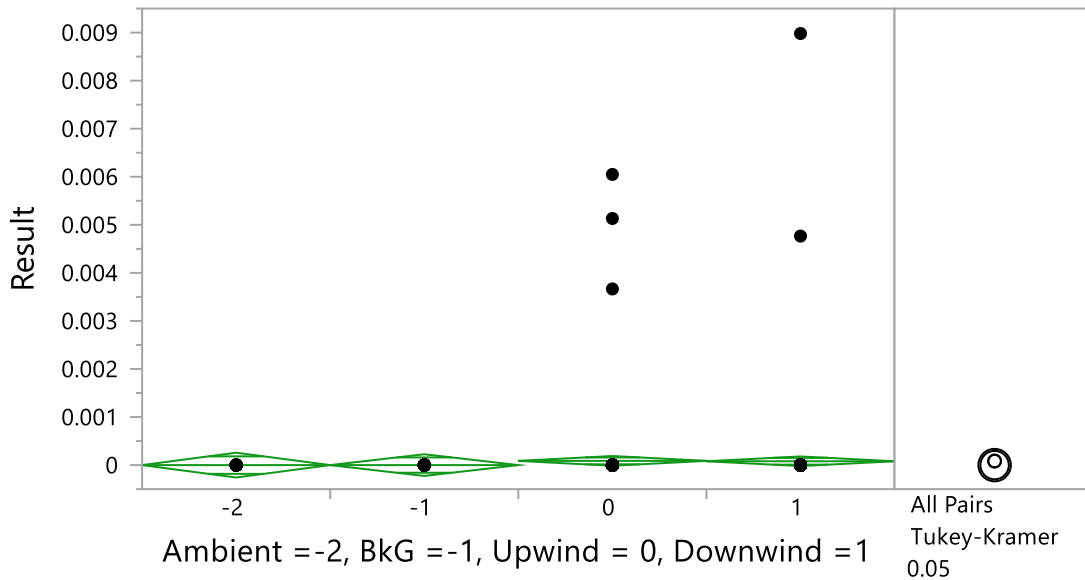


APPENDIX J

Tier 4 (<30% detected) only. Analytes that are significantly different concentration between locations or events identified as ambient, background, upwind, and downwind. This appendix contains only analytes in Tier #4, which have a percent detection <30%. Low percent detection is an indication of highly left-censored data and statistical analysis should be interpreted with caution. This appendix shows the results of comparisons between ambient, background, upwind, and downwind by Tukey-Kramer HSD test for all pairs and the Wilcoxon paired comparison test.

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)= 1,1,1,-Trichloroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare 0.002049
 Adj Rsquare -0.00549
 Root Mean Square Error 0.000668
 Mean of Response 7.13e-5
 Observations (or Sum Wgts) 401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000036	1.2136e-7	0.2717	0.8458
Error	397	0.00017732	4.4665e-7		
C. Total	400	0.00017768			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00013	-0.0003	0.00026
-1	34	0.000000	0.00011	-0.0002	0.00023
0	169	0.000088	5.14e-5	-1.3e-5	0.00019
1	172	0.000080	0.00005	-2e-5	0.00018

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	1.78411	2.307796	0.773080	0.4395	0	0	0
0	-2	1.70858	2.534547	0.674116	0.5002	0	0	0
1	-1	1.18006	1.900167	0.621030	0.5346	0	0	0
1	-2	1.12903	2.088333	0.540635	0.5888	0	0	0
-1	-2	0.00000	0.000000	0.000000	1.0000	0	0	0
1	0	-1.02647	2.223039	-0.461743	0.6443	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5161.00	5226.00	198.500	-0.587
-1	34	6749.00	6834.00	198.500	-0.680
0	169	34147.0	33969.0	202.053	0.806
1	172	34544.0	34572.0	200.837	-0.125

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.1426	3	0.7668

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	-0.00019	-0.00018	-0.00028	-0.00024
1	-0.00018	-0.00019	-0.00028	-0.00024
-2	-0.00028	-0.00028	-0.00048	-0.00045
-1	-0.00024	-0.00024	-0.00045	-0.00042

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00008785
1 A	0.00007992

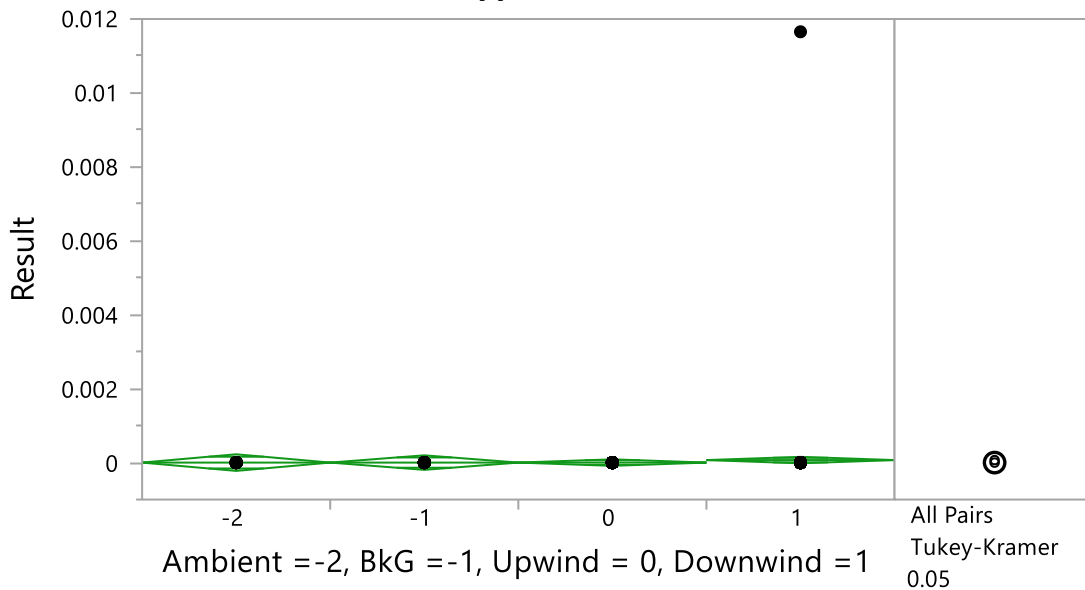
Level	Mean
-2 A	0.00000000
-1 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0000878	0.0001408	-0.000275	0.0004511	0.9244
0	-1	0.0000878	0.0001256	-0.000236	0.0004119	0.8973
1	-2	0.0000799	0.0001406	-0.000283	0.0004427	0.9414
1	-1	0.0000799	0.0001254	-0.000244	0.0004035	0.9199
0	1	0.0000079	0.0000724	-0.000179	0.0001947	0.9995
-1	-2	0.0000000	0.0001741	-0.000449	0.0004492	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=1,1,2,2-Tetrachloroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003328
Adj Rsquare	-0.0042
Root Mean Square Error	0.000583
Mean of Response	0.000029
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000045	1.5031e-7	0.4419	0.7231
Error	397	0.00013503	3.4011e-7		
C. Total	400	0.00013548			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00011	-0.0002	0.00022
-1	34	0.000000	0.00010	-0.0002	0.00020
0	169	0.000000	4.49e-5	-0.0001	8.82e-5
1	172	0.000068	4.45e-5	-2e-5	0.00016

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	0.9854135	1.000039	0.9853754	0.3244	0	0	0
1	-1	0.5812244	1.346894	0.4315293	0.6661	0	0	0
1	-2	0.5534436	1.480418	0.3738429	0.7085	0	0	0
-1	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-1	0.0000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	33884.5	33969.0	200.500	-0.848
1	172	34686.5	34572.0	201.666	1.149

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3314	3	0.7217

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	-1	0
1		-0.00016	-0.00025	-0.00021
-2	-0.00016		-0.00042	-0.00039
-1	-0.00025	-0.00039		-0.00028
0	-0.00021	-0.00032	-0.00028	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00006776
-2 A	0.00000000

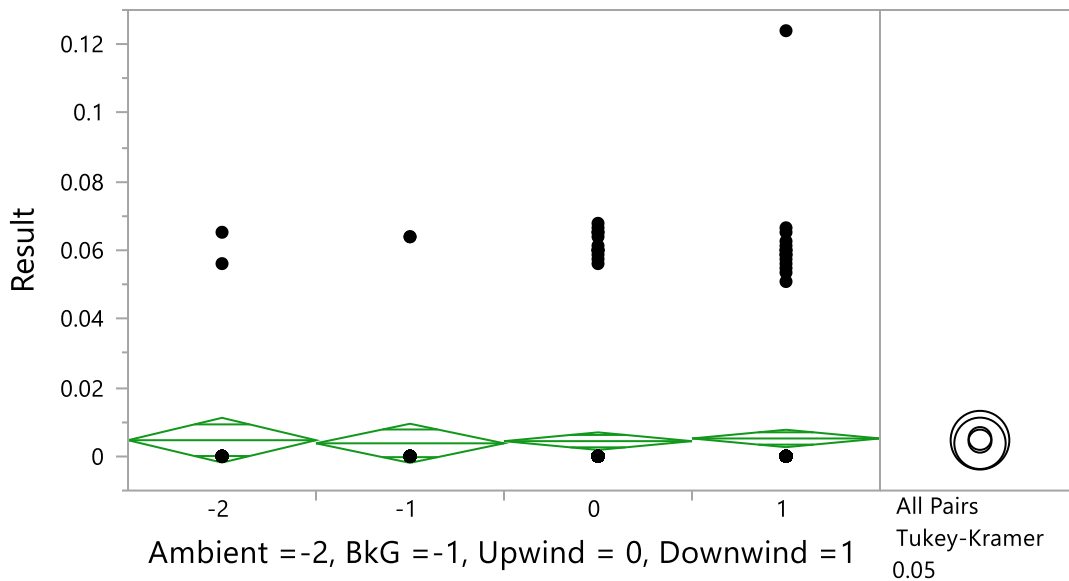
Level	Mean
-1 A	0.0000000
0 A	0.0000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0000678	0.0001227	-0.000249	0.0003844	0.9459
1	-1	0.0000678	0.0001095	-0.000215	0.0003502	0.9260
1	0	0.0000678	0.0000632	-0.000095	0.0002307	0.7064
-1	-2	0.0000000	0.0001519	-0.000392	0.0003920	1.0000
0	-2	0.0000000	0.0001229	-0.000317	0.0003170	1.0000
0	-1	0.0000000	0.0001096	-0.000283	0.0002828	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,1,2-Trichloro-1,2,2-Trifluoroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.000744
Adj Rsquare	-0.00681
Root Mean Square Error	0.016909
Mean of Response	0.004692
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00008451	0.000028	0.0985	0.9608
Error	397	0.11350864	0.000286		
C. Total	400	0.11359315			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.004668	0.00332	-0.0019	0.01119
-1	34	0.003761	0.00290	-0.0019	0.00946
0	169	0.004393	0.00130	0.0018	0.00695
1	172	0.005174	0.00129	0.0026	0.00771

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	2.02548	5.192331	0.390090	0.6965	0	0	0
1	0	1.49572	4.913248	0.304425	0.7608	0	0	0
0	-1	1.11286	4.850235	0.229445	0.8185	0	0	0
1	-2	0.37634	5.698433	0.066043	0.9473	0	0	0
0	-2	-0.44379	5.320699	-0.083408	0.9335	0	0	0
-1	-2	-0.50905	1.967360	-0.258748	0.7958	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5235.50	5226.00	201.365	0.035
-1	34	6736.00	6834.00	198.118	-0.331
0	169	33862.5	33969.0	200.370	-0.203
1	172	34767.0	34572.0	202.134	0.371

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2054	3	0.9767

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	0	-1
1		-0.00470	-0.00867	-0.00394
-2	-0.00867		-0.00892	-0.01046
0	-0.00394	-0.00892		-0.00757
-1	-0.00677	-0.01046	-0.00757	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00517410
-2 A	0.00466754

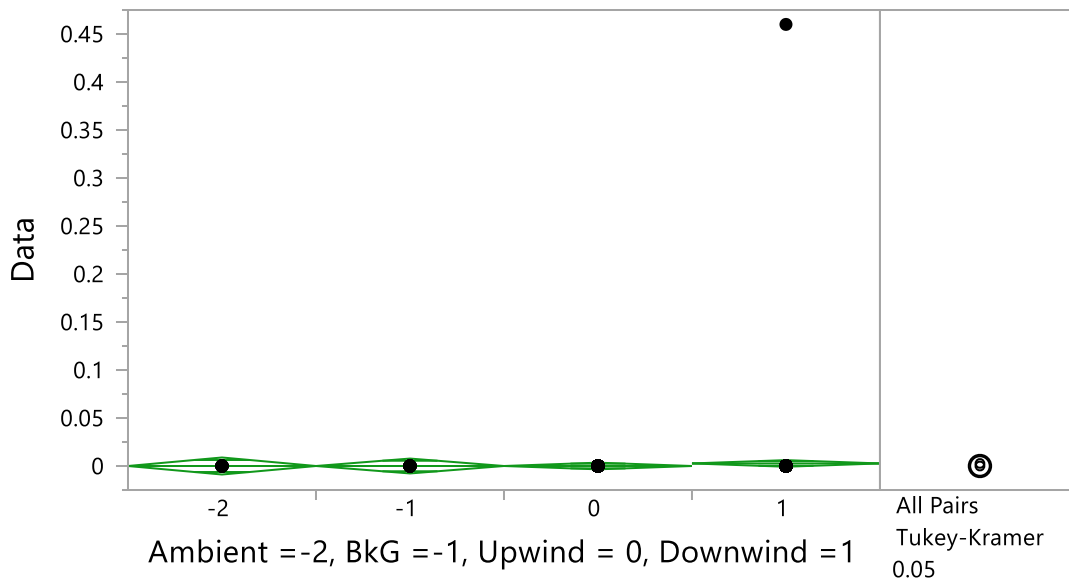
Level		Mean
0	A	0.00439344
-1	A	0.00376120

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-1	0.0014129	0.0031736	-0.006775	0.0096007	0.9705
-2	-1	0.0009063	0.0044052	-0.010459	0.0122718	0.9969
1	0	0.0007807	0.0018314	-0.003944	0.0055057	0.9740
0	-1	0.0006322	0.0031782	-0.007568	0.0088320	0.9972
1	-2	0.0005066	0.0035580	-0.008673	0.0096860	0.9990
-2	0	0.0002741	0.0035621	-0.008916	0.0094643	0.9998

Oneway Analysis of Data By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)= 1,1,2-Trichloroethane (ppb v/v)



Missing Rows 208

Oneway Anova

Summary of Fit

Rsquare	0.003328
Adj Rsquare	-0.0042
Root Mean Square Error	0.02302
Mean of Response	0.001147
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00070255	0.000234	0.4419	0.7231
Error	397	0.21036977	0.000530		
C. Total	400	0.21107232			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00451	-0.0089	0.00888
-1	34	0.000000	0.00395	-0.0078	0.00776
0	169	0.000000	0.00177	-0.0035	0.00348
1	172	0.002674	0.00176	-0.0008	0.00613

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	0.9854135	1.000039	0.9853754	0.3244	0	0	0
1	-1	0.5812244	1.346894	0.4315293	0.6661	0	0	0
1	-2	0.5534436	1.480418	0.3738429	0.7085	0	0	0
-1	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-1	0.0000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	33884.5	33969.0	200.500	-0.848
1	172	34686.5	34572.0	201.666	1.149

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3314	3	0.7217

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	-1	0
1		-0.00640	-0.00982	-0.00847
-2			-0.01647	-0.01547
-1				-0.01116
0				

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00267442
-2 A	0.00000000

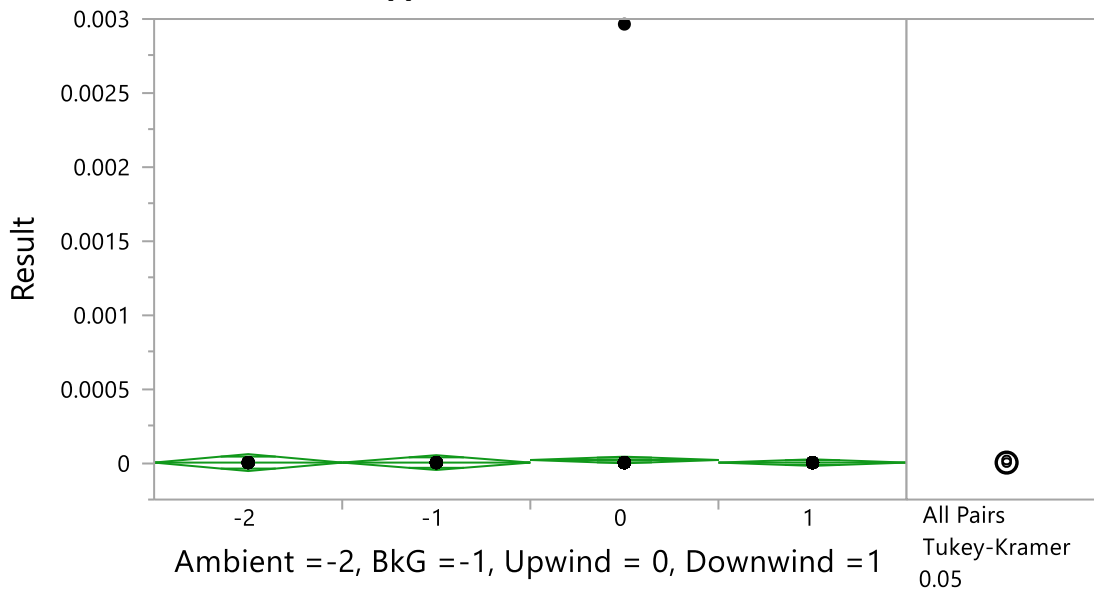
Level	Mean
-1 A	0.00000000
0 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0026744	0.0048437	-0.009822	0.0151711	0.9459
1	-1	0.0026744	0.0043204	-0.008472	0.0138210	0.9260
1	0	0.0026744	0.0024933	-0.003758	0.0091070	0.7064
-1	-2	0.0000000	0.0059972	-0.015473	0.0154726	1.0000
0	-2	0.0000000	0.0048494	-0.012511	0.0125112	1.0000
0	-1	0.0000000	0.0043267	-0.011163	0.0111629	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)= 1,1-Dichloroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003432
Adj Rsquare	-0.0041
Root Mean Square Error	0.000148
Mean of Response	7.394e-6
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	3.00985e-8	1.0033e-8	0.4557	0.7134
Error	397	0.00000874	2.2015e-8		
C. Total	400	0.00000877			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00003	-0.0001	5.72e-5
-1	34	0.000000	2.54e-5	-0.0001	0.00005
0	169	0.000018	1.14e-5	-4.9e-6	0.00004
1	172	0.000000	1.13e-5	-2.2e-5	2.22e-5

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	0.58293	1.339008	0.43534	0.6633	0	0	0
0	-2	0.55473	1.470871	0.37715	0.7061	0	0	0
-1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	-1	0.00000	0.000000	0.00000	1.0000	0	0	0
1	0	-1.00301	1.000039	-1.00297	0.3159	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	34085.0	33969.0	201.686	1.167
1	172	34486.0	34572.0	200.500	-0.862

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3728	3	0.7119

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	-2	-1	1
0	-0.00004	-0.00006	-0.00005	-0.00002
-2	-0.00006	-0.00011	-0.00010	-0.00008
-1	-0.00005	-0.00010	-0.00009	-0.00007
1	-0.00002	-0.00008	-0.00007	-0.00004

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00001755
-2 A	0.00000000

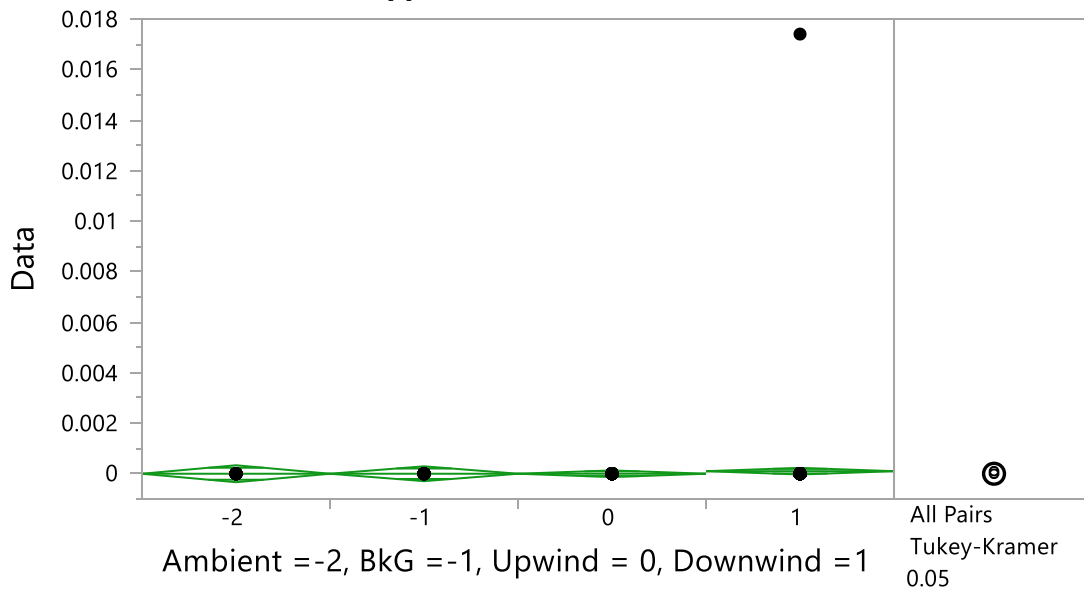
Level		Mean
-1	A	0.00000000
1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0000175	0.0000313	-0.000063	0.0000982	0.9434
0	-1	0.0000175	0.0000279	-0.000054	0.0000895	0.9227
0	1	0.0000175	0.0000161	-0.000024	0.0000590	0.6948
-1	-2	0.0000000	0.0000387	-0.000100	0.0000997	1.0000
1	-2	0.0000000	0.0000312	-0.000081	0.0000805	1.0000
1	-1	0.0000000	0.0000278	-0.000072	0.0000718	1.0000

Oneway Analysis of Data By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)= 1,1-Dichloroethene (ppb v/v)



Missing Rows 208

Oneway Anova

Summary of Fit

Rsquare	0.003328
Adj Rsquare	-0.0042
Root Mean Square Error	0.000871
Mean of Response	4.34e-5
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000101	3.3519e-7	0.4419	0.7231
Error	397	0.00030110	7.5845e-7		
C. Total	400	0.00030211			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00017	-0.0003	0.00034
-1	34	0.000000	0.00015	-0.0003	0.00029
0	169	0.000000	6.7e-5	-0.0001	0.00013
1	172	0.000101	6.64e-5	-2.9e-5	0.00023

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	0.9854135	1.000039	0.9853754	0.3244	0	0	0
1	-1	0.5812244	1.346894	0.4315293	0.6661	0	0	0
1	-2	0.5534436	1.480418	0.3738429	0.7085	0	0	0
-1	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-1	0.0000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	33884.5	33969.0	200.500	-0.848
1	172	34686.5	34572.0	201.666	1.149

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3314	3	0.7217

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	-1	0
1		-0.00024	-0.00037	-0.00032
-2	-0.00024		-0.00062	-0.00059
-1	-0.00037	-0.00062		-0.00054
0	-0.00032	-0.00059	-0.00054	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00010118
-2 A	0.00000000

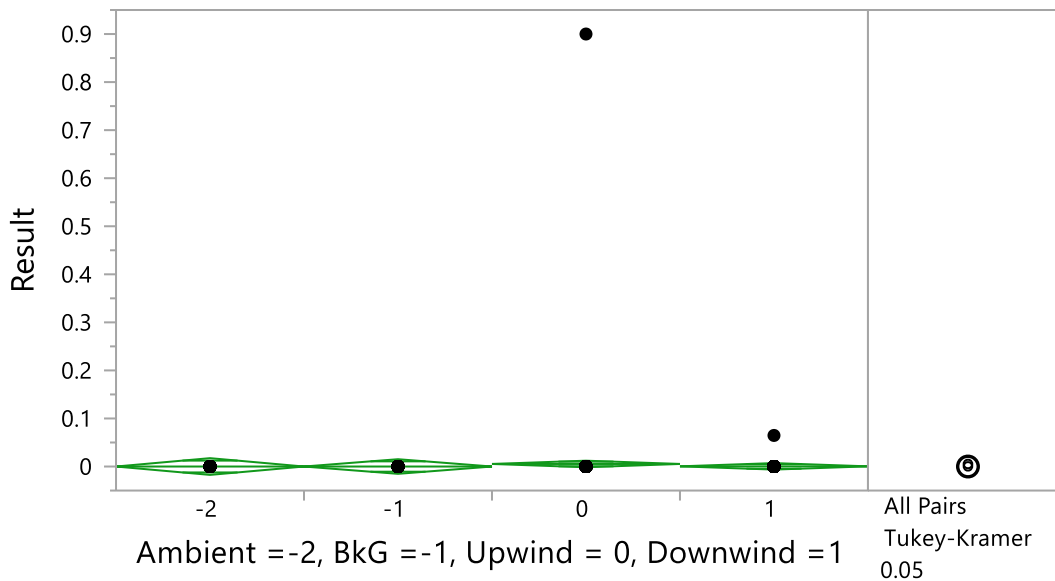
Level	Mean
-1 A	0.0000000
0 A	0.0000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0001012	0.0001833	-0.000372	0.0005740	0.9459
1	-1	0.0001012	0.0001635	-0.000321	0.0005229	0.9260
1	0	0.0001012	0.0000943	-0.000142	0.0003445	0.7064
-1	-2	0.0000000	0.0002269	-0.000585	0.0005854	1.0000
0	-2	0.0000000	0.0001835	-0.000473	0.0004733	1.0000
0	-1	0.0000000	0.0001637	-0.000422	0.0004223	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,2,4-Trichlorobenzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003075
Adj Rsquare	-0.00446
Root Mean Square Error	0.045152
Mean of Response	0.002406
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00249649	0.000832	0.4082	0.7472
Error	397	0.80936661	0.002039		
C. Total	400	0.81186310			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00886	-0.0174	0.01741
-1	34	0.000000	0.00774	-0.0152	0.01522
0	169	0.005325	0.00347	-0.0015	0.01215
1	172	0.000376	0.00344	-0.0064	0.00714

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	0.582927	1.339008	0.435343	0.6633	0	0	0
1	-1	0.581224	1.346894	0.431529	0.6661	0	0	0
0	-2	0.554734	1.470871	0.377146	0.7061	0	0	0
1	-2	0.553444	1.480418	0.373843	0.7085	0	0	0
-1	-2	0.000000	0.000000	0.000000	1.0000	0	0	0
1	0	-0.017597	1.412193	-0.012461	0.9901	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5200.00	5226.00	200.000	-0.366
-1	34	6800.00	6834.00	200.000	-0.425
0	169	34001.0	33969.0	201.189	0.225
1	172	34600.0	34572.0	201.163	0.196

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3531	3	0.9498

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	-0.01267	-0.00767	-0.01921	-0.01657
1	-0.00767	-0.01256	-0.02414	-0.02149
-2	-0.01921	-0.02414	-0.03231	-0.03035
-1	-0.01657	-0.02149	-0.03035	-0.02825

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean	
0	A	0.00532544
1	A	0.00037606

