXR	Water-Open-TTI	11.89	-30.44	122.92	1.00	0.05
Intact-Hood-AIXR	Water-Open-ULD	86.83	-13.31	197.69	2.86	0.38
Intact-Hood-TTI	Intact-Hood-ULD	-9.40	-84.29	44.83	0.63	-0.04
Intact-Hood-TTI	Intact-Open-AIXR	-212.34	-300.28	-125.41	1510.11	-0.92
Intact-Hood-TTI	Intact-Open-TTI	-183.52	-276.22	-91.59	437.75	-0.80
Intact-Hood-TTI	Intact-Open-ULD	-323.26	-407.55	-233.02	901087.82	-1.40
Intact-Hood-TTI	Water-Hood-AIXR	-2.08	-66.81	60.48	0.62	-0.01
Intact-Hood-TTI	Water-Hood-TTI	-156.59	-266.84	-23.24	18.63	-0.68
Intact-Hood-TTI	Water-Hood-ULD	-90.42	-195.23	24.61	2.93	-0.39
Intact-Hood-TTI	Water-Open-AIXR	31.35	-44.01	148.44	1.03	0.14
Intact-Hood-TTI	Water-Open-TTI	18.90	-52.47	125.17	0.71	0.08
Intact-Hood-TTI	Water-Open-ULD	88.67	-23.52	200.39	3.08	0.39

Table 2: Treatment contrasts for inswath spray solution deposition. Bayes Factor is used to test contrast hypothesis *(continued)*

Level1	Level2	Difference	CI_low	CI_high	BF	Std_Difference
Intact-Hood-ULD	Intact-Open-AIXR	-198.38	-290.07	-109.48	2517.58	-0.86
Intact-Hood-ULD	Intact-Open-TTI	-170.26	-265.33	-74.04	188.17	-0.74
Intact-Hood-ULD	Intact-Open-ULD	-307.58	-395.27	-218.55	738415.74	-1.34
Intact-Hood-ULD	Water-Hood-AIXR	7.55	-50.16	85.90	0.48	0.03
Intact-Hood-ULD	Water-Hood-TTI	-143.32	-256.39	-17.44	12.59	-0.62
Intact-Hood-ULD	Water-Hood-ULD	-72.69	-189.04	34.65	2.36	-0.32
Intact-Hood-ULD	Water-Open-AIXR	48.59	-24.24	163.57	1.34	0.21
Intact-Hood-ULD	Water-Open-TTI	32.95	-28.94	143.04	0.93	0.14
Intact-Hood-ULD	Water-Open-ULD	103.82	-13.25	211.06	3.38	0.45
Intact-Open-AIXR	Intact-Open-TTI	28.25	-78.31	128.20	1.36	0.12
Intact-Open-AIXR	Intact-Open-ULD	-110.37	-206.63	-6.90	12.19	-0.48
Intact-Open-AIXR	Water-Hood-AIXR	209.78	119.01	303.28	786.26	0.91
Intact-Open-AIXR	Water-Hood-TTI	56.00	-63.66	191.35	1.75	0.24
Intact-Open-AIXR	Water-Hood-ULD	124.20	2.62	246.70	11.09	0.54
Intact-Open-AIXR	Water-Open-AIXR	251.07	143.91	373.75	8648.11	1.09
Intact-Open-AIXR	Water-Open-TTI	238.60	135.81	342.99	8886.16	1.04
Intact-Open-AIXR	Water-Open-ULD	300.53	174.15	419.18	16416.12	1.31
Intact-Open-TTI	Intact-Open-ULD	-139.29	-242.77	-39.37	34.20	-0.61
Intact-Open-TTI	Water-Hood-AIXR	182.59	84.00	280.23	144.31	0.79
Intact-Open-TTI	Water-Hood-TTI	27.48	-97.34	155.09	1.80	0.12
Intact-Open-TTI	Water-Hood-ULD	94.40	-28.63	222.16	4.84	0.41
Intact-Open-TTI	Water-Open-AIXR	223.14	116.53	343.61	1926.82	0.97
Intact-Open-TTI	Water-Open-TTI	210.91	108.17	320.14	787.13	0.92
Intact-Open-TTI	Water-Open-ULD	271.76	148.52	394.51	7142.17	1.18
Intact-Open-ULD	Water-Hood-AIXR	320.19	219.88	409.96	57002.08	1.39
Intact-Open-ULD	Water-Hood-TTI	166.03	46.31	298.82	61.69	0.72
Intact-Open-ULD	Water-Hood-ULD	235.82	106.89	349.72	341.36	1.02
Intact-Open-ULD	Water-Open-AIXR	361.48	254.85	479.06	196777802.24	1.57
Intact-Open-ULD	Water-Open-TTI	348.92	252.66	458.89	99682747.31	1.52
Intact-Open-ULD	Water-Open-ULD	409.06	288.51	527.51	1975749.83	1.78
Water-Hood-AIXR	Water-Hood-TTI	-155.64	-271.07	-21.93	19.82	-0.68
Water-Hood-AIXR	Water-Hood-ULD	-86.14	-209.01	15.75	2.31	-0.37
Water-Hood-AIXR	Water-Open-AIXR	32.74	-34.55	159.40	0.99	0.14
Water-Hood-AIXR	Water-Open-TTI	20.33	-48.77	132.21	0.77	0.09
Water-Hood-AIXR	Water-Open-ULD	92.30	-17.74	205.55	2.32	0.40
Water-Hood-TTI	Water-Hood-ULD	67.04	-82.13	204.38	2.79	0.29
Water-Hood-TTI	Water-Open-AIXR	195.94	57.78	334.23	88.00	0.85
Water-Hood-TTI	Water-Open-TTI	183.92	60.13	319.22	65.10	0.80
Water-Hood-TTI	Water-Open-ULD	243.27	101.23	381.49	243.50	1.06
Water-Hood-ULD	Water-Open-AIXR	130.29	-8.33	253.06	8.27	0.57
Water-Hood-ULD	Water-Open-TTI	117.05	-10.79	235.33	5.30	0.51
Water-Hood-ULD	Water-Open-ULD	176.78	35.39	321.88	40.01	0.77
Water-Open-AIXR	Water-Open-TTI	-8.92	-137.96	99.14	0.98	-0.04
Water-Open-AIXR	Water-Open-ULD	44.61	-77.37	184.00	1.86	0.19
Water-Open-TTI	Water-Open-ULD	58.24	-66.19	186.38	2.14	0.25

