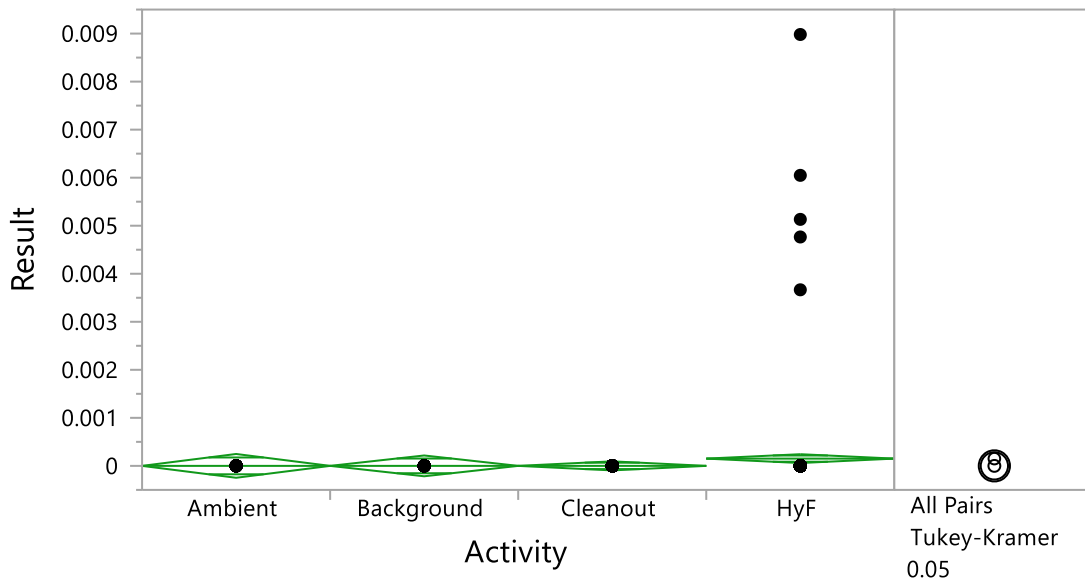


**APPENDIX E**

Tier 4 (<30% detected) only. Analytes that are significantly different concentration between locations or events identified as ambient, background, cleanout, and HyF. 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, cleanout, and HyF by Tukey-Kramer HSD test for all pairs and the Wilcoxon paired comparison test.

**Oneway Analysis of Result By Activity Analyte (Units)=1,1,1,-Trichloroethane (ppb v/v)**



Missing Rows 160

**Oneway Anova**

**Summary of Fit**

Rsquare 0.013609  
 Adj Rsquare 0.006646  
 Root Mean Square Error 0.000642  
 Mean of Response 6.665e-5  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000242	8.0661e-7	1.9545	0.1202
Error	425	0.00017540	4.127e-7		
C. Total	428	0.00017782			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00013	-0.0002	0.00025
Background	34	0.000000	0.00011	-0.0002	0.00022
Cleanout	180	0.000000	4.79e-5	-0.0001	9.41e-5
HyF	189	0.000151	4.67e-5	0.00006	0.00024

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
HyF	Cleanout	4.875529	2.224610	2.191633	0.0284*	0	0	0
HyF	Background	2.932384	3.082315	0.951358	0.3414	0	0	0
HyF	Ambient	2.822039	3.397169	0.830703	0.4061	0	0	0
Background	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
Cleanout	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
Cleanout	Background	0.000000	0.000000	0.000000	1.0000	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5525.00	5590.00	212.500	-0.566
Background	34	7225.00	7310.00	212.500	-0.655
Cleanout	180	38250.0	38700.0	212.500	-1.908
HyF	189	41235.0	40635.0	218.175	2.529

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
6.4088	3	0.0933

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00017	-0.00020	-0.00016	-0.00002
Ambient	-0.00020	-0.00046	-0.00043	-0.00035
Background	-0.00016	-0.00043	-0.00040	-0.00031
Cleanout	-0.00002	-0.00035	-0.00031	-0.00017

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

Level	Mean
HyF	A 0.00015128

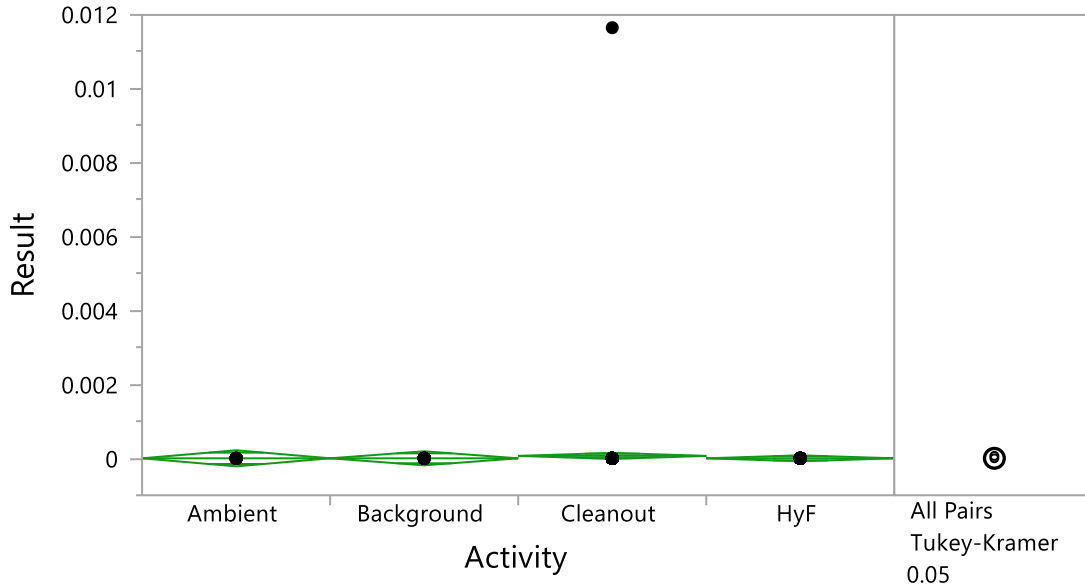
Level		Mean
Ambient	A	0.00000000
Background	A	0.00000000
Cleanout	A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0001513	0.0001344	-0.000195	0.0004979	0.6738
HyF	Background	0.0001513	0.0001197	-0.000157	0.0004600	0.5863
HyF	Cleanout	0.0001513	0.0000669	-0.000021	0.0003238	0.1089
Background	Ambient	0.0000000	0.0001674	-0.000432	0.0004317	1.0000
Cleanout	Ambient	0.0000000	0.0001348	-0.000348	0.0003476	1.0000
Cleanout	Background	0.0000000	0.0001201	-0.000310	0.0003098	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,1,2,2-Tetrachloroethane (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.003232
Adj Rsquare	-0.0038
Root Mean Square Error	0.000564
Mean of Response	2.717e-5
Observations (or Sum Wgts)	429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000044	1.4598e-7	0.4594	0.7108
Error	425	0.00013506	3.1779e-7		
C. Total	428	0.00013550			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00011	-0.0002	0.00022
Background	34	0.000000	0.0001	-0.0002	0.00019
Cleanout	180	0.000065	4.2e-5	-1.8e-5	0.00015
HyF	189	0.000000	4.1e-5	-0.0001	0.00008

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
Cleanout	Background	0.57696	1.367754	0.42183	0.6731	0	0	0
Cleanout	Ambient	0.55021	1.505616	0.36544	0.7148	0	0	0
Background	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	-1.01958	1.000298	-1.01927	0.3081	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38824.5	38700.0	215.692	1.171
HyF	189	40540.5	40635.0	214.500	-0.883

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3833	3	0.7094

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	Background	HyF
Cleanout	-0.00015	-0.00024	-0.00021	-0.00009
Ambient	-0.00024	-0.00040	-0.00038	-0.00030
Background	-0.00021	-0.00038	-0.00035	-0.00027
HyF	-0.00009	-0.00030	-0.00027	-0.00015

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

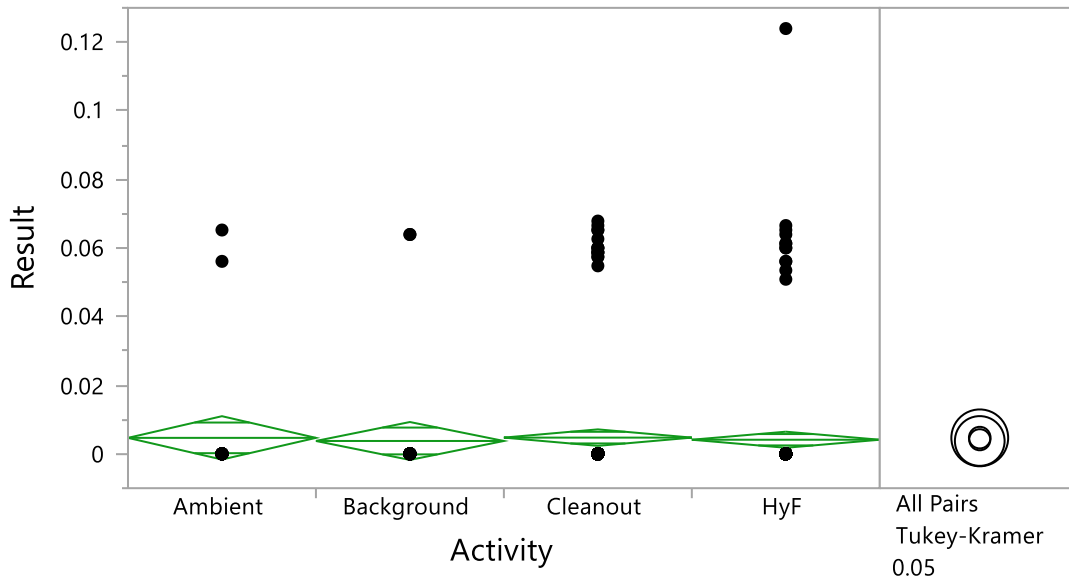
Level		Mean
Cleanout	A	0.00006474
Ambient	A	0.00000000
Background	A	0.00000000
HyF	A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0000647	0.0001183	-0.000240	0.0003698	0.9472
Cleanout	Background	0.0000647	0.0001054	-0.000207	0.0003366	0.9275
Cleanout	HyF	0.0000647	0.0000587	-0.000087	0.0002162	0.6880
Background	Ambient	0.0000000	0.0001469	-0.000379	0.0003788	1.0000
HyF	Ambient	0.0000000	0.0001179	-0.000304	0.0003041	1.0000
HyF	Background	0.0000000	0.0001050	-0.000271	0.0002709	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,1,2-Trichloro-1,2,2-Trifluoroethane (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.000449
Adj Rsquare	-0.00661
Root Mean Square Error	0.016386
Mean of Response	0.004386
Observations (or Sum Wgts)	429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00005123	0.000017	0.0636	0.9790

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Error	425	0.11411822	0.000269		
C. Total	428	0.11416945			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.004668	0.00321	-0.0016	0.01098
Background	34	0.003761	0.00281	-0.0018	0.00928
Cleanout	180	0.004741	0.00122	0.0023	0.00714
HyF	189	0.004122	0.00119	0.0018	0.00646

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
Cleanout	Background	1.80082	5.280062	0.341060	0.7331	0	0	0
HyF	Background	0.32968	5.053161	0.065242	0.9480	0	0	0
Cleanout	Ambient	0.15406	5.804118	0.026543	0.9788	0	0	0
Background	Ambient	-0.50905	1.967360	-0.258748	0.7958	0	0	0
HyF	Ambient	-1.44383	5.565029	-0.259448	0.7953	0	0	0
HyF	Cleanout	-2.64656	4.928565	-0.536984	0.5913	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5627.50	5590.00	216.442	0.137
Background	34	7240.00	7310.00	212.941	-0.227
Cleanout	180	39000.5	38700.0	216.669	0.535
HyF	189	40367.0	40635.0	213.582	-0.475

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3594	3	0.9485

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	HyF	Background
Cleanout	-0.00446	-0.00879	-0.00378	-0.00692
Ambient	-0.00879	-0.01172	-0.00829	-0.01010
HyF	-0.00378	-0.00829	-0.00435	-0.00751
Background	-0.00692	-0.01010	-0.00751	-0.01025

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

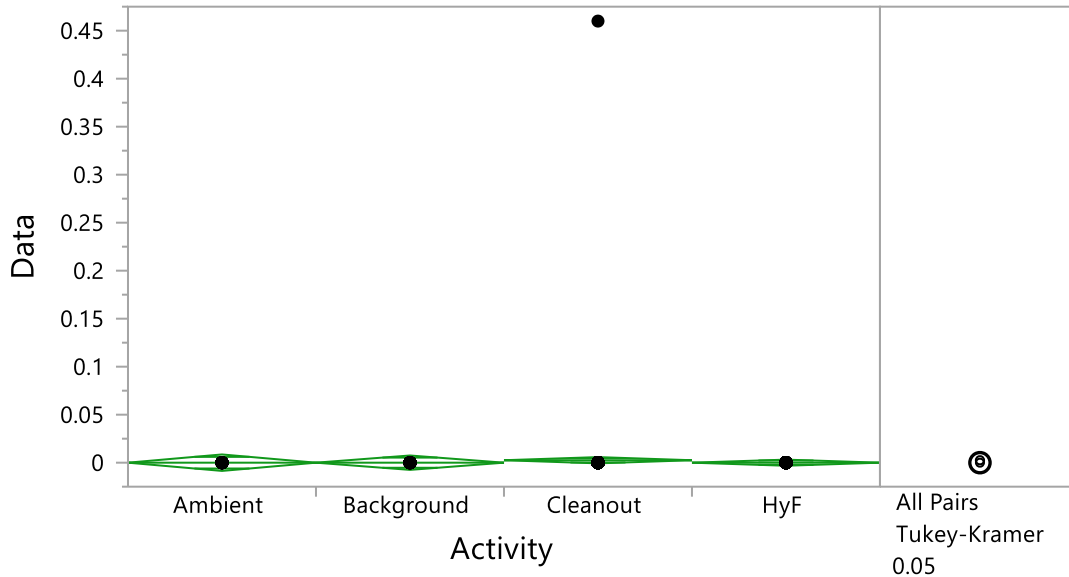
Level		Mean
Cleanout	A	0.00474115
Ambient	A	0.00466754
HyF	A	0.00412184
Background	A	0.00376120

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Background	0.0009800	0.0030642	-0.006923	0.0088833	0.9887
Ambient	Background	0.0009063	0.0042691	-0.010105	0.0119174	0.9966
Cleanout	HyF	0.0006193	0.0017066	-0.003782	0.0050211	0.9836
Ambient	HyF	0.0005457	0.0034276	-0.008295	0.0093863	0.9986
HyF	Background	0.0003606	0.0030526	-0.007513	0.0082340	0.9994
Cleanout	Ambient	0.0000736	0.0034379	-0.008794	0.0089409	1.0000

### Oneway Analysis of Data By Activity Analyte (Units)= 1,1,2-Trichloroethane (ppb v/v)



Missing Rows 180

### Oneway Anova

#### Summary of Fit

Rsquare	0.003232
Adj Rsquare	-0.0038
Root Mean Square Error	0.022251
Mean of Response	0.001072
Observations (or Sum Wgts)	429

## Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00068232	0.000227	0.4594	0.7108
Error	425	0.21042444	0.000495		
C. Total	428	0.21110676			

## Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00436	-0.0086	0.00858
Background	34	0.000000	0.00382	-0.0075	0.00750
Cleanout	180	0.002556	0.00166	-0.0007	0.00582
HyF	189	0.000000	0.00162	-0.0032	0.00318

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
Cleanout	Background	0.57696	1.367754	0.42183	0.6731	0	0	0
Cleanout	Ambient	0.55021	1.505616	0.36544	0.7148	0	0	0
Background	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	-1.01958	1.000298	-1.01927	0.3081	0	0	0

## Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38824.5	38700.0	215.692	1.171
HyF	189	40540.5	40635.0	214.500	-0.883

## 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3833	3	0.7094

## Means Comparisons

### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

## HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	Background	HyF
Cleanout	-0.00605	-0.00949	-0.00818	-0.00342
Ambient	-0.00949	-0.01592	-0.01495	-0.01200



	Cleanout	Ambient	Background	HyF
Background	-0.00818	-0.01495	-0.01392	-0.01069
HyF	-0.00342	-0.01200	-0.01069	-0.00590

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

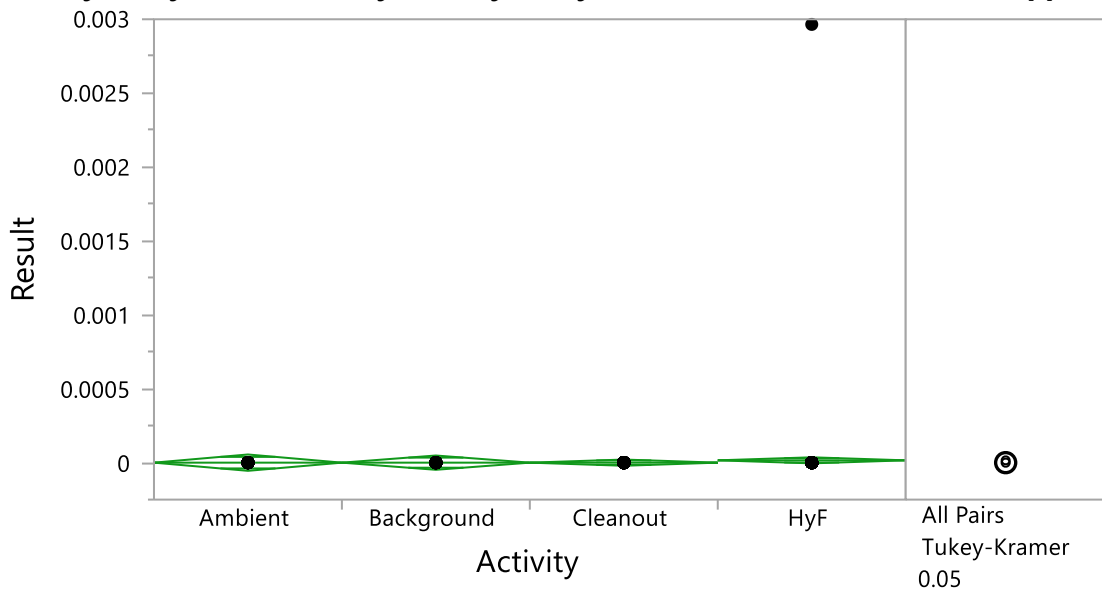
Level	Mean
Cleanout A	0.00255556
Ambient A	0.00000000
Background A	0.00000000
HyF A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0025556	0.0046684	-0.009485	0.0145965	0.9472
Cleanout	Background	0.0025556	0.0041609	-0.008176	0.0132875	0.9275
Cleanout	HyF	0.0025556	0.0023174	-0.003422	0.0085327	0.6880
Background	Ambient	0.0000000	0.0057970	-0.014952	0.0149520	1.0000
HyF	Ambient	0.0000000	0.0046543	-0.012005	0.0120047	1.0000
HyF	Background	0.0000000	0.0041451	-0.010691	0.0106913	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,1-Dichloroethane (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.002967
Adj Rsquare	-0.00407
Root Mean Square Error	0.000143
Mean of Response	6.912e-6
Observations (or Sum Wgts)	429

## Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	2.60244e-8	8.6748e-9	0.4216	0.7376
Error	425	8.7455e-6	2.0578e-8		
C. Total	428	8.77153e-6			

## Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	2.81e-5	-0.0001	5.53e-5
Background	34	0.000000	2.46e-5	-4.8e-5	4.84e-5
Cleanout	180	0.000000	0.00001	-2.1e-5	2.1e-5
HyF	189	0.000016	0.00001	-4.8e-6	3.62e-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
HyF	Cleanout	0.9707672	1.000298	0.9704784	0.3318	0	0	0
HyF	Background	0.5725957	1.390928	0.4116647	0.6806	0	0	0
HyF	Ambient	0.5469068	1.533525	0.3566337	0.7214	0	0	0
Background	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Background	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
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38610.0	38700.0	214.500	-0.846
HyF	189	40755.0	40635.0	215.635	1.122

## 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.2698	3	0.7363

## Means Comparisons

### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

## HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00004	-0.00006	-0.00005	-0.00002

	HyF	Ambient	Background	Cleanout
Ambient	-0.00006	-0.00010	-0.00010	-0.00008
Background	-0.00005	-0.00010	-0.00009	-0.00007
Cleanout	-0.00002	-0.00008	-0.00007	-0.00004

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

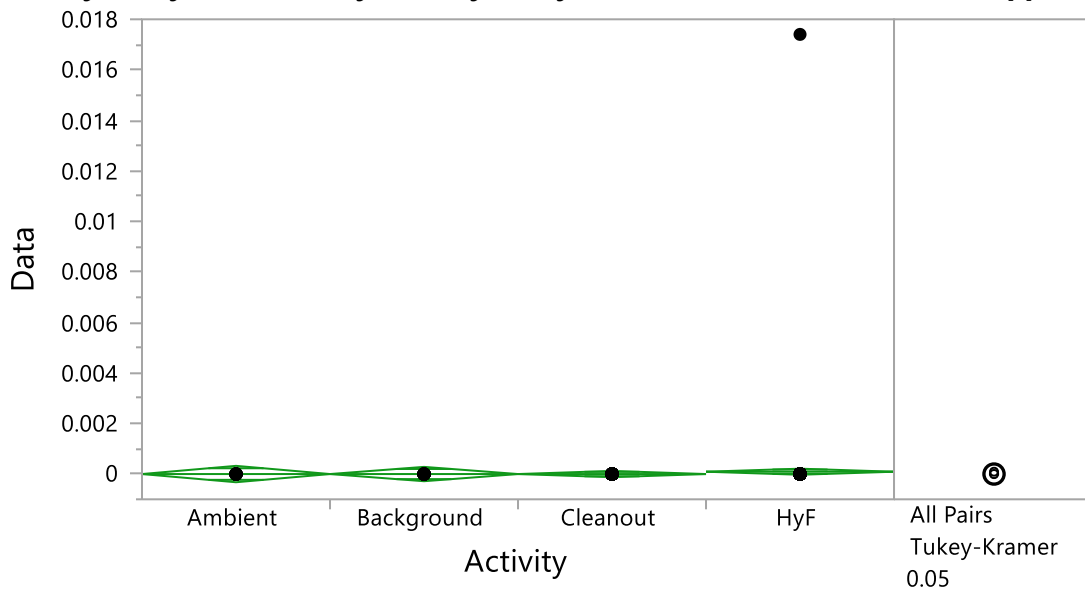
Level	Mean
HyF	0.00001569
Ambient	0.00000000
Background	0.00000000
Cleanout	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0000157	0.0000300	-0.000062	0.0000931	0.9536
HyF	Background	0.0000157	0.0000267	-0.000053	0.0000846	0.9360
HyF	Cleanout	0.0000157	0.0000149	-0.000023	0.0000542	0.7200
Background	Ambient	0.0000000	0.0000374	-0.000096	0.0000964	1.0000
Cleanout	Ambient	0.0000000	0.0000301	-0.000078	0.0000776	1.0000
Cleanout	Background	0.0000000	0.0000268	-0.000069	0.0000692	1.0000

### Oneway Analysis of Data By Activity Analyte (Units)=1,1-Dichloroethene (ppb v/v)



Missing Rows 180

### Oneway Anova

#### Summary of Fit

Rsquare	0.002967
Adj Rsquare	-0.00407
Root Mean Square Error	0.000842
Mean of Response	4.057e-5

Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000090	2.9883e-7	0.4216	0.7376
Error	425	0.00030126	7.0885e-7		
C. Total	428	0.00030216			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00017	-0.0003	0.00032
Background	34	0.000000	0.00014	-0.0003	0.00028
Cleanout	180	0.000000	6.28e-5	-0.0001	0.00012
HyF	189	0.000092	6.12e-5	-2.8e-5	0.00021

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
HyF	Cleanout	0.9707672	1.000298	0.9704784	0.3318	0	0	0
HyF	Background	0.5725957	1.390928	0.4116647	0.6806	0	0	0
HyF	Ambient	0.5469068	1.533525	0.3566337	0.7214	0	0	0
Background	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Background	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
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38610.0	38700.0	214.500	-0.846
HyF	189	40755.0	40635.0	215.635	1.122

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.2698	3	0.7363

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00022	-0.00036	-0.00031	-0.00013
Ambient	-0.00036	-0.00060	-0.00057	-0.00046
Background	-0.00031	-0.00057	-0.00053	-0.00041
Cleanout	-0.00013	-0.00046	-0.00041	-0.00023