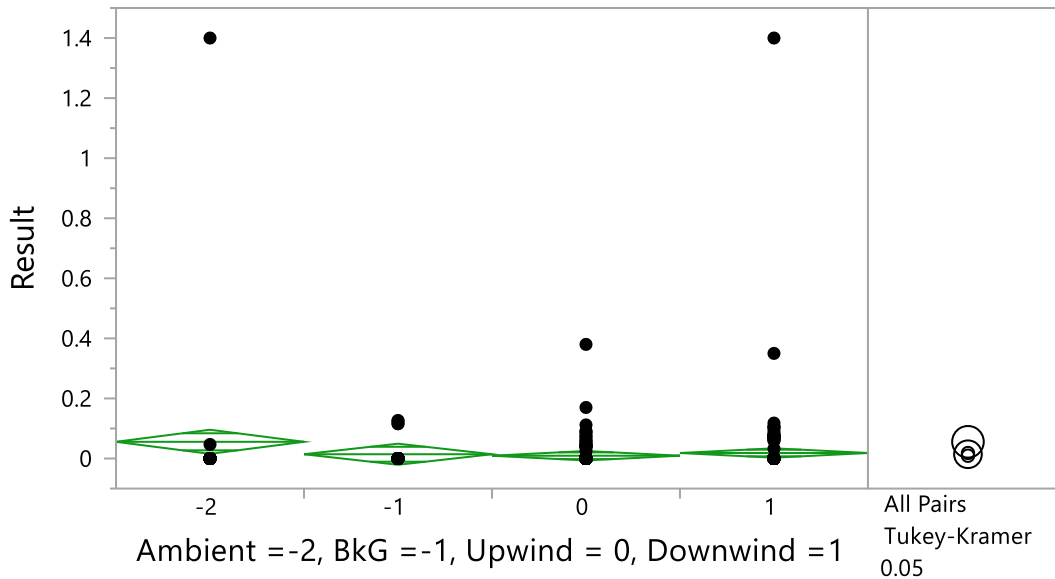
Level	Mean
-2 A	0.00000000
-1 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0053254	0.0095118	-0.019215	0.0298658	0.9438
0	-1	0.0053254	0.0084868	-0.016570	0.0272212	0.9232
0	1	0.0049494	0.0048904	-0.007668	0.0175666	0.7425
1	-2	0.0003761	0.0095008	-0.024136	0.0248879	1.0000
1	-1	0.0003761	0.0084744	-0.021488	0.0222398	1.0000
-1	-2	0.0000000	0.0117632	-0.030349	0.0303489	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,2,4-Trimethylbenzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.01134
Adj Rsquare	0.003869
Root Mean Square Error	0.104122
Mean of Response	0.016602
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0493670	0.016456	1.5179	0.2093
Error	397	4.3040407	0.010841		
C. Total	400	4.3534077			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.055646	0.02042	0.0155	0.09579
-1	34	0.014239	0.01786	-0.0209	0.04934
0	169	0.009297	0.00801	-0.0064	0.02504
1	172	0.018346	0.00794	0.0027	0.03395

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-2	3.85197	6.578358	0.585552	0.5582	0	0	0
0	-2	3.15089	6.397251	0.492538	0.6223	0	0	0
1	0	1.44879	5.900353	0.245543	0.8060	0	0	0
-1	-2	1.18778	2.368523	0.501487	0.6160	0	0	0
1	-1	-1.18006	6.233081	-0.189322	0.8498	0	0	0
0	-1	-1.57214	6.076445	-0.258726	0.7958	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5049.00	5226.00	194.192	-0.564
-1	34	6931.00	6834.00	203.853	0.272
0	169	33871.5	33969.0	200.423	-0.154
1	172	34749.5	34572.0	202.032	0.281

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.4267	3	0.9347

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	-1	0
-2	0.07451	0.01923	0.02858	0.01024
1	0.01923	0.02897	0.04631	0.02005
-1	0.02858	0.04631	0.06515	0.04555
0	0.01024	0.02005	0.04555	0.02922

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.05564556
1 A	0.01834634

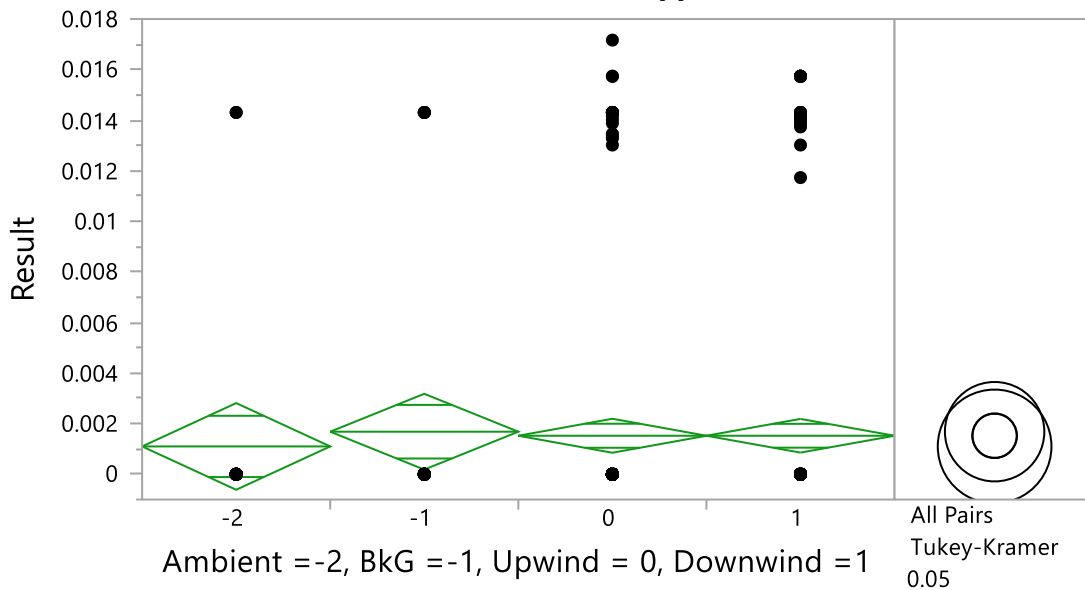
Level		Mean
-1	A	0.01423877
0	A	0.00929659

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	0.0463490	0.0219346	-0.010242	0.1029399	0.1507
-2	-1	0.0414068	0.0271264	-0.028579	0.1113924	0.4226
-2	1	0.0372992	0.0219091	-0.019226	0.0938243	0.3237
1	0	0.0090497	0.0112775	-0.020046	0.0381455	0.8533
-1	0	0.0049422	0.0195708	-0.045550	0.0554344	0.9943
1	-1	0.0041076	0.0195422	-0.046311	0.0545260	0.9967

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,2-Dichloro-1,1,2,2-Tetrafluoroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.000693
Adj Rsquare	-0.00686
Root Mean Square Error	0.004444
Mean of Response	0.001509
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000543	1.812e-6	0.0917	0.9646
Error	397	0.00783979	0.000020		
C. Total	400	0.00784522			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.001100	0.00087	-0.0006	0.00281
-1	34	0.001683	0.00076	0.00018	0.00318
0	169	0.001523	0.00034	0.00085	0.00219
1	172	0.001523	0.00034	0.00086	0.00219

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-2	2.72294	6.304311	0.431918	0.6658	0	0	0
0	-2	2.64053	6.258560	0.421907	0.6731	0	0	0
-1	-2	1.18778	2.364513	0.502337	0.6154	0	0	0
1	0	0.00000	5.694264	0.000000	1.0000	0	0	0
1	-1	-1.32096	5.996863	-0.220276	0.8257	0	0	0
0	-1	-1.46615	5.956461	-0.246145	0.8056	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5086.00	5226.00	195.615	-0.459
-1	34	6932.00	6834.00	203.882	0.284
0	169	33986.5	33969.0	201.104	0.028
1	172	34596.5	34572.0	201.142	0.039

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2746	3	0.9647

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	1	0	-2	
-1		-0.00278	-0.00199	-0.00199	-0.00240
1	-0.00199		-0.00124	-0.00199	
0	-0.00199	-0.00124		-0.00125	
-2	-0.00240	-0.00199	-0.00199		

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.00168293
1 A	0.00152281

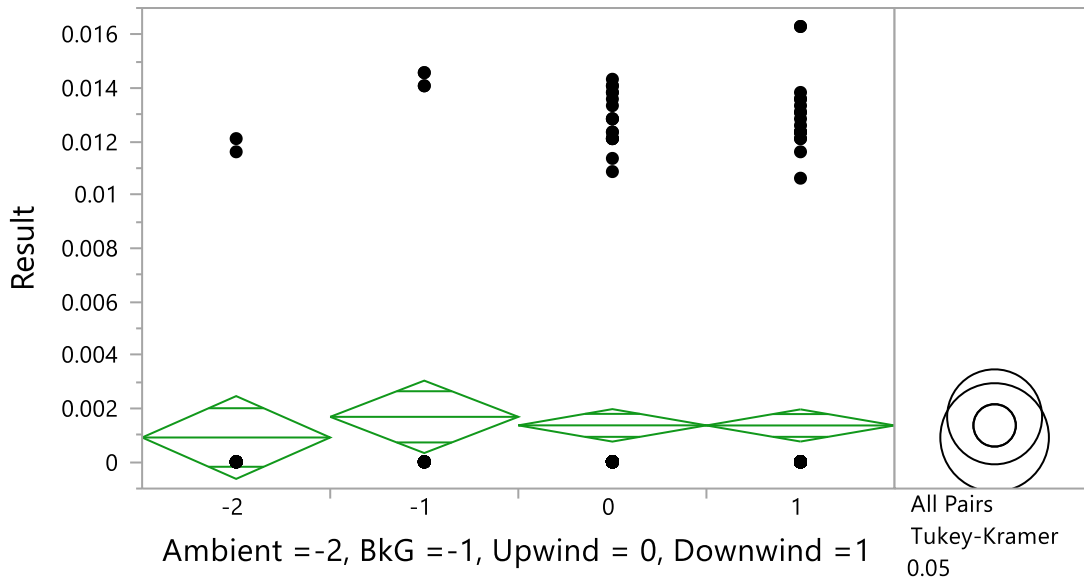
Level		Mean
0	A	0.00152276
-2	A	0.00110038

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	-2	0.0005826	0.0011577	-0.002404	0.0035695	0.9583
1	-2	0.0004224	0.0009351	-0.001990	0.0028349	0.9693
0	-2	0.0004224	0.0009361	-0.001993	0.0028376	0.9694
-1	0	0.0001602	0.0008353	-0.001995	0.0023151	0.9975
-1	1	0.0001601	0.0008340	-0.001992	0.0023119	0.9975
1	0	5.4132e-8	0.0004813	-0.001242	0.0012418	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,2-Dichloroethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.001374
Adj Rsquare	-0.00617
Root Mean Square Error	0.004022
Mean of Response	0.001363
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000883	2.944e-6	0.1820	0.9086
Error	397	0.00642083	0.000016		
C. Total	400	0.00642966			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000912	0.00079	-0.0006	0.00246
-1	34	0.001686	0.00069	0.00033	0.00304
0	169	0.001367	0.00031	0.00076	0.00198
1	172	0.001363	0.00031	0.00076	0.00197

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	3.39497	6.259437	0.542376	0.5876	0	0	0
1	-2	3.32066	6.304970	0.526674	0.5984	0	0	0
-1	-2	1.45928	2.368523	0.616112	0.5378	0	0	0
1	0	-0.28741	5.694653	-0.050471	0.9597	0	0	0
0	-1	-2.24339	5.957899	-0.376540	0.7065	0	0	0
1	-1	-2.30728	5.997758	-0.384691	0.7005	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5051.50	5226.00	194.288	-0.573
-1	34	6986.00	6834.00	205.471	0.441
0	169	34007.0	33969.0	201.225	0.062
1	172	34556.5	34572.0	200.910	-0.025

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.4904	3	0.9210

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	0	1	-2
-1		-0.00163	-0.00162	-0.00193
0	-0.00163		-0.00112	-0.00173
1	-0.00162	-0.00112		-0.00173
-2	-0.00193	-0.00173	-0.00173	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.00168606
0 A	0.00136706

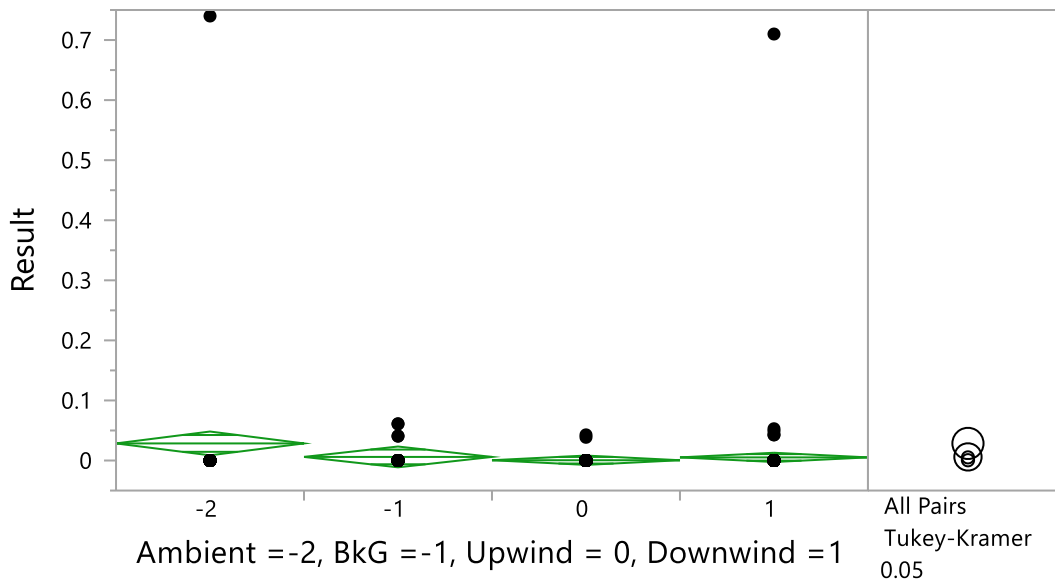
Level		Mean
1	A	0.00136333
-2	A	0.00091235

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	-2	0.0007737	0.0010477	-0.001929	0.0034768	0.8815
0	-2	0.0004547	0.0008472	-0.001731	0.0026405	0.9500
1	-2	0.0004510	0.0008462	-0.001732	0.0026342	0.9510
-1	1	0.0003227	0.0007548	-0.001625	0.0022701	0.9737
-1	0	0.0003190	0.0007559	-0.001631	0.0022692	0.9747
0	1	0.0000037	0.0004356	-0.001120	0.0011275	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,3,5-Trimethylbenzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.016694
Adj Rsquare	0.009263
Root Mean Square Error	0.051369
Mean of Response	0.004793
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0177857	0.005929	2.2467	0.0824
Error	397	1.0476087	0.002639		
C. Total	400	1.0653944			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.028462	0.01007	0.0087	0.04827
-1	34	0.005983	0.00881	-0.0113	0.02330
0	169	0.000481	0.00395	-0.0073	0.00825
1	172	0.005216	0.00392	-0.0025	0.01292

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	2.9797	2.622575	1.13617	0.2559	0	0	0
-1	-2	2.2059	2.180764	1.01152	0.3118	0	0	0
1	-2	-1.0183	3.580487	-0.28441	0.7761	0	0	0
0	-2	-2.6183	2.534547	-1.03306	0.3016	0	0	0
1	-1	-9.0354	3.962325	-2.28033	0.0226*	0	0	0
0	-1	-10.7930	3.239485	-3.33170	0.0009*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5276.00	5226.00	202.923	0.293
-1	34	7430.00	6834.00	218.529	3.121
0	169	33349.0	33969.0	197.331	-1.831
1	172	34546.0	34572.0	200.849	-0.075

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
10.9566	3	0.0120*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	1	0	
-2		-0.03676	-0.01205	-0.00464	0.00006
-1			-0.03214	-0.02411	-0.01941
1				-0.01429	-0.00962
0					-0.01442

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.02846154
-1 A B	0.00598268

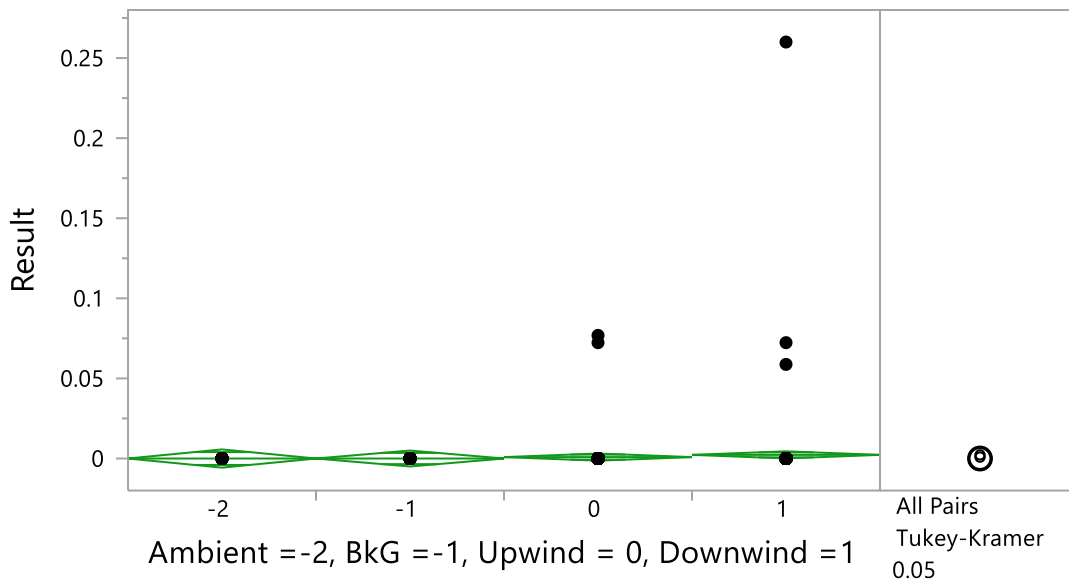
Level		Mean
1	A B	0.00521592
0	B	0.00048145

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	0.0279801	0.0108216	0.000061	0.0558996	0.0493*
-2	1	0.0232456	0.0108090	-0.004641	0.0511327	0.1392
-2	-1	0.0224789	0.0133830	-0.012049	0.0570068	0.3358
-1	0	0.0055012	0.0096554	-0.019409	0.0304119	0.9410
1	0	0.0047345	0.0055638	-0.009620	0.0190890	0.8299
-1	1	0.0007668	0.0096413	-0.024108	0.0256410	0.9998

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,3-Butadiene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.00338
Adj Rsquare	-0.00415
Root Mean Square Error	0.014752
Mean of Response	0.001347
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00029303	0.000098	0.4488	0.7183
Error	397	0.08639873	0.000218		
C. Total	400	0.08669176			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00289	-0.0057	0.00569
-1	34	0.000000	0.00253	-0.0050	0.00497
0	169	0.000883	0.00113	-0.0013	0.00311
1	172	0.002274	0.00112	6.24e-5	0.00449

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	1.778899	2.321556	0.7662529	0.4435	0	0	0
1	-2	1.704606	2.551198	0.6681593	0.5040	0	0	0
0	-1	1.183519	1.888974	0.6265408	0.5310	0	0	0
0	-2	1.131657	2.074785	0.5454332	0.5855	0	0	0
1	0	0.944355	2.223035	0.4248041	0.6710	0	0	0
-1	-2	0.000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5161.00	5226.00	198.500	-0.587
-1	34	6749.00	6834.00	198.500	-0.680
0	169	33948.0	33969.0	200.876	-0.093
1	172	34743.0	34572.0	201.994	0.772

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.1035	3	0.7762

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	0	-2	-1
1		-0.00410	-0.00273	-0.00573
0	-0.00410		-0.00714	-0.00627
-2	-0.00573	-0.00714		-0.00992
-1	-0.00487	-0.00627	-0.00992	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00227376
0 A	0.00088265

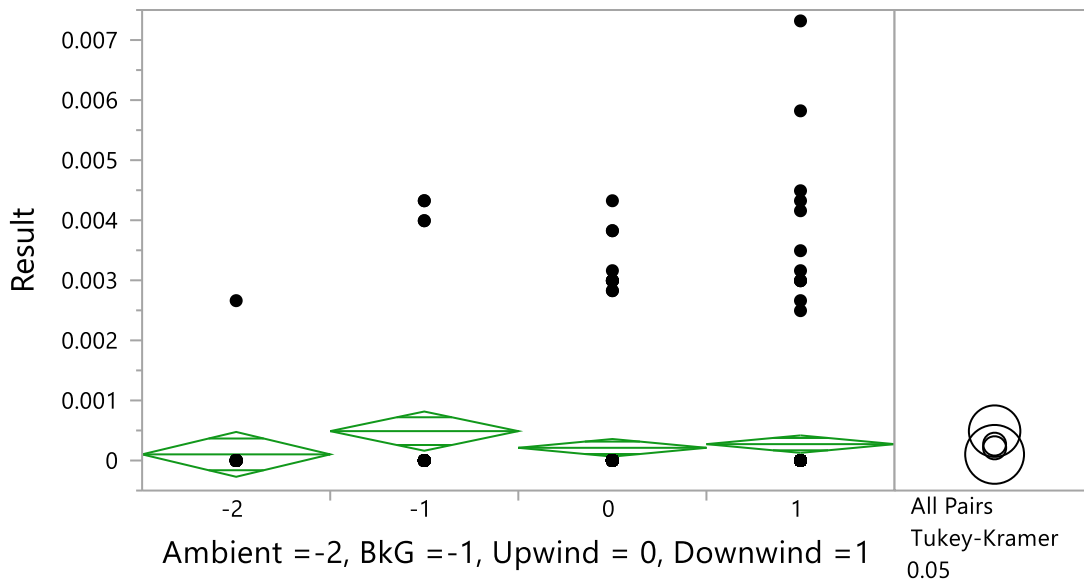
Level	Mean
-2 A	0.00000000
-1 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0022738	0.0031041	-0.005735	0.0102824	0.8840
1	-1	0.0022738	0.0027688	-0.004870	0.0094172	0.8444
1	0	0.0013911	0.0015978	-0.002731	0.0055135	0.8200
0	-2	0.0008827	0.0031077	-0.007135	0.0089006	0.9920
0	-1	0.0008827	0.0027728	-0.006271	0.0080365	0.9888
-1	-2	0.0000000	0.0038433	-0.009916	0.0099157	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units) = 1,4-Dichlorobenzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.007577
Adj Rsquare	7.72e-5
Root Mean Square Error	0.000968
Mean of Response	0.000254
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000284	9.4754e-7	1.0103	0.3881
Error	397	0.00037234	9.3789e-7		
C. Total	400	0.00037518			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000102	0.00019	-0.0003	0.00048
-1	34	0.000489	0.00017	0.00016	0.00082
0	169	0.000212	7.45e-5	6.51e-5	0.00036
1	172	0.000273	7.38e-5	0.00013	0.00042

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-2	3.27639	5.176496	0.63294	0.5268	0	0	0
0	-2	2.81805	4.951736	0.56910	0.5693	0	0	0
-1	-2	2.47738	2.180764	1.13601	0.2560	0	0	0
1	0	0.98541	4.641856	0.21229	0.8319	0	0	0
1	-1	-5.16057	5.192282	-0.99389	0.3203	0	0	0
0	-1	-5.98825	5.007674	-1.19582	0.2318	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5050.50	5226.00	194.250	-0.693
-1	34	7188.00	6834.00	211.412	1.238
0	169	33778.5	33969.0	199.873	-0.375
1	172	34584.0	34572.0	201.070	0.023

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9397	3	0.5850

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	1	0	-2
-1	0.00061	0.00025	0.00019	0.00026
1	0.00025	0.00027	0.00021	0.00036
0	0.00019	0.00021	0.00027	0.00042
-2	0.00026	0.00036	0.00042	0.00069

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.00048920
1 A	0.00027270

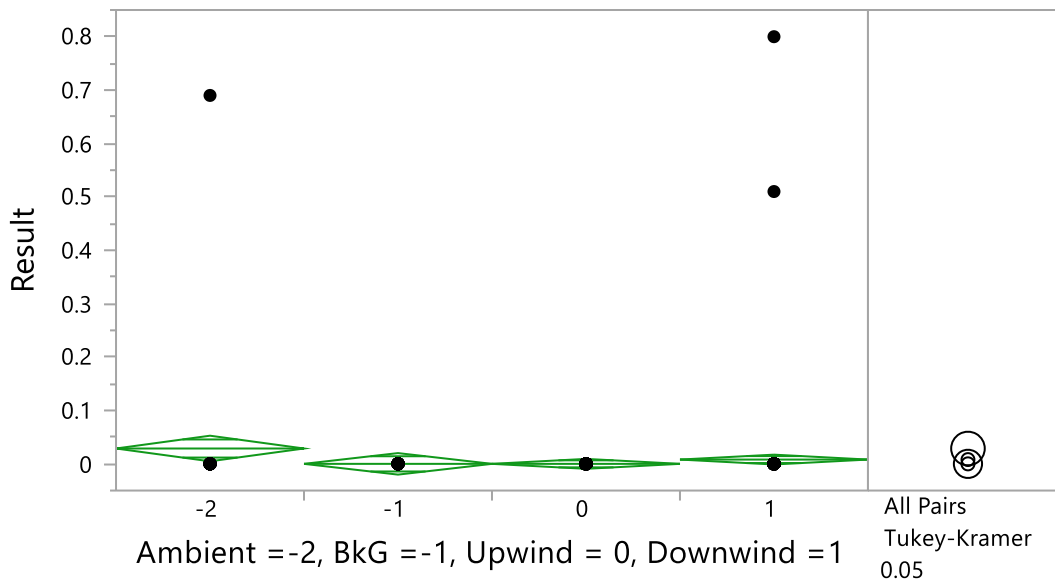
Level		Mean
0	A	0.00021160
-2	A	0.00010235

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	-2	0.0003868	0.0002523	-0.000264	0.0010378	0.4186
-1	0	0.0002776	0.0001820	-0.000192	0.0007472	0.4234
-1	1	0.0002165	0.0001818	-0.000252	0.0006854	0.6328
1	-2	0.0001703	0.0002038	-0.000355	0.0006961	0.8373
0	-2	0.0001092	0.0002040	-0.000417	0.0006356	0.9504
1	0	0.0000611	0.0001049	-0.000210	0.0003317	0.9373

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2,2,4-Trimethylpentane (ppb v/v)



Missing Rows 184

Oneway Anova

Summary of Fit

Rsquare	0.014547
Adj Rsquare	0.006705
Root Mean Square Error	0.059748
Mean of Response	0.005249
Observations (or Sum Wgts)	381

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0198670	0.006622	1.8551	0.1367
Error	377	1.3458343	0.003570		
C. Total	380	1.3657013			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.028750	0.01220	0.0048	0.05273
-1	34	0.000000	0.01025	-0.0201	0.02015
0	160	0.000000	0.00472	-0.0093	0.00929
1	163	0.008037	0.00468	-0.0012	0.01724

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	1.97540	1.412084	1.39893	0.1618	0	0	0
1	-1	1.19082	1.866435	0.63802	0.5235	0	0	0
0	-1	0.00000	0.000000	0.00000	1.0000	0	0	0
-1	-2	-1.17279	1.015203	-1.15523	0.2480	0	0	0
1	-2	-2.72469	2.575385	-1.05798	0.2901	0	0	0
0	-2	-3.80938	1.484644	-2.56585	0.0103*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	4738.50	4584.00	197.438	1.926
-1	34	6443.00	6494.00	189.500	-0.538
0	160	30320.0	30560.0	189.500	-1.475
1	163	31269.5	31133.0	191.837	0.835

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.4367	3	0.1425

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58056	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	-1	0
-2	-0.04451	-0.01300	-0.01236	-0.00500
1	-0.01300	-0.01708	-0.02103	-0.00912
-1	-0.01236	-0.02103	-0.03740	-0.02912
0	-0.00500	-0.00912	-0.02912	-0.01724