AUC Bayes Factor contrasts

Table 3: Treatment contrasts for Area Under the Curve. Bayes Factor is used to test contrast hypothesis

Level1	Level2	Difference	CI_low	CI_high	BF	Std_Difference
Intact-Hood-AIXR	Intact-Hood-TTI	8.03	-4.08	21.24	0.80	0.21
Intact-Hood-AIXR	Intact-Hood-ULD	7.48	-4.78	19.43	0.76	0.20
Intact-Hood-AIXR	Intact-Open-AIXR	-50.73	-63.22	-37.90	654950.00	-1.33
Intact-Hood-AIXR	Intact-Open-TTI	-5.68	-17.06	5.12	0.52	-0.15
Intact-Hood-AIXR	Intact-Open-ULD	-11.10	-23.59	-0.37	2.95	-0.29
Intact-Hood-AIXR	Water-Hood-AIXR	-8.96	-24.08	2.93	1.05	-0.24
Intact-Hood-AIXR	Water-Hood-TTI	-5.14	-17.76	6.30	0.42	-0.13
Intact-Hood-AIXR	Water-Hood-ULD	-8.55	-22.08	3.79	0.85	-0.22
Intact-Hood-AIXR	Water-Open-AIXR	-65.62	-81.59	-51.42	16064725.41	-1.72
Intact-Hood-AIXR	Water-Open-TTI	-18.23	-34.23	-3.70	9.41	-0.48
Intact-Hood-AIXR	Water-Open-ULD	-50.76	-67.22	-35.88	171535.23	-1.33
Intact-Hood-TTI	Intact-Hood-ULD	-0.74	-13.91	14.67	0.19	-0.02
Intact-Hood-TTI	Intact-Open-AIXR	-58.90	-73.57	-44.71	2544851.79	-1.55
Intact-Hood-TTI	Intact-Open-TTI	-14.04	-28.15	-0.86	1.44	-0.37
Intact-Hood-TTI	Intact-Open-ULD	-19.51	-33.80	-5.91	8.18	-0.51
Intact-Hood-TTI	Water-Hood-AIXR	-17.60	-33.32	-2.31	2.68	-0.46
Intact-Hood-TTI	Water-Hood-TTI	-13.49	-29.65	1.29	0.93	-0.35
Intact-Hood-TTI	Water-Hood-ULD	-16.95	-31.77	-1.29	2.57	-0.44
Intact-Hood-TTI	Water-Open-AIXR	-73.83	-92.15	-58.32	4774055.19	-1.94
Intact-Hood-TTI	Water-Open-TTI	-26.58	-42.79	-8.63	18.62	-0.70
Intact-Hood-TTI	Water-Open-ULD	-59.17	-76.99	-42.21	690085.39	-1.55
Intact-Hood-ULD	Intact-Open-AIXR	-58.42	-72.51	-44.61	464044.62	-1.53
Intact-Hood-ULD	Intact-Open-TTI	-13.59	-26.86	0.44	1.15	-0.36
Intact-Hood-ULD	Intact-Open-ULD	-18.91	-33.26	-6.01	8.46	-0.50
Intact-Hood-ULD	Water-Hood-AIXR	-16.89	-34.79	-2.60	2.24	-0.44
Intact-Hood-ULD	Water-Hood-TTI	-12.87	-29.02	1.11	0.88	-0.34
Intact-Hood-ULD	Water-Hood-ULD	-16.37	-32.50	-2.23	2.55	-0.43
Intact-Hood-ULD	Water-Open-AIXR	-73.36	-90.61	-57.24	152021843.32	-1.92
Intact-Hood-ULD	Water-Open-TTI	-25.86	-43.03	-8.67	21.52	-0.68
Intact-Hood-ULD	Water-Open-ULD	-58.50	-74.77	-40.71	95170.55	-1.53
Intact-Open-AIXR	Intact-Open-TTI	44.77	31.28	58.72	60142.34	1.17
Intact-Open-AIXR	Intact-Open-ULD	39.41	24.18	52.17	166781.73	1.03
Intact-Open-AIXR	Water-Hood-AIXR	41.25	25.18	57.04	791.32	1.08
Intact-Open-AIXR	Water-Hood-TTI	45.48	30.29	60.73	7754.49	1.19
Intact-Open-AIXR	Water-Hood-ULD	41.86	25.85	57.10	609.76	1.10
Intact-Open-AIXR	Water-Open-AIXR	-14.96	-32.52	0.01	1.43	-0.39
Intact-Open-AIXR	Water-Open-TTI	32.47	15.06	48.30	106.88	0.85
Intact-Open-AIXR	Water-Open-ULD	-0.10	-17.47	16.95	0.21	0.00
Intact-Open-TTI	Intact-Open-ULD	-5.44	-18.13	7.58	0.24	-0.14
Intact-Open-TTI	Water-Hood-AIXR	-3.31	-19.53	11.42	0.20	-0.09
Intact-Open-TTI	Water-Hood-TTI	0.52	-14.06	13.93	0.17	0.01
Intact-Open-TTI	Water-Hood-ULD	-2.92	-18.05	11.92	0.19	-0.08
Intact-Open-TTI	Water-Open-AIXR	-59.86	-76.34	-43.30	297214.50	-1.57
Intact-Open-TTI	Water-Open-TTI	-12.50	-28.55	3.31	0.65	-0.33
Intact-Open-TTI	Water-Open-ULD	-44.99	-61.48	-28.70	12108.39	-1.18
Intact-Open-ULD	Water-Hood-AIXR	2.02	-13.71	17.41	0.19	0.05
Intact-Open-ULD	Water-Hood-TTI	5.98	-8.14	20.88	0.27	0.16
Intact-Open-ULD	Water-Hood-ULD	2.56	-11.74	17.87	0.22	0.07
Intact-Open-ULD	Water-Open-AIXR	-54.41	-71.49	-38.87	81745.16	-1.43