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

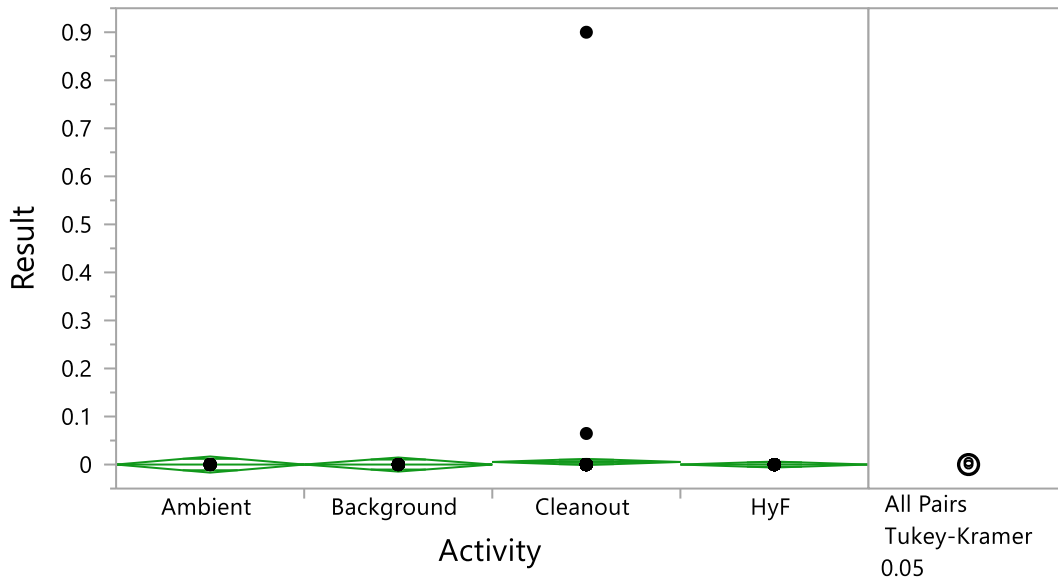
Level	Mean
HyF	0.00009208
Ambient	0.00000000
Background	0.00000000
Cleanout	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0000921	0.0001761	-0.000362	0.0005463	0.9536
HyF	Background	0.0000921	0.0001568	-0.000312	0.0004966	0.9360
HyF	Cleanout	0.0000921	0.0000877	-0.000134	0.0003182	0.7200
Background	Ambient	0.0000000	0.0002193	-0.000566	0.0005657	1.0000
Cleanout	Ambient	0.0000000	0.0001766	-0.000456	0.0004556	1.0000
Cleanout	Background	0.0000000	0.0001574	-0.000406	0.0004061	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,2,4-Trichlorobenzene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.003696
Adj Rsquare	-0.00334
Root Mean Square Error	0.04363

Mean of Response 0.002249  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00300081	0.001000	0.5255	0.6650
Error	425	0.80901376	0.001904		
C. Total	428	0.81201457			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00856	-0.0168	0.01682
Background	34	0.000000	0.00748	-0.0147	0.01471
Cleanout	180	0.005359	0.00325	-0.0010	0.01175
HyF	189	0.000000	0.00317	-0.0062	0.00624

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
Cleanout	Background	1.17141	1.929772	0.60702	0.5438	0	0	0
Cleanout	Ambient	1.12244	2.124089	0.52843	0.5972	0	0	0
Background	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	-2.04458	1.412716	-1.44727	0.1478	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5564.00	5590.00	214.000	-0.353
Background	34	7276.00	7310.00	214.000	-0.409
Cleanout	180	38949.0	38700.0	216.383	1.662
HyF	189	40446.0	40635.0	214.000	-1.253

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.7731	3	0.4279

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	Background	HyF
Cleanout	-0.01186	-0.01825	-0.01568	-0.00636
Ambient	-0.01825	-0.03121	-0.02932	-0.02354
Background	-0.01568	-0.02932	-0.02729	-0.02096
HyF	-0.00636	-0.02354	-0.02096	-0.01158

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

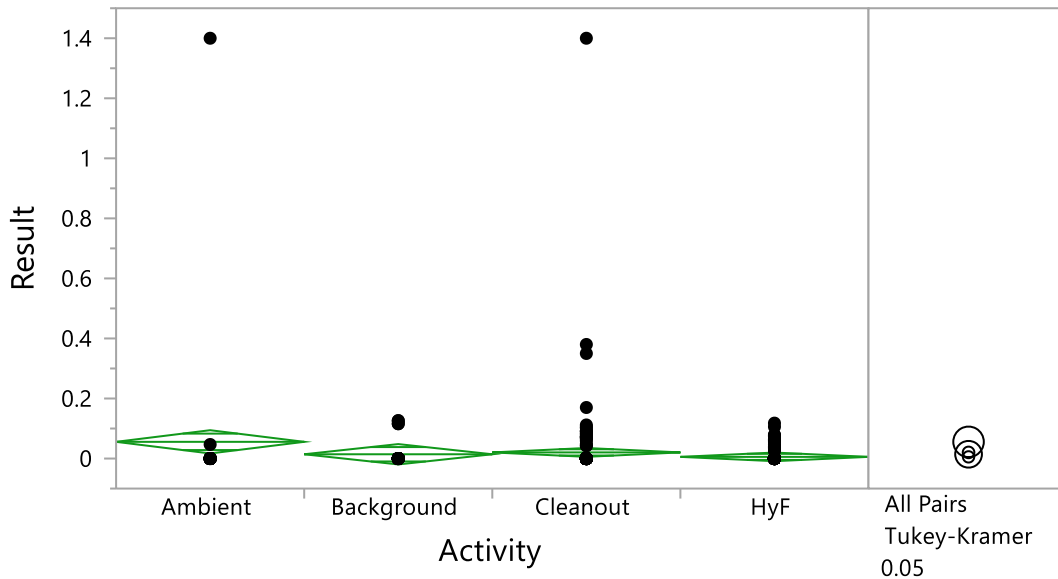
Level	Mean
Cleanout A	0.00535935
Ambient A	0.00000000
Background A	0.00000000
HyF A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0053593	0.0091536	-0.018250	0.0289690	0.9364
Cleanout	Background	0.0053593	0.0081586	-0.015684	0.0264025	0.9131
Cleanout	HyF	0.0053593	0.0045439	-0.006361	0.0170793	0.6402
Background	Ambient	0.0000000	0.0113667	-0.029318	0.0293176	1.0000
HyF	Ambient	0.0000000	0.0091261	-0.023539	0.0235386	1.0000
HyF	Background	0.0000000	0.0081277	-0.020963	0.0209634	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,2,4-Trimethylbenzene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.014899
Adj Rsquare	0.007945
Root Mean Square Error	0.100536

Mean of Response 0.015519  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0649672	0.021656	2.1426	0.0942
Error	425	4.2956548	0.010107		
C. Total	428	4.3606219			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.055646	0.01972	0.0169	0.09440
Background	34	0.014239	0.01724	-0.0197	0.04813
Cleanout	180	0.020417	0.00749	0.0057	0.03515
HyF	189	0.005564	0.00731	-0.0088	0.01994

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
Cleanout	Ambient	4.57778	6.967613	0.65701	0.5112	0	0	0
Background	Ambient	1.18778	2.368523	0.50149	0.6160	0	0	0
HyF	Ambient	1.13757	6.406278	0.17757	0.8591	0	0	0
Cleanout	Background	-0.47206	6.570415	-0.07185	0.9427	0	0	0
HyF	Background	-4.18168	6.090014	-0.68665	0.4923	0	0	0
HyF	Cleanout	-6.96349	5.927827	-1.17471	0.2401	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5441.00	5590.00	209.269	-0.456
Background	34	7463.00	7310.00	219.500	0.413
Cleanout	180	39433.0	38700.0	219.072	1.087
HyF	189	39898.0	40635.0	211.101	-1.086

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
1.7023	3	0.6364

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD



	Ambient	Cleanout	Background	HyF
Ambient	-0.07192	-0.01917	-0.02615	-0.00416
Cleanout	-0.01917	-0.02733	-0.04231	-0.01215
Background	-0.02615	-0.04231	-0.06289	-0.03963
HyF	-0.00416	-0.01215	-0.03963	-0.02667

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

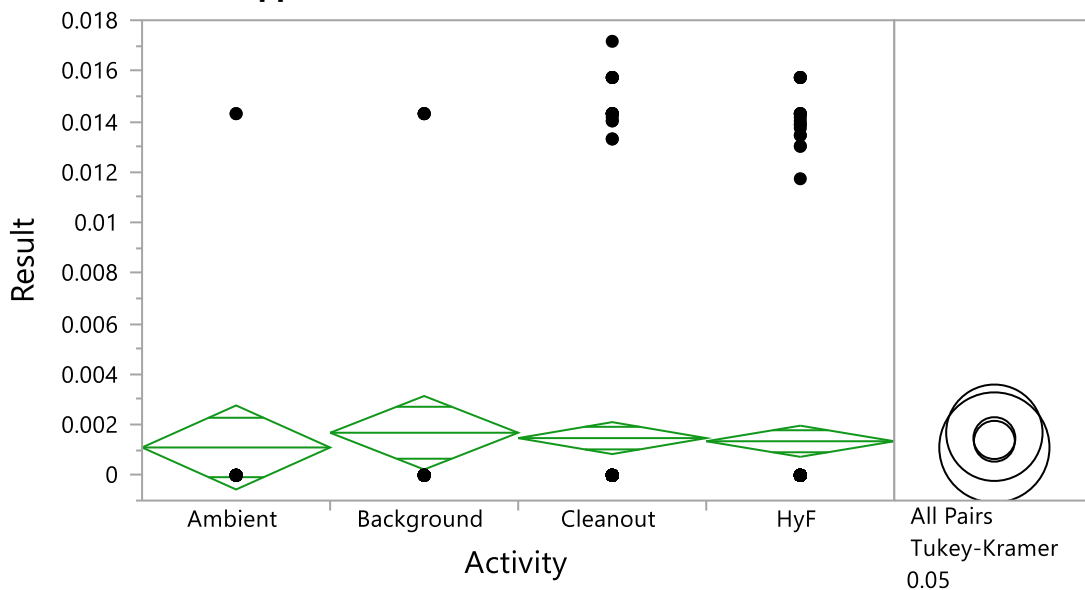
Level	Mean	
Ambient	A	0.05564556
Cleanout	A	0.02041699
Background	A	0.01423877
HyF	A	0.00556421

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.0500814	0.0210292	-0.004158	0.1043210	0.0822
Ambient	Background	0.0414068	0.0261921	-0.026149	0.1089630	0.3906
Ambient	Cleanout	0.0352286	0.0210926	-0.019175	0.0896320	0.3408
Cleanout	HyF	0.0148528	0.0104705	-0.012153	0.0418589	0.4884
Background	HyF	0.0086746	0.0187285	-0.039631	0.0569802	0.9670
Cleanout	Background	0.0061782	0.0187997	-0.042311	0.0546676	0.9877

### Oneway Analysis of Result By Activity Analyte (Units)=1,2-Dichloro-1,1,2,2-Tetrafluoroethane (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare 0.000817  
Adj Rsquare -0.00624

Root Mean Square Error      0.004311  
 Mean of Response              0.00141  
 Observations (or Sum Wgts)    429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000646	2.153e-6	0.1158	0.9508
Error	425	0.00789836	0.000019		
C. Total	428	0.00790482			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.001100	0.00085	-0.0006	0.00276
Background	34	0.001683	0.00074	0.00023	0.00314
Cleanout	180	0.001471	0.00032	0.00084	0.00210
HyF	189	0.001346	0.00031	0.00073	0.00196

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
Cleanout	Ambient	2.39893	6.423638	0.373454	0.7088	0	0	0
HyF	Ambient	1.68447	6.556609	0.256912	0.7972	0	0	0
Background	Ambient	1.18778	2.364513	0.502337	0.6154	0	0	0
HyF	Cleanout	-1.44259	5.718815	-0.252254	0.8008	0	0	0
Cleanout	Background	-1.80082	6.101176	-0.295159	0.7679	0	0	0
HyF	Background	-2.89768	6.218325	-0.465991	0.6412	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5478.00	5590.00	210.692	-0.353
Background	34	7464.00	7310.00	219.529	0.429
Cleanout	180	38836.5	38700.0	215.758	0.208
HyF	189	40456.5	40635.0	214.056	-0.271

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3554	3	0.9493

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Cleanout	HyF	Ambient
Background	-0.00270	-0.00187	-0.00173	-0.00231
Cleanout	-0.00187	-0.00117	-0.00103	-0.00196
HyF	-0.00173	-0.00103	-0.00114	-0.00208
Ambient	-0.00231	-0.00196	-0.00208	-0.00308

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

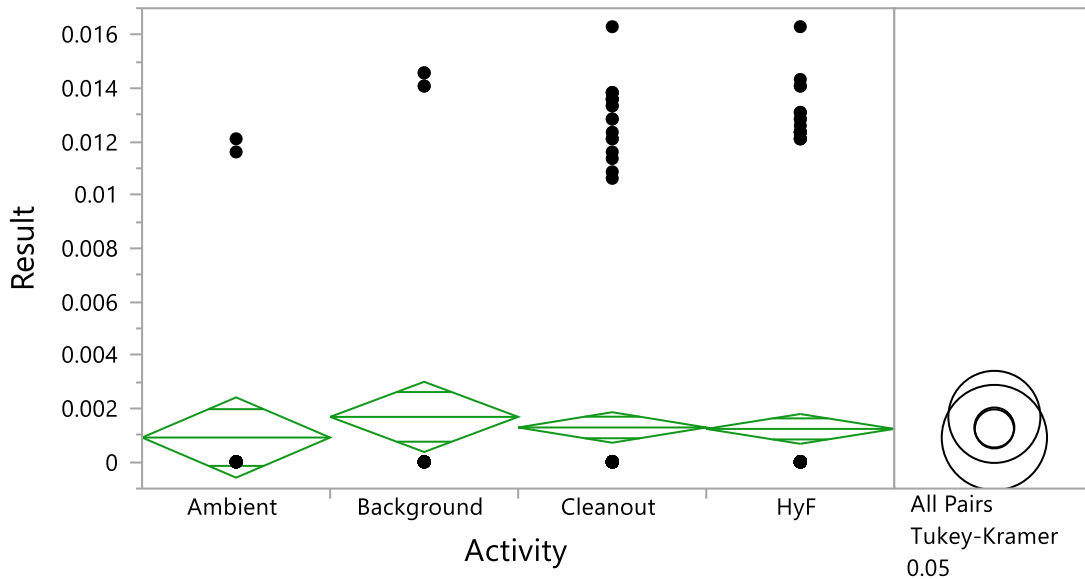
Level	Mean
Background A	0.00168293
Cleanout A	0.00147102
HyF A	0.00134648
Ambient A	0.00110038

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Ambient	0.0005826	0.0011231	-0.002314	0.0034794	0.9546
Cleanout	Ambient	0.0003706	0.0009045	-0.001962	0.0027035	0.9767
Background	HyF	0.0003365	0.0008031	-0.001735	0.0024078	0.9752
HyF	Ambient	0.0002461	0.0009017	-0.002080	0.0025719	0.9929
Background	Cleanout	0.0002119	0.0008061	-0.001867	0.0022911	0.9936
Cleanout	HyF	0.0001245	0.0004490	-0.001033	0.0012826	0.9925

### Oneway Analysis of Result By Activity Analyte (Units)=1,2-Dichloroethane (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.001466
Adj Rsquare	-0.00558
Root Mean Square Error	0.003901

Mean of Response 0.001274  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000949	3.165e-6	0.2079	0.8909
Error	425	0.00646879	0.000015		
C. Total	428	0.00647829			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000912	0.00077	-0.0006	0.00242
Background	34	0.001686	0.00067	0.00037	0.00300
Cleanout	180	0.001289	0.00029	0.00072	0.00186
HyF	189	0.001235	0.00028	0.00068	0.00179

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
Cleanout	Ambient	2.77308	6.424699	0.431628	0.6660	0	0	0
HyF	Ambient	2.64703	6.556648	0.403717	0.6864	0	0	0
Background	Ambient	1.45928	2.368523	0.616112	0.5378	0	0	0
HyF	Cleanout	-0.87315	5.719146	-0.152671	0.8787	0	0	0
Cleanout	Background	-2.98971	6.102717	-0.489898	0.6242	0	0	0
HyF	Background	-3.45293	6.218664	-0.555252	0.5787	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5443.50	5590.00	209.365	-0.462
Background	34	7518.00	7310.00	221.118	0.580
Cleanout	180	38758.5	38700.0	215.325	0.089
HyF	189	40515.0	40635.0	214.365	-0.182

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.5366	3	0.9108

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Background	Cleanout	HyF	Ambient
	<b>d</b>			
Background	-0.00244	-0.00148	-0.00142	-0.00185
Cleanout	-0.00148	-0.00106	-0.00099	-0.00173
HyF	-0.00142	-0.00099	-0.00104	-0.00178
Ambient	-0.00185	-0.00173	-0.00178	-0.00279

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

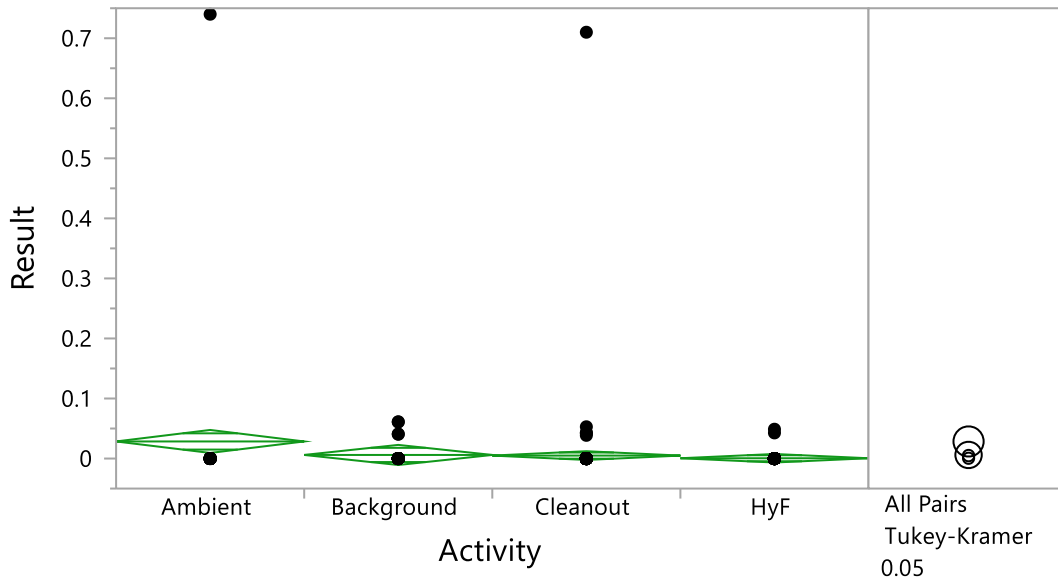
Level	Mean
Background A	0.00168606
Cleanout A	0.00128901
HyF A	0.00123547
Ambient A	0.00091235

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Ambient	0.0007737	0.0010164	-0.001848	0.0033953	0.8718
Background	HyF	0.0004506	0.0007268	-0.001424	0.0023251	0.9257
Background	Cleanout	0.0003970	0.0007295	-0.001485	0.0022787	0.9481
Cleanout	Ambient	0.0003767	0.0008185	-0.001735	0.0024878	0.9676
HyF	Ambient	0.0003231	0.0008161	-0.001782	0.0024279	0.9789
Cleanout	HyF	0.0000535	0.0004063	-0.000994	0.0011015	0.9992

### Oneway Analysis of Result By Activity Analyte (Units)=1,3,5-Trimethylbenzene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.016964
Adj Rsquare	0.010025
Root Mean Square Error	0.049656

Mean of Response 0.00448  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0180833	0.006028	2.4447	0.0635
Error	425	1.0479123	0.002466		
C. Total	428	1.0659956			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.028462	0.00974	0.0093	0.04760
Background	34	0.005983	0.00852	-0.0108	0.02272
Cleanout	180	0.004928	0.00370	-0.0023	0.01220
HyF	189	0.000484	0.00361	-0.0066	0.00758

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
Background	Ambient	2.2059	2.180764	1.01152	0.3118	0	0	0
Cleanout	Ambient	-1.1885	3.643239	-0.32621	0.7443	0	0	0
HyF	Ambient	-3.0189	2.643780	-1.14190	0.2535	0	0	0
HyF	Cleanout	-3.1672	2.625021	-1.20654	0.2276	0	0	0
Cleanout	Background	-9.5985	4.026661	-2.38374	0.0171*	0	0	0
HyF	Background	-11.9204	3.368859	-3.53841	0.0004*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5654.00	5590.00	217.462	0.363
Background	34	7962.00	7310.00	234.176	3.288
Cleanout	180	38690.0	38700.0	214.944	-0.026
HyF	189	39929.0	40635.0	211.265	-1.937

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
12.1972	3	0.0067*

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	Cleanout	HyF
Ambient	-0.03552	-0.01089	-0.00334	0.00119
Background	-0.01089	-0.03106	-0.02289	-0.01836
Cleanout	-0.00334	-0.02289	-0.01350	-0.00890
HyF	0.00119	-0.01836	-0.00890	-0.01317

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

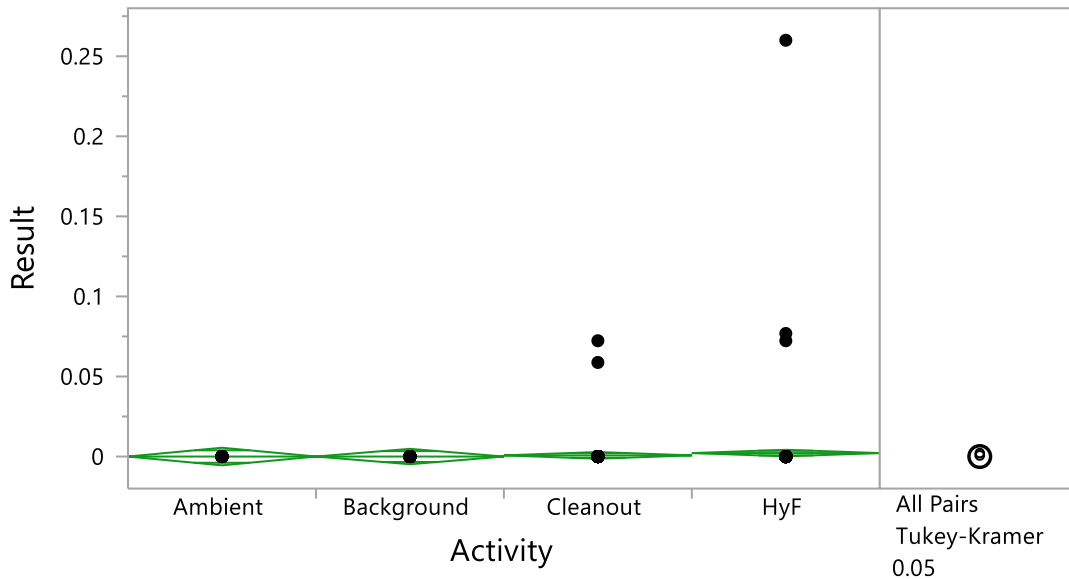
Level	Mean
Ambient	A 0.02846154
Background	A B 0.00598268
Cleanout	A B 0.00492760
HyF	B 0.00048431

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.0279772	0.0103865	0.001188	0.0547667	0.0368*
Ambient	Cleanout	0.0235339	0.0104179	-0.003336	0.0504043	0.1094
Ambient	Background	0.0224789	0.0129365	-0.010888	0.0558455	0.3055
Background	HyF	0.0054984	0.0092502	-0.018360	0.0293570	0.9337
Cleanout	HyF	0.0044433	0.0051715	-0.008895	0.0177819	0.8258
Background	Cleanout	0.0010551	0.0092854	-0.022894	0.0250045	0.9995

### Oneway Analysis of Result By Activity Analyte (Units)=1,3-Butadiene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.003469
Adj Rsquare	-0.00357
Root Mean Square Error	0.014261

Mean of Response 0.001259  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00030092	0.000100	0.4932	0.6872
Error	425	0.08643835	0.000203		
C. Total	428	0.08673927			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00280	-0.0055	0.00550
Background	34	0.000000	0.00245	-0.0048	0.00481
Cleanout	180	0.000728	0.00106	-0.0014	0.00282
HyF	189	0.002165	0.00104	0.00013	0.00420