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.02875000
1 A	0.00803681

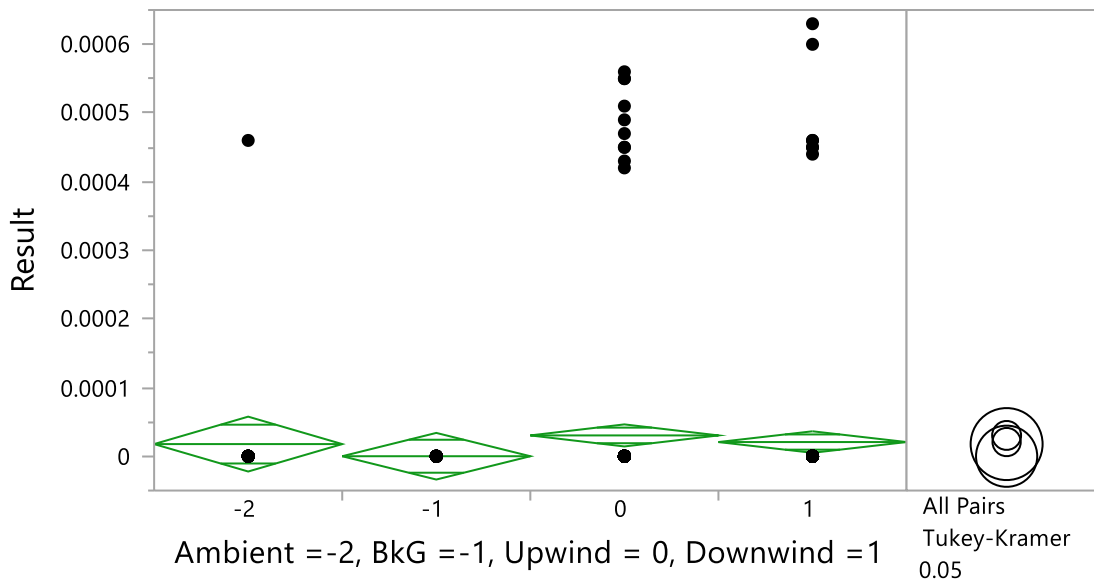
Level	Mean
-1 A	0.00000000
0 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.0287500	0.0159292	-0.012356	0.0698563	0.2726
-2	0	0.0287500	0.0130788	-0.005001	0.0625007	0.1256
-2	1	0.0207132	0.0130631	-0.012997	0.0544233	0.3881
1	-1	0.0080368	0.0112648	-0.021033	0.0371064	0.8917
1	0	0.0080368	0.0066492	-0.009122	0.0251956	0.6217
0	-1	0.0000000	0.0112831	-0.029117	0.0291166	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2,5-Dimethyl Benzaldehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.006963
Adj Rsquare	-0.00072
Root Mean Square Error	0.000104
Mean of Response	2.253e-5
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	2.92253e-8	9.7418e-9	0.9068	0.4378
Error	388	4.16817e-6	1.0743e-8		
C. Total	391	4.1974e-6			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000018	0.00002	-2.2e-5	5.77e-5
-1	36	0.000000	1.73e-5	-3.4e-5	3.4e-5
0	161	0.000030	8.17e-6	1.43e-5	4.64e-5
1	169	0.000021	7.97e-6	4.98e-6	3.63e-5

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	6.10102	3.998130	1.52597	0.1270	0	0	0
1	-1	4.22871	3.425929	1.23433	0.2171	0	0	0
0	-2	2.23364	4.665192	0.47879	0.6321	0	0	0
1	-2	0.24408	4.085612	0.05974	0.9524	0	0	0
-1	-2	-1.15919	1.013267	-1.14401	0.2526	0	0	0
1	0	-3.39594	4.024622	-0.84379	0.3988	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5070.50	5109.00	195.019	-0.188
-1	36	6750.00	7074.00	187.500	-1.377
0	161	32147.5	31636.5	199.674	1.275
1	169	33060.0	33208.5	195.621	-0.367

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.7985	3	0.4237

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	0.000003	0.000002	0.000004	0.000002
1	0.000002	0.000003	0.000005	0.000003
-2	0.000004	0.000005	0.000007	0.000005
-1	0.000002	0.000003	0.000005	0.000006

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00003031
1 A	0.00002065

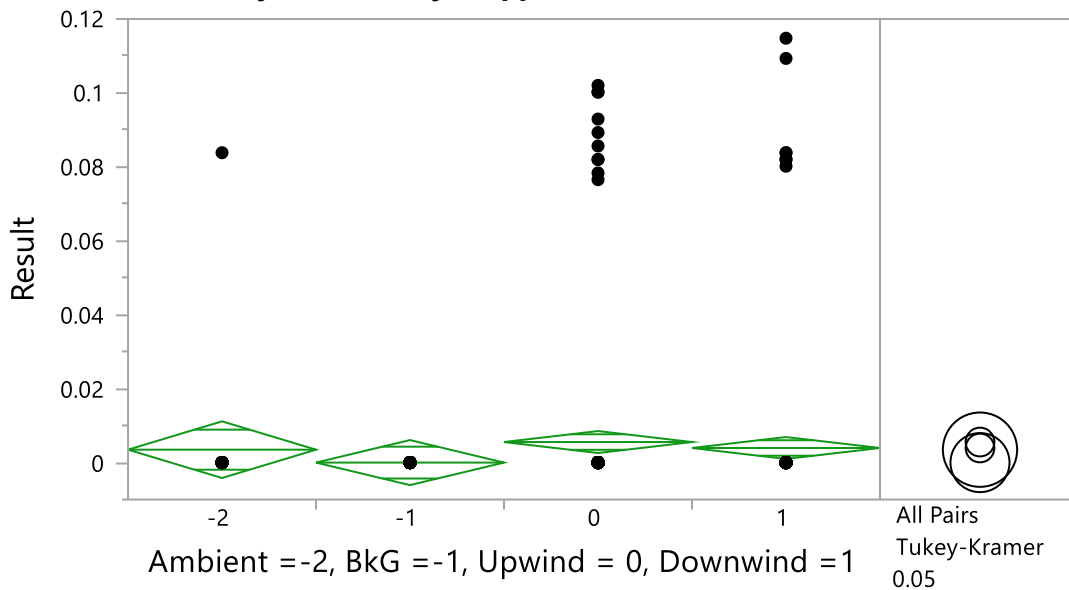
Level		Mean
-2	A	0.00001769
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-1	0.0000303	0.0000191	-0.000019	0.0000796	0.3877
1	-1	0.0000207	0.0000190	-0.000028	0.0000697	0.6987
-2	-1	0.0000177	0.0000267	-0.000051	0.0000865	0.9108
0	-2	0.0000126	0.0000219	-0.000044	0.0000691	0.9392
0	1	0.0000097	0.0000114	-0.000020	0.0000391	0.8323
1	-2	0.0000030	0.0000218	-0.000053	0.0000593	0.9991

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2,5-Dimethyl Benzaldehyde (ppb)



Missing Rows 180

Oneway Anova

Summary of Fit

Rsquare	0.007092
Adj Rsquare	-0.00077
Root Mean Square Error	0.019098
Mean of Response	0.004201
Observations (or Sum Wgts)	383

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00098734	0.000329	0.9024	0.4401
Error	379	0.13822943	0.000365		
C. Total	382	0.13921677			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.003493	0.00390	-0.0042	0.01116
-1	38	0.000000	0.00310	-0.0061	0.00609
0	160	0.005558	0.00151	0.0026	0.00853
1	161	0.003950	0.00151	0.00099	0.00691

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	6.17122	3.923912	1.57272	0.1158	0	0	0
1	-1	4.30982	3.314920	1.30013	0.1936	0	0	0
0	-2	1.94062	4.790560	0.40509	0.6854	0	0	0
1	-2	0.11969	4.129304	0.02899	0.9769	0	0	0
-1	-2	-1.25768	1.026513	-1.22519	0.2205	0	0	0
1	0	-3.03430	4.020673	-0.75467	0.4504	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	4583.00	4608.00	190.958	-0.127
-1	38	6954.00	7296.00	183.000	-1.438
0	160	31195.0	30720.0	194.969	1.211
1	161	30804.0	30912.0	191.329	-0.274

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.7831	3	0.4263

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58050	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	0.00551	0.00389	0.00872	0.00334
1	0.00389	0.00549	0.01033	0.00494
-2	0.00872	0.01033	0.01423	0.00936
-1	0.00334	0.00494	0.00936	0.01131

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00555773
1 A	0.00395000

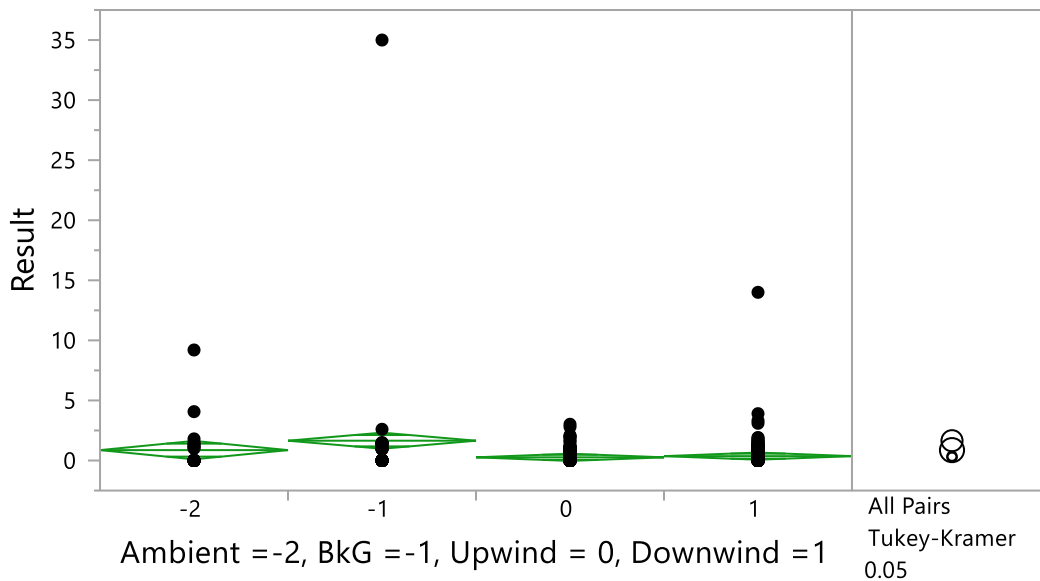
Level		Mean
-2	A	0.00349256
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-1	0.0055577	0.0034464	-0.003336	0.0144511	0.3727
1	-1	0.0039500	0.0034443	-0.004938	0.0128380	0.6607
-2	-1	0.0034926	0.0049794	-0.009357	0.0163420	0.8965
0	-2	0.0020652	0.0041805	-0.008723	0.0128528	0.9604
0	1	0.0016077	0.0021319	-0.003894	0.0071090	0.8749
1	-2	0.0004574	0.0041788	-0.010326	0.0112407	0.9995

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2-Butanone (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.037079
Adj Rsquare	0.029802
Root Mean Square Error	1.985682
Mean of Response	0.4644
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	60.2764	20.0921	5.0957	0.0018*
Error	397	1565.3451	3.9429		
C. Total	400	1625.6214			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.86577	0.38942	0.1002	1.6314
-1	34	1.64909	0.34054	0.9796	2.3186
0	169	0.26600	0.15274	-0.0343	0.5663
1	172	0.36448	0.15141	0.0668	0.6621

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	3.3597	4.113044	0.81685	0.4140	0	0.000000	0.4240743
1	0	0.0821	7.966969	0.01031	0.9918	0	0.000000	0.0000000
1	-2	-14.1903	9.133675	-1.55362	0.1203	0	0.000000	0.0000000
0	-2	-15.1997	9.123058	-1.66608	0.0957	0	0.000000	0.0000000
1	-1	-30.0828	8.820681	-3.41048	0.0006*	0	-0.949383	0.0000000
0	-1	-32.1317	8.802476	-3.65030	0.0003*	0	-0.949383	0.0000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5840.00	5226.00	224.615	1.379
-1	34	8648.50	6834.00	254.368	3.605
0	169	32708.5	33969.0	193.541	-1.412
1	172	33404.0	34572.0	194.209	-1.306

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
15.8086	3	0.0012*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	-2	1	0
-1	-1.2425	-0.5514	0.3231	0.4202
-2	-0.5514	-1.4209	-0.5767	-0.4795
1	0.3231	-0.5767	-0.5524	-0.4564
0	0.4202	-0.4795	-0.4564	-0.5573

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	1.6490884
-2 A B	0.8657713

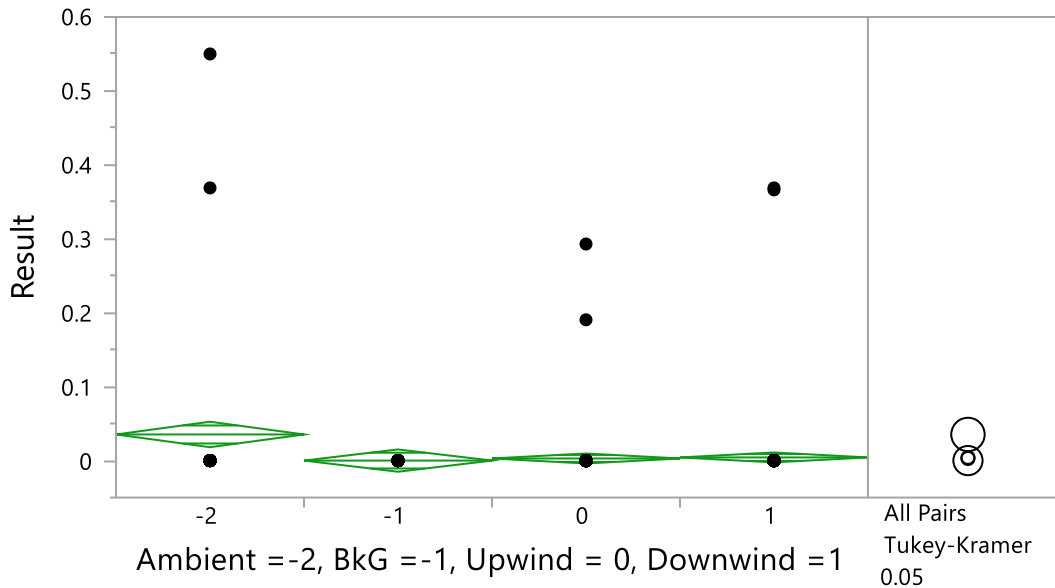
Level		Mean
1	B	0.3644809
0	B	0.2660038

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	0	1.383085	0.3732287	0.420162	2.346007	0.0014*
-1	1	1.284608	0.3726831	0.323092	2.246123	0.0035*
-1	-2	0.783317	0.5173200	-0.551358	2.117992	0.4299
-2	0	0.599768	0.4183089	-0.479461	1.678996	0.4790
-2	1	0.501290	0.4178222	-0.576683	1.579263	0.6273
1	0	0.098477	0.2150698	-0.456399	0.653353	0.9681

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2-Hexanone (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.03125
Adj Rsquare	0.02393
Root Mean Square Error	0.044713
Mean of Response	0.00533
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.02560354	0.008535	4.2689	0.0055*
Error	397	0.79370357	0.001999		
C. Total	400	0.81930712			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.035339	0.00877	0.0181	0.05258
-1	34	0.000000	0.00767	-0.0151	0.01508
0	169	0.002860	0.00344	-0.0039	0.00962
1	172	0.004273	0.00341	-0.0024	0.01098

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	1.18352	1.888974	0.62654	0.5310	0	0	0
1	-1	1.18006	1.900167	0.62103	0.5346	0	0	0
1	0	-0.00587	1.991277	-0.00295	0.9976	0	0	0
-1	-2	-2.27376	1.415013	-1.60688	0.1081	0	0	0
0	-2	-6.41272	2.919104	-2.19681	0.0280*	0	0	0
1	-2	-6.50850	2.938377	-2.21500	0.0268*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5552.50	5226.00	213.558	2.713
-1	34	6732.00	6834.00	198.000	-0.747
0	169	33859.0	33969.0	200.349	-0.454
1	172	34457.5	34572.0	200.334	-0.472

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
7.6662	3	0.0534

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	0	-1
-2	-0.03199	0.00679	0.00818	0.00529
1	0.00679	-0.01244	-0.01108	-0.01738
0	0.00818	-0.01108	-0.01255	-0.01882
-1	0.00529	-0.01738	-0.01882	-0.02798

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.03533927
1 B	0.00427317

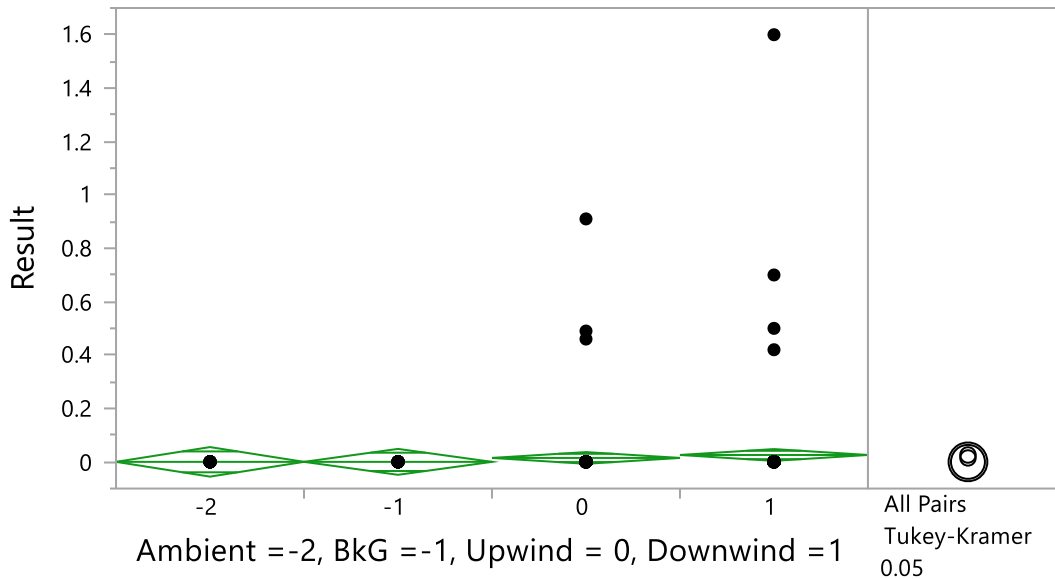
Level		Mean
0	B	0.00285998
-1	B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.0353393	0.0116489	0.005285	0.0653931	0.0137*
-2	0	0.0324793	0.0094194	0.008178	0.0567810	0.0035*
-2	1	0.0310661	0.0094084	0.006793	0.0553396	0.0058*
1	-1	0.0042732	0.0083920	-0.017378	0.0259243	0.9569
0	-1	0.0028600	0.0084043	-0.018823	0.0245428	0.9864
1	0	0.0014132	0.0048429	-0.011081	0.0139077	0.9913

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=2-Methylnaphthalene (ug/m3)



Missing Rows 175

Oneway Anova

Summary of Fit

Rsquare	0.005052
Adj Rsquare	-0.0051
Root Mean Square Error	0.125709
Mean of Response	0.017047
Observations (or Sum Wgts)	298

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0235895	0.007863	0.4976	0.6842
Error	294	4.6460119	0.015803		
C. Total	297	4.6696013			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	20	0.000000	0.02811	-0.0553	0.05532
-1	26	0.000000	0.02465	-0.0485	0.04852
0	127	0.014646	0.01115	-0.0073	0.03660
1	125	0.025760	0.01124	0.0036	0.04789

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	2.392769	2.622390	0.9124385	0.3615	0	0	0
1	-2	2.291000	2.869984	0.7982624	0.4247	0	0	0
0	-1	1.783919	2.290776	0.7787400	0.4361	0	0	0
0	-2	1.707283	2.508784	0.6805223	0.4962	0	0	0
1	0	1.063559	2.614359	0.4068145	0.6841	0	0	0
-1	-2	0.000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	20	2920.00	2990.00	146.000	-0.712
-1	26	3796.00	3887.00	146.000	-0.822
0	127	18988.0	18986.5	149.512	0.005
1	125	18847.0	18687.5	150.776	0.826

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.5009	3	0.6821

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58381	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	0	-2	-1
1	-0.04109	-0.02981	-0.05246	-0.04425
0	-0.02981	-0.04076	-0.06349	-0.05527
-2	-0.05246	-0.06349	-0.10271	-0.09661
-1	-0.04425	-0.05527	-0.09661	-0.09009

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.02576000
0 A	0.01464567

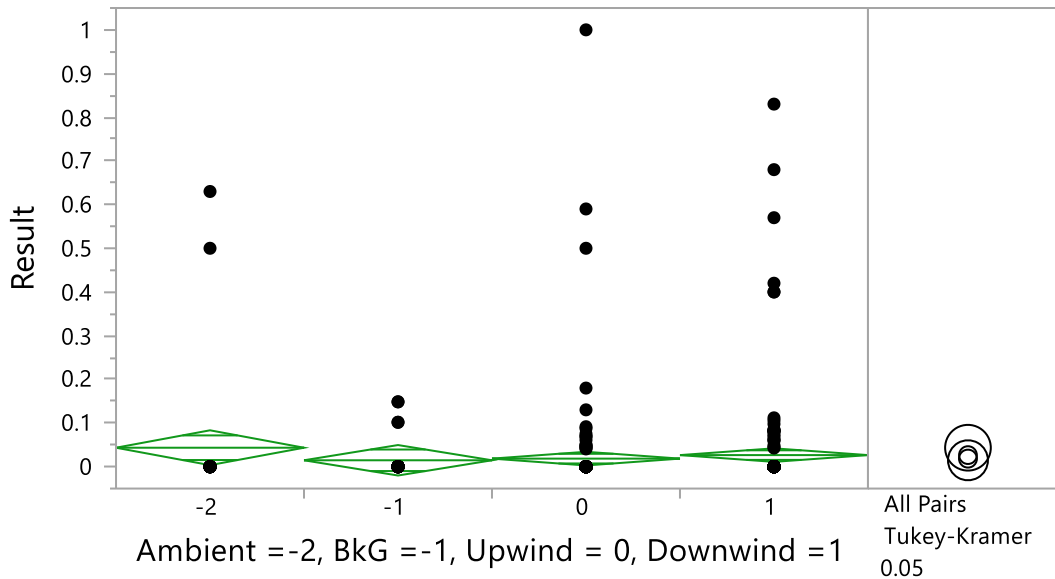
Level	Mean
-2 A	0.00000000
-1 A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0257600	0.0302747	-0.052464	0.1039842	0.8300
1	-1	0.0257600	0.0270965	-0.044252	0.0957723	0.7774
0	-2	0.0146457	0.0302418	-0.063494	0.0927849	0.9625
0	-1	0.0146457	0.0270597	-0.055272	0.0845629	0.9488
1	0	0.0111143	0.0158383	-0.029809	0.0520376	0.8963
-1	-2	0.0000000	0.0373890	-0.096606	0.0966061	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=4-Ethyltoluene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.004408
Adj Rsquare	-0.00312
Root Mean Square Error	0.103405
Mean of Response	0.023267
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0187959	0.006265	0.5859	0.6245
Error	397	4.2449938	0.010693		
C. Total	400	4.2637897			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.043462	0.02028	0.0036	0.08333
-1	34	0.014717	0.01773	-0.0201	0.04958
0	169	0.018511	0.00795	0.0029	0.03415
1	172	0.026577	0.00788	0.0111	0.04208

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	6.04739	5.966424	1.01357	0.3108	0	0	0
1	-2	4.80389	6.957566	0.69046	0.4899	0	0	0
0	-2	1.68639	6.117352	0.27567	0.7828	0	0	0
1	-1	1.00393	6.561259	0.15301	0.8784	0	0	0
-1	-2	0.91629	2.368523	0.38686	0.6989	0	0	0
0	-1	-2.27872	5.835950	-0.39046	0.6962	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5064.50	5226.00	194.788	-0.509
-1	34	6884.00	6834.00	202.471	0.138
0	169	33426.5	33969.0	197.790	-0.855
1	172	35226.0	34572.0	204.802	1.028

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.2898	3	0.7316

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	0	-1
-2	-0.07399	-0.03925	-0.03125	-0.04076
1	-0.03925	-0.02877	-0.02083	-0.03821
0	-0.03125	-0.02083	-0.02902	-0.04635
-1	-0.04076	-0.03821	-0.04635	-0.06470

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.04346154
1 A	0.02657743

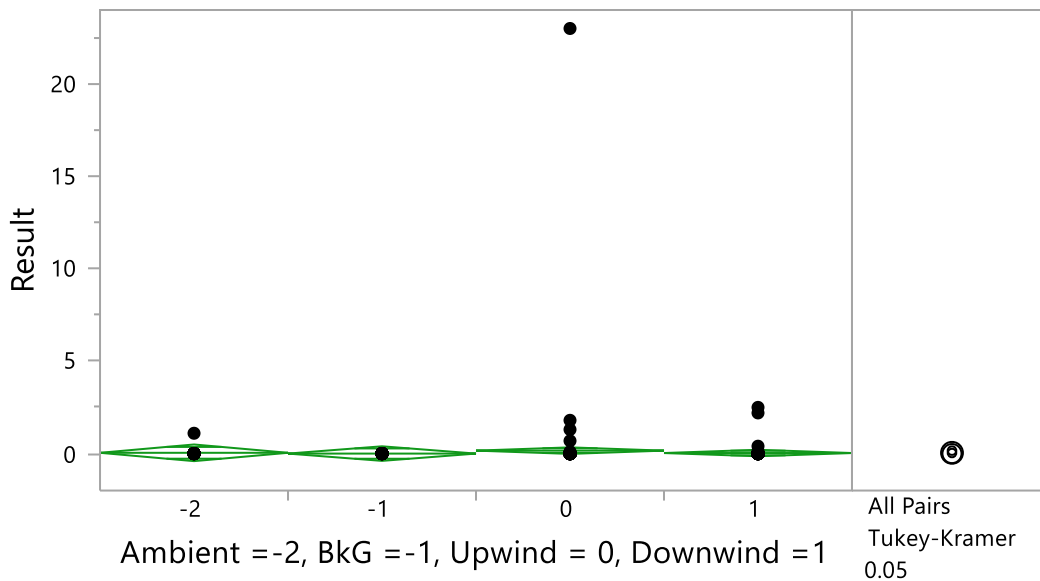
Level		Mean
0	A	0.01851121
-1	A	0.01471738

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.0287442	0.0269397	-0.040760	0.0982481	0.7099
-2	0	0.0249503	0.0217836	-0.031251	0.0811517	0.6616
-2	1	0.0168841	0.0217583	-0.039252	0.0730201	0.8653
1	-1	0.0118601	0.0194077	-0.038211	0.0619314	0.9285
1	0	0.0080662	0.0111999	-0.020829	0.0369617	0.8890
0	-1	0.0037938	0.0194361	-0.046351	0.0539385	0.9974

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=4-Methyl-2-Pentanone (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003223
Adj Rsquare	-0.00431
Root Mean Square Error	1.168837
Mean of Response	0.083213
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	1.75366	0.58455	0.4279	0.7331
Error	397	542.37365	1.36618		
C. Total	400	544.12731			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.042308	0.22923	-0.4083	0.49296
-1	34	0.000000	0.20045	-0.3941	0.39408
0	169	0.159965	0.08991	-0.0168	0.33673
1	172	0.030432	0.08912	-0.1448	0.20564

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	4.18648	3.490361	1.19944	0.2304	0	0	0
1	-1	2.37774	2.674166	0.88915	0.3739	0	0	0
0	-2	0.24408	4.085668	0.05974	0.9524	0	0	0
-1	-2	-1.11991	1.009009	-1.10991	0.2670	0	0	0
1	-2	-1.48323	3.276878	-0.45263	0.6508	0	0	0
1	0	-3.04422	3.268191	-0.93147	0.3516	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5271.00	5226.00	202.731	0.264
-1	34	6630.00	6834.00	195.000	-1.066
0	169	34354.0	33969.0	203.278	1.137
1	172	34346.0	34572.0	199.686	-0.665

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.1157	3	0.5487

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	-2	1	-1
0	-0.32805	-0.51761	-0.19708	-0.40684
-2	-0.51761	-0.83637	-0.62265	-0.74333
1	-0.19708	-0.62265	-0.32518	-0.53555
-1	-0.40684	-0.74333	-0.53555	-0.73138