Table 3: Treatment contrasts for Area Under the Curve. Bayes Factor is used to test contrast hypothesis *(continued)*

Level1	Level2	Difference	CI_low	CI_high	BF	Std_Difference
Intact-Open-ULD	Water-Open-TTI	-6.82	-23.85	9.01	0.28	-0.18
Intact-Open-ULD	Water-Open-ULD	-39.40	-55.45	-23.56	1284.63	-1.03
Water-Hood-AIXR	Water-Hood-TTI	4.02	-11.70	20.49	0.17	0.11
Water-Hood-AIXR	Water-Hood-ULD	0.51	-15.36	16.87	0.15	0.01
Water-Hood-AIXR	Water-Open-AIXR	-56.26	-73.51	-38.94	66252.86	-1.48
Water-Hood-AIXR	Water-Open-TTI	-8.92	-26.15	9.15	0.35	-0.23
Water-Hood-AIXR	Water-Open-ULD	-41.45	-58.58	-23.61	417.52	-1.09
Water-Hood-TTI	Water-Hood-ULD	-3.46	-19.83	11.05	0.19	-0.09
Water-Hood-TTI	Water-Open-AIXR	-60.41	-77.02	-43.14	136014.62	-1.58
Water-Hood-TTI	Water-Open-TTI	-12.83	-30.68	2.86	0.73	-0.34
Water-Hood-TTI	Water-Open-ULD	-45.61	-62.27	-27.91	5801.62	-1.20
Water-Hood-ULD	Water-Open-AIXR	-56.97	-74.53	-40.39	29805.34	-1.49
Water-Hood-ULD	Water-Open-TTI	-9.34	-26.63	7.91	0.45	-0.25
Water-Hood-ULD	Water-Open-ULD	-42.10	-59.74	-25.15	670.44	-1.10
Water-Open-AIXR	Water-Open-TTI	47.47	29.10	64.88	12250.01	1.25
Water-Open-AIXR	Water-Open-ULD	14.90	-2.43	33.53	1.02	0.39
Water-Open-TTI	Water-Open-ULD	-32.58	-50.40	-14.42	36.30	-0.85