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
HyF	Background	1.752490	2.398346	0.7307078	0.4650	0	0	0
HyF	Ambient	1.684473	2.643780	0.6371457	0.5240	0	0	0
Cleanout	Background	1.171405	1.929772	0.6070175	0.5438	0	0	0
Cleanout	Ambient	1.122436	2.124089	0.5284318	0.5972	0	0	0
HyF	Cleanout	0.900265	2.224607	0.4046848	0.6857	0	0	0
Background	Ambient	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
Ambient	26	5525.00	5590.00	212.500	-0.566
Background	34	7225.00	7310.00	212.500	-0.655
Cleanout	180	38676.5	38700.0	214.869	-0.098
HyF	189	40808.5	40635.0	215.918	0.730

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
1.0114	3	0.7985

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD



	HyF	Cleanout	Ambient	Background
HyF	-0.00378	-0.00239	-0.00553	-0.00469
Cleanout	-0.00239	-0.00388	-0.00699	-0.00615
Ambient	-0.00553	-0.00699	-0.01020	-0.00958
Background	-0.00469	-0.00615	-0.00958	-0.00892

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

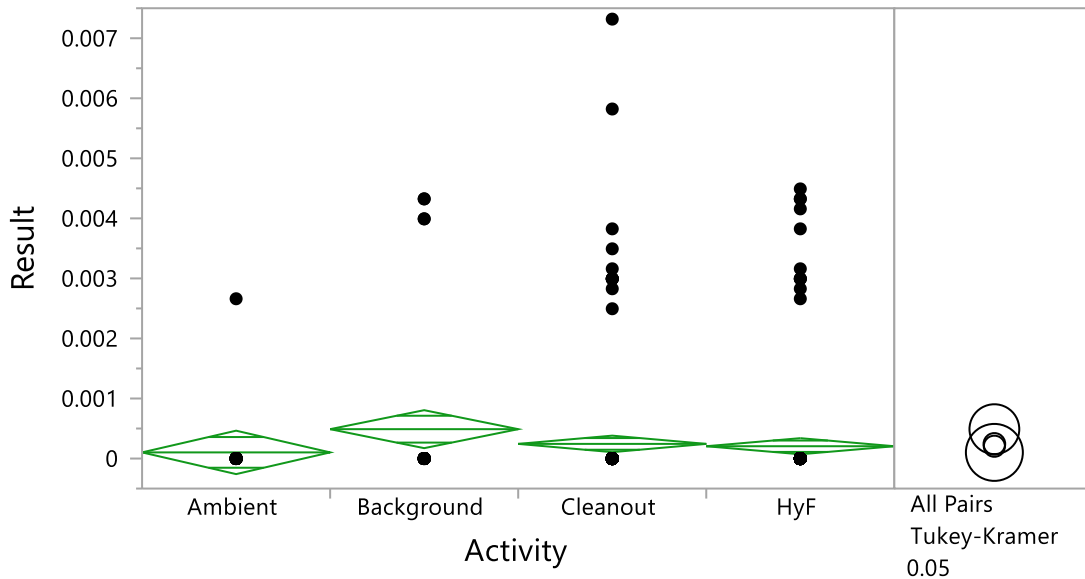
Level	Mean
HyF	0.00216491
Cleanout	0.00072826
Ambient	0.00000000
Background	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0021649	0.0029830	-0.005529	0.0098590	0.8868
HyF	Background	0.0021649	0.0026567	-0.004687	0.0090172	0.8474
HyF	Cleanout	0.0014366	0.0014853	-0.002394	0.0052675	0.7681
Cleanout	Ambient	0.0007283	0.0029921	-0.006989	0.0084456	0.9949
Cleanout	Background	0.0007283	0.0026668	-0.006150	0.0076066	0.9929
Background	Ambient	0.0000000	0.0037154	-0.009583	0.0095830	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=1,4-Dichlorobenzene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.007523
Adj Rsquare	0.000517
Root Mean Square Error	0.000938

Mean of Response 0.000238  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000284	9.451e-7	1.0739	0.3599
Error	425	0.00037404	8.801e-7		
C. Total	428	0.00037688			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000102	0.00018	-0.0003	0.00046
Background	34	0.000489	0.00016	0.00017	0.00081
Cleanout	180	0.000244	0.00007	0.00011	0.00038
HyF	189	0.000205	6.82e-5	0.00007	0.00034

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
Cleanout	Ambient	3.10321	5.270800	0.58875	0.5560	0	0	0
Background	Ambient	2.47738	2.180764	1.13601	0.2560	0	0	0
HyF	Ambient	2.31888	5.176720	0.44794	0.6542	0	0	0
HyF	Cleanout	-1.48056	4.654718	-0.31808	0.7504	0	0	0
Cleanout	Background	-5.99690	5.279976	-1.13578	0.2560	0	0	0
HyF	Background	-6.95791	5.218495	-1.33332	0.1824	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5428.50	5590.00	208.788	-0.614
Background	34	7720.00	7310.00	227.059	1.379
Cleanout	180	38736.0	38700.0	215.200	0.065
HyF	189	40350.5	40635.0	213.495	-0.520

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.2652	3	0.5192

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Cleanout	HyF	Ambient
Background	-0.00059	-0.00021	-0.00017	-0.00024
Cleanout	-0.00021	-0.00026	-0.00021	-0.00037
HyF	-0.00017	-0.00021	-0.00025	-0.00040
Ambient	-0.00024	-0.00037	-0.00040	-0.00067

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

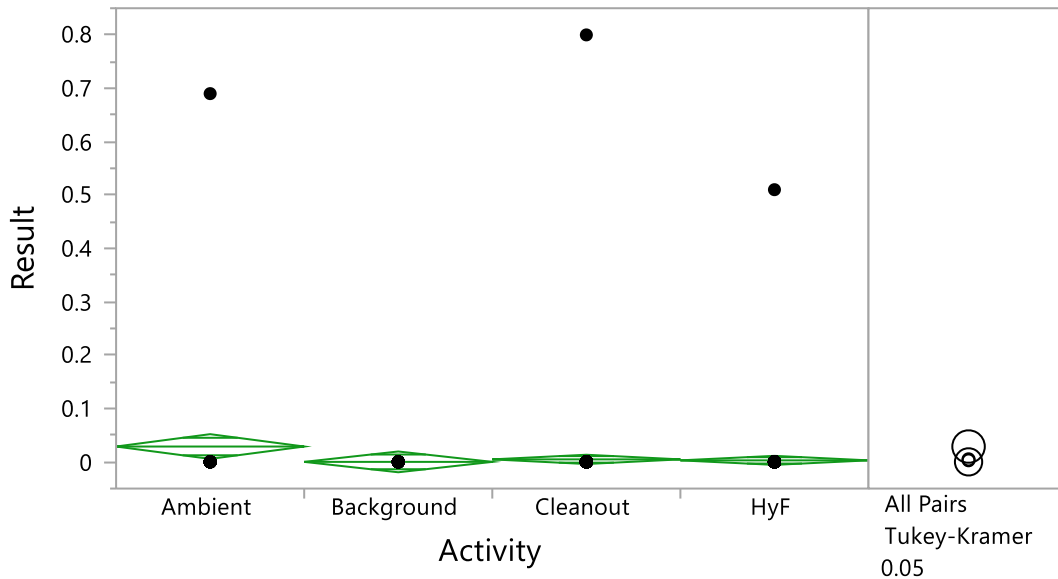
Level	Mean
Background A	0.00048920
Cleanout A	0.00024395
HyF A	0.00020505
Ambient A	0.00010235

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Ambient	0.0003868	0.0002444	-0.000244	0.0010172	0.3896
Background	HyF	0.0002841	0.0001748	-0.000167	0.0007349	0.3651
Background	Cleanout	0.0002453	0.0001754	-0.000207	0.0006977	0.5013
Cleanout	Ambient	0.0001416	0.0001968	-0.000366	0.0006492	0.8894
HyF	Ambient	0.0001027	0.0001962	-0.000403	0.0006088	0.9534
Cleanout	HyF	0.0000389	0.0000977	-0.000213	0.0002909	0.9786

### Oneway Analysis of Result By Activity Analyte (Units)=2,2,4-Trimethylpentane (ppb v/v)



Missing Rows 156

### Oneway Anova

#### Summary of Fit

Rsquare	0.011157
Adj Rsquare	0.003832
Root Mean Square Error	0.05776

Mean of Response 0.00489  
 Observations (or Sum Wgts) 409

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0152452	0.005082	1.5232	0.2079
Error	405	1.3511748	0.003336		
C. Total	408	1.3664200			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.028750	0.01179	0.0056	0.05193
Background	34	0.000000	0.00991	-0.0195	0.01947
Cleanout	171	0.004678	0.00442	-0.0040	0.01336
HyF	180	0.002833	0.00431	-0.0056	0.01130

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
Cleanout	Background	0.58179	1.344270	0.43279	0.6652	0	0	0
HyF	Background	0.57696	1.367754	0.42183	0.6731	0	0	0
HyF	Cleanout	-0.05132	1.412662	-0.03633	0.9710	0	0	0
Background	Ambient	-1.17279	1.015203	-1.15523	0.2480	0	0	0
Cleanout	Ambient	-3.44481	2.146839	-1.60460	0.1086	0	0	0
HyF	Ambient	-3.68333	2.189305	-1.68242	0.0925	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	5088.50	4920.00	212.021	2.023
Background	34	6919.00	6970.00	203.500	-0.518
Cleanout	171	35004.0	35055.0	204.702	-0.290
HyF	180	36833.5	36900.0	204.631	-0.376

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.2565	3	0.2351

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57976	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Ambient	Cleanout	HyF	Background
Ambient	-0.04301	-0.00841	-0.00646	-0.01098
Cleanout	-0.00841	-0.01611	-0.01407	-0.02330
HyF	-0.00646	-0.01407	-0.01571	-0.02503
Background	-0.01098	-0.02330	-0.02503	-0.03614

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

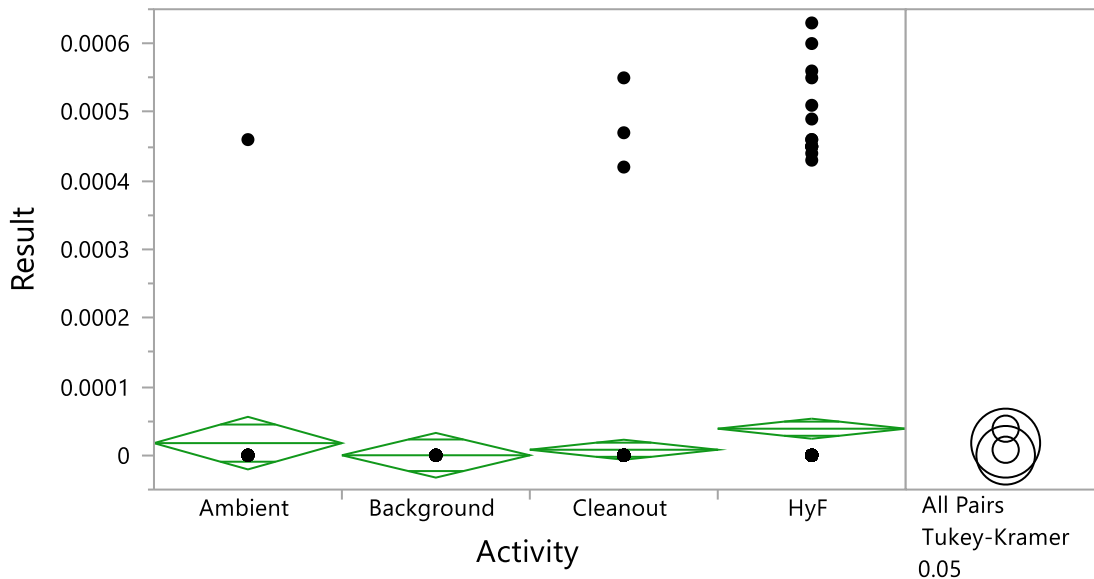
Level	Mean
Ambient A	0.02875000
Cleanout A	0.00467836
HyF A	0.00283333
Background A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Background	0.0287500	0.0153992	-0.010976	0.0684762	0.2440
Ambient	HyF	0.0259167	0.0125517	-0.006464	0.0582970	0.1665
Ambient	Cleanout	0.0240716	0.0125905	-0.008409	0.0565521	0.2246
Cleanout	Background	0.0046784	0.0108460	-0.023302	0.0326584	0.9731
HyF	Background	0.0028333	0.0108009	-0.025030	0.0306971	0.9937
Cleanout	HyF	0.0018450	0.0061680	-0.014067	0.0177571	0.9907

### Oneway Analysis of Result By Activity Analyte (Units)=2,5-Dimethyl Benzaldehyde (mg/m3)



Missing Rows 169

### Oneway Anova

#### Summary of Fit

Rsquare	0.024314
Adj Rsquare	0.017278

Root Mean Square Error 9.938e-5  
 Mean of Response 0.000021  
 Observations (or Sum Wgts) 420

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	1.02378e-7	3.4126e-8	3.4556	0.0165*
Error	416	4.10828e-6	9.8757e-9		
C. Total	419	4.21066e-6			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000018	0.00002	-2.1e-5	5.6e-5
Background	36	0.000000	1.66e-5	-3.3e-5	3.26e-5
Cleanout	179	8.045e-6	7.43e-6	-6.6e-6	2.26e-5
HyF	179	0.000039	7.43e-6	2.41e-5	5.33e-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
HyF	Cleanout	11.0223	4.031213	2.73425	0.0063*	0	0	0
HyF	Background	8.3911	4.859643	1.72670	0.0842	0	0	0
HyF	Ambient	4.0524	5.621128	0.72093	0.4710	0	0	0
Cleanout	Background	1.7850	2.308687	0.77316	0.4394	0	0	0
Background	Ambient	-1.1592	1.013267	-1.14401	0.2526	0	0	0
Cleanout	Ambient	-2.1804	2.982977	-0.73094	0.4648	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5448.50	5473.00	209.558	-0.114
Background	36	7254.00	7578.00	201.500	-1.324
Cleanout	179	36696.5	37679.5	205.008	-2.276
HyF	179	39011.0	37679.5	217.939	3.083

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
10.0536	3	0.0181*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57948	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Cleanout	Background
HyF	-0.00003	-0.00003	0.00000	-0.00001
Ambient	-0.00003	-0.00007	-0.00004	-0.00005
Cleanout	0.00000	-0.00004	-0.00003	-0.00004
Background	-0.00001	-0.00005	-0.00004	-0.00006

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

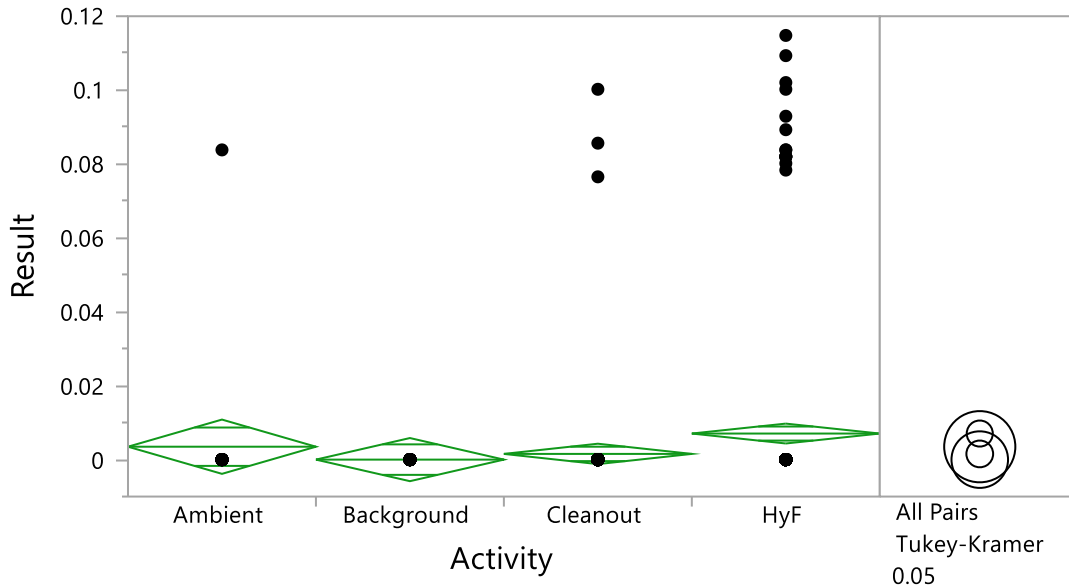
Level		Mean
HyF	A	0.00003872
Ambient	A B	0.00001769
Cleanout	B	0.00000804
Background	A B	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Background	0.0000387	0.0000182	-8.108e-6	0.0000855	0.1444
HyF	Cleanout	0.0000307	0.0000105	3.5744e-6	0.0000578	0.0193*
HyF	Ambient	0.0000210	0.0000209	-0.000033	0.0000748	0.7449
Ambient	Background	0.0000177	0.0000256	-0.000048	0.0000837	0.9002
Ambient	Cleanout	0.0000096	0.0000209	-0.000044	0.0000634	0.9671
Cleanout	Background	0.0000080	0.0000182	-0.000039	0.0000549	0.9709

### Oneway Analysis of Result By Activity Analyte (Units)=2,5-Dimethyl Benzaldehyde (ppb)



Missing Rows 152

### Oneway Anova

#### Summary of Fit

Rsquare	0.023678
Adj Rsquare	0.016482
Root Mean Square Error	0.018305

Mean of Response 0.003915  
 Observations (or Sum Wgts) 411

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00330730	0.001102	3.2902	0.0207*
Error	407	0.13636998	0.000335		
C. Total	410	0.13967728			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.003493	0.00374	-0.0039	0.01084
Background	38	0.000000	0.00297	-0.0058	0.00584
Cleanout	170	0.001544	0.00140	-0.0012	0.00430
HyF	179	0.007055	0.00137	0.0044	0.00974

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
HyF	Cleanout	10.5916	4.030190	2.62806	0.0086*	0	0	0
HyF	Background	8.4701	4.775392	1.77369	0.0761	0	0	0
HyF	Ambient	3.6858	5.791574	0.63640	0.5245	0	0	0
Cleanout	Background	1.8192	2.230401	0.81564	0.4147	0	0	0
Background	Ambient	-1.2577	1.026513	-1.22519	0.2205	0	0	0
Cleanout	Ambient	-2.2824	3.013695	-0.75733	0.4489	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	4933.00	4944.00	205.542	-0.052
Background	38	7486.00	7828.00	197.000	-1.381
Cleanout	170	34104.5	35020.0	200.615	-2.176
HyF	179	38142.5	36874.0	213.087	2.995

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
9.5845	3	0.0224*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57971	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	HyF	Ambient	Cleanout	Background
HyF	-0.00499	-0.00670	0.00045	-0.00138
Ambient	-0.00670	-0.01363	-0.00835	-0.00882
Cleanout	0.00045	-0.00835	-0.00512	-0.00693
Background	-0.00138	-0.00882	-0.00693	-0.01083

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

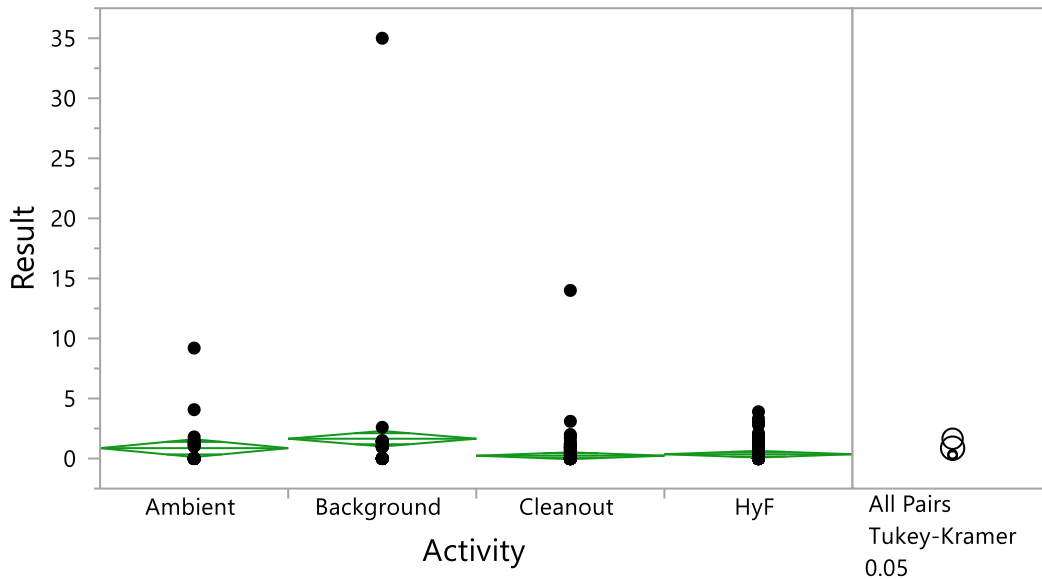
Level	Mean	
HyF	A	0.00705469
Ambient	A B	0.00349256
Cleanout	B	0.00154352
Background	A B	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Background	0.0070547	0.0032694	-0.001380	0.0154889	0.1370
HyF	Cleanout	0.0055112	0.0019603	0.000454	0.0105682	0.0265*
HyF	Ambient	0.0035621	0.0039790	-0.006703	0.0138269	0.8073
Ambient	Background	0.0034926	0.0047727	-0.008820	0.0158047	0.8843
Ambient	Cleanout	0.0019490	0.0039915	-0.008348	0.0122459	0.9617
Cleanout	Background	0.0015435	0.0032846	-0.006930	0.0100167	0.9656

### Oneway Analysis of Result By Activity Analyte (Units)=2-Butanone (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.038768
Adj Rsquare	0.031983
Root Mean Square Error	1.921237

Mean of Response 0.439622  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	63.2702	21.0901	5.7137	0.0008*
Error	425	1568.7387	3.6911		
C. Total	428	1632.0089			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.86577	0.37679	0.125	1.6064
Background	34	1.64909	0.32949	1.001	2.2967
Cleanout	180	0.23441	0.14320	-0.047	0.5159
HyF	189	0.35887	0.13975	0.084	0.6336

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
HyF	Cleanout	23.3852	8.12078	2.87967	0.0040*	0	0.000000	0.000000
Background	Ambient	3.3597	4.11304	0.81685	0.4140	0	0.000000	0.4240743
HyF	Ambient	-11.5288	10.40663	-1.10783	0.2679	0	0.000000	0.000000
Cleanout	Ambient	-22.1186	8.54872	-2.58736	0.0097*	0	0.000000	0.000000
HyF	Background	-28.4389	9.88921	-2.87575	0.0040*	0	-0.564074	0.000000
Cleanout	Background	-40.2474	8.38765	-4.79841	<.0001*	0	-0.949383	0.000000

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	6307.00	5590.00	242.577	1.529
Background	34	9331.50	7310.00	274.456	3.809
Cleanout	180	34889.0	38700.0	193.828	-3.931
HyF	189	41707.5	40635.0	220.675	1.099

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
25.2145	3	<.0001*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Ambient	HyF	Cleanout
Background	-1.2019	-0.5077	0.3671	0.4881
Ambient	-0.5077	-1.3744	-0.5296	-0.4083
HyF	0.3671	-0.5296	-0.5098	-0.3916
Cleanout	0.4881	-0.4083	-0.3916	-0.5223

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

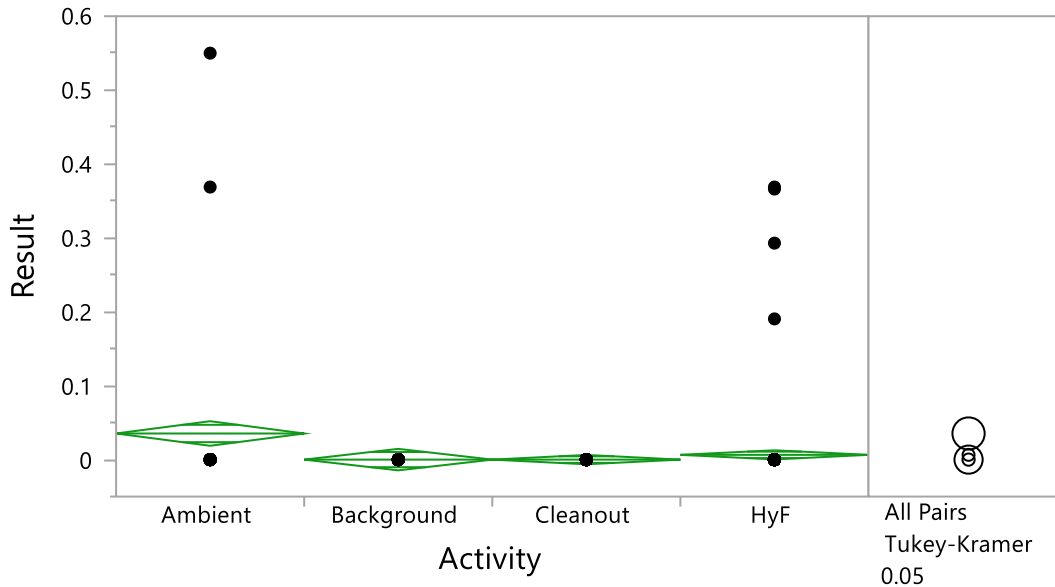
Level	Mean
Background A	1.6490884
Ambient A B	0.8657713
HyF B	0.3588667
Cleanout B	0.2344056