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.15996514
-2 A	0.04230769

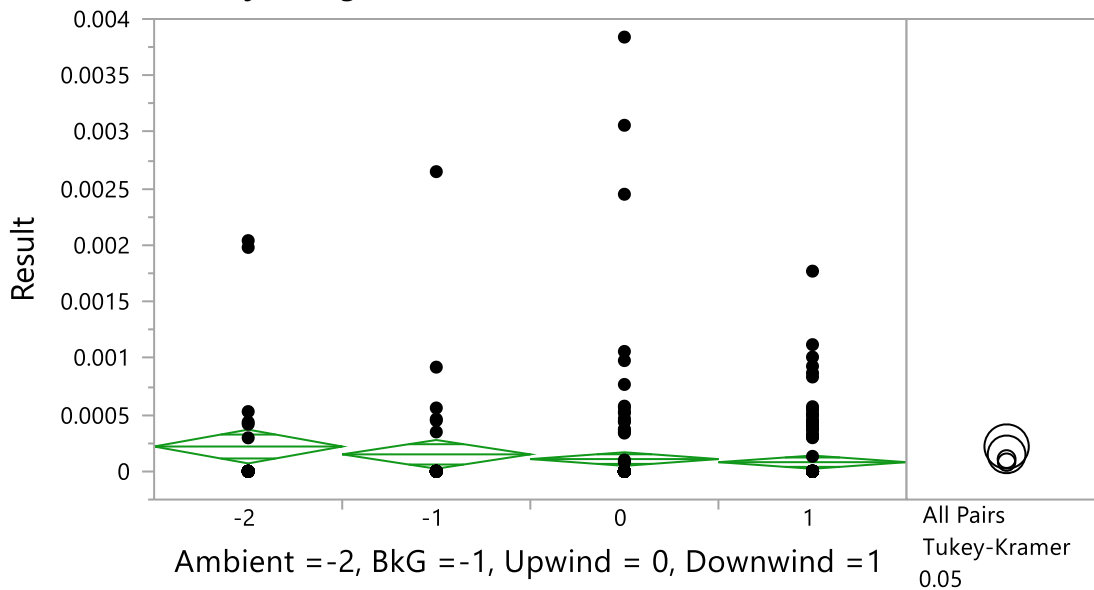
Level		Mean
1	A	0.03043175
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-1	0.1599651	0.2196945	-0.406842	0.7267727	0.8858
0	1	0.1295334	0.1265971	-0.197085	0.4561513	0.7360
0	-2	0.1176575	0.2462302	-0.517612	0.7529265	0.9640
-2	-1	0.0423077	0.3045114	-0.743326	0.8279410	0.9990
1	-1	0.0304317	0.2193734	-0.535547	0.5964108	0.9990
-2	1	0.0118759	0.2459437	-0.622654	0.6464059	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Benzaldehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.008673
Adj Rsquare	0.001008
Root Mean Square Error	0.000388
Mean of Response	0.000107
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000051	1.7007e-7	1.1315	0.3361
Error	388	0.00005832	1.5031e-7		
C. Total	391	0.00005883			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000219	7.6e-5	0.00007	0.00037
-1	36	0.000150	6.46e-5	2.27e-5	0.00028
0	161	0.000108	0.00003	4.79e-5	0.00017
1	169	0.000081	0.00003	2.2e-5	0.00014

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	2.6258	6.207518	0.42300	0.6723	0	0	0
-1	-2	-1.7553	3.202197	-0.54817	0.5836	0	0	0
1	-1	-3.2516	6.694223	-0.48573	0.6272	0	0	0
0	-1	-4.4356	6.182644	-0.71742	0.4731	0	0	0
1	-2	-9.3417	7.464305	-1.25152	0.2107	0	0	0
0	-2	-10.0514	6.881314	-1.46067	0.1441	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5572.50	5109.00	214.327	1.363
-1	36	7275.00	7074.00	202.083	0.509
0	161	31063.0	31636.5	192.938	-0.853
1	169	33117.5	33208.5	195.962	-0.134

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.4144	3	0.4910

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1
-2	0.00028	0.00019	0.00010	0.00007
-1	0.00019	0.00024	0.00014	0.00011
0	0.00010	0.00014	0.00011	0.00008
1	0.00007	0.00011	0.00008	0.00011

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.00021908
-1 A	0.00014969

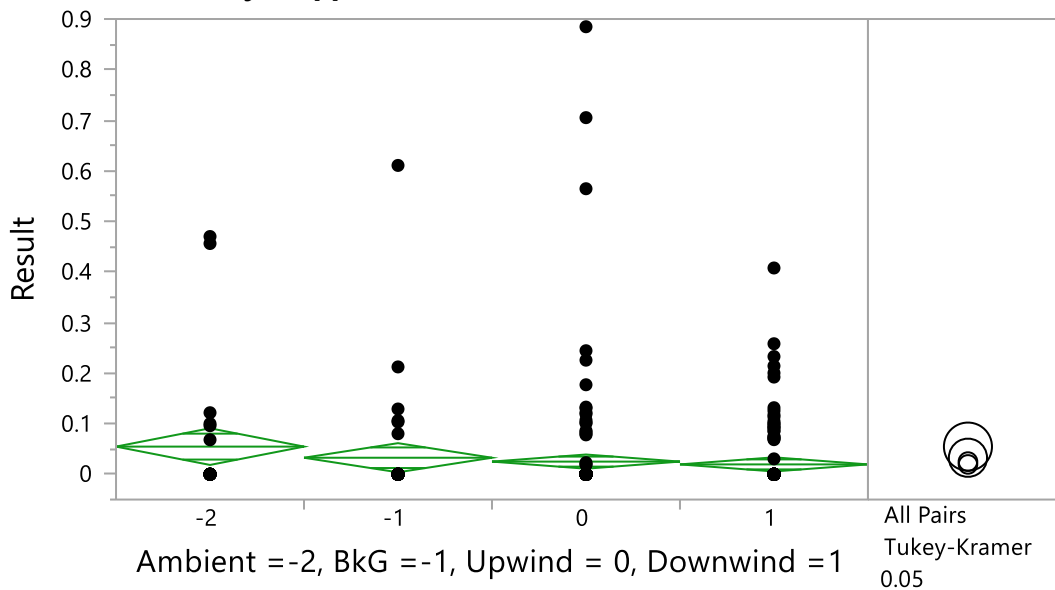
Level		Mean
0	A	0.00010794
1	A	0.00008059

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0001385	0.0000817	-0.000072	0.0003492	0.3273
-2	0	0.0001111	0.0000819	-0.000100	0.0003226	0.5277
-2	-1	0.0000694	0.0000998	-0.000188	0.0003268	0.8988
-1	1	0.0000691	0.0000712	-0.000115	0.0002527	0.7660
-1	0	0.0000418	0.0000715	-0.000143	0.0002262	0.9368
0	1	0.0000274	0.0000427	-0.000083	0.0001375	0.9187

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Benzaldehyde (ppb)



Missing Rows 180

Oneway Anova

Summary of Fit

Rsquare	0.00905
Adj Rsquare	0.001206
Root Mean Square Error	0.090276
Mean of Response	0.025313
Observations (or Sum Wgts)	383

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0282093	0.009403	1.1538	0.3273
Error	379	3.0887795	0.008150		
C. Total	382	3.1169889			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.054667	0.01843	0.01843	0.09090
-1	38	0.032667	0.01464	0.00387	0.06146
0	160	0.025024	0.00714	0.01099	0.03906
1	161	0.019489	0.00711	0.00550	0.03348

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	3.5452	6.193881	0.57237	0.5671	0	0	0
1	-1	-1.5776	6.465707	-0.24399	0.8072	0	0	0
-1	-2	-2.6173	3.244057	-0.80681	0.4198	0	0	0
0	-1	-3.5008	6.069195	-0.57682	0.5641	0	0	0
1	-2	-10.0783	7.519661	-1.34026	0.1802	0	0	0
0	-2	-11.5719	7.061322	-1.63877	0.1013	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	5100.00	4608.00	212.500	1.523
-1	38	7414.00	7296.00	195.105	0.295
0	160	30085.0	30720.0	188.031	-0.966
1	161	30937.0	30912.0	192.155	0.037

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.8037	3	0.4229

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58050	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1	
-2		-0.06725	-0.03874	-0.02135	-0.01580
-1	-0.03874		-0.05344	-0.03440	-0.02884
0	-0.02135	-0.03440		-0.02605	-0.02047
1	-0.01580	-0.02884	-0.02047		-0.02596

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.05466721
-1 A	0.03266705

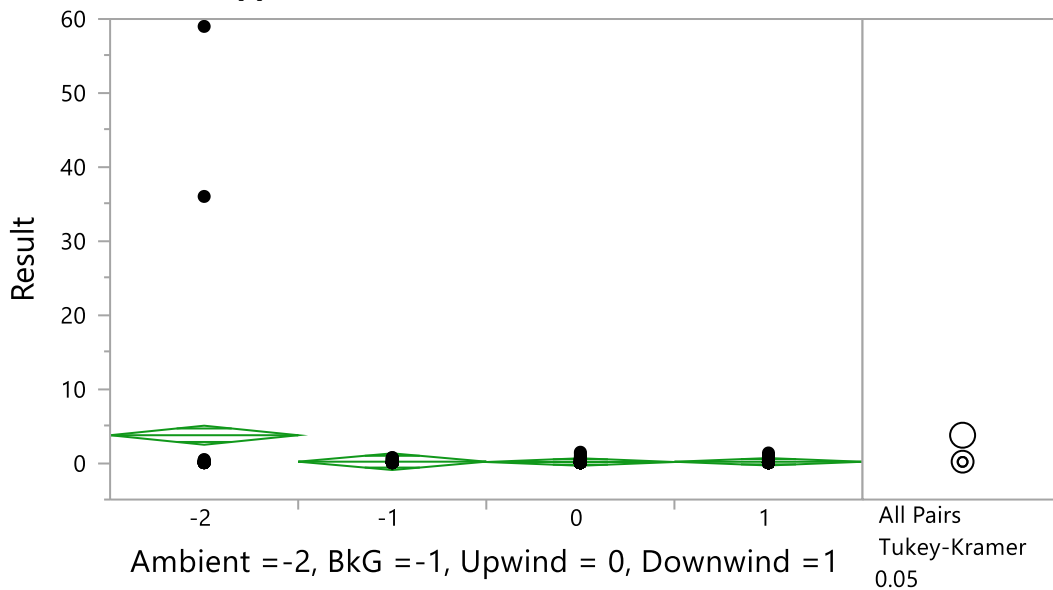
Level		Mean
0	A	0.02502431
1	A	0.01948908

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0351781	0.0197534	-0.015795	0.0861517	0.2841
-2	0	0.0296429	0.0197614	-0.021351	0.0806371	0.4385
-2	-1	0.0220002	0.0235381	-0.038740	0.0827403	0.7862
-1	1	0.0131780	0.0162815	-0.028837	0.0551925	0.8500
-1	0	0.0076427	0.0162913	-0.034397	0.0496823	0.9658
0	1	0.0055352	0.0100775	-0.020470	0.0315402	0.9467

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Benzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.06645
Adj Rsquare	0.059396
Root Mean Square Error	3.343575
Mean of Response	0.330865
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	315.9167	105.306	9.4195	<.0001*
Error	397	4438.2578	11.179		
C. Total	400	4754.1744			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	3.70113	0.65573	2.412	4.9903
-1	34	0.12343	0.57342	-1.004	1.2508
0	169	0.07818	0.25720	-0.427	0.5838
1	172	0.11069	0.25495	-0.391	0.6119

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	10.9921	8.074772	1.36128	0.1734	0	0	0
-1	-2	1.0520	3.616866	0.29087	0.7712	0	0	0
1	-2	0.3763	9.458055	0.03979	0.9683	0	0	0
1	-1	-3.2760	8.820842	-0.37139	0.7103	0	0	0
0	-2	-5.7470	8.701324	-0.66048	0.5089	0	0	0
0	-1	-9.6801	8.160181	-1.18626	0.2355	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5331.00	5226.00	205.038	0.240
-1	34	7218.00	6834.00	212.294	0.778
0	169	32627.0	33969.0	193.059	-1.535
1	172	35425.0	34572.0	205.959	0.973

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.5162	3	0.4724

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	1	0
-2	-2.3925	1.3303	1.7753	1.8057
-1	1.3303	-2.0922	-1.6063	-1.5762
1	1.7753	-1.6063	-0.9302	-0.9018
0	1.8057	-1.5762	-0.9018	-0.9384

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	3.7011251
-1 B	0.1234350

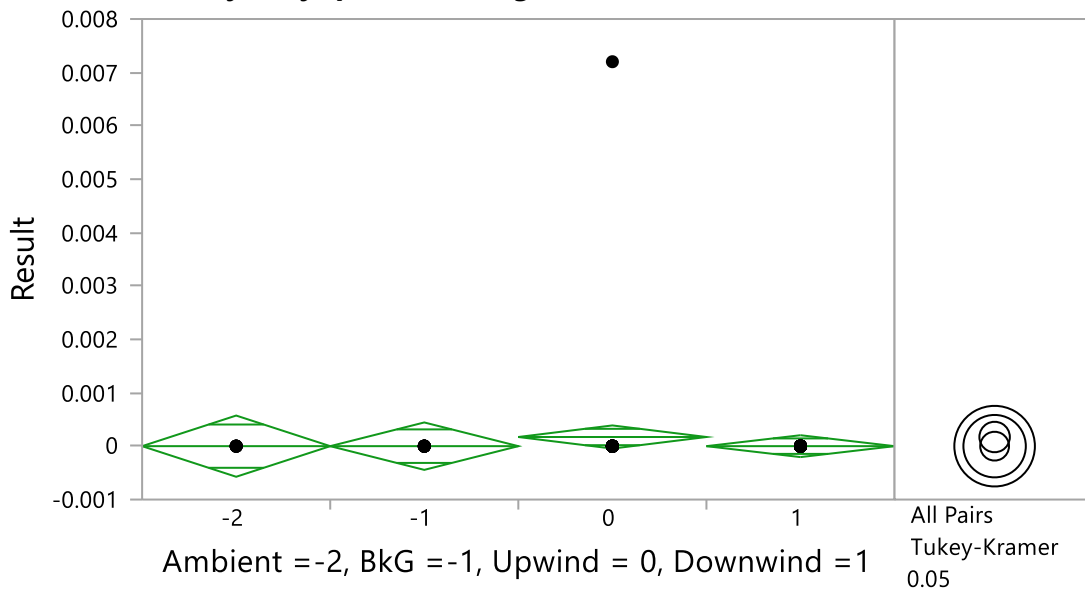
Level		Mean
1	B	0.1106916
0	B	0.0781774

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	3.622948	0.7043658	1.80570	5.440198	<.0001*
-2	1	3.590434	0.7035463	1.77530	5.405569	<.0001*
-2	-1	3.577690	0.8710849	1.33031	5.825072	0.0003*
-1	0	0.045258	0.6284579	-1.57615	1.666667	0.9999
1	0	0.032514	0.3621434	-0.90181	0.966837	0.9997
-1	1	0.012743	0.6275393	-1.60630	1.631782	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Bis(2-Ethylhexyl)phthalate (mg/m3)



Missing Rows 11

Oneway Anova

Summary of Fit

Rsquare	0.014423
Adj Rsquare	-0.01485
Root Mean Square Error	0.000708
Mean of Response	6.857e-5
Observations (or Sum Wgts)	105

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000074	2.4686e-7	0.4927	0.6882
Error	101	0.00005061	5.0105e-7		
C. Total	104	0.00005135			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	6	0.000000	0.00029	-0.0006	0.00057
-1	10	0.000000	0.00022	-0.0004	0.00044
0	42	0.000171	0.00011	-4.5e-5	0.00039
1	47	0.000000	0.00010	-0.0002	0.00020

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	0.55714	1.268670	0.43916	0.6605	0	0	0
0	-2	0.47619	1.511858	0.31497	0.7528	0	0	0
-1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	-1	0.00000	0.000000	0.00000	1.0000	0	0	0
1	0	-1.03698	1.001582	-1.03534	0.3005	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	6	315.000	318.000	52.5000	-0.205
-1	10	525.000	530.000	52.5000	-0.292
0	42	2257.50	2226.00	53.7500	1.205
1	47	2467.50	2491.00	52.5000	-0.881

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.5000	3	0.6823

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.61233	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	-2	-1	1
0	-0.00040	-0.00064	-0.00048	-0.00022
-2	-0.00064	-0.00107	-0.00095	-0.00080
-1	-0.00048	-0.00095	-0.00083	-0.00064
1	-0.00022	-0.00080	-0.00064	-0.00038

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00017143
-2 A	0.00000000

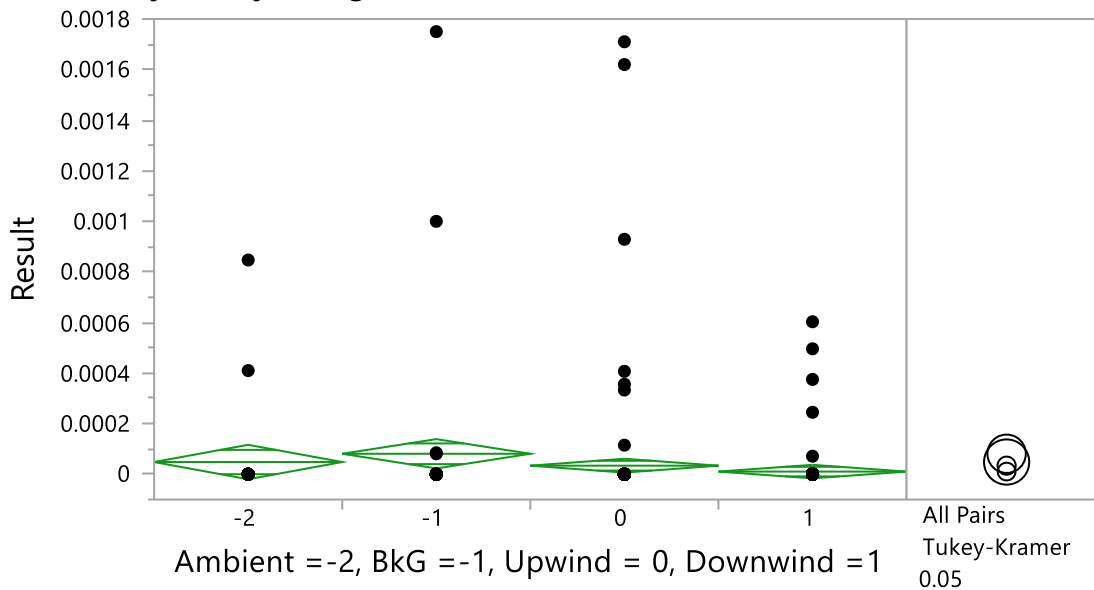
Level		Mean
-1	A	0.00000000
1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0001714	0.0003089	-0.000636	0.0009785	0.9450
0	-1	0.0001714	0.0002491	-0.000479	0.0008221	0.9014
0	1	0.0001714	0.0001503	-0.000221	0.0005641	0.6654
-1	-2	0.0000000	0.0003655	-0.000955	0.0009549	1.0000
1	-2	0.0000000	0.0003069	-0.000802	0.0008016	1.0000
1	-1	0.0000000	0.0002465	-0.000644	0.0006440	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Butyraldehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.013714
Adj Rsquare	0.006088
Root Mean Square Error	0.000177
Mean of Response	2.917e-5
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000017	5.6097e-8	1.7983	0.1470
Error	388	0.00001210	3.1194e-8		
C. Total	391	0.00001227			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000048	3.46e-5	-2e-5	0.00012
-1	36	0.000081	0.00003	2.31e-5	0.00014
0	161	0.000034	1.39e-5	6.61e-6	6.13e-5
1	169	0.000011	1.36e-5	-1.6e-5	3.73e-5

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	1.02671	2.382083	0.43101	0.6665	0	0	0
1	0	-2.35290	3.407474	-0.69051	0.4899	0	0	0
0	-2	-3.14943	4.242879	-0.74229	0.4579	0	0	0
1	-2	-4.72633	3.831743	-1.23347	0.2174	0	0	0
0	-1	-6.57686	4.182479	-1.57248	0.1158	0	0	0
1	-1	-8.40689	3.865517	-2.17484	0.0296*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5271.00	5109.00	202.731	0.798
-1	36	7534.00	7074.00	209.278	1.956
0	161	31566.0	31636.5	196.062	-0.175
1	169	32657.0	33208.5	193.237	-1.368

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.1629	3	0.1603

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	-2	0	1
-1	0.00011	0.00008	0.00004	0.00001
-2	0.00008	0.00013	0.00008	0.00006
0	0.00004	0.00008	0.00005	0.00003
1	0.00001	0.00006	0.00003	0.00005

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.00008100
-2 A	0.00004835

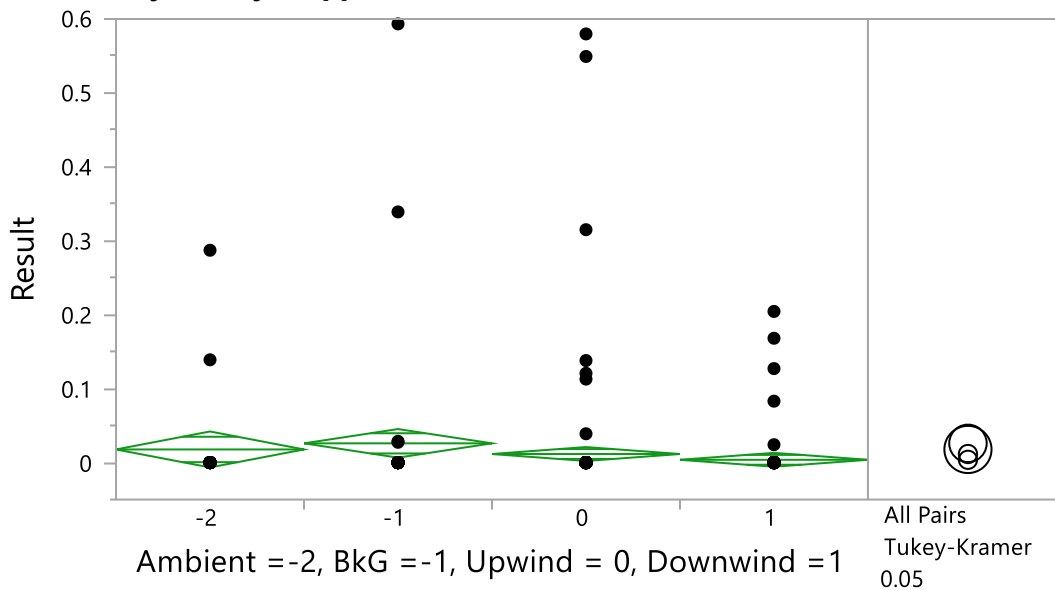
Level		Mean
0	A	0.00003398
1	A	0.00001059

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	1	0.0000704	0.0000324	-0.000013	0.0001541	0.1330
-1	0	0.0000470	0.0000326	-0.000037	0.0001310	0.4726
-2	1	0.0000378	0.0000372	-0.000058	0.0001338	0.7410
-1	-2	0.0000327	0.0000455	-0.000085	0.0001499	0.8898
0	1	0.0000234	0.0000195	-0.000027	0.0000736	0.6259
-2	0	0.0000144	0.0000373	-0.000082	0.0001107	0.9806

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Butyraldehyde (ppb)



Missing Rows 180

Oneway Anova

Summary of Fit

Rsquare	0.012655
Adj Rsquare	0.004839
Root Mean Square Error	0.060608
Mean of Response	0.010122
Observations (or Sum Wgts)	383

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0178434	0.005948	1.6192	0.1844
Error	379	1.3921949	0.003673		
C. Total	382	1.4100384			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.017759	0.01237	-0.0066	0.04208
-1	38	0.026019	0.00983	0.0067	0.04535
0	160	0.011592	0.00479	0.0022	0.02101
1	161	0.003771	0.00478	-0.0056	0.01316

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	0.64583	2.413223	0.26762	0.7890	0	0	0
1	0	-2.09971	3.404876	-0.61668	0.5374	0	0	0
0	-2	-3.66563	4.357292	-0.84126	0.4002	0	0	0
1	-2	-4.95536	3.873279	-1.27937	0.2008	0	0	0
0	-1	-6.00839	4.104894	-1.46371	0.1433	0	0	0
1	-1	-7.43241	3.739701	-1.98743	0.0469*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	4779.00	4608.00	199.125	0.885
-1	38	7720.00	7296.00	203.158	1.783
0	160	30627.0	30720.0	191.419	-0.236
1	161	30410.0	30912.0	188.882	-1.279

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
4.5924	3	0.2042

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58050	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	-2	0	1
-1	0.03588	0.03252	0.01380	0.00596
-2	0.03252	0.04515	0.02807	0.02023
0	0.01380	0.02807	0.01749	0.00964
1	0.00596	0.02023	0.00964	0.01743

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.02601899
-2 A	0.01775928

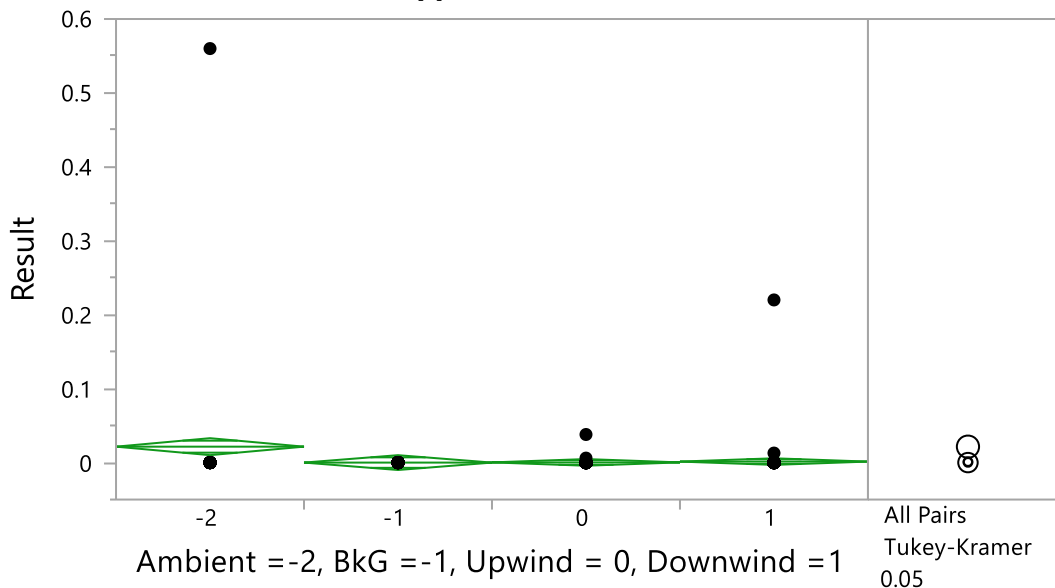
Level		Mean
0	A	0.01159228
1	A	0.00377073

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	1	0.0222483	0.0109308	-0.005959	0.0504552	0.1769
-1	0	0.0144267	0.0109373	-0.013797	0.0426505	0.5513
-2	1	0.0139886	0.0132617	-0.020233	0.0482102	0.7172
-1	-2	0.0082597	0.0158026	-0.032519	0.0490383	0.9536
0	1	0.0078215	0.0067657	-0.009637	0.0252803	0.6549
-2	0	0.0061670	0.0132670	-0.028069	0.0404026	0.9667

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=C-1,2-Dichloroethene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.029405
Adj Rsquare	0.02207
Root Mean Square Error	0.029745
Mean of Response	0.002087
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.01064158	0.003547	4.0091	0.0079*
Error	397	0.35125782	0.000885		
C. Total	400	0.36189940			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.021538	0.00583	0.0101	0.03301
-1	34	0.000000	0.00510	-0.0100	0.01003
0	169	0.000261	0.00229	-0.0042	0.00476
1	172	0.001354	0.00227	-0.0031	0.00581