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Cleanout	1.414683	0.3592626	0.488051	2.341315	0.0006*
Background	HyF	1.290222	0.3579010	0.367102	2.213342	0.0020*
Background	Ambient	0.783317	0.5005303	-0.507681	2.074315	0.3998
Ambient	Cleanout	0.631366	0.4030803	-0.408283	1.671015	0.3990
Ambient	HyF	0.506905	0.4018671	-0.529616	1.543425	0.5881
HyF	Cleanout	0.124461	0.2000907	-0.391625	0.640547	0.9250

### Oneway Analysis of Result By Activity Analyte (Units)=2-Hexanone (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.03619
Adj Rsquare	0.029386
Root Mean Square Error	0.043124

Mean of Response 0.004982  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.02967738	0.009892	5.3194	0.0013*
Error	425	0.79037314	0.001860		
C. Total	428	0.82005052			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.035339	0.00846	0.0187	0.05196
Background	34	0.000000	0.00740	-0.0145	0.01454
Cleanout	180	0.000000	0.00321	-0.0063	0.00632
HyF	189	0.006446	0.00314	0.00028	0.01261

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
HyF	Cleanout	3.89934	1.992461	1.95705	0.0503	0	0	0
HyF	Background	2.34244	2.763136	0.84775	0.3966	0	0	0
Cleanout	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
Background	Ambient	-2.27376	1.415013	-1.60688	0.1081	0	0	0
HyF	Ambient	-6.12536	3.712680	-1.64985	0.0990	0	0	0
Cleanout	Ambient	-7.90107	2.124089	-3.71975	0.0002*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5944.50	5590.00	228.635	2.840
Background	34	7208.00	7310.00	212.000	-0.719
Cleanout	180	38160.0	38700.0	212.000	-2.093
HyF	189	40922.5	40635.0	216.521	1.107

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
11.3153	3	0.0101*

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	HyF	Background	Cleanout
Ambient	-0.03085	0.00563	0.00636	0.01200
HyF	0.00563	-0.01144	-0.01427	-0.00514
Background	0.00636	-0.01427	-0.02698	-0.02080
Cleanout	0.01200	-0.00514	-0.02080	-0.01172

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

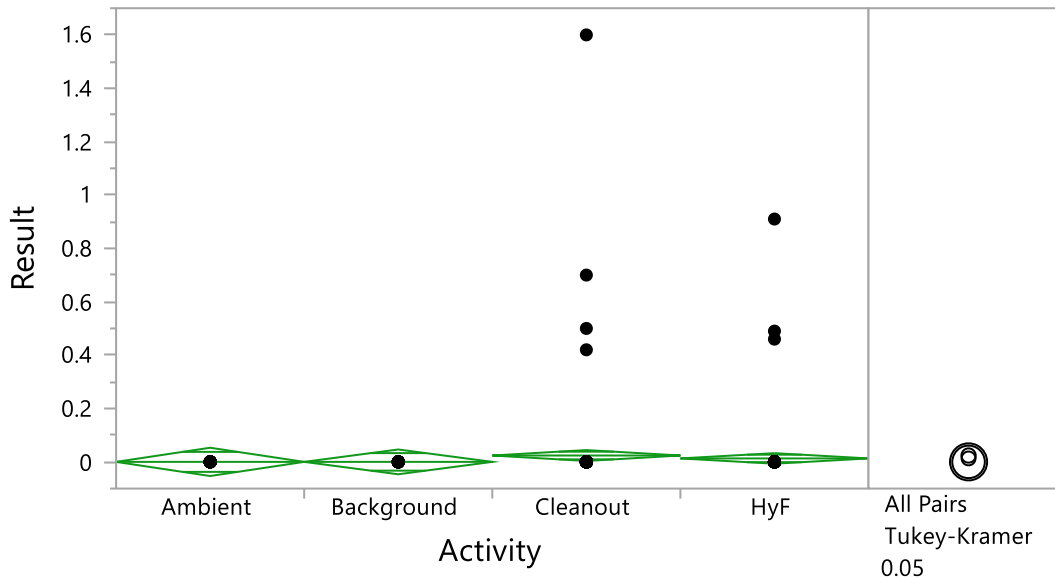
Level	Mean
Ambient A	0.03533927
HyF B	0.00644615
Background B	0.00000000
Cleanout B	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Background	0.0353393	0.0112349	0.006361	0.0643171	0.0096*
Ambient	Cleanout	0.0353393	0.0090476	0.012003	0.0586753	0.0006*
Ambient	HyF	0.0288931	0.0090203	0.005627	0.0521590	0.0079*
HyF	Background	0.0064461	0.0080335	-0.014274	0.0271666	0.8533
HyF	Cleanout	0.0064461	0.0044913	-0.005138	0.0180303	0.4780
Cleanout	Background	0.0000000	0.0080640	-0.020799	0.0207993	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=2-Methylnaphthalene (ug/m3)



Missing Rows 148

### Oneway Anova Summary of Fit

Rsquare	0.004581
Adj Rsquare	-0.00472
Root Mean Square Error	0.120427

Mean of Response 0.015631  
 Observations (or Sum Wgts) 325

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0214237	0.007141	0.4924	0.6878
Error	321	4.6553720	0.014503		
C. Total	324	4.6767957			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	20	0.000000	0.02693	-0.0530	0.05298
Background	26	0.000000	0.02362	-0.0465	0.04647
Cleanout	135	0.023852	0.01036	0.0035	0.04424
HyF	144	0.012917	0.01004	-0.0068	0.03266

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
Cleanout	Background	2.36225	2.692186	0.877447	0.3802	0	0	0
Cleanout	Ambient	2.26759	2.954094	0.767610	0.4427	0	0	0
HyF	Background	1.74813	2.391921	0.730848	0.4649	0	0	0
HyF	Ambient	1.67986	2.630385	0.638637	0.5231	0	0	0
Background	Ambient	0.00000	0.000000	0.000000	1.0000	0	0	0
HyF	Cleanout	-1.23426	2.618683	-0.471328	0.6374	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	20	3190.00	3260.00	159.500	-0.679
Background	26	4147.00	4238.00	159.500	-0.783
Cleanout	135	22183.5	22005.0	164.322	0.848
HyF	144	23454.5	23472.0	162.878	-0.080

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
1.4359	3	0.6972

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.58257	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Cleanout	HyF	Ambient	Background
Cleanout	-0.03786	-0.02632	-0.05067	-0.04276
HyF	-0.02632	-0.03665	-0.06130	-0.05336
Ambient	-0.05067	-0.06130	-0.09835	-0.09250
Background	-0.04276	-0.05336	-0.09250	-0.08626

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

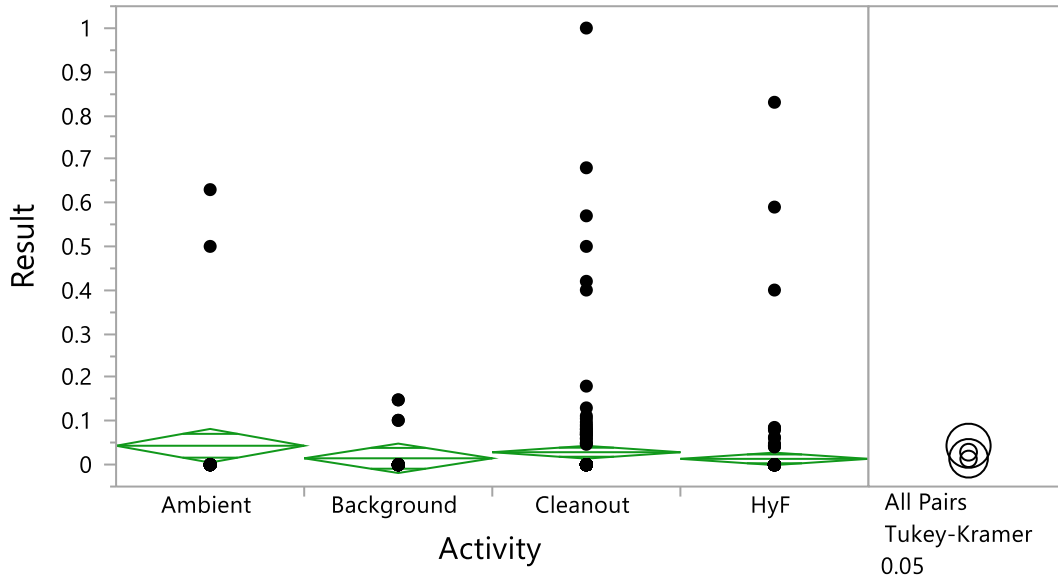
Level	Mean
Cleanout A	0.02385185
HyF A	0.01291667
Ambient A	0.00000000
Background A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0238519	0.0288542	-0.050666	0.0983697	0.8418
Cleanout	Background	0.0238519	0.0257919	-0.042758	0.0904613	0.7916
HyF	Ambient	0.0129167	0.0287376	-0.061300	0.0871335	0.9697
HyF	Background	0.0129167	0.0256615	-0.053356	0.0791891	0.9582
Cleanout	HyF	0.0109352	0.0144271	-0.026324	0.0481941	0.8732
Background	Ambient	0.0000000	0.0358180	-0.092503	0.0925025	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=4-Ethyltoluene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.008321
Adj Rsquare	0.001321
Root Mean Square Error	0.09991

Mean of Response 0.021748  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0355970	0.011866	1.1887	0.3136
Error	425	4.2423614	0.009982		
C. Total	428	4.2779584			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.043462	0.01959	0.0049	0.08197
Background	34	0.014717	0.01713	-0.0190	0.04840
Cleanout	180	0.028665	0.00745	0.0140	0.04330
HyF	189	0.013440	0.00727	-0.0008	0.02772

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
Cleanout	Ambient	5.5021	7.334450	0.75018	0.4531	0	0	0
Cleanout	Background	1.6959	6.888598	0.24619	0.8055	0	0	0
Background	Ambient	0.9163	2.368523	0.38686	0.6989	0	0	0
HyF	Ambient	-0.2406	6.088754	-0.03952	0.9685	0	0	0
HyF	Background	-4.8757	5.819550	-0.83782	0.4021	0	0	0
HyF	Cleanout	-11.6709	5.994922	-1.94680	0.0516	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5456.50	5590.00	209.865	-0.404
Background	34	7416.00	7310.00	218.118	0.283
Cleanout	180	39951.0	38700.0	221.950	1.837
HyF	189	39411.5	40635.0	208.526	-1.786

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.9765	3	0.2640

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	Cleanout	Background	HyF
Ambient	-0.07147	-0.03927	-0.03839	-0.02388
Cleanout	-0.03927	-0.02716	-0.03424	-0.01161
Background	-0.03839	-0.03424	-0.06250	-0.04673
HyF	-0.02388	-0.01161	-0.04673	-0.02651

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

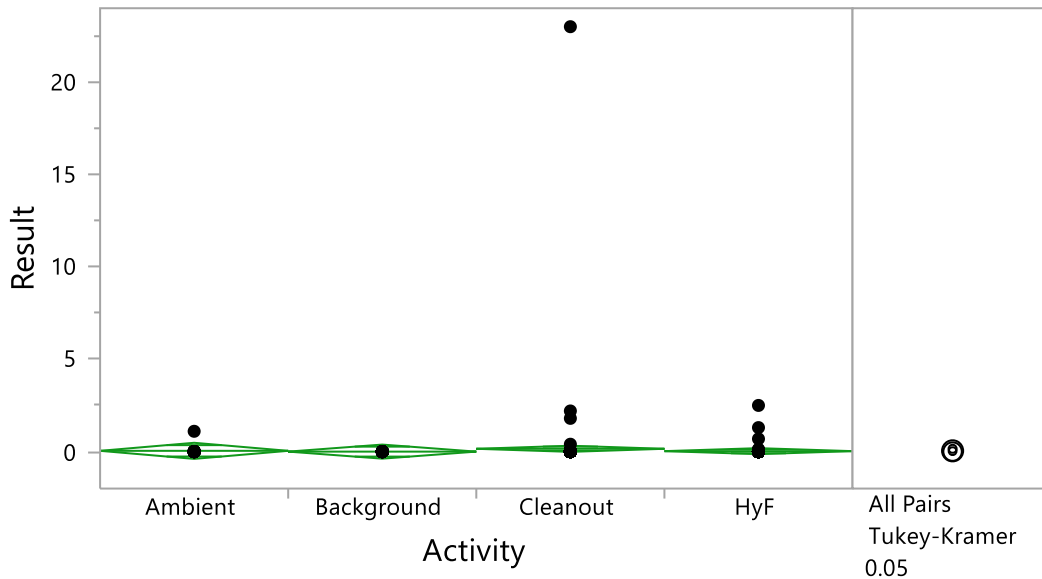
Level	Mean	
Ambient	A	0.04346154
Cleanout	A	0.02866466
Background	A	0.01471738
HyF	A	0.01343955

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.0300220	0.0208983	-0.023880	0.0839242	0.4772
Ambient	Background	0.0287442	0.0260291	-0.038392	0.0958800	0.6871
Cleanout	HyF	0.0152251	0.0104053	-0.011613	0.0420631	0.4608
Ambient	Cleanout	0.0147969	0.0209614	-0.039268	0.0688618	0.8947
Cleanout	Background	0.0139473	0.0186827	-0.034240	0.0621349	0.8781
Background	HyF	0.0012778	0.0186119	-0.046727	0.0492829	0.9999

### Oneway Analysis of Result By Activity Analyte (Units)=4-Methyl-2-Pentanone (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.00321
Adj Rsquare	-0.00383
Root Mean Square Error	1.129874

Mean of Response 0.077782  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	1.74738	0.58246	0.4563	0.7130
Error	425	542.56116	1.27661		
C. Total	428	544.30854			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.042308	0.22159	-0.3932	0.47785
Background	34	0.000000	0.19377	-0.3809	0.38087
Cleanout	180	0.152222	0.08422	-0.0133	0.31775
HyF	189	0.025759	0.08219	-0.1358	0.18730

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
HyF	Background	4.11228	3.630569	1.13268	0.2573	0	0	0
HyF	Cleanout	2.63029	3.272718	0.80370	0.4216	0	0	0
Cleanout	Background	2.36029	2.716327	0.86893	0.3849	0	0	0
HyF	Ambient	-0.19689	4.266929	-0.04614	0.9632	0	0	0
Background	Ambient	-1.11991	1.009009	-1.10991	0.2670	0	0	0
Cleanout	Ambient	-1.60662	3.333975	-0.48189	0.6299	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5649.00	5590.00	217.269	0.334
Background	34	7106.00	7310.00	209.000	-1.027
Cleanout	180	38488.0	38700.0	213.822	-0.584
HyF	189	40992.0	40635.0	216.889	0.979

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.8193	3	0.6107

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	HyF	Background
Cleanout	-0.30719	-0.50150	-0.17705	-0.39273
Ambient	-0.50150	-0.80826	-0.59303	-0.71692
HyF	-0.17705	-0.59303	-0.29978	-0.51713
Background	-0.39273	-0.71692	-0.51713	-0.70681

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

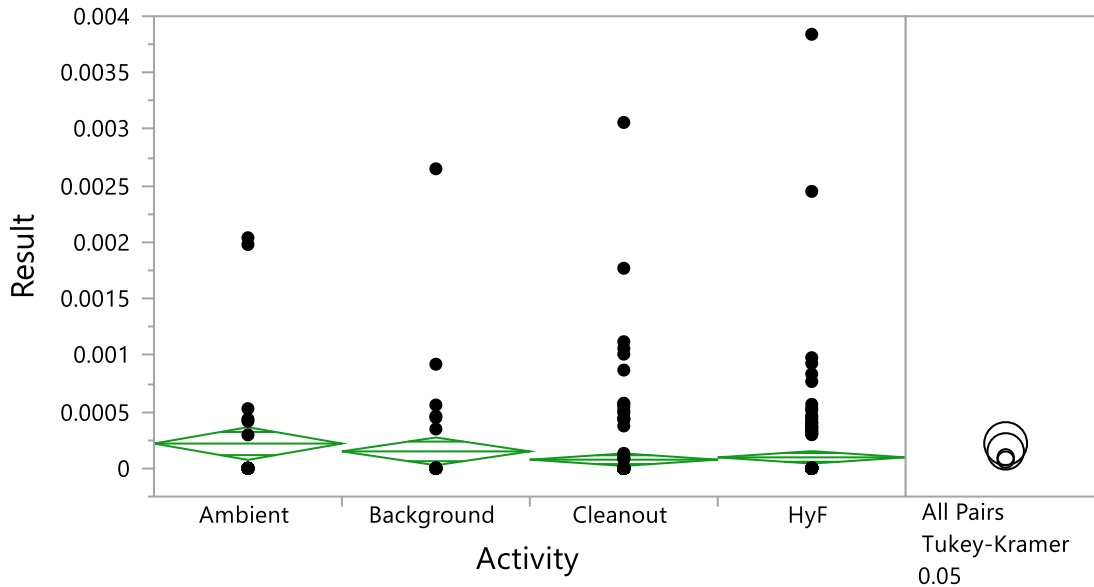
Level	Mean
Cleanout A	0.1522222
Ambient A	0.04230769
HyF A	0.02575857
Background A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Background	0.1522222	0.2112813	-0.392727	0.6971718	0.8889
Cleanout	HyF	0.1264637	0.1176728	-0.177045	0.4299724	0.7052
Cleanout	Ambient	0.1099145	0.2370503	-0.501500	0.7213292	0.9669
Ambient	Background	0.0423077	0.2943604	-0.716925	0.8015400	0.9989
HyF	Background	0.0257586	0.2104805	-0.517126	0.5686428	0.9993
Ambient	HyF	0.0165491	0.2363369	-0.593025	0.6261237	0.9999

### Oneway Analysis of Result By Activity Analyte (Units)=Benzaldehyde (mg/m3)



Missing Rows 169

### Oneway Anova Summary of Fit

Rsquare	0.00946
Adj Rsquare	0.002317
Root Mean Square Error	0.000375

Mean of Response 0.0001  
 Observations (or Sum Wgts) 420

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000056	1.8647e-7	1.3244	0.2659
Error	416	0.00005857	1.408e-7		
C. Total	419	0.00005913			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000219	7.36e-5	7.44e-5	0.00036
Background	36	0.000150	6.25e-5	2.68e-5	0.00027
Cleanout	179	0.000076	2.8e-5	2.12e-5	0.00013
HyF	179	0.000097	2.8e-5	4.17e-5	0.00015

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
HyF	Cleanout	5.5754	6.238777	0.89367	0.3715	0	0	0
Background	Ambient	-1.7553	3.202197	-0.54817	0.5836	0	0	0
HyF	Background	-3.6868	6.941655	-0.53111	0.5953	0	0	0
Cleanout	Background	-6.6896	6.325189	-1.05761	0.2902	0	0	0
HyF	Ambient	-9.9549	7.760506	-1.28276	0.1996	0	0	0
Cleanout	Ambient	-12.9281	7.076564	-1.82689	0.0677	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	6020.50	5473.00	231.558	1.544
Background	36	7863.00	7578.00	218.417	0.691
Cleanout	179	36685.0	37679.5	204.944	-1.368
HyF	179	37841.5	37679.5	211.405	0.222

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.7832	3	0.2858

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57948	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	HyF	Cleanout
Ambient	-0.00027	-0.00018	-0.00008	-0.00006
Background	-0.00018	-0.00023	-0.00012	-0.00010
HyF	-0.00008	-0.00012	-0.00010	-0.00008
Cleanout	-0.00006	-0.00010	-0.00008	-0.00010

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

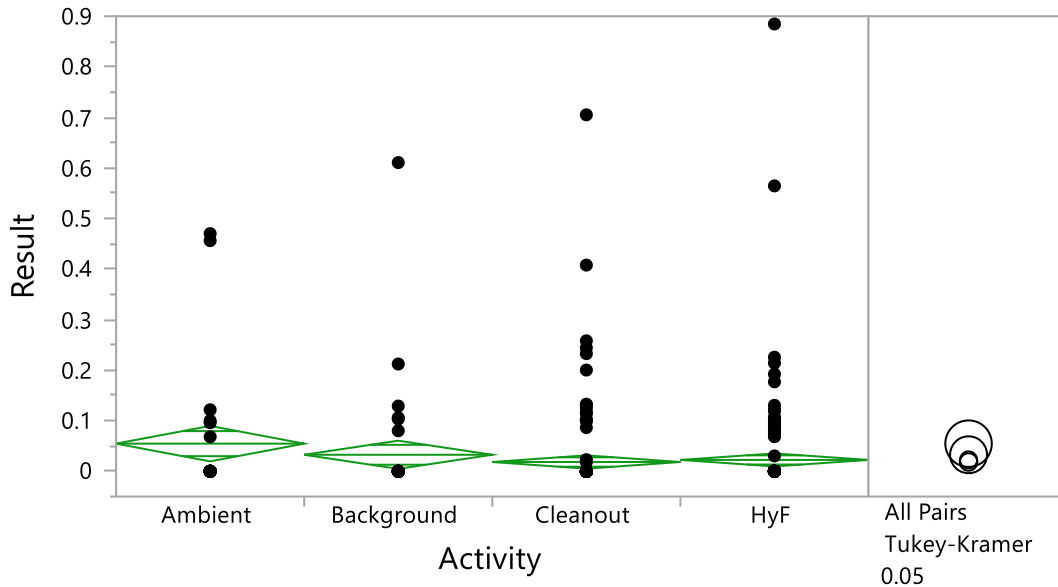
Level	Mean
Ambient	0.00021908
Background	0.00014969
HyF	0.00009681
Cleanout	0.00007636

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.0001427	0.0000788	-0.000060	0.0003459	0.2690
Ambient	HyF	0.0001223	0.0000788	-0.000081	0.0003254	0.4071
Background	Cleanout	0.0000733	0.0000685	-0.000103	0.0002501	0.7080
Ambient	Background	0.0000694	0.0000966	-0.000180	0.0003185	0.8897
Background	HyF	0.0000529	0.0000685	-0.000124	0.0002297	0.8673
HyF	Cleanout	0.0000204	0.0000397	-0.000082	0.0001228	0.9553

### Oneway Analysis of Result By Activity Analyte (Units)=Benzaldehyde (ppb)



Missing Rows 152

### Oneway Anova Summary of Fit

Rsquare	0.009959
Adj Rsquare	0.002662
Root Mean Square Error	0.087309

Mean of Response 0.023589  
 Observations (or Sum Wgts) 411

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0312090	0.010403	1.3647	0.2531
Error	407	3.1024989	0.007623		
C. Total	410	3.1337079			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.054667	0.01782	0.01963	0.08970
Background	38	0.032667	0.01416	0.00482	0.06051
Cleanout	170	0.018345	0.00670	0.00518	0.03151
HyF	179	0.022475	0.00653	0.00965	0.03530

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
HyF	Cleanout	6.2219	6.230787	0.99857	0.3180	0	0	0
HyF	Background	-2.2172	6.916432	-0.32057	0.7485	0	0	0
Background	Ambient	-2.6173	3.244057	-0.80681	0.4198	0	0	0
Cleanout	Background	-5.4898	5.991440	-0.91627	0.3595	0	0	0
HyF	Ambient	-11.4117	8.099421	-1.40895	0.1589	0	0	0
Cleanout	Ambient	-14.0032	7.002472	-1.99975	0.0455*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	5520.00	4944.00	230.000	1.709
Background	38	8030.00	7828.00	211.316	0.484
Cleanout	170	34011.0	35020.0	200.065	-1.426
HyF	179	37105.0	36874.0	207.291	0.324

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
4.2219	3	0.2385

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57971	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	HyF	Cleanout
Ambient	-0.06502	-0.03673	-0.01677	-0.01279
Background	-0.03673	-0.05167	-0.03004	-0.02609
HyF	-0.01677	-0.03004	-0.02381	-0.01999
Cleanout	-0.01279	-0.02609	-0.01999	-0.02443

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

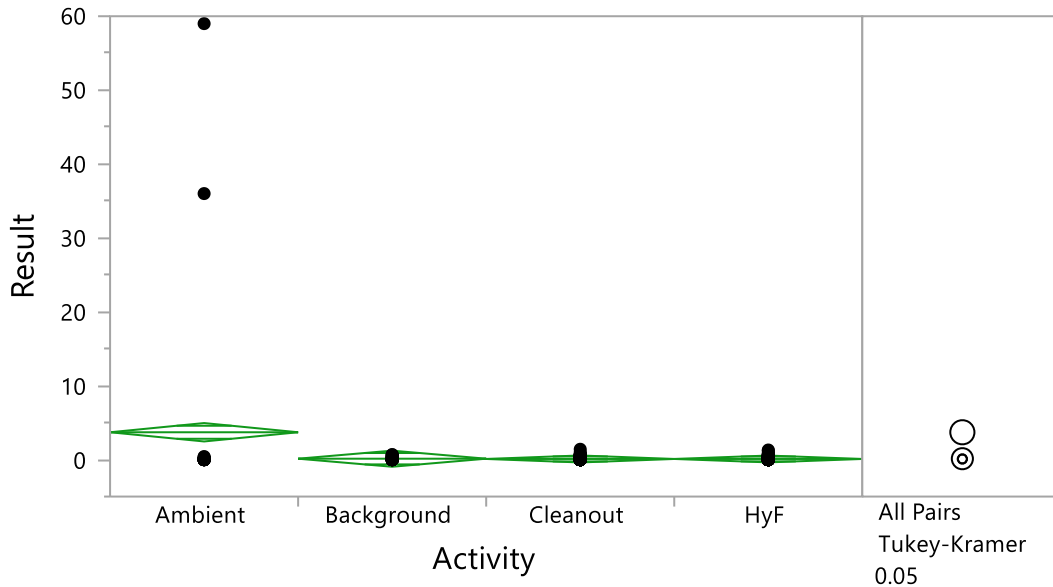
Level	Mean	
Ambient	A	0.05466721
Background	A	0.03266705
HyF	A	0.02247456
Cleanout	A	0.01834521

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.0363220	0.0190384	-0.012791	0.0854355	0.2263
Ambient	HyF	0.0321926	0.0189791	-0.016768	0.0811531	0.3270
Ambient	Background	0.0220002	0.0227644	-0.036726	0.0807259	0.7686
Background	Cleanout	0.0143218	0.0156666	-0.026093	0.0547371	0.7973
Background	HyF	0.0101925	0.0155945	-0.030037	0.0504217	0.9143
HyF	Cleanout	0.0041294	0.0093502	-0.019991	0.0282502	0.9712

### Oneway Analysis of Result By Activity Analyte (Units)=Benzene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.066945
Adj Rsquare	0.060359
Root Mean Square Error	3.231674

Mean of Response 0.30927  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	318.4602	106.153	10.1643	<.0001*
Error	425	4438.5793	10.444		
C. Total	428	4757.0396			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	3.70113	0.63378	2.455	4.9469
Background	34	0.12343	0.55423	-0.966	1.2128
Cleanout	180	0.08741	0.24087	-0.386	0.5609
HyF	189	0.08739	0.23507	-0.375	0.5494

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
HyF	Cleanout	2.45132	8.157682	0.30049	0.7638	0	0	0
Background	Ambient	1.05204	3.616866	0.29087	0.7712	0	0	0
HyF	Ambient	-4.48464	9.774301	-0.45882	0.6464	0	0	0
Cleanout	Ambient	-5.08397	9.117326	-0.55762	0.5771	0	0	0
HyF	Background	-8.29396	9.093343	-0.91209	0.3617	0	0	0
Cleanout	Background	-9.37124	8.521548	-1.09971	0.2715	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5793.00	5590.00	222.808	0.444
Background	34	7834.00	7310.00	230.412	1.015
Cleanout	180	38089.0	38700.0	211.606	-0.648
HyF	189	40519.0	40635.0	214.386	-0.122

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3886	3	0.7082

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	Background	Cleanout	HyF
Ambient	-2.3118	1.4061	1.8649	1.8702
Background	1.4061	-2.0216	-1.5226	-1.5167
Cleanout	1.8649	-1.5226	-0.8786	-0.8681
HyF	1.8702	-1.5167	-0.8681	-0.8574

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

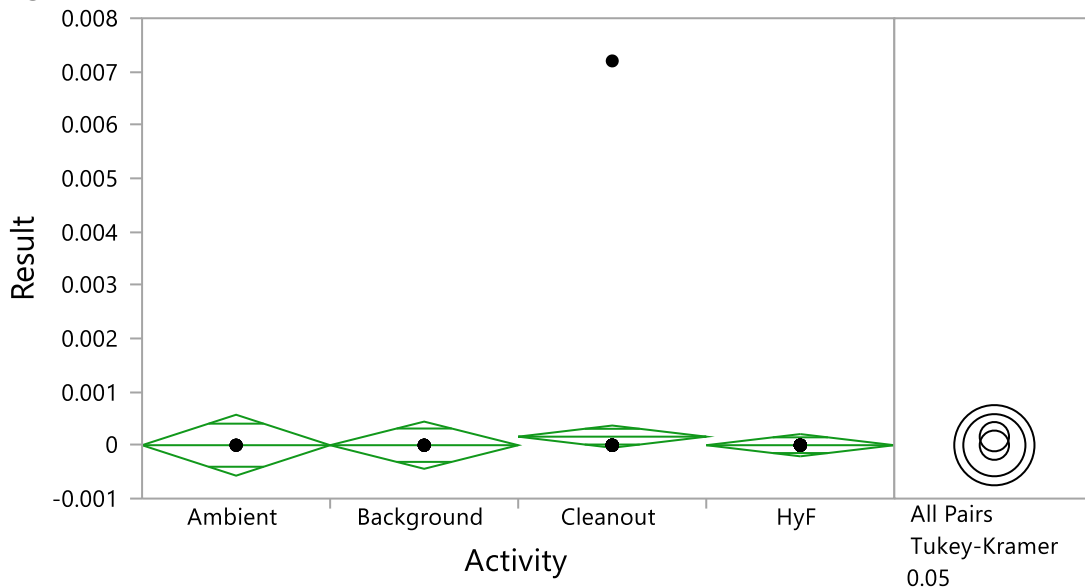
Level	Mean	
Ambient	A	3.7011251
Background	B	0.1234350
Cleanout	B	0.0874114
HyF	B	0.0873909

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	3.613734	0.6759727	1.87022	5.357244	<.0001*
Ambient	Cleanout	3.613714	0.6780133	1.86494	5.362487	<.0001*
Ambient	Background	3.577690	0.8419320	1.40613	5.749253	0.0002*
Background	HyF	0.036044	0.6020182	-1.51672	1.588806	0.9999
Background	Cleanout	0.036024	0.6043085	-1.52265	1.594693	0.9999
Cleanout	HyF	0.000021	0.3365686	-0.86808	0.868119	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Bis(2-Ethylhexyl)phthalate (mg/m3)



Missing Rows 10

### Oneway Anova

#### Summary of Fit

Rsquare 0.01291  
Adj Rsquare -0.01612

Root Mean Square Error      0.000705  
 Mean of Response              0.000068  
 Observations (or Sum Wgts)    106

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000066	2.2098e-7	0.4447	0.7216
Error	102	0.00005069	4.9694e-7		
C. Total	105	0.00005135			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	6	0.000000	0.00029	-0.0006	0.00057
Background	10	0.000000	0.00022	-0.0004	0.00044
Cleanout	45	0.000160	0.00011	-4.8e-5	0.00037
HyF	45	0.000000	0.00011	-0.0002	0.00021

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
Cleanout	Background	0.550000	1.296362	0.424264	0.6714	0	0	0
Cleanout	Ambient	0.472222	1.551881	0.304290	0.7609	0	0	0
Background	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
HyF	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
HyF	Background	0.000000	0.000000	0.000000	1.0000	0	0	0
HyF	Cleanout	-0.977778	1.000000	-0.977778	0.3282	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	6	318.000	321.000	53.0000	-0.204
Background	10	530.000	535.000	53.0000	-0.290
Cleanout	45	2438.00	2407.50	54.1778	1.145
HyF	45	2385.00	2407.50	53.0000	-0.840

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.3556	3	0.7160

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.61190	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	Background	HyF
Cleanout	-0.00039	-0.00064	-0.00048	-0.00023
Ambient	-0.00064	-0.00106	-0.00095	-0.00080
Background	-0.00048	-0.00095	-0.00082	-0.00064
HyF	-0.00023	-0.00080	-0.00064	-0.00039

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

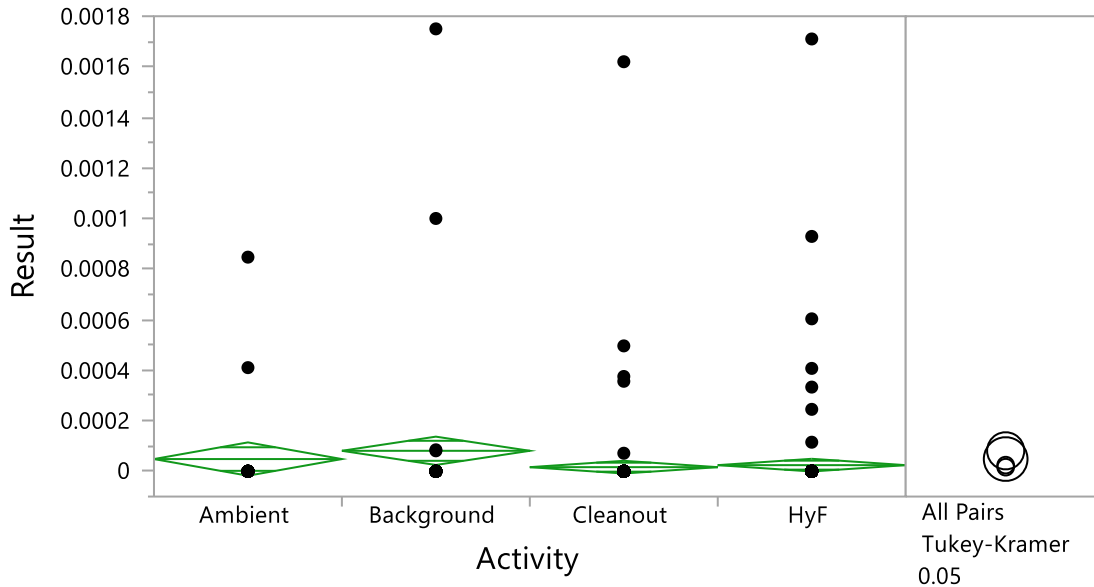
Level	Mean
Cleanout A	0.00016000
Ambient A	0.00000000
Background A	0.00000000
HyF A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0001600	0.0003064	-0.000640	0.0009602	0.9536
Cleanout	Background	0.0001600	0.0002464	-0.000484	0.0008037	0.9156
Cleanout	HyF	0.0001600	0.0001486	-0.000228	0.0005482	0.7045
Background	Ambient	0.0000000	0.0003640	-0.000951	0.0009508	1.0000
HyF	Ambient	0.0000000	0.0003064	-0.000800	0.0008002	1.0000
HyF	Background	0.0000000	0.0002464	-0.000644	0.0006437	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Butyraldehyde (mg/m3)



Missing Rows 169

### Oneway Anova Summary of Fit

Rsquare	0.011275
Adj Rsquare	0.004145
Root Mean Square Error	0.000171

Mean of Response 2.722e-5  
 Observations (or Sum Wgts) 420

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000014	4.6206e-8	1.5813	0.1933
Error	416	0.00001216	2.922e-8		
C. Total	419	0.00001229			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000048	3.35e-5	-1.8e-5	0.00011
Background	36	0.000081	2.85e-5	2.5e-5	0.00014
Cleanout	179	0.000016	1.28e-5	-8.8e-6	4.14e-5
HyF	179	0.000024	1.28e-5	-8.6e-7	0.00005

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
HyF	Cleanout	2.01117	3.410972	0.58962	0.5554	0	0	0
Background	Ambient	1.02671	2.382083	0.43101	0.6665	0	0	0
HyF	Ambient	-3.94231	4.419661	-0.89199	0.3724	0	0	0
Cleanout	Ambient	-5.08756	3.917083	-1.29881	0.1940	0	0	0
HyF	Background	-7.69049	4.338436	-1.77264	0.0763	0	0	0
Cleanout	Background	-8.95833	3.942842	-2.27205	0.0231*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5663.00	5473.00	217.808	0.901
Background	36	8094.00	7578.00	224.833	2.109
Cleanout	179	37114.0	37679.5	207.341	-1.309
HyF	179	37539.0	37679.5	209.715	-0.324

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.8867	3	0.1173

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57948	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Ambient	HyF	Cleanout
Background	-0.00010	-0.00008	-0.00002	-0.00002
Ambient	-0.00008	-0.00012	-0.00007	-0.00006
HyF	-0.00002	-0.00007	-0.00005	-0.00004
Cleanout	-0.00002	-0.00006	-0.00004	-0.00005

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

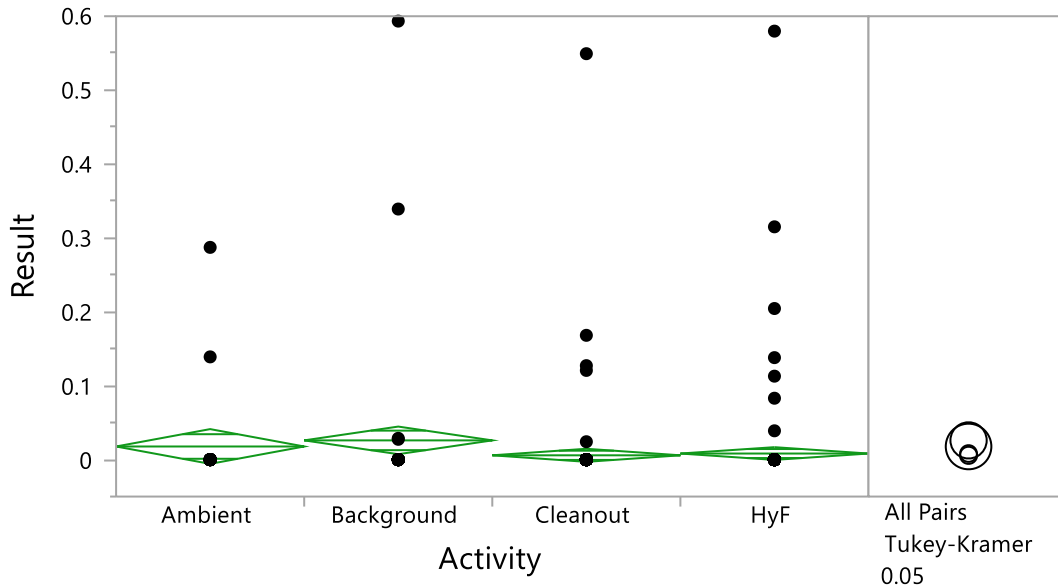
Level	Mean
Background A	0.00008100
Ambient A	0.00004835
HyF A	0.00002426
Cleanout A	0.00001630

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Cleanout	0.0000647	0.0000312	-0.000016	0.0001452	0.1640
Background	HyF	0.0000567	0.0000312	-0.000024	0.0001373	0.2666
Background	Ambient	0.0000327	0.0000440	-0.000081	0.0001461	0.8800
Ambient	Cleanout	0.0000320	0.0000359	-0.000060	0.0001246	0.8084
Ambient	HyF	0.0000241	0.0000359	-0.000068	0.0001166	0.9078
HyF	Cleanout	0.0000080	0.0000181	-0.000039	0.0000546	0.9715

### Oneway Analysis of Result By Activity Analyte (Units)=Butyraldehyde (ppb)



Missing Rows 152

### Oneway Anova

#### Summary of Fit

Rsquare	0.010332
Adj Rsquare	0.003037
Root Mean Square Error	0.05861

Mean of Response 0.009433  
 Observations (or Sum Wgts) 411

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0145966	0.004866	1.4164	0.2374
Error	407	1.3981152	0.003435		
C. Total	410	1.4127118			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.017759	0.01196	-0.0058	0.04128
Background	38	0.026019	0.00951	0.0073	0.04471
Cleanout	170	0.005821	0.00450	-0.0030	0.01466
HyF	179	0.008225	0.00438	-0.0004	0.01684

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
HyF	Cleanout	1.70314	3.410738	0.49935	0.6175	0	0	0
Background	Ambient	0.64583	2.413223	0.26762	0.7890	0	0	0
HyF	Ambient	-4.55994	4.554360	-1.00123	0.3167	0	0	0
Cleanout	Ambient	-5.30172	3.955748	-1.34026	0.1802	0	0	0
HyF	Background	-7.13018	4.262935	-1.67260	0.0944	0	0	0
Cleanout	Background	-7.90464	3.807322	-2.07617	0.0379*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	5143.00	4944.00	214.292	0.991
Background	38	8308.00	7828.00	218.632	1.939
Cleanout	170	34513.0	35020.0	203.018	-1.204
HyF	179	36702.0	36874.0	205.039	-0.405

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.2934	3	0.1515

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57971	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Ambient	HyF	Cleanout
Background	-0.03469	-0.03116	-0.00921	-0.00693
Ambient	-0.03116	-0.04365	-0.02333	-0.02103
HyF	-0.00921	-0.02333	-0.01598	-0.01379
Cleanout	-0.00693	-0.02103	-0.01379	-0.01640

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

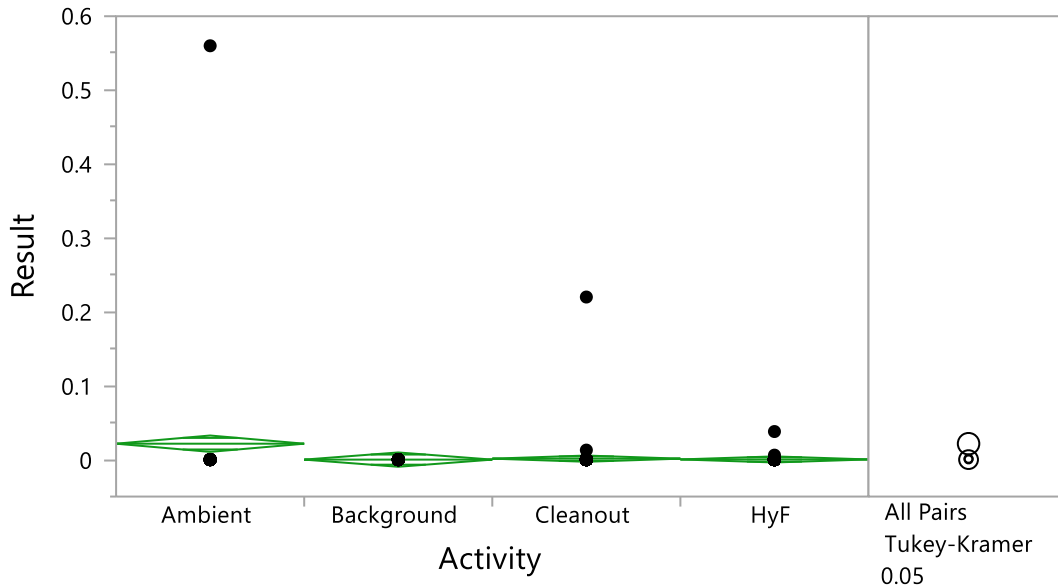
Level	Mean
Background A	0.02601899
Ambient A	0.01775928
HyF A	0.00822504
Cleanout A	0.00582100

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Cleanout	0.0201980	0.0105169	-0.006933	0.0473287	0.2210
Background	HyF	0.0177939	0.0104685	-0.009212	0.0447997	0.3251
Ambient	Cleanout	0.0119383	0.0127804	-0.021032	0.0449081	0.7865
Ambient	HyF	0.0095342	0.0127406	-0.023333	0.0424013	0.8774
Background	Ambient	0.0082597	0.0152817	-0.031163	0.0476822	0.9491
HyF	Cleanout	0.0024040	0.0062768	-0.013788	0.0185963	0.9809

### Oneway Analysis of Result By Activity Analyte (Units)=C-1,2-Dichloroethene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.029668
Adj Rsquare	0.022819
Root Mean Square Error	0.028749

Mean of Response 0.001951  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.01074036	0.003580	4.3315	0.0051*
Error	425	0.35127304	0.000827		
C. Total	428	0.36201340			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.021538	0.00564	0.0105	0.03262
Background	34	0.000000	0.00493	-0.0097	0.00969
Cleanout	180	0.001294	0.00214	-0.0029	0.00551
HyF	189	0.000233	0.00209	-0.0039	0.00434

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
Cleanout	Background	1.17141	1.929772	0.60702	0.5438	0	0	0
HyF	Background	1.16254	1.962653	0.59233	0.5536	0	0	0
HyF	Cleanout	-0.10304	1.992461	-0.05172	0.9588	0	0	0
Background	Ambient	-1.11991	1.009009	-1.10991	0.2670	0	0	0
Cleanout	Ambient	-2.83910	2.595134	-1.09401	0.2740	0	0	0
HyF	Ambient	-3.01893	2.643780	-1.14190	0.2535	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5741.50	5590.00	220.827	1.326
Background	34	7225.00	7310.00	212.500	-0.655
Cleanout	180	38679.0	38700.0	214.883	-0.087
HyF	189	40589.5	40635.0	214.759	-0.190

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
2.0869	3	0.5546

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD



	Ambient	Cleanout	HyF	Background
Ambient	-0.02057	0.00469	0.00579	0.00222
Cleanout	0.00469	-0.00782	-0.00666	-0.01257
HyF	0.00579	-0.00666	-0.00763	-0.01358
Background	0.00222	-0.01257	-0.01358	-0.01798

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

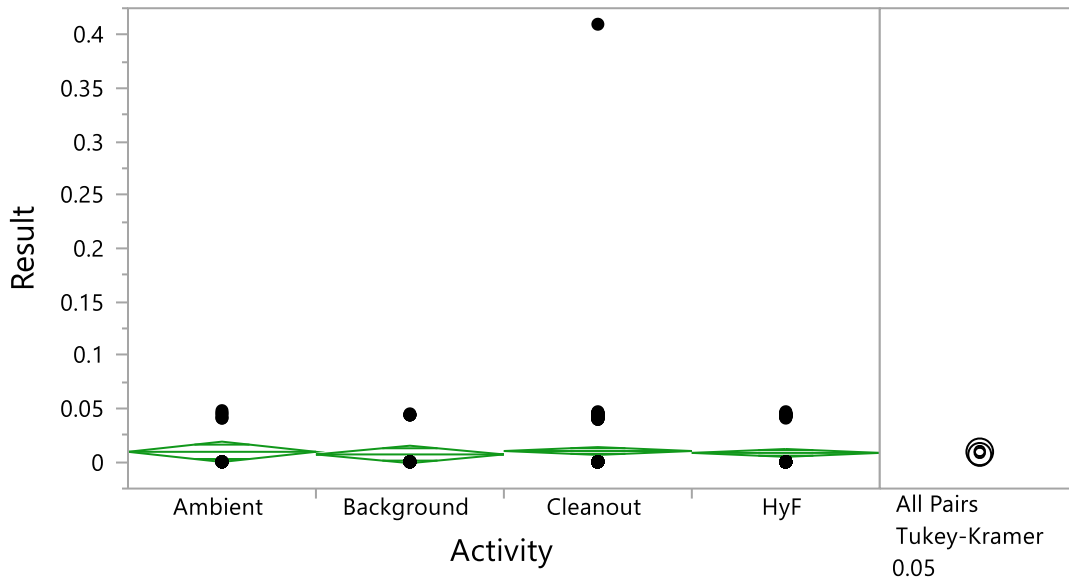
Level	Mean
Ambient A	0.02153846
Cleanout B	0.00129368
HyF B	0.00023309
Background B	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Background	0.0215385	0.0074899	0.002220	0.0408569	0.0219*
Ambient	HyF	0.0213054	0.0060135	0.005795	0.0368158	0.0025*
Ambient	Cleanout	0.0202448	0.0060317	0.004687	0.0358021	0.0048*
Cleanout	Background	0.0012937	0.0053760	-0.012572	0.0151598	0.9951
Cleanout	HyF	0.0010606	0.0029942	-0.006662	0.0087833	0.9847
HyF	Background	0.0002331	0.0053556	-0.013580	0.0140466	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Carbon Dioxide (% v/v)



Missing Rows 147

### Oneway Anova

#### Summary of Fit

Rsquare	0.001678
Adj Rsquare	-0.00516
Root Mean Square Error	0.025661

Mean of Response 0.009097  
 Observations (or Sum Wgts) 442

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00048470	0.000162	0.2454	0.8646
Error	438	0.28841412	0.000658		
C. Total	441	0.28889882			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	28	0.009429	0.00485	-0.0001	0.01896
Background	38	0.006974	0.00416	-0.0012	0.01516
Cleanout	188	0.010176	0.00187	0.0065	0.01385
HyF	188	0.008399	0.00187	0.0047	0.01208