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	1.18352	1.888974	0.62654	0.5310	0	0	0
1	-1	1.18006	1.900167	0.62103	0.5346	0	0	0
1	0	-0.01760	1.991277	-0.00884	0.9929	0	0	0
-1	-2	-1.11991	1.009009	-1.10991	0.2670	0	0	0
0	-2	-2.61834	2.534547	-1.03306	0.3016	0	0	0
1	-2	-2.67867	2.551198	-1.04996	0.2937	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5363.50	5226.00	206.288	1.247
-1	34	6749.00	6834.00	198.500	-0.680
0	169	33945.5	33969.0	200.861	-0.104
1	172	34543.0	34572.0	200.831	-0.129

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9099	3	0.5913

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	0	-1
-2	-0.02128	0.00404	0.00511	0.00155
1	0.00404	-0.00828	-0.00722	-0.01305
0	0.00511	-0.00722	-0.00835	-0.01416
-1	0.00155	-0.01305	-0.01416	-0.01861

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.02153846
1 B	0.00135386

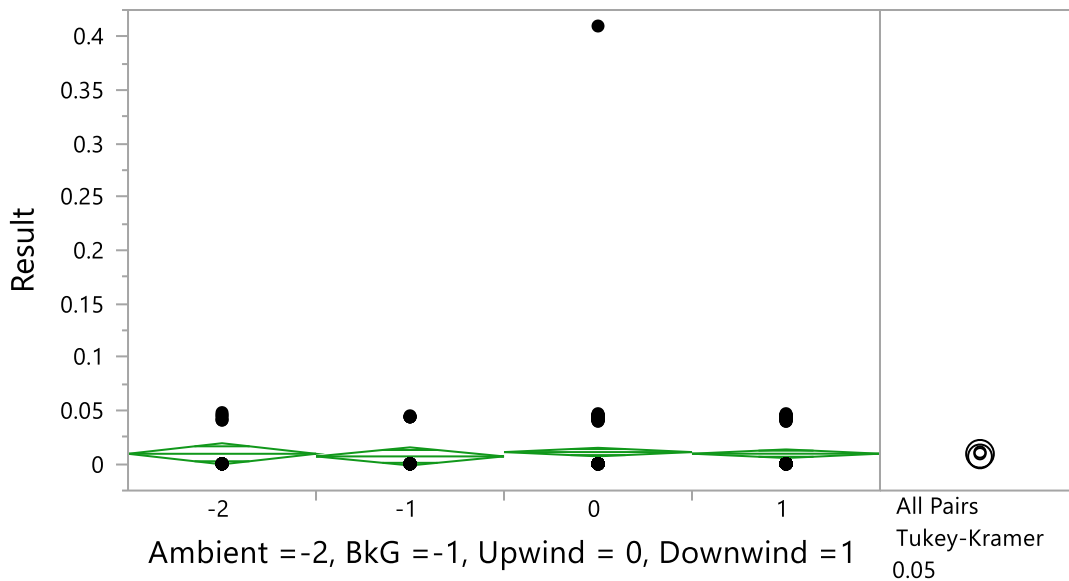
Level		Mean
0	B	0.00026067
-1	B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.0215385	0.0077494	0.001545	0.0415317	0.0290*
-2	0	0.0212778	0.0062662	0.005111	0.0374445	0.0042*
-2	1	0.0201846	0.0062589	0.004037	0.0363325	0.0074*
1	-1	0.0013539	0.0055827	-0.013050	0.0157572	0.9950
1	0	0.0010932	0.0032217	-0.007219	0.0094052	0.9865
0	-1	0.0002607	0.0055909	-0.014164	0.0146851	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Carbon Dioxide (% v/v)



Missing Rows 183

Oneway Anova

Summary of Fit

Rsquare	0.002018
Adj Rsquare	-0.00543
Root Mean Square Error	0.02663
Mean of Response	0.009904
Observations (or Sum Wgts)	406

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00057632	0.000192	0.2709	0.8464
Error	402	0.28507893	0.000709		
C. Total	405	0.28565525			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	28	0.009429	0.00503	-0.0005	0.01932
-1	38	0.006974	0.00432	-0.0015	0.01547
0	171	0.011029	0.00204	0.0070	0.01503
1	169	0.009503	0.00205	0.0055	0.01353

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	5.39902	7.622108	0.708337	0.4787	0	0	0
0	-1	4.08480	7.516495	0.543444	0.5868	0	0	0
1	0	2.19419	7.614075	0.288176	0.7732	0	0	0
1	-2	-0.04163	8.405232	-0.004953	0.9960	0	0	0
0	-2	-1.30921	8.296132	-0.157810	0.8746	0	0	0
-1	-2	-1.79887	3.213944	-0.559709	0.5757	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	28	5761.00	5698.00	205.750	0.147
-1	38	7408.00	7733.00	194.947	-0.666
0	171	34707.0	34798.5	202.965	-0.110
1	169	34745.0	34391.5	205.592	0.428

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.5379	3	0.9105

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57984	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0		-0.00743	-0.00593	-0.01241
1			-0.00747	-0.01394
-2				-0.01836
-1				

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0	A
1	A

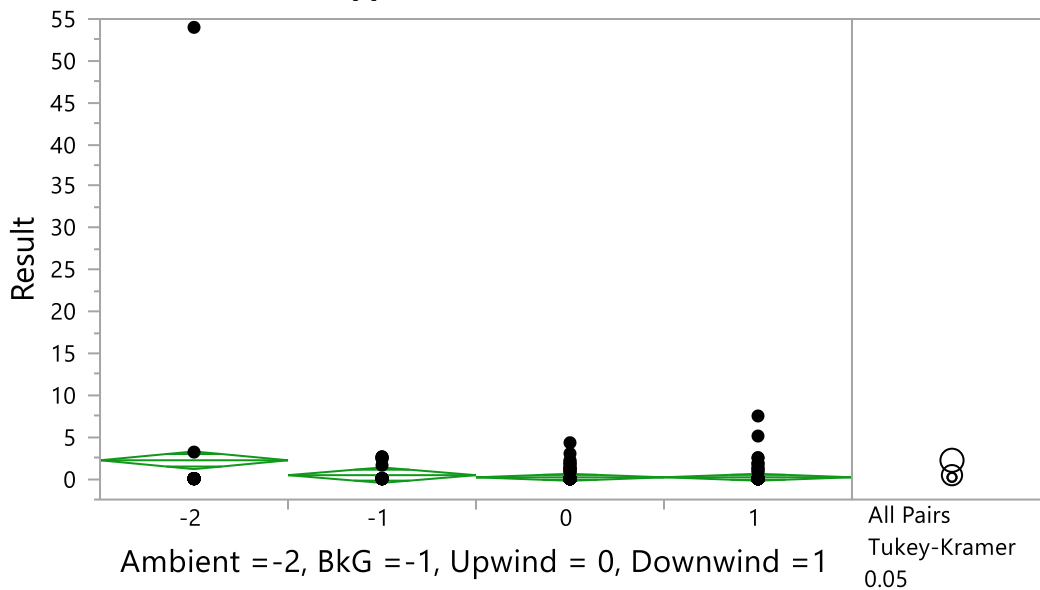
Level		Mean
-2	A	0.00942857
-1	A	0.00697368

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-1	0.0040556	0.0047759	-0.008265	0.0163766	0.8308
1	-1	0.0025293	0.0047810	-0.009805	0.0148635	0.9520
-2	-1	0.0024549	0.0066324	-0.014656	0.0195654	0.9827
0	-2	0.0016007	0.0054290	-0.012405	0.0156066	0.9911
0	1	0.0015263	0.0028885	-0.005926	0.0089781	0.9522
1	-2	0.0000744	0.0054335	-0.013943	0.0140920	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Carbon Disulfide (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.032562
Adj Rsquare	0.025252
Root Mean Square Error	2.743291
Mean of Response	0.316504
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	100.5604	33.5201	4.4541	0.0043*
Error	397	2987.6818	7.5256		
C. Total	400	3088.2422			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	2.19921	0.53800	1.142	3.2569
-1	34	0.41765	0.47047	-0.507	1.3426
0	169	0.15916	0.21102	-0.256	0.5740
1	172	0.16651	0.20917	-0.245	0.5777

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	2.5452	2.687732	0.94699	0.3436	0	0	0
0	-2	1.5754	6.117361	0.25754	0.7968	0	0	0
1	-2	-0.0664	5.698473	-0.01165	0.9907	0	0	0
1	0	-3.1850	5.324695	-0.59816	0.5497	0	0	0
0	-1	-8.8852	6.076424	-1.46225	0.1437	0	0	0
1	-1	-10.5149	5.747483	-1.82948	0.0673	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5154.00	5226.00	198.231	-0.243
-1	34	7423.00	6834.00	218.324	1.770
0	169	34025.0	33969.0	201.331	0.094
1	172	33999.0	34572.0	197.669	-0.969

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.4727	3	0.3243

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	1	0
-2	-1.9630	-0.0623	0.5434	0.5491
-1	-0.0623	-1.7166	-1.0772	-1.0718
1	0.5434	-1.0772	-0.7632	-0.7592
0	0.5491	-1.0718	-0.7592	-0.7699

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	2.1992114
-1 A B	0.4176471

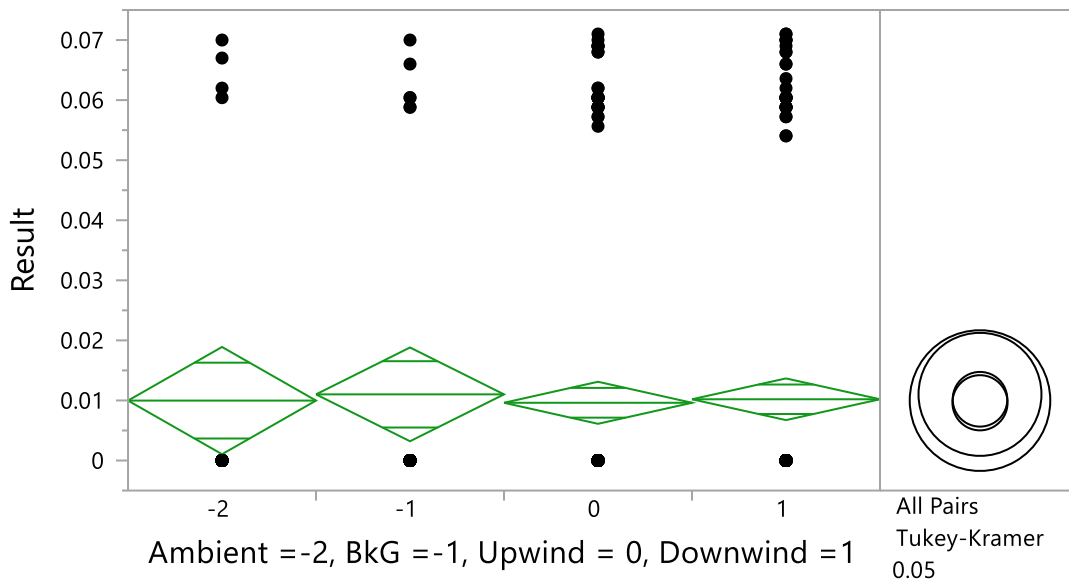
Level		Mean
1	B	0.1665128
0	B	0.1591629

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	2.040048	0.5779087	0.54906	3.531041	0.0026*
-2	1	2.032699	0.5772363	0.54344	3.521957	0.0027*
-2	-1	1.781564	0.7146961	-0.06234	3.625466	0.0626
-1	0	0.258484	0.5156288	-1.07183	1.588796	0.9587
-1	1	0.251134	0.5148750	-1.07723	1.579502	0.9618
1	0	0.007350	0.2971266	-0.75923	0.773931	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Carbon Tetrachloride (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.000315
Adj Rsquare	-0.00724
Root Mean Square Error	0.023153
Mean of Response	0.010006
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00006709	0.000022	0.0417	0.9886
Error	397	0.21281299	0.000536		
C. Total	400	0.21288009			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.009977	0.00454	0.00105	0.01890
-1	34	0.011013	0.00397	0.00321	0.01882
0	169	0.009612	0.00178	0.00611	0.01311
1	172	0.010198	0.00177	0.00673	0.01367

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	1.60130	6.784168	0.236034	0.8134	0	0	0
-1	-2	0.27149	2.952866	0.091942	0.9267	0	0	0
1	-2	0.08855	7.726315	0.011461	0.9909	0	0	0
0	-2	-0.84320	7.463102	-0.112982	0.9100	0	0	0
1	-1	-1.30335	7.231658	-0.180229	0.8570	0	0	0
0	-1	-2.26105	7.001842	-0.322922	0.7468	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5238.50	5226.00	201.481	0.033
-1	34	6940.50	6834.00	204.132	0.257
0	169	33748.0	33969.0	199.692	-0.302
1	172	34674.0	34572.0	201.593	0.139

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.1262	3	0.9885

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	1	-2	0
-1	-0.01449	-0.01040	-0.01453	-0.00983
1	-0.01040	-0.00644	-0.01235	-0.00588
-2	-0.01453	-0.01235	-0.01657	-0.01222
0	-0.00983	-0.00588	-0.01222	-0.00650

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.01101305
1 A	0.01019795

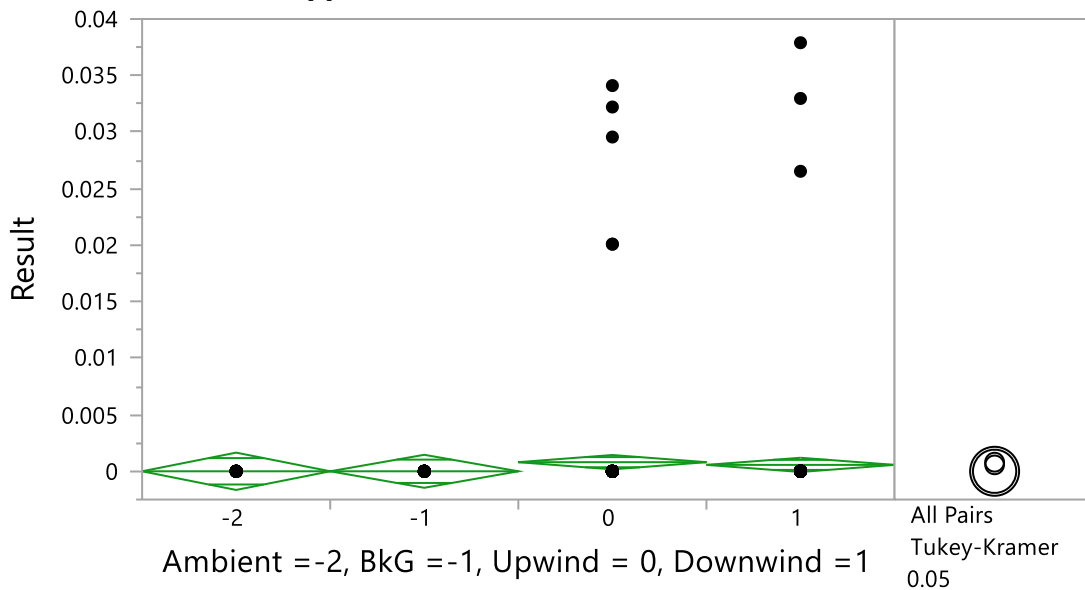
Level		Mean
-2	A	0.00997696
0	A	0.00961187

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	0	0.0014012	0.0043518	-0.009826	0.0126287	0.9884
-1	-2	0.0010361	0.0060319	-0.014526	0.0165982	0.9982
-1	1	0.0008151	0.0043454	-0.010396	0.0120262	0.9977
1	0	0.0005861	0.0025077	-0.005884	0.0070559	0.9955
-2	0	0.0003651	0.0048774	-0.012219	0.0129488	0.9998
1	-2	0.0002210	0.0048718	-0.012348	0.0127900	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Chloroethane (ppb v/v)



Missing Rows 191

Oneway Anova

Summary of Fit

Rsquare	0.00398
Adj Rsquare	-0.0036
Root Mean Square Error	0.004199
Mean of Response	0.000587
Observations (or Sum Wgts)	398

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00002775	9.251e-6	0.5248	0.6655
Error	394	0.00694536	0.000018		
C. Total	397	0.00697311			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	25	0.000000	0.00084	-0.0017	0.00165
-1	32	0.000000	0.00074	-0.0015	0.00146
0	169	0.000805	0.00032	0.00017	0.00144
1	172	0.000566	0.00032	-0.0001	0.00120

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	2.95479	3.025434	0.976650	0.3287	0	0	0
0	-2	2.84686	3.302483	0.862037	0.3887	0	0	0
1	-1	1.76054	2.369658	0.742950	0.4575	0	0	0
1	-2	1.69512	2.588515	0.654861	0.5126	0	0	0
-1	-2	0.00000	0.000000	0.000000	1.0000	0	0	0
1	0	-2.02362	2.799524	-0.722843	0.4698	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	25	4887.50	4987.50	195.500	-0.735
-1	32	6256.00	6384.00	195.500	-0.840
0	169	34031.0	33715.5	201.367	1.142
1	172	34226.5	34314.0	198.991	-0.315

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9762	3	0.5774

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58006	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	-0.00118	-0.00093	-0.00152	-0.00128
1	-0.00093	-0.00117	-0.00175	-0.00152
-2	-0.00152	-0.00175	-0.00306	-0.00289
-1	-0.00128	-0.00152	-0.00289	-0.00271

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00080512
1 A	0.00056631

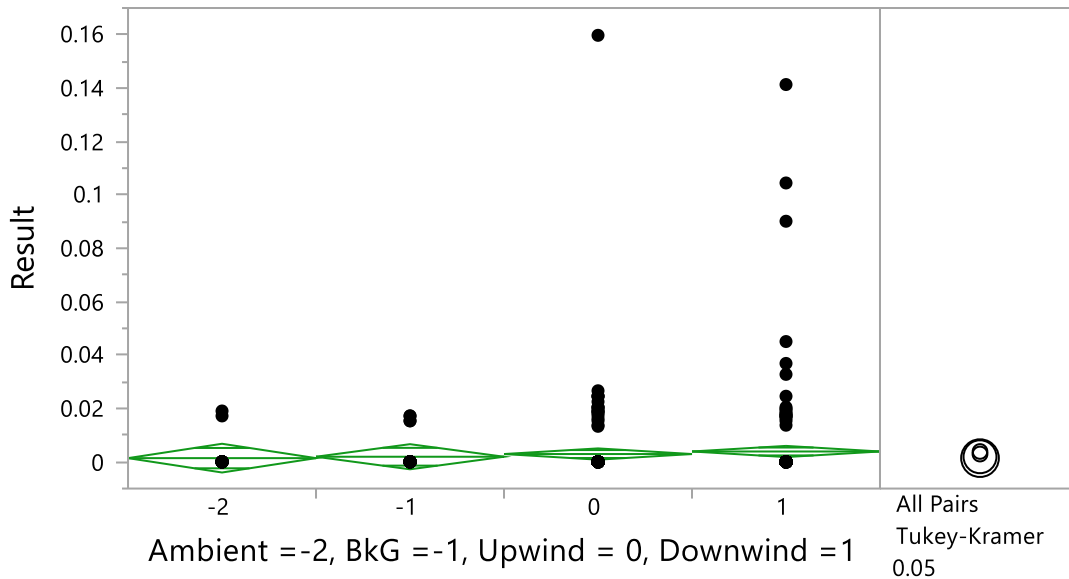
Level		Mean
-2	A	0.00000000
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0008051	0.0008997	-0.001516	0.0031263	0.8075
0	-1	0.0008051	0.0008094	-0.001283	0.0028935	0.7525
1	-2	0.0005663	0.0008987	-0.001752	0.0028849	0.9223
1	-1	0.0005663	0.0008083	-0.001519	0.0026518	0.8968
0	1	0.0002388	0.0004547	-0.000934	0.0014121	0.9530
-1	-2	0.0000000	0.0011207	-0.002891	0.0028915	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Chloroform (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003001
Adj Rsquare	-0.00453
Root Mean Square Error	0.013962
Mean of Response	0.003154
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00023296	0.000078	0.3984	0.7542
Error	397	0.07738472	0.000195		
C. Total	400	0.07761768			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.001394	0.00274	-0.0040	0.00678
-1	34	0.001916	0.00239	-0.0028	0.00662
0	169	0.002929	0.00107	0.00082	0.00504
1	172	0.003885	0.00106	0.0018	0.00598

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	3.12870	6.259629	0.499822	0.6172	0	0	0
1	-2	2.96646	6.305041	0.470490	0.6380	0	0	0
-1	-2	0.98416	2.368159	0.415581	0.6777	0	0	0
1	0	-0.15250	5.694758	-0.026780	0.9786	0	0	0
0	-1	-0.30030	5.958017	-0.050402	0.9598	0	0	0
1	-1	-0.47555	5.997701	-0.079288	0.9368	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5072.50	5226.00	195.096	-0.504
-1	34	6872.00	6834.00	202.118	0.109
0	169	34044.5	33969.0	201.447	0.123
1	172	34612.0	34572.0	201.233	0.065

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2614	3	0.9671

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	0	-1	-2
1		-0.00388	-0.00295	-0.00479
0			-0.00392	-0.00576
-1				-0.00874
-2				

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00388454
0 A	0.00292937

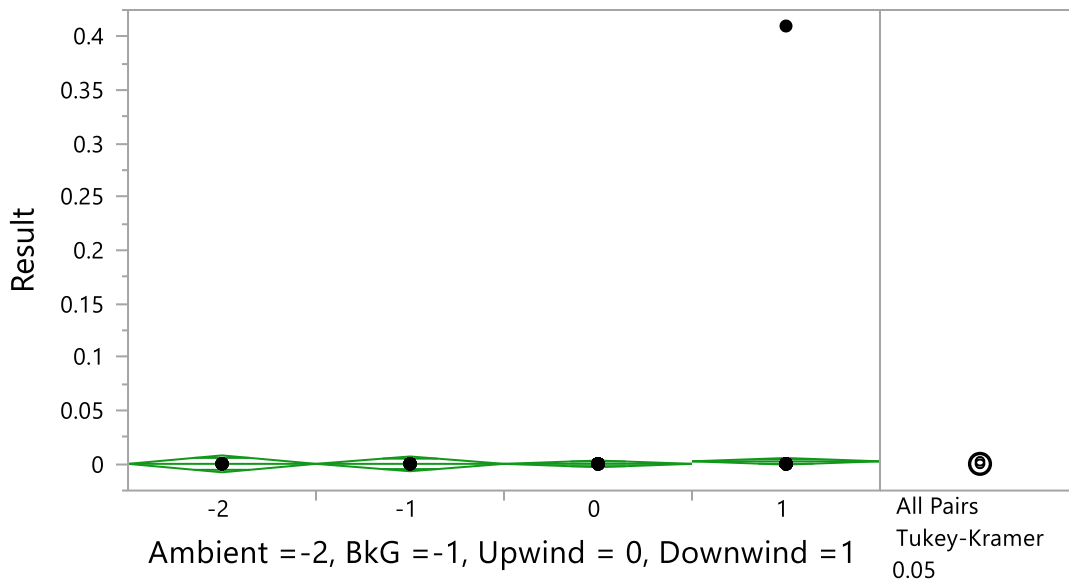
Level	Mean
-1 A	0.00191572
-2 A	0.00139439

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0024901	0.0029377	-0.005089	0.0100695	0.8316
1	-1	0.0019688	0.0026204	-0.004792	0.0087293	0.8761
0	-2	0.0015350	0.0029412	-0.006053	0.0091231	0.9538
0	-1	0.0010136	0.0026242	-0.005757	0.0077840	0.9804
1	0	0.0009552	0.0015122	-0.002946	0.0048566	0.9218
-1	-2	0.0005213	0.0036373	-0.008863	0.0099056	0.9989

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Dibromochloromethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003328
Adj Rsquare	-0.0042
Root Mean Square Error	0.020517
Mean of Response	0.001022
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00055812	0.000186	0.4419	0.7231
Error	397	0.16712267	0.000421		
C. Total	400	0.16768080			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00402	-0.0079	0.00791
-1	34	0.000000	0.00352	-0.0069	0.00692
0	169	0.000000	0.00158	-0.0031	0.00310
1	172	0.002384	0.00156	-0.0007	0.00546

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	0.9854135	1.000039	0.9853754	0.3244	0	0	0
1	-1	0.5812244	1.346894	0.4315293	0.6661	0	0	0
1	-2	0.5534436	1.480418	0.3738429	0.7085	0	0	0
-1	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-1	0.0000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	33884.5	33969.0	200.500	-0.848
1	172	34686.5	34572.0	201.666	1.149

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3314	3	0.7217

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	-1	0
1		-0.00571	-0.00875	-0.00755
-2	-0.00571		-0.01379	-0.01115
-1	-0.00755	-0.01379		-0.00995
0	-0.00335	-0.01115	-0.00995	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00238372
-2 A	0.00000000

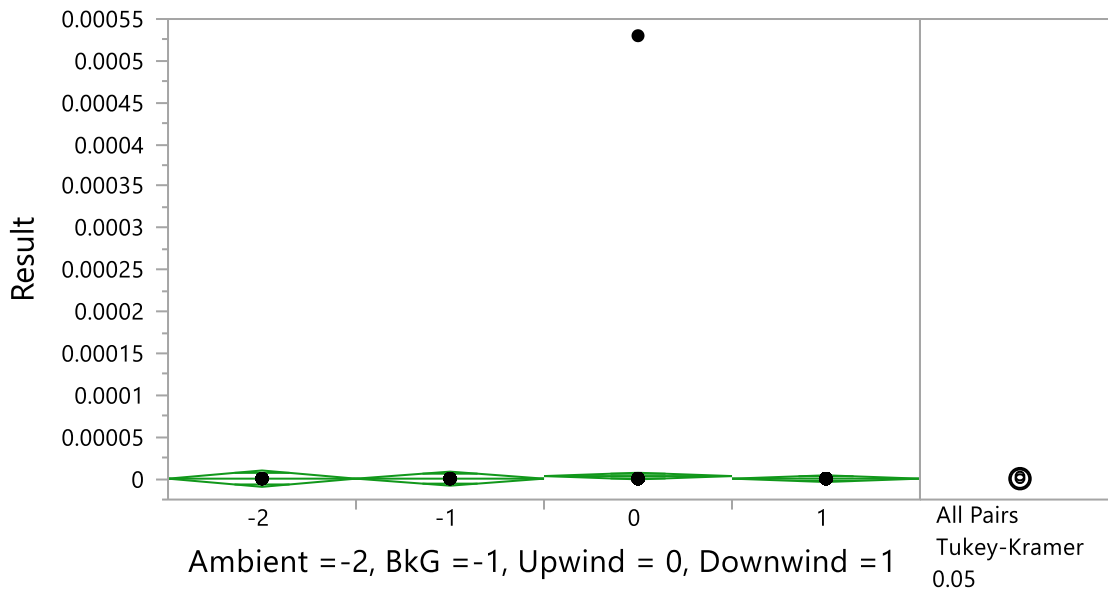
Level		Mean
-1	A	0.00000000
0	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0023837	0.0043172	-0.008755	0.0135221	0.9459
1	-1	0.0023837	0.0038508	-0.007551	0.0123187	0.9260
1	0	0.0023837	0.0022222	-0.003350	0.0081171	0.7064
-1	-2	0.0000000	0.0053453	-0.013791	0.0137908	1.0000
0	-2	0.0000000	0.0043222	-0.011151	0.0111513	1.0000
0	-1	0.0000000	0.0038564	-0.009950	0.0099496	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Ethane (% v/v)



Missing Rows 184

Oneway Anova

Summary of Fit

Rsquare	0.003387
Adj Rsquare	-0.00407
Root Mean Square Error	2.639e-5
Mean of Response	1.309e-6
Observations (or Sum Wgts)	405