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
HyF	Background	3.25840	7.884664	0.413258	0.6794	0	0	0
Cleanout	Background	2.64152	7.889303	0.334823	0.7378	0	0	0
HyF	Cleanout	1.67553	7.695958	0.217716	0.8277	0	0	0
Background	Ambient	-1.79887	3.213944	-0.559709	0.5757	0	0	0
HyF	Ambient	-2.50304	8.742710	-0.286300	0.7746	0	0	0
Cleanout	Ambient	-3.26216	8.744778	-0.373041	0.7091	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	28	6373.00	6202.00	227.607	0.381
Background	38	8200.00	8417.00	215.789	-0.420
Cleanout	188	41488.0	41642.0	220.681	-0.169
HyF	188	41842.0	41642.0	222.564	0.220

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.3431	3	0.9517

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57896	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	Ambient	HyF	Background
Cleanout	-0.00683	-0.01266	-0.00505	-0.00857
Ambient	-0.01266	-0.01769	-0.01238	-0.01403
HyF	-0.00505	-0.01238	-0.00683	-0.01035
Background	-0.00857	-0.01403	-0.01035	-0.01518

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

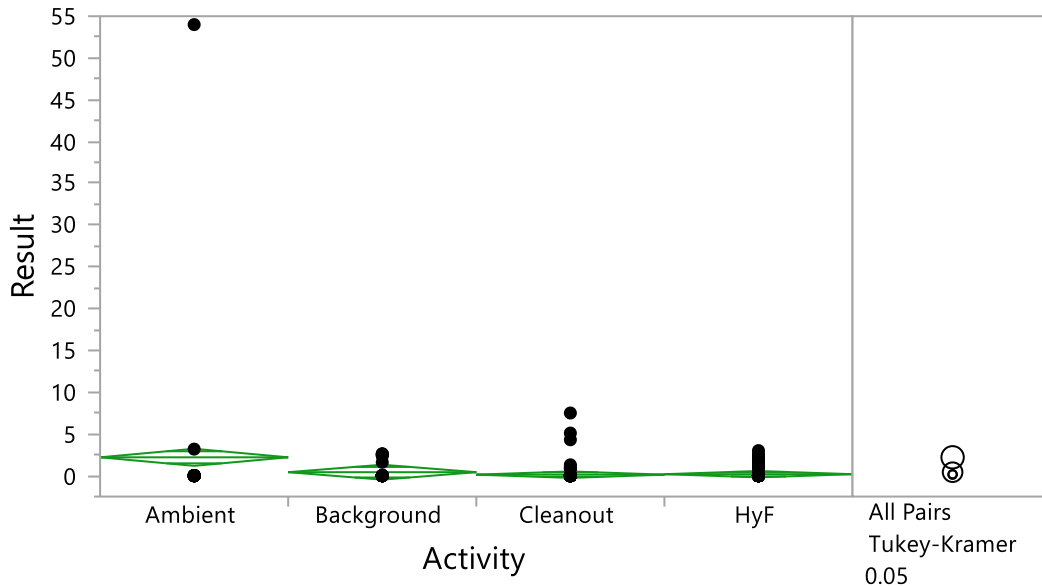
Level	Mean
Cleanout A	0.01017553
Ambient A	0.00942857
HyF A	0.00839894
Background A	0.00697368

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Background	0.0032018	0.0045641	-0.008569	0.0149725	0.8965
Ambient	Background	0.0024549	0.0063911	-0.014027	0.0189371	0.9807
Cleanout	HyF	0.0017766	0.0026467	-0.005049	0.0086024	0.9079
HyF	Background	0.0014253	0.0045641	-0.010345	0.0131959	0.9894
Ambient	HyF	0.0010296	0.0051980	-0.012376	0.0144352	0.9972
Cleanout	Ambient	0.0007470	0.0051980	-0.012659	0.0141525	0.9989

### Oneway Analysis of Result By Activity Analyte (Units)=Carbon Disulfide (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.033254
Adj Rsquare	0.02643
Root Mean Square Error	2.651561

Mean of Response 0.295847  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	102.7848	34.2616	4.8731	0.0024*
Error	425	2988.0793	7.0308		
C. Total	428	3090.8641			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	2.19921	0.52001	1.177	3.2213
Background	34	0.41765	0.45474	-0.476	1.3115
Cleanout	180	0.12161	0.19764	-0.267	0.5101
HyF	189	0.17804	0.19287	-0.201	0.5571

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
HyF	Cleanout	14.1602	5.344417	2.64953	0.0081*	0	0	0
HyF	Ambient	3.7846	7.243232	0.52250	0.6013	0	0	0
Background	Ambient	2.5452	2.687732	0.94699	0.3436	0	0	0
Cleanout	Ambient	-3.5434	4.657392	-0.76081	0.4468	0	0	0
HyF	Background	-7.7908	7.024672	-1.10906	0.2674	0	0	0
Cleanout	Background	-14.3191	4.962759	-2.88531	0.0039*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5546.00	5590.00	213.308	-0.142
Background	34	7983.00	7310.00	234.794	1.944
Cleanout	180	36903.0	38700.0	205.017	-2.843
HyF	189	41803.0	40635.0	221.180	1.836

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
10.0850	3	0.0179*

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	HyF	Cleanout
Ambient	-1.8968	-0.0002	0.5906	0.6427
Background	-0.0002	-1.6587	-1.0344	-0.9828
HyF	0.5906	-1.0344	-0.7035	-0.6558
Cleanout	0.6427	-0.9828	-0.6558	-0.7209

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

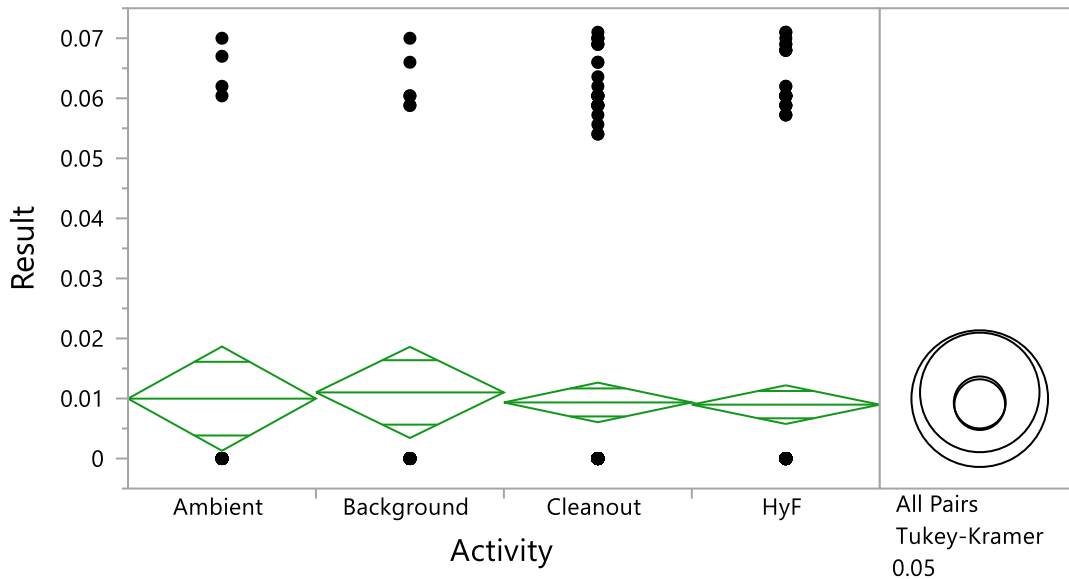
Level	Mean	
Ambient	A	2.1992114
Background	A B	0.4176471
HyF	B	0.1780357
Cleanout	B	0.1216111

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	2.077600	0.5563041	0.64275	3.512454	0.0012*
Ambient	HyF	2.021176	0.5546299	0.59064	3.451711	0.0017*
Ambient	Background	1.781564	0.6907980	-0.00018	3.563313	0.0500
Background	Cleanout	0.296036	0.4958300	-0.98284	1.574911	0.9329
Background	HyF	0.239611	0.4939508	-1.03442	1.513639	0.9624
HyF	Cleanout	0.056425	0.2761516	-0.65584	0.768692	0.9970

### Oneway Analysis of Result By Activity Analyte (Units)=Carbon Tetrachloride (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.000606
Adj Rsquare	-0.00645
Root Mean Square Error	0.022511

Mean of Response 0.009353  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00013060	0.000044	0.0859	0.9677
Error	425	0.21536973	0.000507		
C. Total	428	0.21550034			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.009977	0.00441	0.00130	0.01865
Background	34	0.011013	0.00386	0.00342	0.01860
Cleanout	180	0.009344	0.00168	0.00605	0.01264
HyF	189	0.008977	0.00164	0.00576	0.01220

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
Background	Ambient	0.27149	2.952866	0.091942	0.9267	0	0	0
HyF	Cleanout	-1.04669	6.828279	-0.153288	0.8782	0	0	0
Cleanout	Ambient	-1.25449	7.778837	-0.161269	0.8719	0	0	0
HyF	Ambient	-1.90324	7.947935	-0.239463	0.8107	0	0	0
Cleanout	Background	-2.90229	7.275708	-0.398901	0.6900	0	0	0
HyF	Background	-3.53968	7.422128	-0.476909	0.6334	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5658.50	5590.00	217.635	0.179
Background	34	7500.50	7310.00	220.603	0.442
Cleanout	180	38684.5	38700.0	214.914	-0.019
HyF	189	40391.5	40635.0	213.712	-0.308

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.2648	3	0.9665

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Background	Ambient	Cleanout	HyF
Background	-0.01408	-0.01409	-0.00919	-0.00878
Ambient	-0.01409	-0.01610	-0.01155	-0.01114
Cleanout	-0.00919	-0.01155	-0.00612	-0.00568
HyF	-0.00878	-0.01114	-0.00568	-0.00597

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

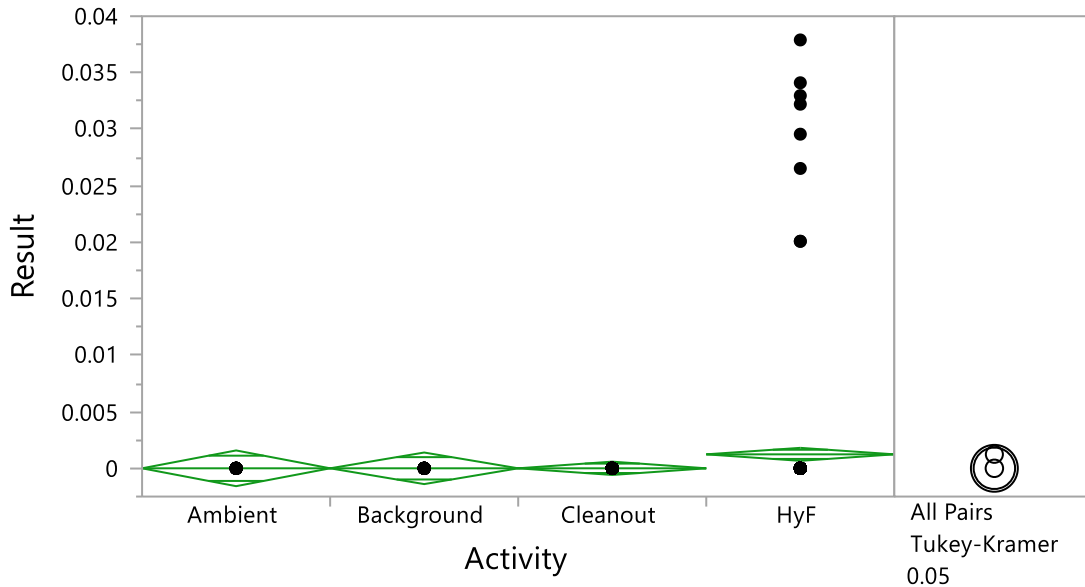
Level	Mean
Background A	0.01101305
Ambient A	0.00997696
Cleanout A	0.00934371
HyF A	0.00897664

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	HyF	0.0020364	0.0041935	-0.008780	0.0128526	0.9623
Background	Cleanout	0.0016693	0.0042095	-0.009188	0.0125267	0.9788
Background	Ambient	0.0010361	0.0058647	-0.014091	0.0161627	0.9980
Ambient	HyF	0.0010003	0.0047087	-0.011145	0.0131452	0.9966
Ambient	Cleanout	0.0006332	0.0047229	-0.011548	0.0128148	0.9991
Cleanout	HyF	0.0003671	0.0023445	-0.005680	0.0064141	0.9986

### Oneway Analysis of Result By Activity Analyte (Units)=Chloroethane (ppb v/v)



Missing Rows 163

### Oneway Anova Summary of Fit

Rsquare	0.02298
Adj Rsquare	0.016035
Root Mean Square Error	0.004021

Mean of Response 0.000548  
 Observations (or Sum Wgts) 426

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00016045	0.000053	3.3086	0.0201*
Error	422	0.00682166	0.000016		
C. Total	425	0.00698211			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	25	0.000000	0.00080	-0.0016	0.00158
Background	32	0.000000	0.00071	-0.0014	0.00140
Cleanout	180	0.000000	0.00030	-0.0006	0.00059
HyF	189	0.001235	0.00029	0.00066	0.00181

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
HyF	Cleanout	7.804101	2.802449	2.784743	0.0054*	0	0	0
HyF	Background	4.658978	3.955265	1.177918	0.2388	0	0	0
HyF	Ambient	4.506455	4.330857	1.040546	0.2981	0	0	0
Background	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
Cleanout	Ambient	0.000000	0.000000	0.000000	1.0000	0	0	0
Cleanout	Background	0.000000	0.000000	0.000000	1.0000	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	25	5237.50	5337.50	209.500	-0.709
Background	32	6704.00	6832.00	209.500	-0.810
Cleanout	180	37710.0	38430.0	209.500	-2.438
HyF	189	41299.5	40351.5	218.516	3.192

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
10.1986	3	0.0170*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57933	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	HyF	Ambient	Background	Cleanout
HyF	-0.00107	-0.00097	-0.00075	0.00016
Ambient	-0.00097	-0.00293	-0.00277	-0.00221
Background	-0.00075	-0.00277	-0.00259	-0.00199
Cleanout	0.00016	-0.00221	-0.00199	-0.00109

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

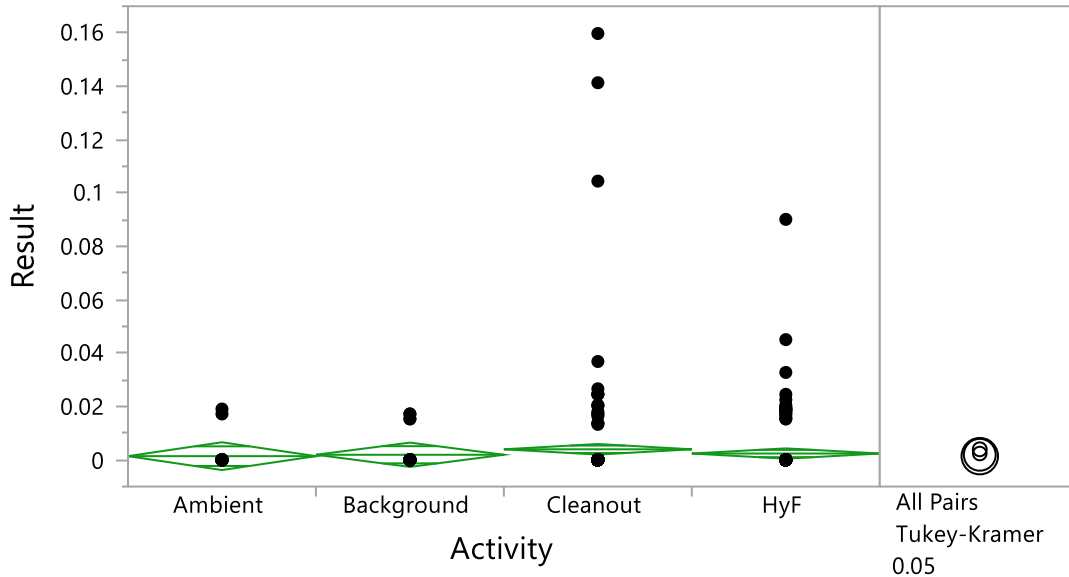
Level	Mean
HyF	A
Ambient	A B
Background	A B
Cleanout	B

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0012353	0.0008556	-0.000972	0.0034423	0.4728
HyF	Background	0.0012353	0.0007686	-0.000747	0.0032177	0.3756
HyF	Cleanout	0.0012353	0.0004187	0.000155	0.0023153	0.0176*
Background	Ambient	0.0000000	0.0010732	-0.002768	0.0027681	1.0000
Cleanout	Ambient	0.0000000	0.0008581	-0.002213	0.0022134	1.0000
Cleanout	Background	0.0000000	0.0007713	-0.001990	0.0019895	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Chloroform (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.004446
Adj Rsquare	-0.00258
Root Mean Square Error	0.013507

Mean of Response 0.002948  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00034621	0.000115	0.6326	0.5943
Error	425	0.07753175	0.000182		
C. Total	428	0.07787797			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.001394	0.00265	-0.0038	0.00660
Background	34	0.001916	0.00232	-0.0026	0.00647
Cleanout	180	0.003965	0.00101	0.0020	0.00594
HyF	189	0.002379	0.00098	0.00045	0.00431

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
Cleanout	Ambient	2.61902	6.424741	0.407646	0.6835	0	0	0
HyF	Ambient	2.18763	6.556944	0.333635	0.7387	0	0	0
Background	Ambient	0.98416	2.368159	0.415581	0.6777	0	0	0
HyF	Cleanout	-1.07381	5.719235	-0.187754	0.8511	0	0	0
Cleanout	Background	-1.17141	6.102690	-0.191949	0.8478	0	0	0
HyF	Background	-1.54427	6.218827	-0.248322	0.8039	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5464.50	5590.00	210.173	-0.396
Background	34	7404.00	7310.00	217.765	0.261
Cleanout	180	38825.5	38700.0	215.697	0.191
HyF	189	40541.0	40635.0	214.503	-0.142

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2446	3	0.9701

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	HyF	Background	Ambient
Cleanout	-0.00367	-0.00204	-0.00447	-0.00474
HyF	-0.00204	-0.00358	-0.00603	-0.00630
Background	-0.00447	-0.00603	-0.00845	-0.00855
Ambient	-0.00474	-0.00630	-0.00855	-0.00966

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

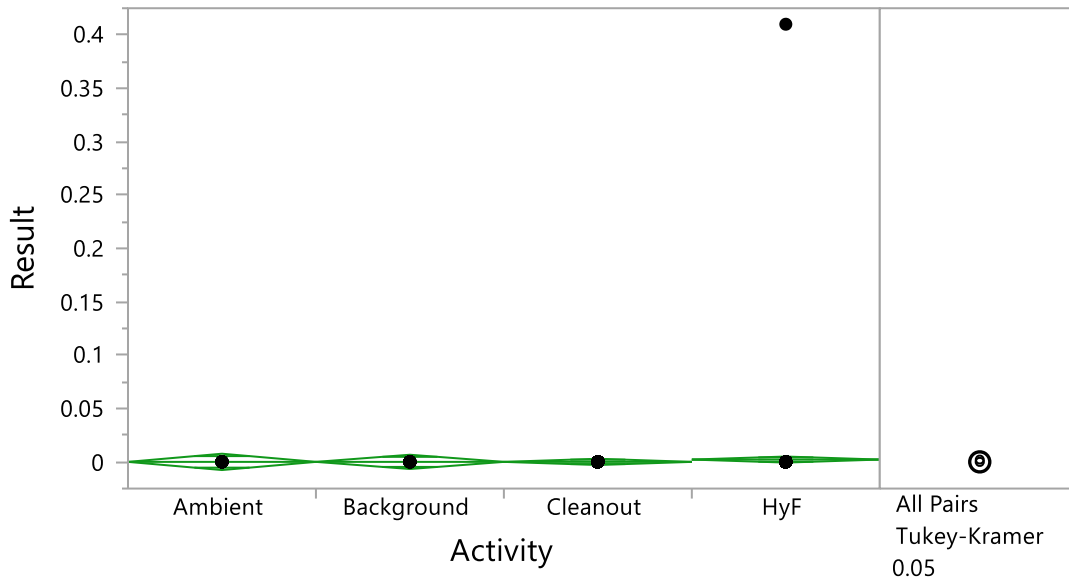
Level	Mean
Cleanout A	0.00396451
HyF A	0.00237879
Background A	0.00191572
Ambient A	0.00139439

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0025701	0.0028337	-0.004739	0.0098790	0.8011
Cleanout	Background	0.0020488	0.0025257	-0.004466	0.0085631	0.8492
Cleanout	HyF	0.0015857	0.0014067	-0.002042	0.0052139	0.6729
HyF	Ambient	0.0009844	0.0028252	-0.006302	0.0082713	0.9855
Background	Ambient	0.0005213	0.0035188	-0.008555	0.0095972	0.9988
HyF	Background	0.0004631	0.0025161	-0.006027	0.0069527	0.9978

### Oneway Analysis of Result By Activity Analyte (Units)=Dibromochloromethane (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.002967
Adj Rsquare	-0.00407
Root Mean Square Error	0.019835

Mean of Response 0.000956  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00049758	0.000166	0.4216	0.7376
Error	425	0.16721058	0.000393		
C. Total	428	0.16770816			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00389	-0.0076	0.00765
Background	34	0.000000	0.00340	-0.0067	0.00669
Cleanout	180	0.000000	0.00148	-0.0029	0.00291
HyF	189	0.002169	0.00144	-0.0007	0.00501

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
HyF	Cleanout	0.9707672	1.000298	0.9704784	0.3318	0	0	0
HyF	Background	0.5725957	1.390928	0.4116647	0.6806	0	0	0
HyF	Ambient	0.5469068	1.533525	0.3566337	0.7214	0	0	0
Background	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Background	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
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38610.0	38700.0	214.500	-0.846
HyF	189	40755.0	40635.0	215.635	1.122

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.2698	3	0.7363

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00526	-0.00853	-0.00736	-0.00316
Ambient	-0.00853	-0.01419	-0.01333	-0.01073
Background	-0.00736	-0.01333	-0.01241	-0.00957
Cleanout	-0.00316	-0.01073	-0.00957	-0.00539

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

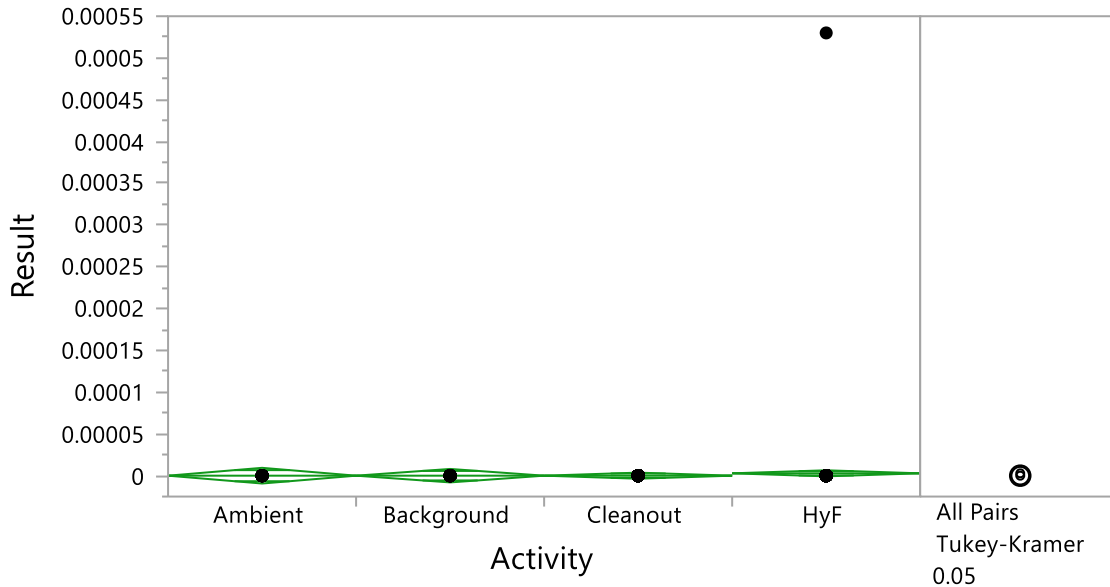
Level	Mean
HyF	0.00216931
Ambient	0.00000000
Background	0.00000000
Cleanout	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0021693	0.0041490	-0.008532	0.0128706	0.9536
HyF	Background	0.0021693	0.0036950	-0.007361	0.0116998	0.9360
HyF	Cleanout	0.0021693	0.0020658	-0.003159	0.0074975	0.7200
Background	Ambient	0.0000000	0.0051676	-0.013329	0.0133285	1.0000
Cleanout	Ambient	0.0000000	0.0041615	-0.010734	0.0107336	1.0000
Cleanout	Background	0.0000000	0.0037091	-0.009567	0.0095667	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Ethane (% v/v)



Missing Rows 148

### Oneway Anova Summary of Fit

Rsquare	0.003059
Adj Rsquare	-0.00379
Root Mean Square Error	2.529e-5

Mean of Response 1.202e-6  
 Observations (or Sum Wgts) 441

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	8.5719e-10	2.857e-10	0.4469	0.7196
Error	437	2.79406e-7	6.394e-10		
C. Total	440	2.80263e-7			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	28	0	4.7786e-6	-9.392e-6	9.3918e-6
Background	38	0	4.1019e-6	-8.062e-6	8.0619e-6
Cleanout	187	0	1.8491e-6	-3.634e-6	3.6342e-6
HyF	188	2.8191e-6	1.8442e-6	-8.054e-7	6.4437e-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
HyF	Cleanout	0.9920071	1.000004	0.9920035	0.3212	0	0	0
HyF	Background	0.5852464	1.336927	0.4377549	0.6616	0	0	0
HyF	Ambient	0.5539514	1.488558	0.3721395	0.7098	0	0	0
Background	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Background	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
Ambient	28	6174.00	6188.00	220.500	-0.251
Background	38	8379.00	8398.00	220.500	-0.299
Cleanout	187	41233.5	41327.0	220.500	-0.853
HyF	188	41674.5	41548.0	221.673	1.155

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
1.3457	3	0.7183

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57898	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00001	-0.00001	-0.00001	-0.00000
Ambient	-0.00001	-0.00002	-0.00002	-0.00001
Background	-0.00001	-0.00002	-0.00001	-0.00001
Cleanout	-0.00000	-0.00001	-0.00001	-0.00001

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

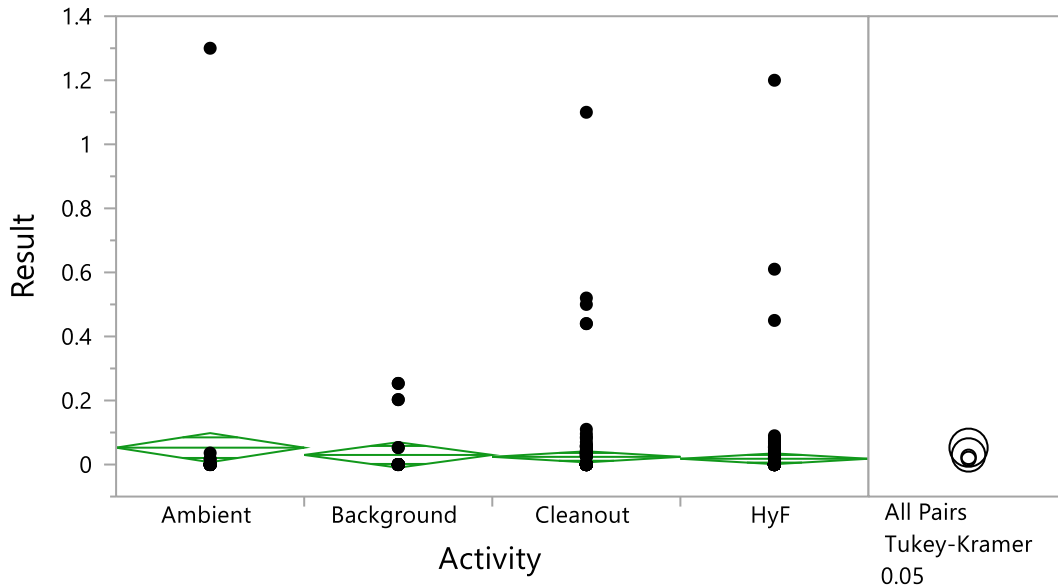
Level	Mean
HyF	2.81915e-6
Ambient	0
Background	0
Cleanout	0

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	2.8191e-6	5.1221e-6	-0.000010	0.0000160	0.9464
HyF	Background	2.8191e-6	4.4974e-6	-8.78e-6	0.0000144	0.9234
HyF	Cleanout	2.8191e-6	2.6115e-6	-3.916e-6	0.0000096	0.7022
Background	Ambient	0	6.2976e-6	-0.000016	0.0000162	1.0000
Cleanout	Ambient	0	5.1239e-6	-0.000013	0.0000132	1.0000
Cleanout	Background	0	0.0000045	-0.000012	0.0000116	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Ethylbenzene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.004929
Adj Rsquare	-0.0021
Root Mean Square Error	0.117966

Mean of Response 0.023578  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0292941	0.009765	0.7017	0.5514
Error	425	5.9142419	0.013916		
C. Total	428	5.9435360			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.052678	0.02313	0.0072	0.09815
Background	34	0.029940	0.02023	-0.0098	0.06970
Cleanout	180	0.024023	0.00879	0.0067	0.04131
HyF	189	0.018007	0.00858	0.0011	0.03487

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
Cleanout	Ambient	3.41132	8.276936	0.412148	0.6802	0	0	0
Background	Ambient	1.05204	2.953158	0.356241	0.7217	0	0	0
HyF	Ambient	0.13126	8.056697	0.016292	0.9870	0	0	0
Cleanout	Background	-1.45114	7.712902	-0.188145	0.8508	0	0	0
HyF	Background	-4.73693	7.517460	-0.630123	0.5286	0	0	0
HyF	Cleanout	-5.99815	7.137262	-0.840399	0.4007	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5492.50	5590.00	211.250	-0.246
Background	34	7505.00	7310.00	220.735	0.436
Cleanout	180	39289.5	38700.0	218.275	0.722
HyF	189	39948.0	40635.0	211.365	-0.837

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.9290	3	0.8184

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD



	Ambient	Background	Cleanout	HyF
Ambient	-0.08439	-0.05653	-0.03518	-0.02897
Background	-0.05653	-0.07379	-0.05098	-0.04475
Cleanout	-0.03518	-0.05098	-0.03207	-0.02567
HyF	-0.02897	-0.04475	-0.02567	-0.03130

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

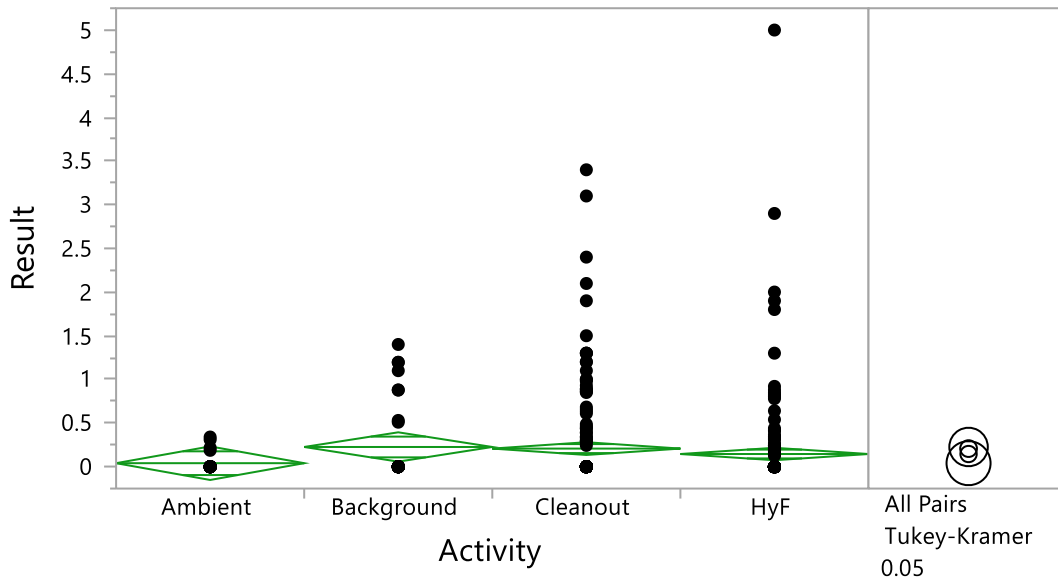
Level	Mean
Ambient	0.05267779
Background	0.02993978
Cleanout	0.02402288
HyF	0.01800706

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.0346707	0.0246750	-0.028972	0.0983139	0.4968
Ambient	Cleanout	0.0286549	0.0247495	-0.035180	0.0924902	0.6538
Ambient	Background	0.0227380	0.0307330	-0.056530	0.1020064	0.8809
Background	HyF	0.0119327	0.0219754	-0.044748	0.0686131	0.9484
Cleanout	HyF	0.0060158	0.0122857	-0.025672	0.0377039	0.9614
Background	Cleanout	0.0059169	0.0220590	-0.050979	0.0628129	0.9932

### Oneway Analysis of Result By Activity Analyte (Units)=Heptane (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.008548
Adj Rsquare	0.00155
Root Mean Square Error	0.498352

Mean of Response 0.171666  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.91007	0.303356	1.2215	0.3015
Error	425	105.55096	0.248355		
C. Total	428	106.46103			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.040578	0.09773	-0.1515	0.23268
Background	34	0.226111	0.08547	0.0581	0.39410
Cleanout	180	0.207711	0.03715	0.1347	0.28072
HyF	189	0.145578	0.03625	0.0743	0.21683

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
Cleanout	Ambient	8.82543	8.802874	1.00256	0.3161	0	0	0
HyF	Ambient	5.31593	8.832545	0.60186	0.5473	0	0	0
Background	Ambient	3.49548	3.178485	1.09973	0.2714	0	0	0
Cleanout	Background	-3.49673	8.318871	-0.42034	0.6742	0	0	0
HyF	Cleanout	-6.66521	7.768554	-0.85797	0.3909	0	0	0
HyF	Background	-7.58256	8.351407	-0.90794	0.3639	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5215.00	5590.00	200.577	-0.874
Background	34	7681.50	7310.00	225.926	0.765
Cleanout	180	39415.5	38700.0	218.975	0.807
HyF	189	39923.0	40635.0	211.233	-0.798

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9951	3	0.5734

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Cleanout	HyF	Ambient
Background	-0.31175	-0.22196	-0.15892	-0.14934
Cleanout	-0.22196	-0.13549	-0.07174	-0.10254
HyF	-0.15892	-0.07174	-0.13223	-0.16386
Ambient	-0.14934	-0.10254	-0.16386	-0.35650

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

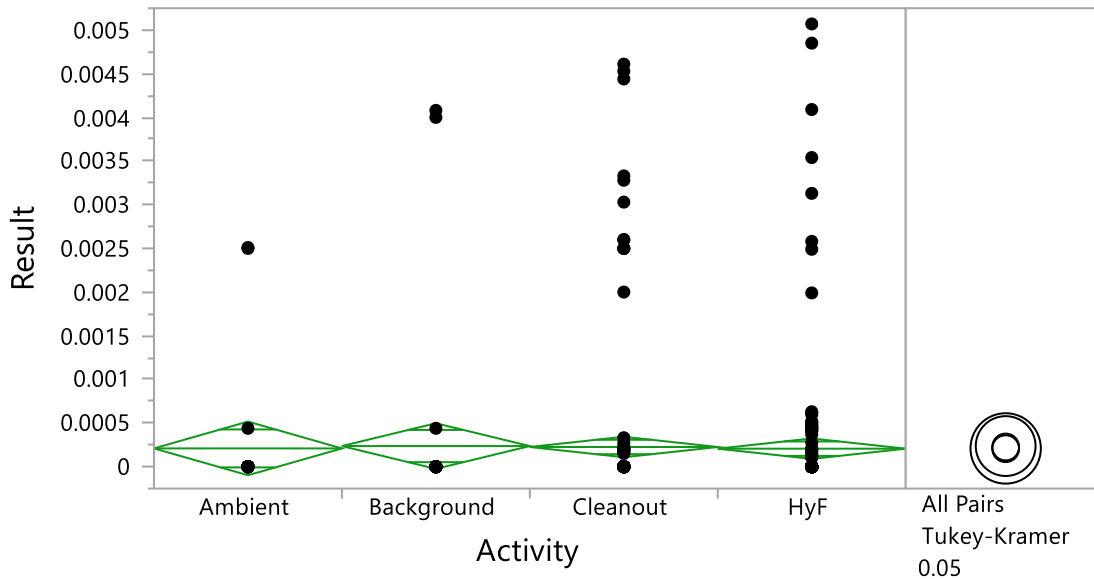
Level	Mean
Background A	0.22611146
Cleanout A	0.20771068
HyF A	0.14557768
Ambient A	0.04057767

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Ambient	0.1855338	0.1298333	-0.149340	0.5204078	0.4819
Cleanout	Ambient	0.1671330	0.1045556	-0.102543	0.4368092	0.3805
HyF	Ambient	0.1050000	0.1042409	-0.163865	0.3738646	0.7452
Background	HyF	0.0805338	0.0928365	-0.158916	0.3199833	0.8216
Cleanout	HyF	0.0621330	0.0519018	-0.071735	0.1960014	0.6290
Background	Cleanout	0.0184008	0.0931897	-0.221960	0.2587613	0.9973

### Oneway Analysis of Result By Activity Analyte (Units)=Hexaldehyde (mg/m3)



Missing Rows 169

### Oneway Anova Summary of Fit

Rsquare	0.000182
Adj Rsquare	-0.00703
Root Mean Square Error	0.000797

Mean of Response 0.000218  
 Observations (or Sum Wgts) 420

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	4.81395e-8	1.6047e-8	0.0253	0.9946
Error	416	0.00026418	6.3505e-7		
C. Total	419	0.00026423			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000210	0.00016	-0.0001	0.00052
Background	36	0.000237	0.00013	-2.4e-5	0.00050
Cleanout	179	0.000226	0.00006	0.00011	0.00034
HyF	179	0.000207	0.00006	0.00009	0.00032

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
HyF	Background	10.0260	7.389625	1.35677	0.1749	0	0	0
HyF	Cleanout	8.7654	6.967175	1.25809	0.2084	0	0	0
HyF	Ambient	6.2328	8.256152	0.75493	0.4503	0	0	0
Cleanout	Background	4.8378	6.541576	0.73955	0.4596	0	0	0
Cleanout	Ambient	1.6078	7.316813	0.21973	0.8261	0	0	0
Background	Ambient	-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
Ambient	26	5307.00	5473.00	204.115	-0.444
Background	36	7118.50	7578.00	197.736	-1.061
Cleanout	179	37077.0	37679.5	207.134	-0.788
HyF	179	38907.5	37679.5	217.360	1.606

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.0562	3	0.3830

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57948	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	Cleanout	Ambient	HyF
Background	-0.00048	-0.00036	-0.00050	-0.00035
Cleanout	-0.00036	-0.00022	-0.00042	-0.00020
Ambient	-0.00050	-0.00042	-0.00057	-0.00043
HyF	-0.00035	-0.00020	-0.00043	-0.00022

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

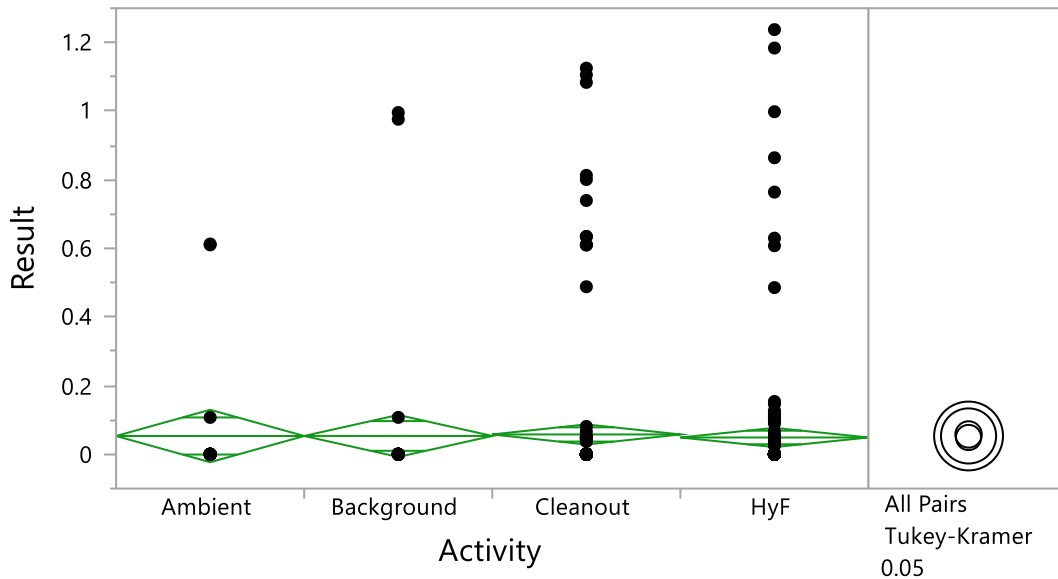
Level	Mean
Background A	0.00023667
Cleanout A	0.00022587
Ambient A	0.00020962
HyF A	0.00020673

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	HyF	0.0000299	0.0001456	-0.000346	0.0004054	0.9969
Background	Ambient	0.0000271	0.0002051	-0.000502	0.0005561	0.9992
Cleanout	HyF	0.0000191	0.0000842	-0.000198	0.0002364	0.9959
Cleanout	Ambient	0.0000163	0.0001673	-0.000415	0.0004477	0.9997
Background	Cleanout	0.0000108	0.0001456	-0.000365	0.0003863	0.9999
Ambient	HyF	0.0000029	0.0001673	-0.000429	0.0004343	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Hexaldehyde (ppb)



Missing Rows 143

### Oneway Anova

#### Summary of Fit

Rsquare	0.000443
Adj Rsquare	-0.00677
Root Mean Square Error	0.194504

Mean of Response 0.053125  
 Observations (or Sum Wgts) 420

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.006971	0.002324	0.0614	0.9801
Error	416	15.738018	0.037832		
C. Total	419	15.744989			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	25	0.053215	0.03890	-0.0233	0.12968
Background	39	0.053328	0.03115	-0.0079	0.11455
Cleanout	170	0.057724	0.01492	0.0284	0.08705
HyF	186	0.048866	0.01426	0.0208	0.07690

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
HyF	Background	11.0887	7.400257	1.49842	0.1340	0	0	0
HyF	Cleanout	8.0950	6.970994	1.16124	0.2455	0	0	0
HyF	Ambient	5.6947	8.619280	0.66070	0.5088	0	0	0
Cleanout	Background	5.5639	6.156184	0.90379	0.3661	0	0	0
Cleanout	Ambient	1.2388	7.141860	0.17346	0.8623	0	0	0
Background	Ambient	-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
Ambient	25	5128.00	5262.50	205.120	-0.366
Background	39	7655.50	8209.50	196.295	-1.234
Cleanout	170	35270.0	35785.0	207.471	-0.678
HyF	186	40356.5	39153.0	216.970	1.567

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.1553	3	0.3683

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57948	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Cleanout	Background	Ambient	HyF
Cleanout	-0.05442	-0.08468	-0.10296	-0.04438
Background	-0.08468	-0.11362	-0.12843	-0.08390
Ambient	-0.10296	-0.12843	-0.14191	-0.10253
HyF	-0.04438	-0.08390	-0.10253	-0.05203

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

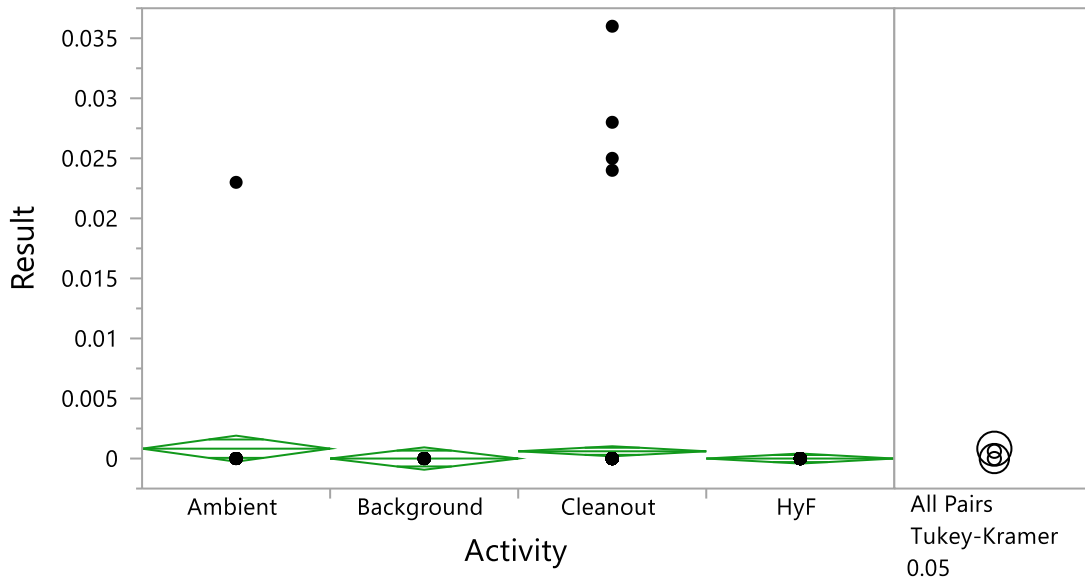
Level	Mean
Cleanout A	0.05772412
Background A	0.05332799
Ambient A	0.05321532
HyF A	0.04886602

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	HyF	0.0088581	0.0206382	-0.044378	0.0620940	0.9734
Cleanout	Ambient	0.0045088	0.0416631	-0.102960	0.1119779	0.9995
Background	HyF	0.0044620	0.0342555	-0.083900	0.0928235	0.9992
Cleanout	Background	0.0043961	0.0345338	-0.084683	0.0934755	0.9993
Ambient	HyF	0.0043493	0.0414327	-0.102526	0.1112242	0.9996
Background	Ambient	0.0001127	0.0498329	-0.128430	0.1286557	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Hydrogen (% v/v)



Missing Rows 148

### Oneway Anova

#### Summary of Fit

Rsquare	0.012005
Adj Rsquare	0.005222
Root Mean Square Error	0.002919

Mean of Response 0.000308  
 Observations (or Sum Wgts) 441

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00004524	0.000015	1.7700	0.1521
Error	437	0.00372282	8.519e-6		
C. Total	440	0.00376806			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	28	0.000821	0.00055	-0.0003	0.00191
Background	38	0.000000	0.00047	-0.0009	0.00093
Cleanout	187	0.000604	0.00021	0.00018	0.00102
HyF	188	0.000000	0.00021	-0.0004	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
Cleanout	Background	2.39059	2.651331	0.90165	0.3672	0	0	0
HyF	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
Background	Ambient	-1.14756	1.011680	-1.13431	0.2567	0	0	0
Cleanout	Ambient	-1.43717	3.291053	-0.43669	0.6623	0	0	0
HyF	Ambient	-3.83663	1.488558	-2.57741	0.0100*	0	0	0
HyF	Cleanout	-4.00536	1.992005	-2.01072	0.0444*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	28	6336.50	6188.00	226.304	1.237
Background	38	8303.00	8398.00	218.500	-0.686
Cleanout	187	41743.5	41327.0	223.227	1.715
HyF	188	41078.0	41548.0	218.500	-1.934

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.7257	3	0.1257

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57898	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	Cleanout	Background	HyF
Ambient	-0.00201	-0.00131	-0.00105	-0.00070
Cleanout	-0.00131	-0.00078	-0.00074	-0.00017
Background	-0.00105	-0.00074	-0.00173	-0.00134
HyF	-0.00070	-0.00017	-0.00134	-0.00078