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	9.4911e-10	3.164e-10	0.4543	0.7144
Error	401	2.79257e-7	6.964e-10		
C. Total	404	2.80206e-7			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	28	0	4.9871e-6	-9.804e-6	9.8042e-6
-1	38	0	4.2809e-6	-8.416e-6	8.4159e-6
0	171	0.0000031	2.0181e-6	-8.679e-7	7.0667e-6
1	168	0	2.036e-6	-0.000004	4.0025e-6

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	0.595029	1.296362	0.458999	0.6462	0	0	0
0	-2	0.561090	1.437957	0.390199	0.6964	0	0	0
-1	-2	0.000000	0.000000	0.000000	1.0000	0	0	0
1	-2	0.000000	0.000000	0.000000	1.0000	0	0	0
1	-1	0.000000	0.000000	0.000000	1.0000	0	0	0
1	0	-0.985328	1.000039	-0.985289	0.3245	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	28	5670.00	5684.00	202.500	-0.263
-1	38	7695.00	7714.00	202.500	-0.313
0	171	34830.0	34713.0	203.684	1.165
1	168	34020.0	34104.0	202.500	-0.837

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3684	3	0.7130

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57987	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	-2	-1	1
0	-0.00001	-0.00001	-0.00001	-0.00000
-2	-0.00001	-0.00002	-0.00002	-0.00001
-1	-0.00001	-0.00002	-0.00002	-0.00001
1	-0.00000	-0.00001	-0.00001	-0.00001

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	3.09942e-6
-2 A	0

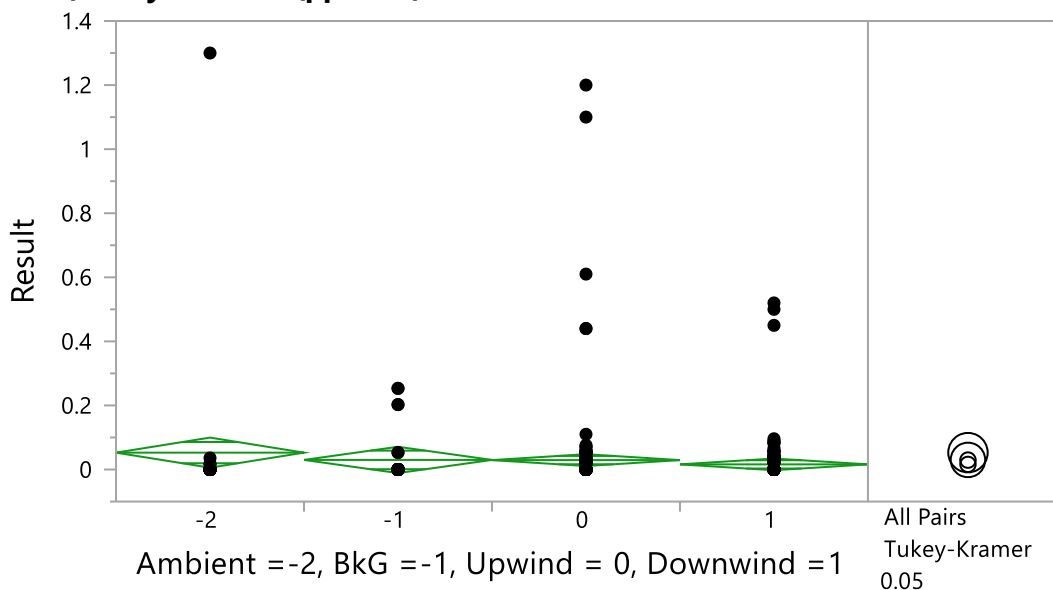
Level		Mean
-1	A	0
1	A	0

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0000031	5.38e-6	-0.000011	0.0000170	0.9392
0	-1	0.0000031	4.7327e-6	-9.11e-6	0.0000153	0.9138
0	1	0.0000031	2.8667e-6	-4.296e-6	0.0000105	0.7012
-1	-2	0	6.5725e-6	-0.000017	0.0000170	1.0000
1	-2	0	5.3867e-6	-0.000014	0.0000139	1.0000
1	-1	0	4.7404e-6	-0.000012	0.0000122	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Ethylbenzene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.006368
Adj Rsquare	-0.00114
Root Mean Square Error	0.121795
Mean of Response	0.025225
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0377409	0.012580	0.8481	0.4682
Error	397	5.8891422	0.014834		
C. Total	400	5.9268831			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.052678	0.02389	0.0057	0.09964
-1	34	0.029940	0.02089	-0.0111	0.07100
0	169	0.029385	0.00937	0.0110	0.04780
1	172	0.016054	0.00929	-0.0022	0.03431

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	3.68343	7.954018	0.463091	0.6433	0	0	0
1	-2	2.36874	7.826121	0.302671	0.7621	0	0	0
-1	-2	1.05204	2.953158	0.356241	0.7217	0	0	0
0	-1	-0.79490	7.433245	-0.106939	0.9148	0	0	0
1	0	-2.35795	7.086085	-0.332758	0.7393	0	0	0
1	-1	-2.51864	7.319604	-0.344095	0.7308	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5072.50	5226.00	195.096	-0.405
-1	34	6945.00	6834.00	204.265	0.258
0	169	34231.0	33969.0	202.550	0.345
1	172	34352.5	34572.0	199.724	-0.288

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3326	3	0.9538

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1
-2	0.08715	0.05913	0.04290	0.02950
-1	0.05913	0.07621	0.05851	0.04509
0	0.04290	0.05851	0.03418	0.02070
1	0.02950	0.04509	0.02070	0.03388

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.05267779
-1 A	0.02993978

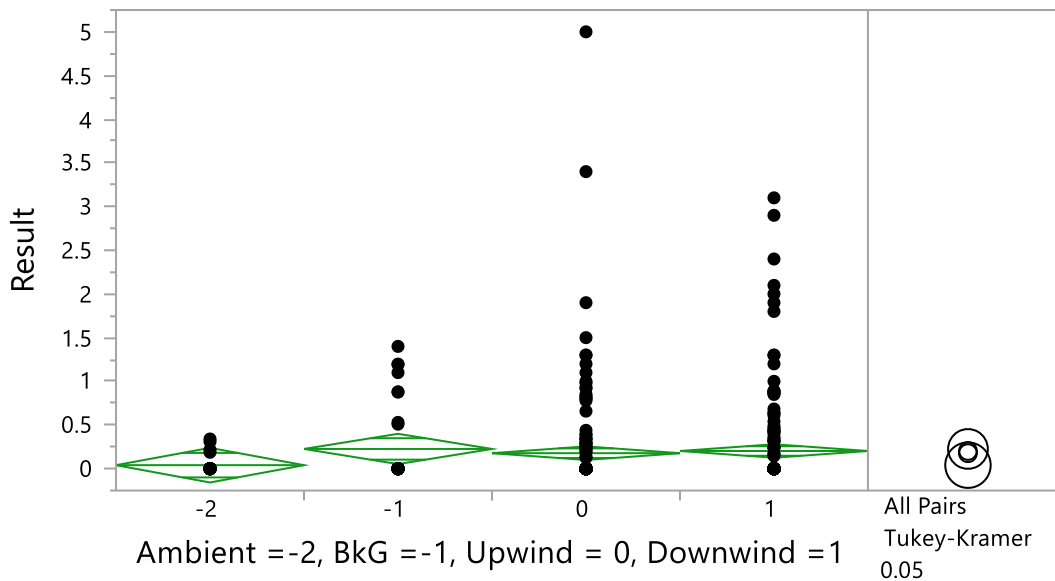
Level		Mean
0	A	0.02938517
1	A	0.01605441

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0366234	0.0256279	-0.029496	0.1027428	0.4819
-2	0	0.0232926	0.0256577	-0.042904	0.0894890	0.8007
-2	-1	0.0227380	0.0317307	-0.059127	0.1046027	0.8905
-1	1	0.0138854	0.0228592	-0.045091	0.0728616	0.9297
0	1	0.0133308	0.0131917	-0.020704	0.0473650	0.7434
-1	0	0.0005546	0.0228926	-0.058508	0.0596172	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Heptane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.006275
Adj Rsquare	-0.00123
Root Mean Square Error	0.514073
Mean of Response	0.183653
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.66253	0.220845	0.8357	0.4749
Error	397	104.91574	0.264271		
C. Total	400	105.57827			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.040578	0.10082	-0.1576	0.23878
-1	34	0.226111	0.08816	0.0528	0.39944
0	169	0.177656	0.03954	0.0999	0.25540
1	172	0.202781	0.03920	0.1257	0.27984

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-2	9.71847	8.696897	1.11746	0.2638	0	0	0
0	-2	7.03402	8.305223	0.84694	0.3970	0	0	0
1	0	4.13522	7.699377	0.53708	0.5912	0	0	0
-1	-2	3.49548	3.178485	1.09973	0.2714	0	0	0
1	-1	-2.51864	8.222938	-0.30629	0.7594	0	0	0
0	-1	-4.76940	7.888188	-0.60463	0.5454	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	4795.00	5226.00	184.423	-1.049
-1	34	7093.50	6834.00	208.632	0.558
0	169	33639.5	33969.0	199.050	-0.400
1	172	35073.0	34572.0	203.913	0.607

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.6220	3	0.6544

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	1	0	-2
-1	-0.32167	-0.22560	-0.20084	-0.16000
1	-0.22560	-0.14302	-0.11853	-0.11687
0	-0.20084	-0.11853	-0.14428	-0.14232
-2	-0.16000	-0.11687	-0.14232	-0.36785

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.22611146
1 A	0.20278058

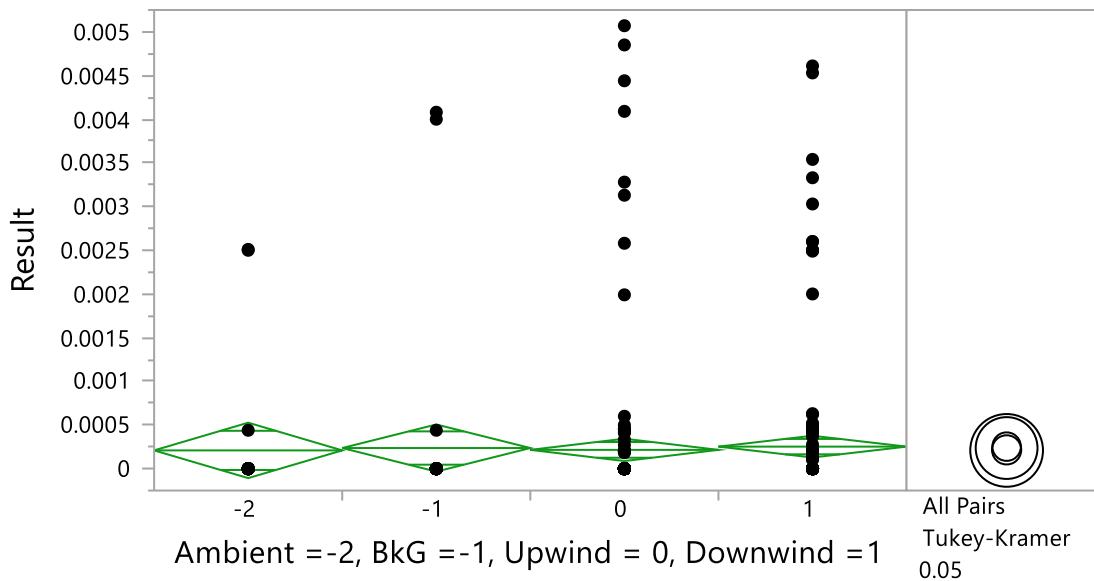
Level		Mean
0	A	0.17765589
-2	A	0.04057767

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	-2	0.1855338	0.1339290	-0.160000	0.5310679	0.5093
1	-2	0.1622029	0.1081700	-0.116874	0.4412793	0.4387
0	-2	0.1370782	0.1082960	-0.142323	0.4164797	0.5853
-1	0	0.0484556	0.0966252	-0.200835	0.2977466	0.9587
1	0	0.0251247	0.0556794	-0.118527	0.1687765	0.9694
-1	1	0.0233309	0.0964839	-0.225596	0.2722575	0.9950

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Hexaldehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.000493
Adj Rsquare	-0.00724
Root Mean Square Error	0.000823
Mean of Response	0.000233
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000013	4.316e-8	0.0638	0.9790
Error	388	0.00026268	6.7701e-7		
C. Total	391	0.00026281			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000210	0.00016	-0.0001	0.00053
-1	36	0.000237	0.00014	-3.3e-5	0.00051
0	161	0.000216	6.48e-5	8.81e-5	0.00034
1	169	0.000253	6.33e-5	0.00013	0.00038

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	10.5297	7.220971	1.45821	0.1448	0	0	0
1	0	7.2285	6.920567	1.04449	0.2963	0	0	0
1	-2	7.0562	8.044912	0.87710	0.3804	0	0	0
0	-1	5.9481	6.283725	0.94658	0.3439	0	0	0
0	-2	2.7250	6.992789	0.38969	0.6968	0	0	0
-1	-2	-0.8280	2.381969	-0.34761	0.7281	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	4901.00	5109.00	188.500	-0.581
-1	36	6572.50	7074.00	182.569	-1.209
0	161	31277.0	31636.5	194.267	-0.509
1	169	34277.5	33208.5	202.825	1.504

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.0896	3	0.3780

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-1	0	-2
1	-0.00023	-0.00037	-0.00020	-0.00040
-1	-0.00037	-0.00050	-0.00037	-0.00052
0	-0.00020	-0.00037	-0.00024	-0.00044
-2	-0.00040	-0.00052	-0.00044	-0.00059

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00025278
-1 A	0.00023667

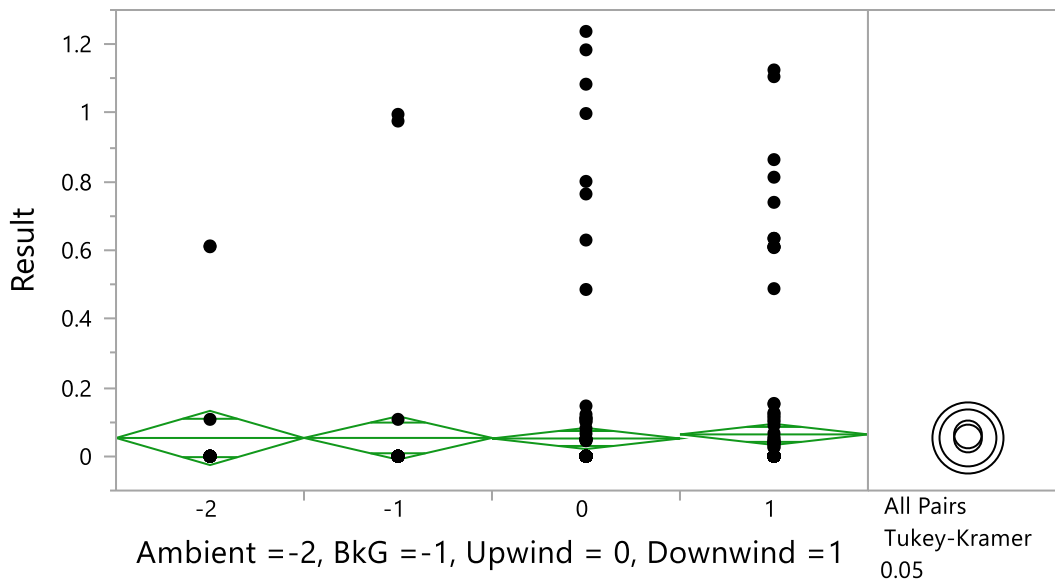
Level		Mean
0	A	0.00021561
-2	A	0.00020962

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0000432	0.0001733	-0.000404	0.0004904	0.9946
1	0	0.0000372	0.0000906	-0.000197	0.0002710	0.9767
-1	-2	0.0000271	0.0002118	-0.000519	0.0005735	0.9993
-1	0	0.0000211	0.0001517	-0.000370	0.0004125	0.9990
1	-1	0.0000161	0.0001510	-0.000374	0.0004058	0.9996
0	-2	0.0000060	0.0001739	-0.000443	0.0004547	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Hexaldehyde (ppb)



Missing Rows 171

Oneway Anova

Summary of Fit

Rsquare	0.000808
Adj Rsquare	-0.00692
Root Mean Square Error	0.200821
Mean of Response	0.056919
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.012655	0.004218	0.1046	0.9574
Error	388	15.647667	0.040329		
C. Total	391	15.660322			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	25	0.053215	0.04016	-0.0258	0.13218
-1	39	0.053328	0.03216	-0.0099	0.11655
0	164	0.051670	0.01568	0.0208	0.08250
1	164	0.063587	0.01568	0.0328	0.09442

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	11.7274	6.967725	1.68310	0.0924	0	0	0
1	0	8.6037	6.914746	1.24425	0.2134	0	0	0
1	-2	6.9146	8.047677	0.85921	0.3902	0	0	0
0	-1	6.5540	6.176513	1.06112	0.2886	0	0	0
0	-2	2.0513	7.146832	0.28703	0.7741	0	0	0
-1	-2	-1.2144	2.412287	-0.50341	0.6147	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	25	4736.00	4912.50	189.440	-0.502
-1	39	7067.50	7663.50	181.218	-1.387
0	164	31772.0	32226.0	193.732	-0.641
1	164	33452.5	32226.0	203.979	1.733

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.9601	3	0.2658

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-1	-2	0
1		-0.05722	-0.08205	-0.10088
-1	-0.05722		-0.11734	-0.09066
-2	-0.08205	-0.11734		-0.10971
0	-0.10088	-0.13264	-0.14656	
1	-0.04531	-0.09066	-0.10971	-0.05722

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.06358689
-1 A	0.05332799

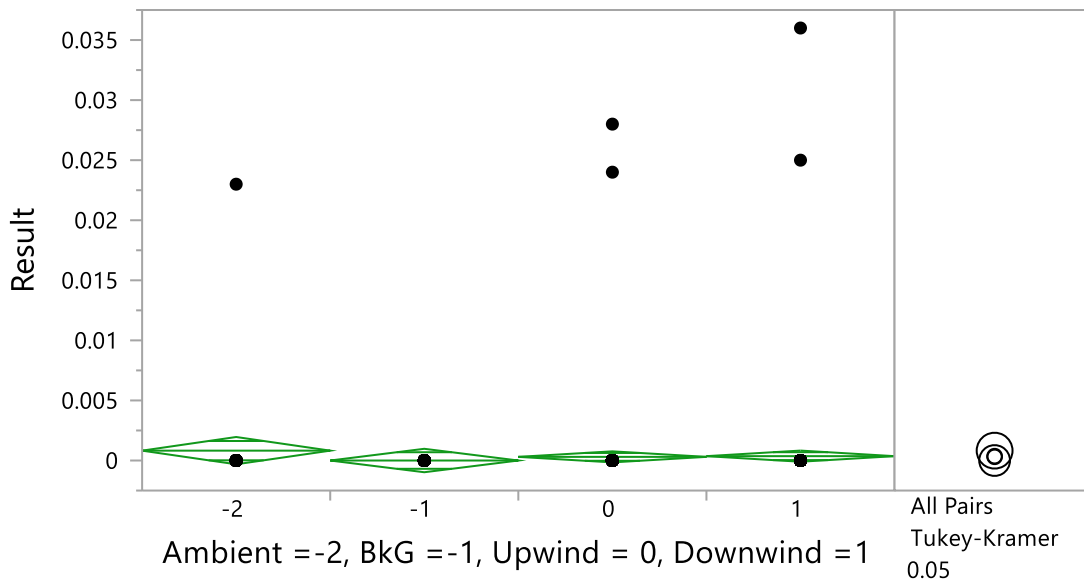
Level		Mean
-2	A	0.05321532
0	A	0.05167030

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	0	0.0119166	0.0221770	-0.045305	0.0691383	0.9499
1	-2	0.0103716	0.0431169	-0.100880	0.1216233	0.9951
1	-1	0.0102589	0.0357769	-0.082054	0.1025717	0.9918
-1	0	0.0016577	0.0357769	-0.090655	0.0939704	1.0000
-2	0	0.0015450	0.0431169	-0.109707	0.1127968	1.0000
-1	-2	0.0001127	0.0514513	-0.132644	0.1328691	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Hydrogen (% v/v)



Missing Rows 184

Oneway Anova

Summary of Fit

Rsquare	0.002971
Adj Rsquare	-0.00449
Root Mean Square Error	0.003059
Mean of Response	0.000336
Observations (or Sum Wgts)	405

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00001119	3.7285e-6	0.3984	0.7543
Error	401	0.00375315	9.3595e-6		
C. Total	404	0.00376433			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	28	0.000821	0.00058	-0.0003	0.00196
-1	38	0.000000	0.00050	-0.001	0.00098
0	171	0.000304	0.00023	-0.0002	0.00076
1	168	0.000363	0.00024	-0.0001	0.00083

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-1	1.21006	1.818650	0.66536	0.5058	0	0	0
0	-1	1.20614	1.828942	0.65947	0.5096	0	0	0
1	0	0.04130	1.991226	0.02074	0.9835	0	0	0
-1	-2	-1.14756	1.011680	-1.13431	0.2567	0	0	0
1	-2	-2.27083	2.462236	-0.92226	0.3564	0	0	0
0	-2	-2.32749	2.478089	-0.93923	0.3476	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	28	5814.50	5684.00	207.661	1.137
-1	38	7619.00	7714.00	200.500	-0.719
0	171	34690.5	34713.0	202.868	-0.099
1	168	34091.0	34104.0	202.923	-0.056

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.6951	3	0.6380

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57987	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	0	-1
-2	0.00211	0.00115	0.00109	0.00114
1	0.00115	0.00086	0.00080	0.00105
0	0.00109	0.00080	0.00085	0.00111
-1	0.00114	0.00105	0.00111	0.00181

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.00082143
1 A	0.00036310

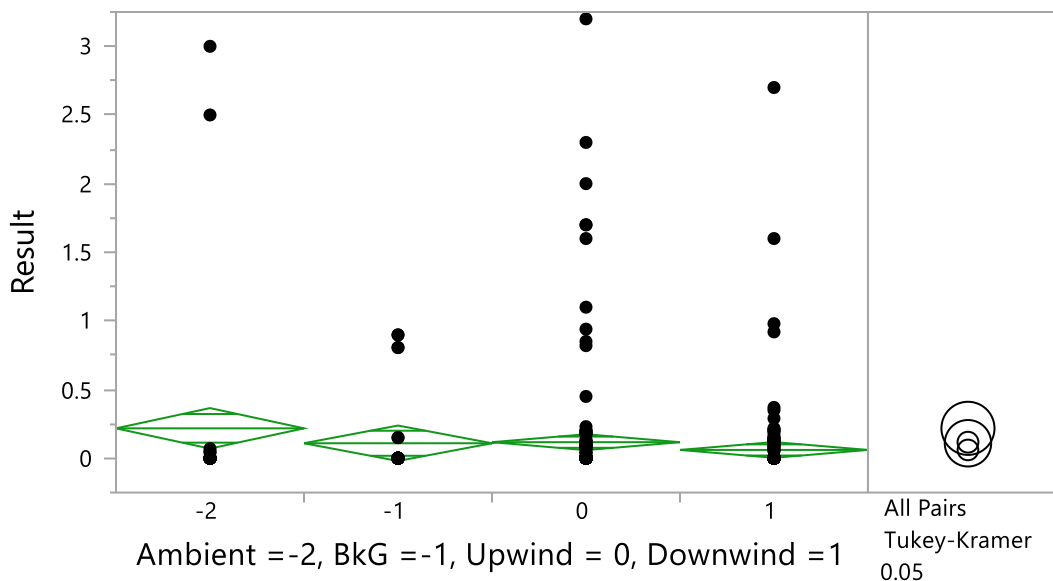
Level		Mean
0	A	0.00030409
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.0008214	0.0007620	-0.001144	0.0027872	0.7031
-2	0	0.0005173	0.0006237	-0.001092	0.0021264	0.8405
-2	1	0.0004583	0.0006245	-0.001153	0.0020694	0.8834
1	-1	0.0003631	0.0005496	-0.001055	0.0017809	0.9117
0	-1	0.0003041	0.0005487	-0.001111	0.0017196	0.9454
1	0	0.0000590	0.0003323	-0.000798	0.0009164	0.9980

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=m,p-Xylene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.011556
Adj Rsquare	0.004086
Root Mean Square Error	0.382626
Mean of Response	0.098487
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.679492	0.226497	1.5471	0.2018
Error	397	58.121734	0.146402		
C. Total	400	58.801226			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.217685	0.07504	0.0702	0.36521
-1	34	0.109068	0.06562	-0.0199	0.23807
0	169	0.116793	0.02943	0.0589	0.17466
1	172	0.060390	0.02917	0.0030	0.11775

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	2.55178	8.469055	0.301306	0.7632	0	0	0
0	-1	2.49069	7.816485	0.318646	0.7500	0	0	0
1	-2	0.00000	8.198772	0.000000	1.0000	0	0	0
-1	-2	-0.23756	3.070140	-0.077376	0.9383	0	0	0
1	-1	-0.89826	7.568311	-0.118686	0.9055	0	0	0
1	0	-5.04438	7.450354	-0.677066	0.4984	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5172.00	5226.00	198.923	-0.135
-1	34	6785.00	6834.00	199.559	-0.108
0	169	34528.5	33969.0	204.311	0.702
1	172	34115.5	34572.0	198.346	-0.572

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.5012	3	0.9186

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	0	-1	1
-2	-0.27379	-0.10707	-0.14856	-0.05042
0	-0.10707	-0.10739	-0.17782	-0.05052
-1	-0.14856	-0.17782	-0.23942	-0.13660
1	-0.05042	-0.05052	-0.13660	-0.10645

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.21768513
0 A	0.11679273

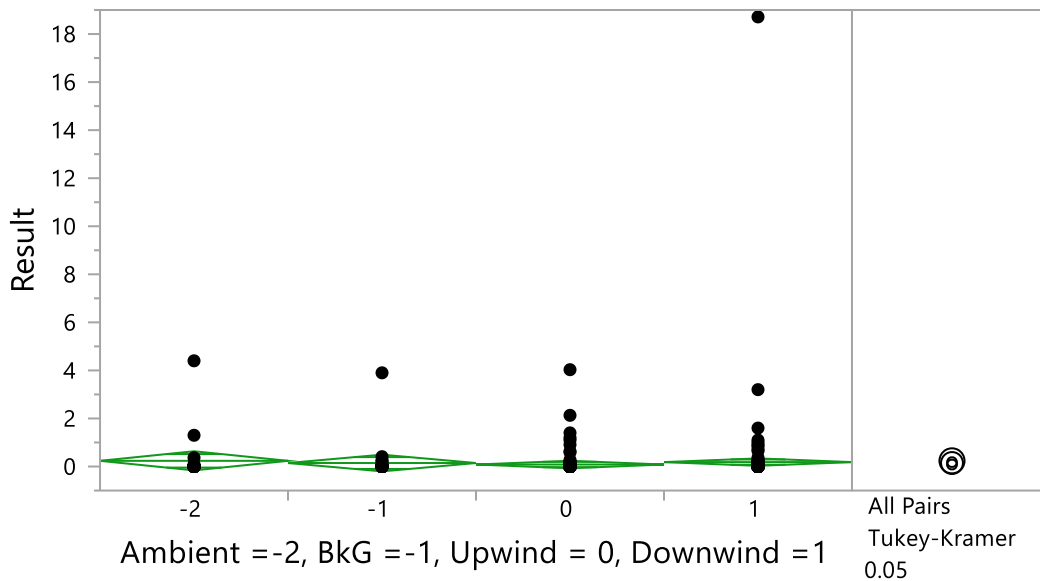
Level		Mean
-1	A	0.10906787
1	A	0.06038974

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.1572954	0.0805111	-0.050422	0.3650124	0.2076
-2	-1	0.1086173	0.0996836	-0.148564	0.3657989	0.6961
-2	0	0.1008924	0.0806049	-0.107067	0.3088514	0.5943
0	1	0.0564030	0.0414423	-0.050517	0.1633233	0.5247
-1	1	0.0486781	0.0718131	-0.136598	0.2339546	0.9055
0	-1	0.0077249	0.0719183	-0.177823	0.1932726	0.9996

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Methylene Chloride (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.002631
Adj Rsquare	-0.00491
Root Mean Square Error	1.032255
Mean of Response	0.141682
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	1.11591	0.37197	0.3491	0.7898
Error	397	423.02367	1.06555		
C. Total	400	424.13958			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.236959	0.20244	-0.1610	0.63495
-1	34	0.145731	0.17703	-0.2023	0.49377
0	169	0.083372	0.07940	-0.0727	0.23948
1	172	0.183773	0.07871	0.0290	0.33851

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	2.96211	6.513333	0.454776	0.6493	0	0	0
-1	-2	0.30543	2.953256	0.103421	0.9176	0	0	0
1	-2	-0.79696	7.521649	-0.105955	0.9156	0	0	0
1	-1	-2.23683	7.052793	-0.317156	0.7511	0	0	0
0	-2	-2.30769	7.138556	-0.323272	0.7465	0	0	0
0	-1	-3.97450	6.718803	-0.591549	0.5542	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5292.00	5226.00	203.538	0.186
-1	34	7016.00	6834.00	206.353	0.456
0	169	33550.5	33969.0	198.524	-0.592
1	172	34742.5	34572.0	201.991	0.240

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.4602	3	0.9275

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	1	-1	0
-2		-0.50720	-0.60260	-0.40745
1	-0.50720		-0.46180	-0.18805
-1	-0.60260	-0.46180		-0.43822
0	-0.40745	-0.18805	-0.43822	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.23695938
1 A	0.18377275

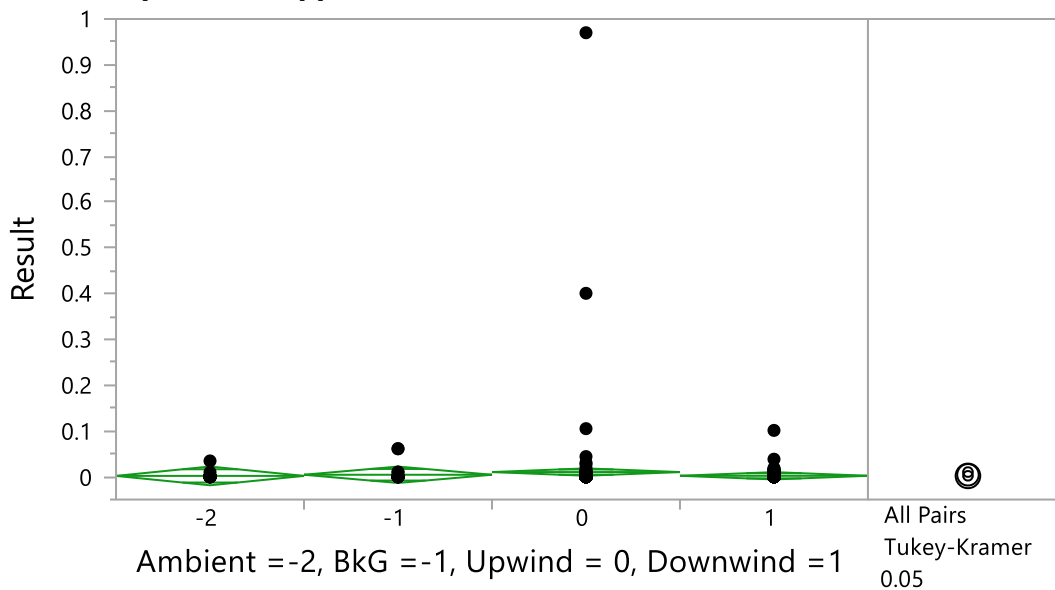
Level	Mean
-1 A	0.14573119
0 A	0.08337197

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	0.1535874	0.2174575	-0.407449	0.7146234	0.8946
1	0	0.1004008	0.1118038	-0.188051	0.3888525	0.8059
-2	-1	0.0912282	0.2689283	-0.602602	0.7850580	0.9865
-1	0	0.0623592	0.1940226	-0.438215	0.5629337	0.9885
-2	1	0.0531866	0.2172045	-0.507197	0.6135699	0.9948
1	-1	0.0380416	0.1937390	-0.461801	0.5378843	0.9973

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Naphthalene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.005464
Adj Rsquare	-0.00205
Root Mean Square Error	0.053158
Mean of Response	0.005528
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0061636	0.002055	0.7271	0.5363
Error	397	1.1218223	0.002826		
C. Total	400	1.1279859			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.001688	0.01043	-0.0188	0.02218
-1	34	0.004174	0.00912	-0.0137	0.02210
0	169	0.010064	0.00409	0.0020	0.01810
1	172	0.001919	0.00405	-0.0060	0.00989

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	3.17308	6.397233	0.496008	0.6199	0	0	0
1	-2	3.12142	6.443965	0.484395	0.6281	0	0	0
-1	-2	1.32353	2.368523	0.558799	0.5763	0	0	0
1	0	-0.40472	5.833083	-0.069384	0.9447	0	0	0
0	-1	-1.00687	6.076424	-0.165702	0.8684	0	0	0
1	-1	-1.21529	6.117240	-0.198666	0.8425	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5063.00	5226.00	194.731	-0.524
-1	34	6918.00	6834.00	203.471	0.238
0	169	34047.0	33969.0	201.462	0.125
1	172	34573.0	34572.0	201.006	0.001

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3200	3	0.9562

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	-1	1	-2	
0		-0.01492	-0.01989	-0.00671	-0.02052
-1	-0.01989		-0.03326	-0.02348	-0.03324
1	-0.00671	-0.02348		-0.01479	-0.02863
-2	-0.02052	-0.03324	-0.02863		-0.03804

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.01006397
-1 A	0.00417433

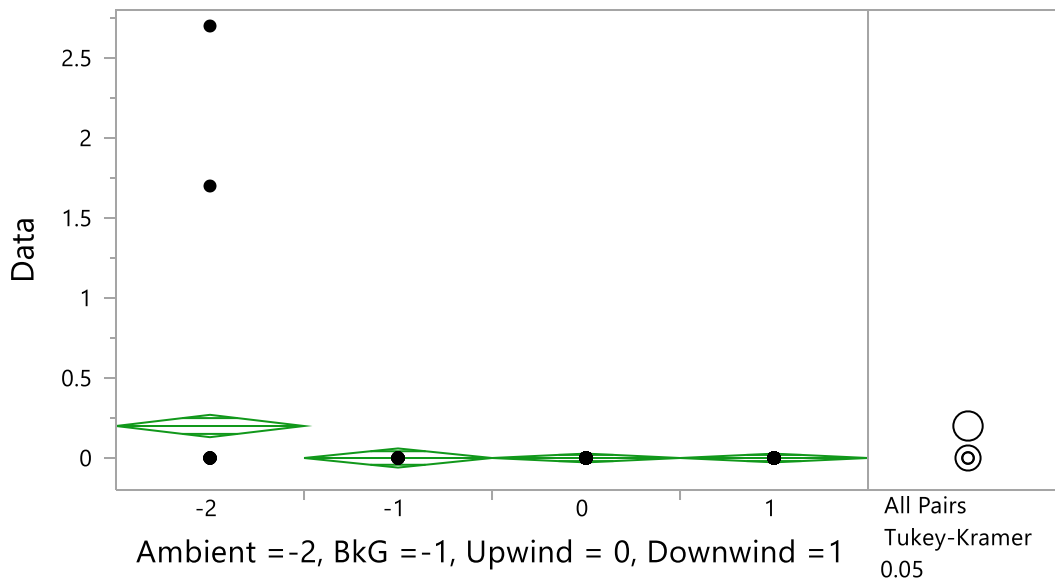
Level	Mean
1 A	0.00191869
-2 A	0.00168751

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0083765	0.0111984	-0.020515	0.0372680	0.8775
0	1	0.0081453	0.0057575	-0.006709	0.0229996	0.4909
0	-1	0.0058896	0.0099915	-0.019888	0.0316676	0.9352
-1	-2	0.0024868	0.0138489	-0.033243	0.0382168	0.9979
-1	1	0.0022556	0.0099769	-0.023485	0.0279959	0.9959
1	-2	0.0002312	0.0111853	-0.028627	0.0290891	1.0000

Oneway Analysis of Data By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Nonane (ppb v/v)



Missing Rows 246

Oneway Anova

Summary of Fit

Rsquare	0.08129
Adj Rsquare	0.073063
Root Mean Square Error	0.166617
Mean of Response	0.012979
Observations (or Sum Wgts)	339

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.822891	0.274297	9.8806	<.0001*
Error	335	9.300000	0.027761		
C. Total	338	10.122891			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	22	0.200000	0.03552	0.1301	0.26988
-1	30	0.000000	0.03042	-0.0598	0.05984
0	142	0.000000	0.01398	-0.0275	0.02750
1	145	0.000000	0.01384	-0.0272	0.02722

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	0.00000	0.000000	0.00000	1.0000	0	0	0
1	-1	0.00000	0.000000	0.00000	1.0000	0	0	0
1	0	0.00000	0.000000	0.00000	1.0000	0	0	0
-1	-2	-2.32424	1.417424	-1.63977	0.1011	0	0	0
0	-2	-7.42830	2.068451	-3.59124	0.0003*	0	0	0
1	-2	-7.56473	2.084500	-3.62904	0.0003*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	22	4057.00	3740.00	184.409	5.368
-1	30	5070.00	5100.00	169.000	-0.434
0	142	23998.0	24140.0	169.000	-1.198
1	145	24505.0	24650.0	169.000	-1.220

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
28.9034	3	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58200	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1
-2	-0.12971	0.07924	0.10143	0.10157
-1	0.07924	-0.11108	-0.08644	-0.08629
0	0.10143	-0.08644	-0.05106	-0.05079
1	0.10157	-0.08629	-0.05079	-0.05053

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.2000000
-1 B	0.0000000

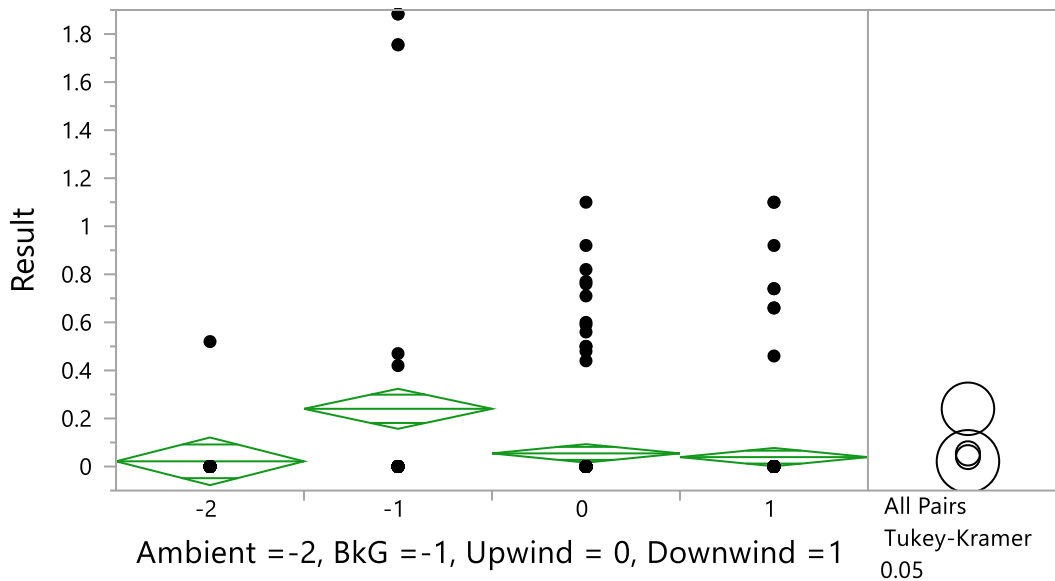
Level		Mean
0	B	0.0000000
1	B	0.0000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	-1	0.2000000	0.0467680	0.079245	0.3207551	0.0001*
-2	0	0.2000000	0.0381756	0.101431	0.2985694	<.0001*
-2	1	0.2000000	0.0381226	0.101567	0.2984325	<.0001*
0	-1	0.0000000	0.0334795	-0.086444	0.0864441	1.0000
1	-1	0.0000000	0.0334190	-0.086288	0.0862880	1.0000
1	0	0.0000000	0.0196712	-0.050791	0.0507912	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Octane (ppb v/v)



Missing Rows 184

Oneway Anova

Summary of Fit

Rsquare	0.050046
Adj Rsquare	0.042487
Root Mean Square Error	0.247086
Mean of Response	0.062513
Observations (or Sum Wgts)	381

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	1.212570	0.404190	6.6205	0.0002*
Error	377	23.016446	0.061052		
C. Total	380	24.229017			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.021667	0.05044	-0.0775	0.12084
-1	34	0.240218	0.04237	0.1569	0.32354
0	160	0.054688	0.01953	0.0163	0.09310
1	163	0.039141	0.01935	0.0011	0.07720

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	3.9449	2.547295	1.54864	0.1215	0	0	0
0	-2	3.7375	5.359631	0.69734	0.4856	0	0	0
1	-2	0.8126	4.388908	0.18515	0.8531	0	0	0
1	0	-4.9973	4.441488	-1.12515	0.2605	0	0	0
0	-1	-9.7178	5.468316	-1.77712	0.0755	0	0	0
1	-1	-12.8501	4.787969	-2.68384	0.0073*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	4432.00	4584.00	184.667	-0.641
-1	34	7185.00	6494.00	211.324	2.491
0	160	30769.5	30560.0	192.309	0.435
1	163	30384.5	31133.0	186.408	-1.555

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
7.5405	3	0.0565

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.58056	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-1	0	1	-2
-1	-0.15465	0.06512	0.08086	0.04856
0	0.06512	-0.07129	-0.05541	-0.10655
1	0.08086	-0.05541	-0.07063	-0.12193
-2	0.04856	-0.10655	-0.12193	-0.18407

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-1 A	0.24021832
0 B	0.05468750

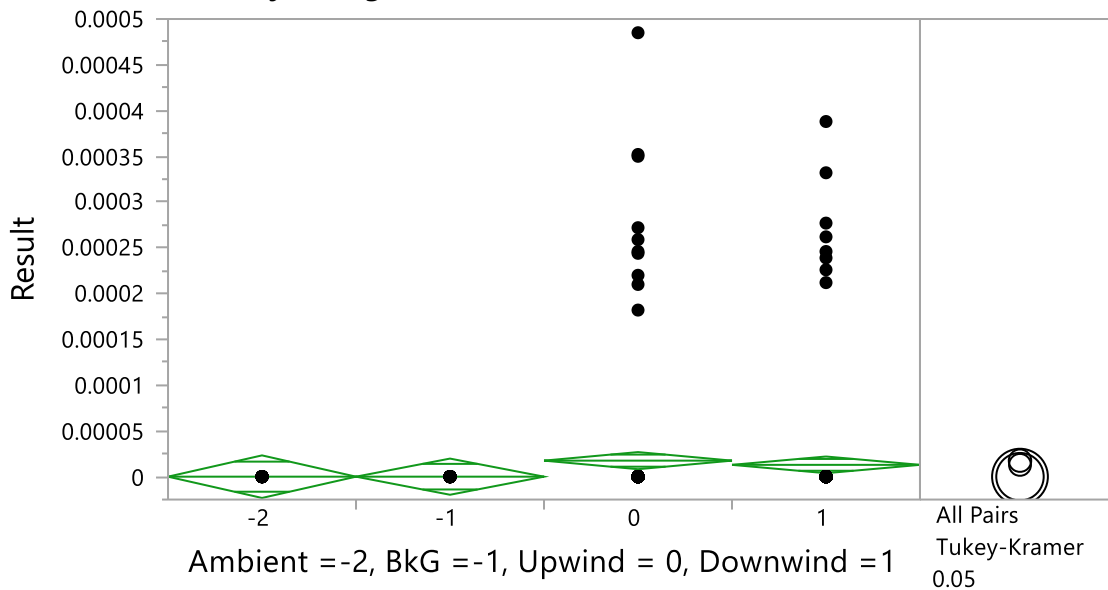
Level		Mean
1	B	0.03914110
-2	B	0.02166667

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-1	-2	0.2185516	0.0658745	0.048559	0.3885447	0.0055*
-1	1	0.2010772	0.0465852	0.080861	0.3212932	0.0001*
-1	0	0.1855308	0.0466606	0.065120	0.3059412	0.0005*
0	-2	0.0330208	0.0540869	-0.106554	0.1725952	0.9287
1	-2	0.0174744	0.0540219	-0.121932	0.1568812	0.9883
0	1	0.0155464	0.0274977	-0.055413	0.0865058	0.9423

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=o-Tolualdehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.009646
Adj Rsquare	0.001989
Root Mean Square Error	6.03e-5
Mean of Response	1.276e-5
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	1.37396e-8	4.5799e-9	1.2597	0.2879
Error	388	1.4106e-6	3.6356e-9		
C. Total	391	1.42434e-6			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	1.18e-5	-2.3e-5	2.32e-5
-1	36	0.000000	0.00001	-2e-5	0.00002
0	161	0.000018	4.75e-6	8.17e-6	2.69e-5
1	169	0.000013	4.64e-6	3.79e-6	2.2e-5

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	6.10102	3.998151	1.52596	0.1270	0	0	0
0	-2	5.78512	4.460243	1.29704	0.1946	0	0	0
1	-1	4.83522	3.653467	1.32346	0.1857	0	0	0
1	-2	4.59320	4.085682	1.12422	0.2609	0	0	0
-1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	0	-2.41354	4.134947	-0.58369	0.5594	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	4875.00	5109.00	187.500	-1.153
-1	36	6750.00	7074.00	187.500	-1.377
0	161	32146.0	31636.5	199.665	1.272
1	169	33257.0	33208.5	196.787	0.119

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.9373	3	0.2683

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	0.000002	-0.00001	-0.00002	-0.00001
1	-0.00001	-0.00002	-0.00002	-0.00002
-2	-0.00002	-0.00002	-0.00004	-0.00004
-1	-0.00001	-0.00002	-0.00004	-0.00004

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00001752
1 A	0.00001291

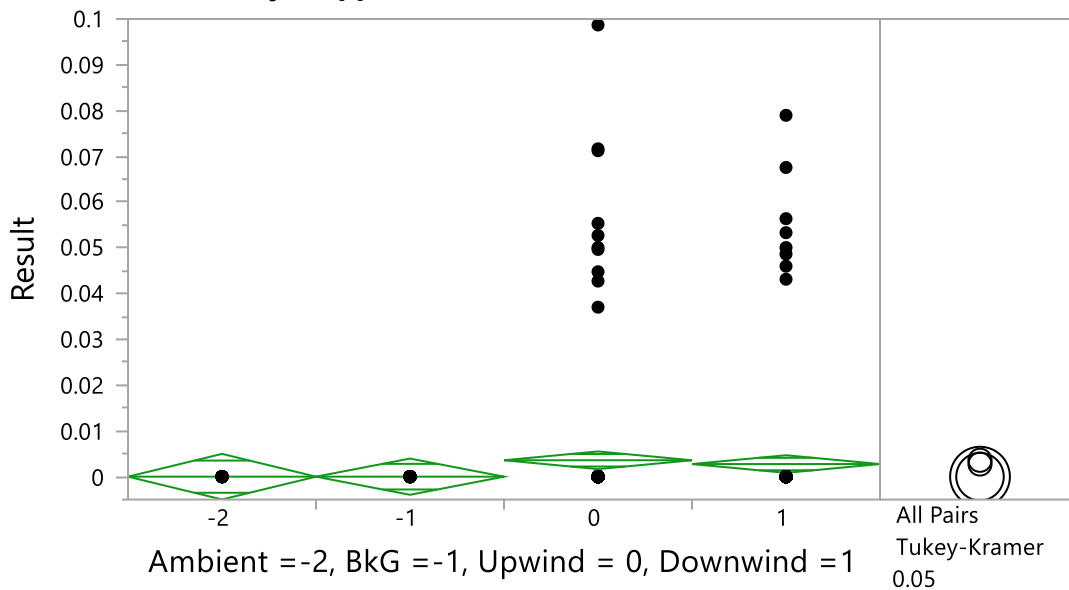
Level		Mean
-2	A	0.00000000
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0000175	0.0000127	-0.000015	0.0000504	0.5162
0	-1	0.0000175	0.0000111	-0.000011	0.0000462	0.3937
1	-2	0.0000129	0.0000127	-0.000020	0.0000457	0.7399
1	-1	0.0000129	0.0000111	-0.000016	0.0000415	0.6483
0	1	0.0000046	0.0000066	-0.000013	0.0000217	0.8996
-1	-2	0.0000000	0.0000155	-0.000040	0.0000400	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=o-Tolualdehyde (ppb)



Missing Rows 180

Oneway Anova

Summary of Fit

Rsquare	0.009803
Adj Rsquare	0.001965
Root Mean Square Error	0.012407
Mean of Response	0.002658
Observations (or Sum Wgts)	383

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00057760	0.000193	1.2507	0.2911
Error	379	0.05834196	0.000154		
C. Total	382	0.05891956			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.000000	0.00253	-0.0050	0.00498
-1	38	0.000000	0.00201	-0.0040	0.00396
0	160	0.003587	0.00098	0.0017	0.00552
1	161	0.002758	0.00098	0.00084	0.00468

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	6.17122	3.923933	1.57271	0.1158	0	0	0
0	-2	5.72604	4.580311	1.25014	0.2112	0	0	0
1	-1	4.92784	3.534821	1.39408	0.1633	0	0	0
1	-2	4.57233	4.129382	1.10727	0.2682	0	0	0
-1	-2	0.00000	0.000000	0.00000	1.0000	0	0	0
1	0	-2.03117	4.130710	-0.49172	0.6229	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	4392.00	4608.00	183.000	-1.119
-1	38	6954.00	7296.00	183.000	-1.438
0	160	31193.5	30720.0	194.959	1.207
1	161	30996.5	30912.0	192.525	0.214

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.9244	3	0.2697

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58050	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	-0.00358	-0.00275	-0.00342	-0.00219
1	-0.00275	-0.00357	-0.00425	-0.00302
-2	-0.00342	-0.00425	-0.00924	-0.00835
-1	-0.00219	-0.00302	-0.00835	-0.00735

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00358658
1 A	0.00275791

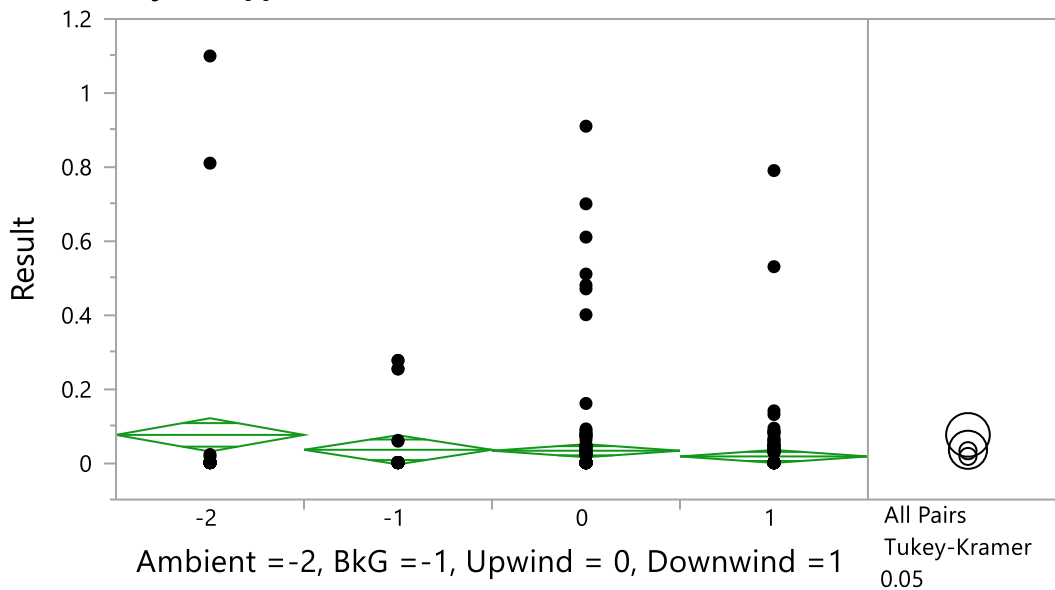
Level		Mean
-2	A	0.00000000
-1	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0035866	0.0027159	-0.003422	0.0105950	0.5504
0	-1	0.0035866	0.0022390	-0.002191	0.0093643	0.3788
1	-2	0.0027579	0.0027148	-0.004248	0.0097635	0.7402
1	-1	0.0027579	0.0022377	-0.003016	0.0085322	0.6066
0	1	0.0008287	0.0013850	-0.002745	0.0044027	0.9325
-1	-2	0.0000000	0.0032350	-0.008348	0.0083478	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=o-Xylene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.015217
Adj Rsquare	0.007775
Root Mean Square Error	0.116821
Mean of Response	0.028461
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0837173	0.027906	2.0448	0.1071
Error	397	5.4179020	0.013647		
C. Total	400	5.5016194			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.074932	0.02291	0.0299	0.11997
-1	34	0.034628	0.02003	-0.0048	0.07401
0	169	0.032102	0.00899	0.0144	0.04977
1	172	0.016640	0.00891	-0.0009	0.03415

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-2	3.92751	8.133722	0.482868	0.6292	0	0	0
1	-2	1.43895	7.826042	0.183867	0.8541	0	0	0
-1	-2	0.64480	2.953256	0.218334	0.8272	0	0	0
0	-1	0.51227	7.591670	0.067478	0.9462	0	0	0
1	-1	-2.74761	7.319539	-0.375380	0.7074	0	0	0
1	0	-4.63966	7.180848	-0.646115	0.5182	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5094.00	5226.00	195.923	-0.344
-1	34	6907.50	6834.00	203.162	0.169
0	169	34469.0	33969.0	203.959	0.651
1	172	34130.5	34572.0	198.433	-0.574

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.5722	3	0.9028

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1
-2	0.08359	0.03822	0.02066	0.00513
-1	0.03822	0.07310	0.05412	0.03858
0	0.02066	0.05412	0.03279	0.01718
1	0.00513	0.03858	0.01718	0.03250

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.07493186
-1 A	0.03462761

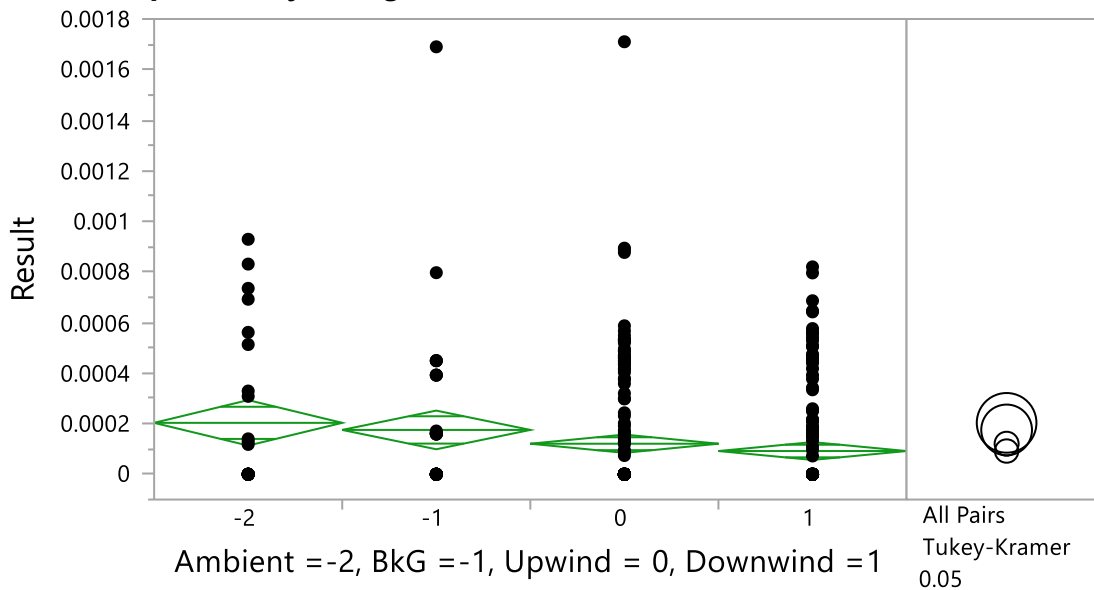
Level		Mean
0	A	0.03210190
1	A	0.01663964

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0582922	0.0245811	-0.005127	0.1217111	0.0843
-2	0	0.0428300	0.0246098	-0.020663	0.1063227	0.3042
-2	-1	0.0403042	0.0304348	-0.038217	0.1188253	0.5480
-1	1	0.0179880	0.0219255	-0.038579	0.0745554	0.8448
0	1	0.0154623	0.0126529	-0.017182	0.0481065	0.6132
-1	0	0.0025257	0.0219576	-0.054125	0.0591760	0.9995

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Propionaldehyde (mg/m3)



Missing Rows 197

Oneway Anova

Summary of Fit

Rsquare	0.019685
Adj Rsquare	0.012106
Root Mean Square Error	0.000233
Mean of Response	0.000119
Observations (or Sum Wgts)	392

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00000042	1.4125e-7	2.5971	0.0521
Error	388	0.00002110	5.4389e-8		
C. Total	391	0.00002153			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000203	4.57e-5	0.00011	0.00029
-1	36	0.000175	3.89e-5	0.0001	0.00025
0	161	0.000121	1.84e-5	8.46e-5	0.00016
1	169	0.000092	1.79e-5	5.66e-5	0.00013

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	-0.2318	4.204234	-0.05514	0.9560	0	0	0
1	0	-7.6045	8.274047	-0.91907	0.3581	0	0	0
0	-1	-12.2870	8.745478	-1.40496	0.1600	0	0	0
0	-2	-13.8039	9.428936	-1.46399	0.1432	0	0	0
1	-1	-17.7741	8.702979	-2.04230	0.0411*	0	0	0
1	-2	-18.6612	9.376080	-1.99030	0.0466*	0	-0.000006	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5843.50	5109.00	224.750	1.620
-1	36	7960.00	7074.00	221.111	1.684
0	161	31592.5	31636.5	196.227	-0.049
1	169	31632.0	33208.5	187.172	-1.748

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
6.7749	3	0.0794

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.58023	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1
-2	0.00017	0.00013	0.00004	0.00002
-1	0.00013	0.00014	0.00006	0.00003
0	0.00004	0.00006	0.00007	0.00004
1	0.00002	0.00003	0.00004	0.00007

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.00020327
-1 A	0.00017528

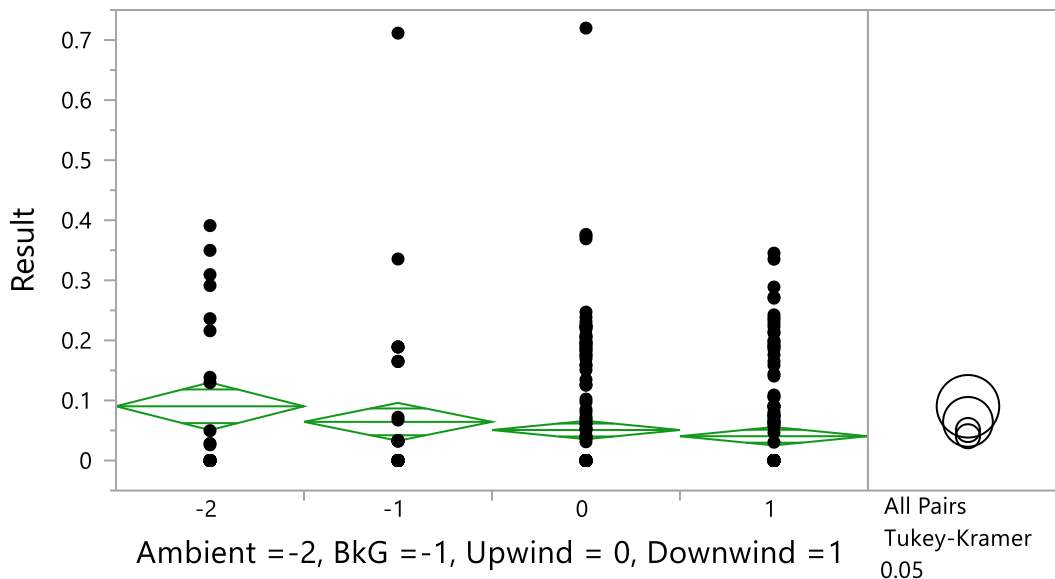
Level		Mean
0	A	0.00012075
1	A	0.00009184

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0001114	0.0000491	-0.000015	0.0002382	0.1074
-1	1	0.0000834	0.0000428	-0.000027	0.0001939	0.2095
-2	0	0.0000825	0.0000493	-0.000045	0.0002097	0.3388
-1	0	0.0000545	0.0000430	-0.000056	0.0001655	0.5837
0	1	0.0000289	0.0000257	-0.000037	0.0000952	0.6741
-2	-1	0.0000280	0.0000600	-0.000127	0.0001829	0.9664

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Propionaldehyde (ppb)



Missing Rows 177

Oneway Anova

Summary of Fit

Rsquare	0.016217
Adj Rsquare	0.008491
Root Mean Square Error	0.098903
Mean of Response	0.050235
Observations (or Sum Wgts)	386

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0615945	0.020531	2.0989	0.0999
Error	382	3.7366475	0.009782		
C. Total	385	3.7982420			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	24	0.090262	0.02019	0.05057	0.12996
-1	38	0.064363	0.01604	0.03282	0.09591
0	162	0.050777	0.00777	0.03550	0.06606
1	162	0.040450	0.00777	0.02517	0.05573

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-1	-2	-2.4814	4.259193	-0.58259	0.5602	0	-0.026942	0
1	0	-6.1111	8.280117	-0.73805	0.4605	0	0.000000	0
0	-1	-8.1384	8.681248	-0.93747	0.3485	0	0.000000	0
1	-1	-12.6543	8.408280	-1.50498	0.1323	0	0.000000	0
0	-2	-16.2654	9.775410	-1.66391	0.0961	0	-0.026200	0
1	-2	-19.9491	9.439426	-2.11338	0.0346*	0	-0.026200	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	24	5439.00	4644.00	226.625	1.835
-1	38	7957.00	7353.00	209.395	1.130
0	162	31251.0	31347.0	192.907	-0.108
1	162	30044.0	31347.0	185.457	-1.472

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.5798	3	0.1339

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.58041	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	0	1	
-2		-0.07367	-0.04064	-0.01633	-0.00601
-1	-0.04064		-0.05855	-0.03241	-0.02209
0	-0.01633	-0.03241		-0.02836	-0.01803
1	-0.00601	-0.02209	-0.01803		-0.02836

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.09026212
-1 A	0.06436333

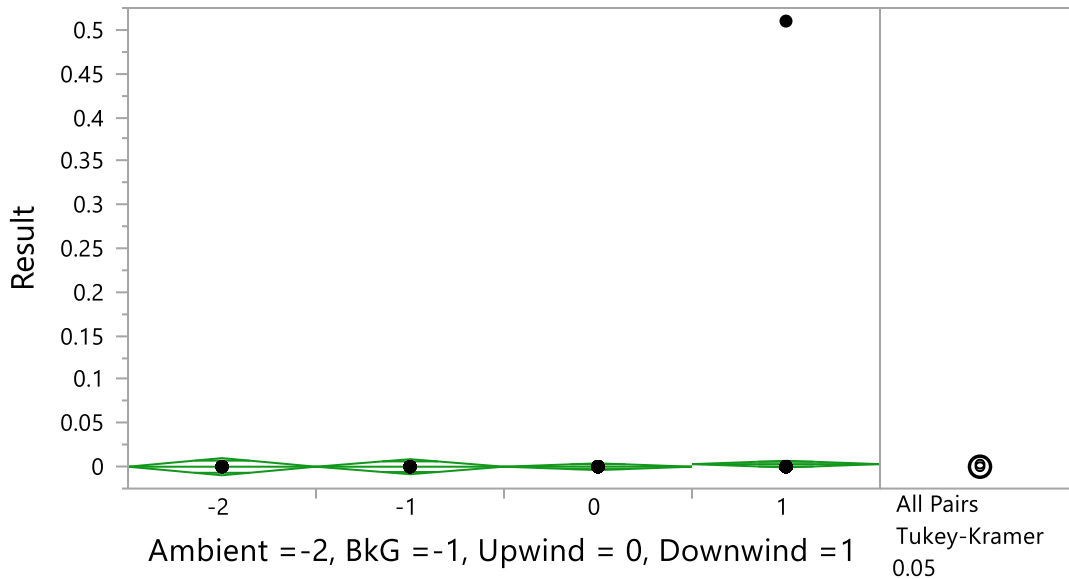
Level		Mean
0	A	0.05077665
1	A	0.04045038

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	1	0.0498117	0.0216323	-0.006008	0.1056319	0.0992
-2	0	0.0394855	0.0216323	-0.016335	0.0953057	0.2630
-2	-1	0.0258988	0.0257874	-0.040643	0.0924409	0.7470
-1	1	0.0239129	0.0178269	-0.022088	0.0699136	0.5371
-1	0	0.0135867	0.0178269	-0.032414	0.0595873	0.8714
0	1	0.0103263	0.0109892	-0.018030	0.0386829	0.7835

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Styrene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003328
Adj Rsquare	-0.0042
Root Mean Square Error	0.025522
Mean of Response	0.001272
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00086358	0.000288	0.4419	0.7231
Error	397	0.25858779	0.000651		
C. Total	400	0.25945137			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00501	-0.0098	0.00984
-1	34	0.000000	0.00438	-0.0086	0.00860
0	169	0.000000	0.00196	-0.0039	0.00386
1	172	0.002965	0.00195	-0.0009	0.00679

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	0.9854135	1.000039	0.9853754	0.3244	0	0	0
1	-1	0.5812244	1.346894	0.4315293	0.6661	0	0	0
1	-2	0.5534436	1.480418	0.3738429	0.7085	0	0	0
-1	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-2	0.0000000	0.000000	0.0000000	1.0000	0	0	0
0	-1	0.0000000	0.000000	0.0000000	1.0000	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5213.00	5226.00	200.500	-0.253
-1	34	6817.00	6834.00	200.500	-0.295
0	169	33884.5	33969.0	200.500	-0.848
1	172	34686.5	34572.0	201.666	1.149

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3314	3	0.7217

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-2	-1	0
1		-0.00710	-0.01089	-0.00939
-2	-0.00710		-0.01715	-0.01387
-1	-0.01089	-0.01715		-0.01238
0	-0.00939	-0.01387	-0.01238	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.00296512
-2 A	0.00000000

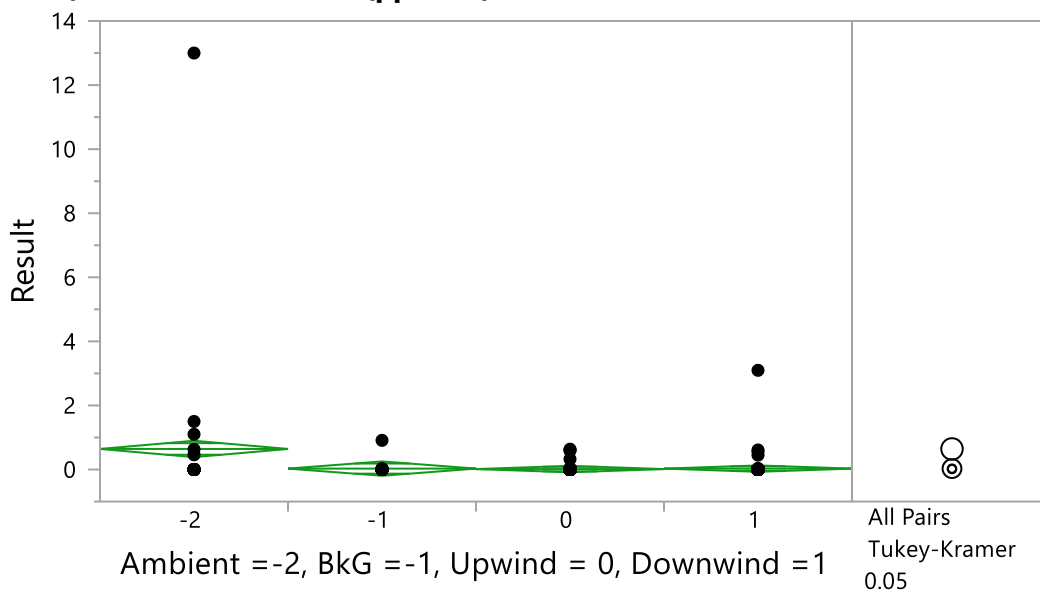
Level	Mean
-1 A	0.0000000
0 A	0.0000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0029651	0.0053702	-0.010890	0.0168201	0.9459
1	-1	0.0029651	0.0047900	-0.009393	0.0153233	0.9260
1	0	0.0029651	0.0027643	-0.004167	0.0100968	0.7064
-1	-2	0.0000000	0.0066490	-0.017154	0.0171544	1.0000
0	-2	0.0000000	0.0053765	-0.013871	0.0138711	1.0000
0	-1	0.0000000	0.0047970	-0.012376	0.0123763	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Tetrachloroethene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.050922
Adj Rsquare	0.04375
Root Mean Square Error	0.663362
Mean of Response	0.061879
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	9.37341	3.12447	7.1003	0.0001*
Error	397	174.69938	0.44005		
C. Total	400	184.07279			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.641923	0.13010	0.3862	0.89769
-1	34	0.028673	0.11377	-0.1950	0.25233
0	169	0.013769	0.05103	-0.0865	0.11409
1	172	0.028034	0.05058	-0.0714	0.12747

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	-1.4195	5.324698	-0.26658	0.7898	0	0	0
-1	-2	-2.0362	2.953256	-0.68948	0.4905	0	0	0
0	-1	-5.3700	5.835957	-0.92016	0.3575	0	0	0
1	-1	-6.3759	5.747498	-1.10933	0.2673	0	0	0
0	-2	-11.0947	6.397269	-1.73428	0.0829	0	0	0
1	-2	-11.7773	6.305122	-1.86789	0.0618	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5773.50	5226.00	222.058	1.820
-1	34	7137.50	6834.00	209.926	0.891
0	169	33687.5	33969.0	199.334	-0.466
1	172	34002.5	34572.0	197.689	-0.942

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
4.4682	3	0.2151

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	-2	-1	1	0
-2	-0.47467	0.16737	0.25377	0.26761
-1	0.16737	-0.41509	-0.32058	-0.30678
1	0.25377	-0.32058	-0.18455	-0.17110
0	0.26761	-0.30678	-0.17110	-0.18618

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
-2 A	0.64192308
-1 B	0.02867287

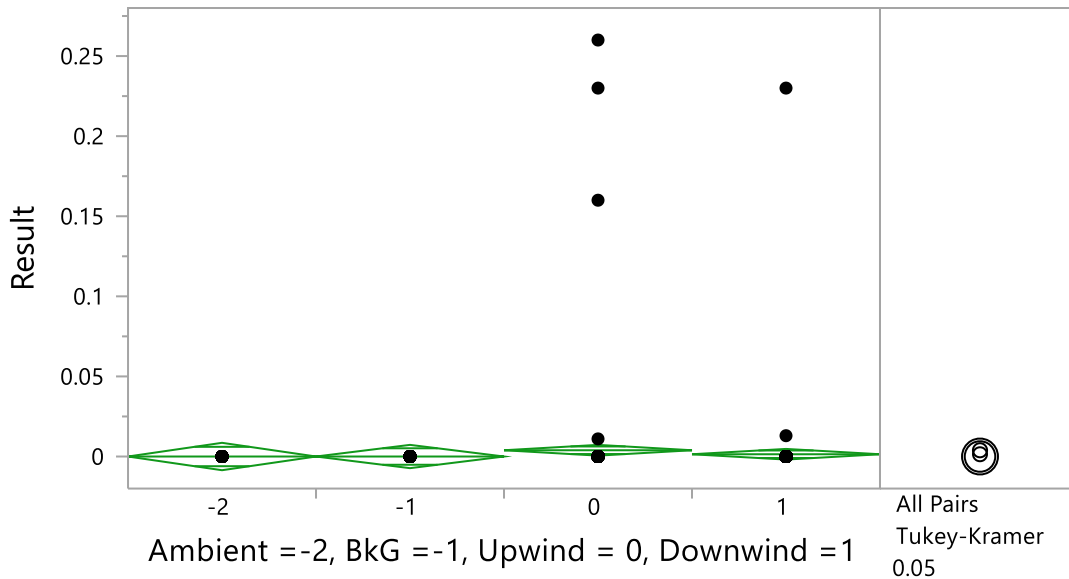
Level		Mean
1	B	0.02803411
0	B	0.01376876

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
-2	0	0.6281543	0.1397455	0.267614	0.988695	<.0001*
-2	1	0.6138890	0.1395829	0.253768	0.974010	<.0001*
-2	-1	0.6132502	0.1728224	0.167372	1.059128	0.0024*
-1	0	0.0149041	0.1246854	-0.306782	0.336590	0.9994
1	0	0.0142654	0.0718489	-0.171103	0.199634	0.9972
-1	1	0.0006388	0.1245032	-0.320577	0.321854	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Tetraethylene Glycol (mg/m3)



Missing Rows 186

Oneway Anova

Summary of Fit

Rsquare	0.004567
Adj Rsquare	-0.00292
Root Mean Square Error	0.022184
Mean of Response	0.002243
Observations (or Sum Wgts)	403

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.00090081	0.000300	0.6101	0.6087
Error	399	0.19636136	0.000492		
C. Total	402	0.19726217			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000000	0.00435	-0.0086	0.00855
-1	36	0.000000	0.00370	-0.0073	0.00727
0	169	0.003911	0.00171	0.00056	0.00727
1	172	0.001413	0.00169	-0.0019	0.00474

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
0	-1	2.40919	2.608967	0.923426	0.3558	0	0	0
0	-2	2.28550	2.919104	0.782947	0.4337	0	0	0
1	-1	1.19251	1.864603	0.639550	0.5225	0	0	0
1	-2	1.12903	2.088333	0.540635	0.5888	0	0	0
-1	-2	0.00000	0.000000	0.000000	1.0000	0	0	0
1	0	-2.05294	2.431627	-0.844268	0.3985	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5174.00	5252.00	199.000	-0.643
-1	36	7164.00	7272.00	199.000	-0.768
0	169	34437.5	34138.0	203.772	1.235
1	172	34630.5	34744.0	201.340	-0.466

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9491	3	0.5830

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57993	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	0	1	-2	-1
0	-0.00623	-0.00370	-0.00815	-0.00659
1	-0.00370	-0.00617	-0.01063	-0.00908
-2	-0.00815	-0.01063	-0.01587	-0.01473
-1	-0.00659	-0.00908	-0.01473	-0.01349

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
0 A	0.00391124
1 A	0.00141279

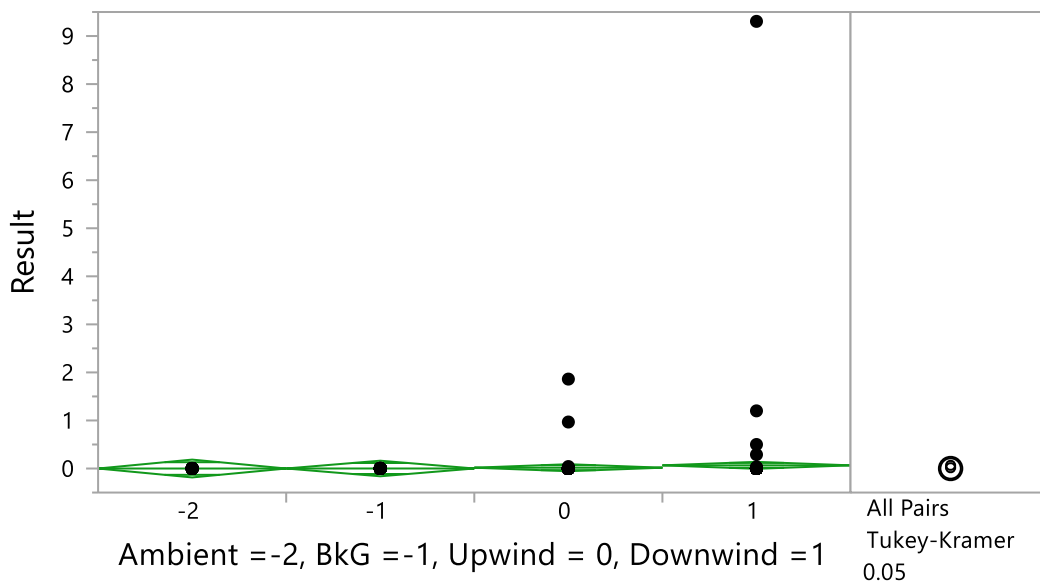
Level		Mean
-2	A	0.0000000
-1	A	0.0000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
0	-2	0.0039112	0.0046734	-0.008146	0.0159682	0.8368
0	-1	0.0039112	0.0040722	-0.006595	0.0144171	0.7720
0	1	0.0024985	0.0024028	-0.003701	0.0086974	0.7261
1	-2	0.0014128	0.0046679	-0.010630	0.0134557	0.9904
1	-1	0.0014128	0.0040659	-0.009077	0.0119025	0.9856
-1	-2	0.0000000	0.0057095	-0.014730	0.0147301	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Trichloroethene (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.003159
Adj Rsquare	-0.00437
Root Mean Square Error	0.481289
Mean of Response	0.035655
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.291387	0.097129	0.4193	0.7392
Error	397	91.960574	0.231639		
C. Total	400	92.251961			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.000165	0.09439	-0.1854	0.18573
-1	34	0.000635	0.08254	-0.1616	0.16291
0	169	0.017187	0.03702	-0.0556	0.08997
1	172	0.066088	0.03670	-0.0061	0.13823

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	-2	2.65653	4.986309	0.53276	0.5942	0	0	0
-1	-2	2.34163	2.180764	1.07377	0.2829	0	0	0
1	0	1.87111	4.348190	0.43032	0.6670	0	0	0
0	-2	1.48669	4.544207	0.32716	0.7435	0	0	0
1	-1	-5.23102	5.039984	-1.03790	0.2993	0	0	0
0	-1	-6.23556	4.685645	-1.33078	0.1833	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5096.50	5226.00	196.019	-0.539
-1	34	7195.00	6834.00	211.618	1.331
0	169	33666.0	33969.0	199.207	-0.630
1	172	34643.5	34572.0	201.416	0.147

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.1410	3	0.5437

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	0	-1	-2
1		-0.13390	-0.08559	-0.16760
0	-0.13390		-0.21684	-0.24456
-1	-0.16760	-0.21684		-0.32303
-2	-0.19536	-0.24456	-0.32303	

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.06608774
0 A	0.01718664

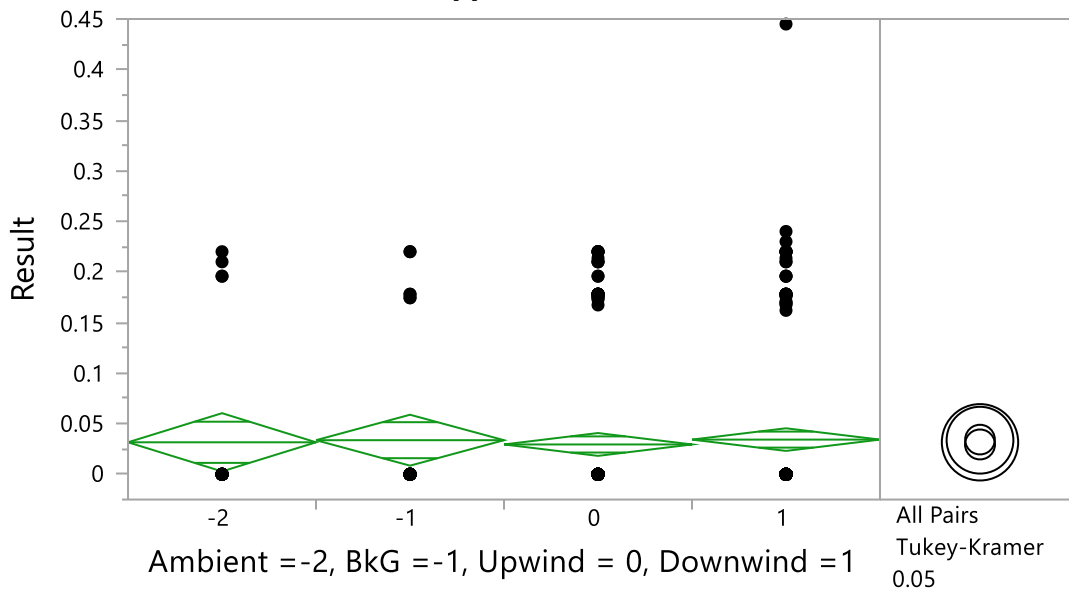
Level		Mean
-1	A	0.00063493
-2	A	0.00016463

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	-2	0.0659231	0.1012715	-0.195355	0.3272016	0.9152
1	-1	0.0654528	0.0903307	-0.167599	0.2985043	0.8872
1	0	0.0489011	0.0521285	-0.085589	0.1833916	0.7844
0	-2	0.0170220	0.1013895	-0.244561	0.2786048	0.9983
0	-1	0.0165517	0.0904630	-0.216841	0.2499443	0.9978
-1	-2	0.0004703	0.1253877	-0.323028	0.3239682	1.0000

Oneway Analysis of Result By Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1 Analyte (Units)=Trichlorofluoromethane (ppb v/v)



Missing Rows 188

Oneway Anova

Summary of Fit

Rsquare	0.000935
Adj Rsquare	-0.00661
Root Mean Square Error	0.074643
Mean of Response	0.032014
Observations (or Sum Wgts)	401

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Ambient = -2, BkG = -1, Upwind = 0, Downwind = 1	3	0.0020697	0.000690	0.1238	0.9460
Error	397	2.2119385	0.005572		
C. Total	400	2.2140083			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
-2	26	0.031600	0.01464	0.00282	0.06038
-1	34	0.033673	0.01280	0.00851	0.05884
0	169	0.029459	0.00574	0.01817	0.04075
1	172	0.034261	0.00569	0.02307	0.04545

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1	0	2.91518	6.835938	0.426449	0.6698	0	0	0
1	-2	0.81910	7.825145	0.104675	0.9166	0	0	0
-1	-2	0.30543	2.952769	0.103438	0.9176	0	0	0
1	-1	-0.44032	7.318389	-0.060166	0.9520	0	0	0
0	-2	-0.95414	7.462949	-0.127851	0.8983	0	0	0
0	-1	-2.13740	7.001486	-0.305278	0.7602	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
-2	26	5224.00	5226.00	200.923	-0.004
-1	34	6913.00	6834.00	203.324	0.189
0	169	33637.0	33969.0	199.036	-0.451
1	172	34827.0	34572.0	202.483	0.345

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2196	3	0.9744

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.57998	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	1	-1	-2	0
1		-0.02077	-0.03556	-0.03786
-1			-0.04671	-0.04810
-2				-0.05341
0				

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
1 A	0.03426051
-1 A	0.03367287

Level		Mean
-2	A	0.03159995
0	A	0.02945852

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
1	0	0.0048020	0.0080846	-0.016056	0.0256602	0.9339
-1	0	0.0042144	0.0140300	-0.031983	0.0404114	0.9906
1	-2	0.0026606	0.0157063	-0.037861	0.0431824	0.9983
-2	0	0.0021414	0.0157246	-0.038428	0.0427105	0.9991
-1	-2	0.0020729	0.0194465	-0.048099	0.0522444	0.9996
1	-1	0.0005876	0.0140095	-0.035556	0.0367318	1.0000