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

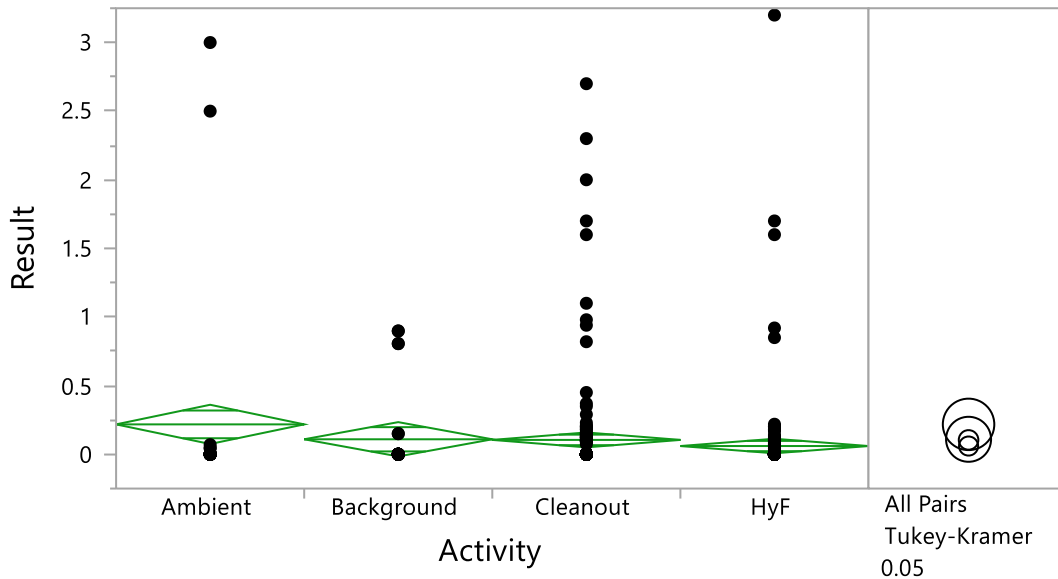
Level	Mean
Ambient A	0.00082143
Cleanout A	0.00060428
Background A	0.00000000
HyF A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Background	0.0008214	0.0007269	-0.001053	0.0026962	0.6712
Ambient	HyF	0.0008214	0.0005912	-0.000703	0.0023462	0.5067
Cleanout	Background	0.0006043	0.0005194	-0.000735	0.0019437	0.6502
Cleanout	HyF	0.0006043	0.0003014	-0.000173	0.0013817	0.1878
Ambient	Cleanout	0.0002172	0.0005914	-0.001308	0.0017425	0.9831
HyF	Background	0.0000000	0.0005191	-0.001339	0.0013388	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=m,p-Xylene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.0109
Adj Rsquare	0.003918
Root Mean Square Error	0.370727

Mean of Response 0.092059  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.643683	0.214561	1.5611	0.1982
Error	425	58.411406	0.137439		
C. Total	428	59.055089			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.217685	0.07271	0.0748	0.36059
Background	34	0.109068	0.06358	-0.0159	0.23404
Cleanout	180	0.104488	0.02763	0.0502	0.15880
HyF	189	0.059880	0.02697	0.0069	0.11288

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
Cleanout	Ambient	1.60662	8.720034	0.18425	0.8538	0	0	0
Cleanout	Background	1.31127	8.028686	0.16332	0.8703	0	0	0
Background	Ambient	-0.23756	3.070140	-0.07738	0.9383	0	0	0
HyF	Ambient	-2.12200	8.557877	-0.24796	0.8042	0	0	0
HyF	Background	-2.65476	7.872659	-0.33721	0.7360	0	0	0
HyF	Cleanout	-8.01019	7.511626	-1.06637	0.2863	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5606.00	5590.00	215.615	0.037
Background	34	7345.00	7310.00	216.029	0.074
Cleanout	180	39514.0	38700.0	219.522	0.950
HyF	189	39770.0	40635.0	210.423	-1.003

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.0941	3	0.7785

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	Cleanout	HyF
Ambient	-0.26520	-0.14050	-0.08742	-0.04220
Background	-0.14050	-0.23191	-0.17423	-0.12894
Cleanout	-0.08742	-0.17423	-0.10079	-0.05498
HyF	-0.04220	-0.12894	-0.05498	-0.09836

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

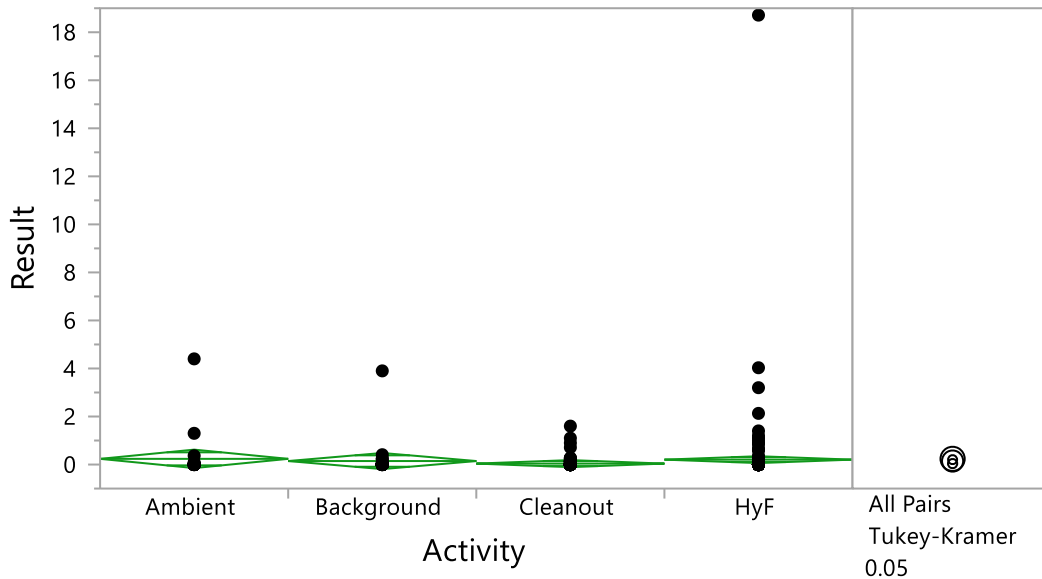
Level	Mean
Ambient	0.21768513
Background	0.10906787
Cleanout	0.10448758
HyF	0.05987958

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.1578056	0.0775454	-0.042204	0.3578154	0.1768
Ambient	Cleanout	0.1131976	0.0777795	-0.087416	0.3138111	0.4656
Ambient	Background	0.1086173	0.0965837	-0.140497	0.3577319	0.6745
Background	HyF	0.0491883	0.0690616	-0.128940	0.2273161	0.8922
Cleanout	HyF	0.0446080	0.0386101	-0.054977	0.1441934	0.6553
Background	Cleanout	0.0045803	0.0693243	-0.174225	0.1833858	0.9999

### Oneway Analysis of Result By Activity Analyte (Units)=Methylene Chloride (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.006649
Adj Rsquare	-0.00036
Root Mean Square Error	0.996277

Mean of Response 0.132435  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	2.82366	0.941219	0.9483	0.4172
Error	425	421.84130	0.992568		
C. Total	428	424.66496			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.236959	0.19539	-0.1471	0.62100
Background	34	0.145731	0.17086	-0.1901	0.48157
Cleanout	180	0.039394	0.07426	-0.1066	0.18535
HyF	189	0.204274	0.07247	0.0618	0.34672

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
HyF	Cleanout	4.88095	6.551542	0.745008	0.4563	0	0	0
Background	Ambient	0.30543	2.953256	0.103421	0.9176	0	0	0
HyF	Ambient	-1.53134	7.949170	-0.192641	0.8472	0	0	0
HyF	Background	-3.14060	7.423524	-0.423061	0.6723	0	0	0
Cleanout	Ambient	-4.00556	7.215603	-0.555124	0.5788	0	0	0
Cleanout	Background	-5.92696	6.785337	-0.873495	0.3824	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5712.00	5590.00	219.692	0.331
Background	34	7576.00	7310.00	222.824	0.639
Cleanout	180	37988.0	38700.0	211.044	-0.938
HyF	189	40959.0	40635.0	216.714	0.424

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.0935	3	0.7786

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	HyF	Background	Cleanout
Ambient	-0.71269	-0.50481	-0.57823	-0.34156
HyF	-0.50481	-0.26434	-0.42015	-0.10274
Background	-0.57823	-0.42015	-0.62323	-0.37418
Cleanout	-0.34156	-0.10274	-0.37418	-0.27087

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

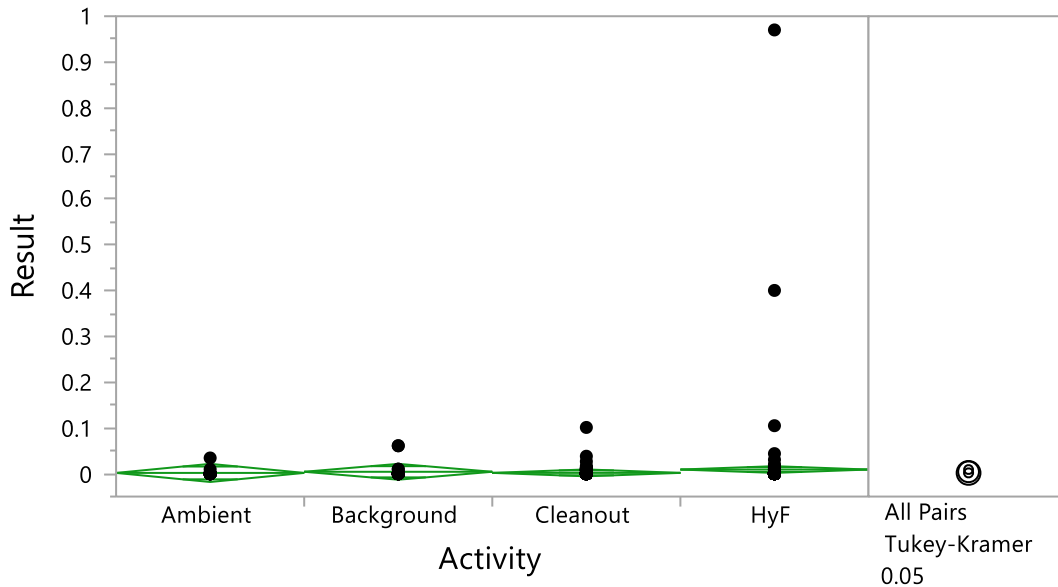
Level	Mean
Ambient	0.23695938
HyF	0.20427415
Background	0.14573119
Cleanout	0.03939423

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.1975652	0.2090214	-0.341556	0.7366859	0.7804
HyF	Cleanout	0.1648799	0.1037591	-0.102742	0.4325017	0.3859
Background	Cleanout	0.1063370	0.1862993	-0.374178	0.5868515	0.9407
Ambient	Background	0.0912282	0.2595551	-0.578232	0.7606886	0.9851
HyF	Background	0.0585430	0.1855932	-0.420150	0.5372364	0.9891
Ambient	HyF	0.0326852	0.2083923	-0.504813	0.5701835	0.9986

### Oneway Analysis of Result By Activity Analyte (Units)=Naphthalene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.004688
Adj Rsquare	-0.00234
Root Mean Square Error	0.051415

Mean of Response 0.005167  
 Observations (or Sum Wgts) 429

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0052921	0.001764	0.6673	0.5725
Error	425	1.1234935	0.002644		
C. Total	428	1.1287856			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.001688	0.01008	-0.0181	0.02151
Background	34	0.004174	0.00882	-0.0132	0.02151
Cleanout	180	0.001769	0.00383	-0.0058	0.00930
HyF	189	0.009061	0.00374	0.0017	0.01641

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
Cleanout	Ambient	2.61902	6.566983	0.398816	0.6900	0	0	0
HyF	Ambient	2.38451	6.702792	0.355749	0.7220	0	0	0
Background	Ambient	1.32353	2.368523	0.558799	0.5763	0	0	0
HyF	Cleanout	-0.30370	5.859544	-0.051831	0.9587	0	0	0
Cleanout	Background	-1.97565	6.224866	-0.317381	0.7510	0	0	0
HyF	Background	-2.16892	6.343960	-0.341888	0.7324	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5455.00	5590.00	209.808	-0.417
Background	34	7450.00	7310.00	219.118	0.382
Cleanout	180	38731.5	38700.0	215.175	0.046
HyF	189	40598.5	40635.0	214.807	-0.054

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.3027	3	0.9595

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57926	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	HyF	Background	Cleanout	Ambient
HyF	-0.01364	-0.01982	-0.00652	-0.02037
Background	-0.01982	-0.03216	-0.02239	-0.03206
Cleanout	-0.00652	-0.02239	-0.01398	-0.02774
Ambient	-0.02037	-0.03206	-0.02774	-0.03678

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

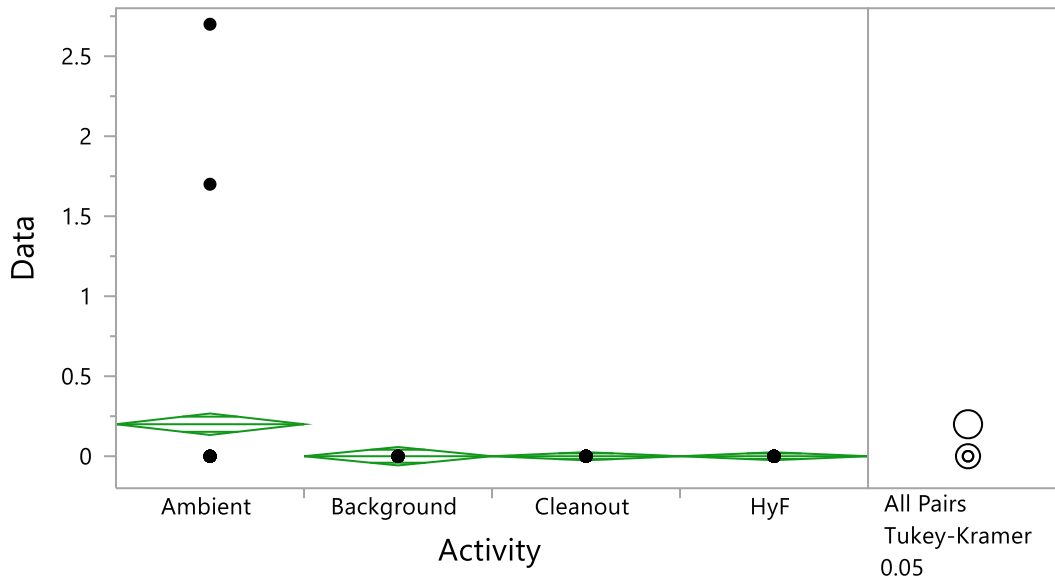
Level	Mean
HyF	0.00906056
Background	0.00417433
Cleanout	0.00176877
Ambient	0.00168751

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0073731	0.0107546	-0.020366	0.0351119	0.9026
HyF	Cleanout	0.0072918	0.0053547	-0.006519	0.0211030	0.5241
HyF	Background	0.0048862	0.0095780	-0.019818	0.0295903	0.9567
Background	Ambient	0.0024868	0.0133949	-0.032062	0.0370358	0.9977
Background	Cleanout	0.0024056	0.0096144	-0.022392	0.0272036	0.9945
Cleanout	Ambient	0.0000813	0.0107870	-0.027741	0.0279038	1.0000

### Oneway Analysis of Data By Activity Analyte (Units)=Nonane (ppb v/v)



Missing Rows 218

### Oneway Anova

#### Summary of Fit

Rsquare	0.081685
Adj Rsquare	0.074096
Root Mean Square Error	0.160062

Mean of Response 0.011989  
 Observations (or Sum Wgts) 367

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.827248	0.275749	10.7631	<.0001*
Error	363	9.300000	0.025620		
C. Total	366	10.127248			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	22	0.200000	0.03413	0.1329	0.26711
Background	30	0.000000	0.02922	-0.0575	0.05747
Cleanout	153	0.000000	0.01294	-0.0254	0.02545
HyF	162	0.000000	0.01258	-0.0247	0.02473

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
Cleanout	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Background	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	0.00000	0.000000	0.00000	1.0000	0	0	0
Background	Ambient	-2.32424	1.417424	-1.63977	0.1011	0	0	0
Cleanout	Ambient	-7.92855	2.126775	-3.72797	0.0002*	0	0	0
HyF	Ambient	-8.33782	2.173455	-3.83621	0.0001*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	22	4393.00	4048.00	199.682	5.600
Background	30	5490.00	5520.00	183.000	-0.415
Cleanout	153	27999.0	28152.0	183.000	-1.194
HyF	162	29646.0	29808.0	183.000	-1.255

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
31.4493	3	<.0001*

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.58100	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	Background	Cleanout	HyF
Ambient	-0.12456	0.08404	0.10580	0.10613
Background	0.08404	-0.10667	-0.08249	-0.08211
Cleanout	0.10580	-0.08249	-0.04723	-0.04657
HyF	0.10613	-0.08211	-0.04657	-0.04590

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

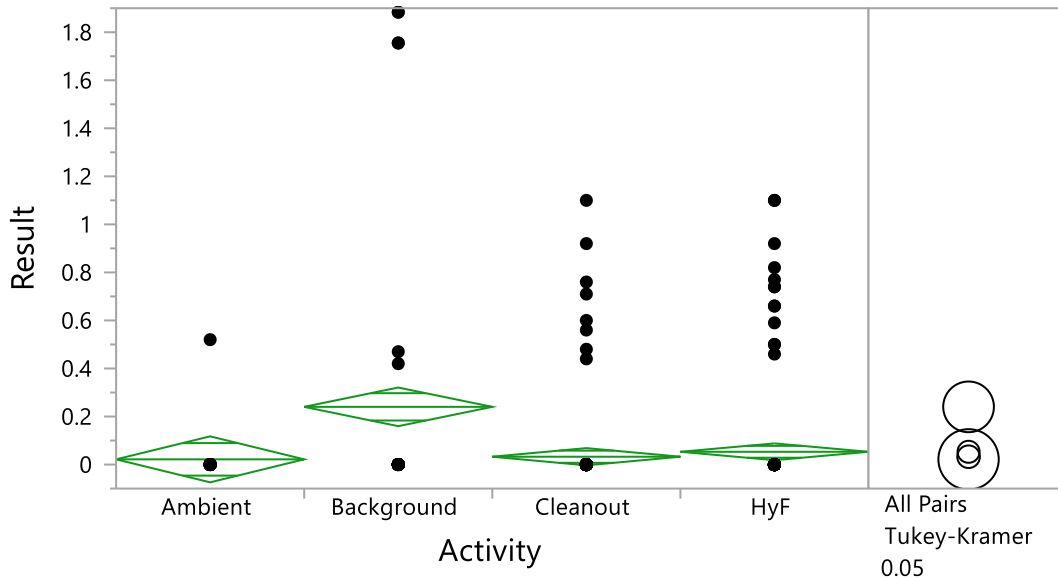
Level	Mean
Ambient	0.20000000
Background	0.00000000
Cleanout	0.00000000
HyF	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Background	0.2000000	0.0449281	0.084040	0.3159595	<.0001*
Ambient	Cleanout	0.2000000	0.0364964	0.105803	0.2941974	<.0001*
Ambient	HyF	0.2000000	0.0363687	0.106132	0.2938678	<.0001*
Cleanout	Background	0.0000000	0.0319600	-0.082489	0.0824890	1.0000
HyF	Background	0.0000000	0.0318142	-0.082112	0.0821125	1.0000
HyF	Cleanout	0.0000000	0.0180443	-0.046572	0.0465724	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Octane (ppb v/v)



Missing Rows 156

### Oneway Anova Summary of Fit

Rsquare	0.05242
Adj Rsquare	0.045401
Root Mean Square Error	0.238594

Mean of Response 0.058233  
 Observations (or Sum Wgts) 409

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	1.275438	0.425146	7.4682	<.0001*
Error	405	23.055508	0.056927		
C. Total	408	24.330946			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.021667	0.04870	-0.0741	0.11741
Background	34	0.240218	0.04092	0.1598	0.32066
Cleanout	171	0.032573	0.01825	-0.0033	0.06844
HyF	180	0.053111	0.01778	0.0182	0.08807

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
HyF	Cleanout	4.5443	4.453985	1.02028	0.3076	0	0	0
Background	Ambient	3.9449	2.547295	1.54864	0.1215	0	0	0
HyF	Ambient	3.2583	5.622271	0.57954	0.5622	0	0	0
Cleanout	Ambient	0.5702	4.472367	0.12749	0.8986	0	0	0
HyF	Background	-11.6266	5.712584	-2.03527	0.0418*	0	0	0
Cleanout	Background	-13.5926	4.870915	-2.79057	0.0053*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	4782.00	4920.00	199.250	-0.559
Background	34	7745.00	6970.00	227.794	2.681
Cleanout	171	34282.5	35055.0	200.482	-1.496
HyF	180	37035.5	36900.0	205.753	0.260

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
8.2340	3	0.0414*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57976	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Background	HyF	Cleanout	Ambient
Background	-0.14928	0.07201	0.09207	0.05445
HyF	0.07201	-0.06488	-0.04519	-0.10231
Cleanout	0.09207	-0.04519	-0.06657	-0.12326
Ambient	0.05445	-0.10231	-0.12326	-0.17768

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

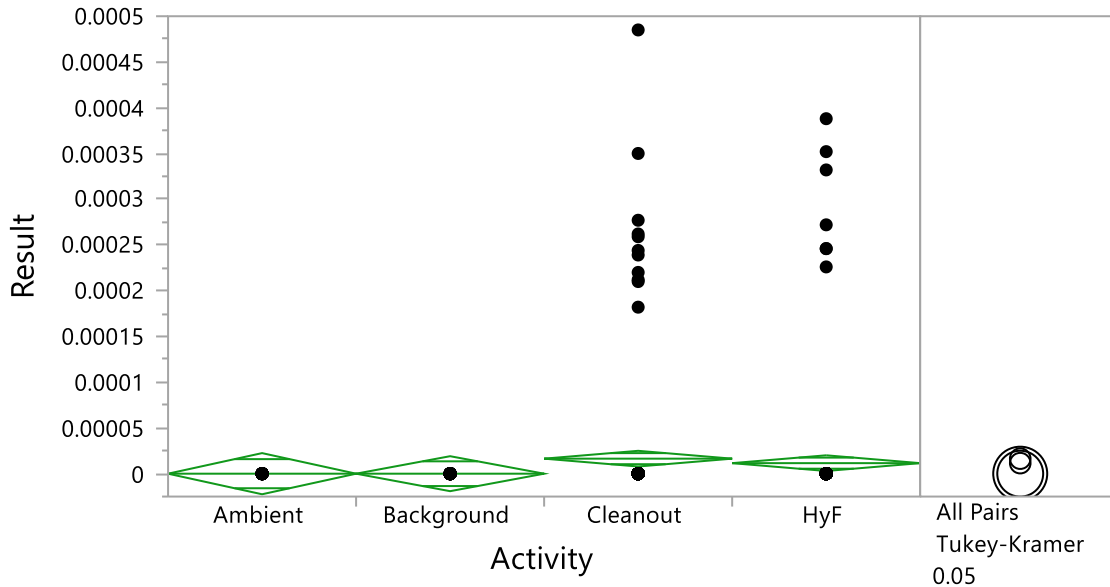
Level	Mean
Background A	0.24021832
HyF B	0.05311111
Cleanout B	0.03257310
Ambient B	0.02166667

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Background	Ambient	0.2185516	0.0636105	0.054452	0.3826517	0.0036*
Background	Cleanout	0.2076452	0.0448022	0.092066	0.3232243	<.0001*
Background	HyF	0.1871072	0.0446160	0.072008	0.3022061	0.0002*
HyF	Ambient	0.0314444	0.0518481	-0.102312	0.1652004	0.9300
HyF	Cleanout	0.0205380	0.0254788	-0.045191	0.0862673	0.8516
Cleanout	Ambient	0.0109064	0.0520084	-0.123263	0.1450758	0.9967

### Oneway Analysis of Result By Activity Analyte (Units)=o-Tolualdehyde (mg/m3)



Missing Rows 169

### Oneway Anova Summary of Fit

Rsquare	0.008729
Adj Rsquare	0.00158
Root Mean Square Error	5.835e-5

Mean of Response 0.000012  
 Observations (or Sum Wgts) 420

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	1.24701e-8	4.1567e-9	1.2211	0.3016
Error	416	1.41613e-6	3.4042e-9		
C. Total	419	1.4286e-6			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	1.14e-5	-2.2e-5	2.25e-5
Background	36	0.000000	0.00001	-1.9e-5	0.00002
Cleanout	179	0.000016	4.36e-6	7.85e-6	2.5e-5
HyF	179	0.000012	4.36e-6	2.95e-6	0.00002

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
Cleanout	Background	6.58946	4.338436	1.51886	0.1288	0	0	0
Cleanout	Ambient	6.27686	4.861957	1.29101	0.1967	0	0	0
HyF	Background	4.18723	3.493661	1.19852	0.2307	0	0	0
HyF	Ambient	3.98636	3.917069	1.01769	0.3088	0	0	0
Background	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	-3.83240	4.142222	-0.92520	0.3549	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5239.00	5473.00	201.500	-1.110
Background	36	7254.00	7578.00	201.500	-1.324
Cleanout	179	38364.0	37679.5	214.324	1.584
HyF	179	37553.0	37679.5	209.793	-0.292

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.2596	3	0.2348

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57948	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Cleanout	HyF	Ambient	Background
Cleanout	-0.00002	-0.00001	-0.00002	-0.00001
HyF	-0.00001	-0.00002	-0.00002	-0.00002
Ambient	-0.00002	-0.00002	-0.00004	-0.00004
Background	-0.00001	-0.00002	-0.00004	-0.00004

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

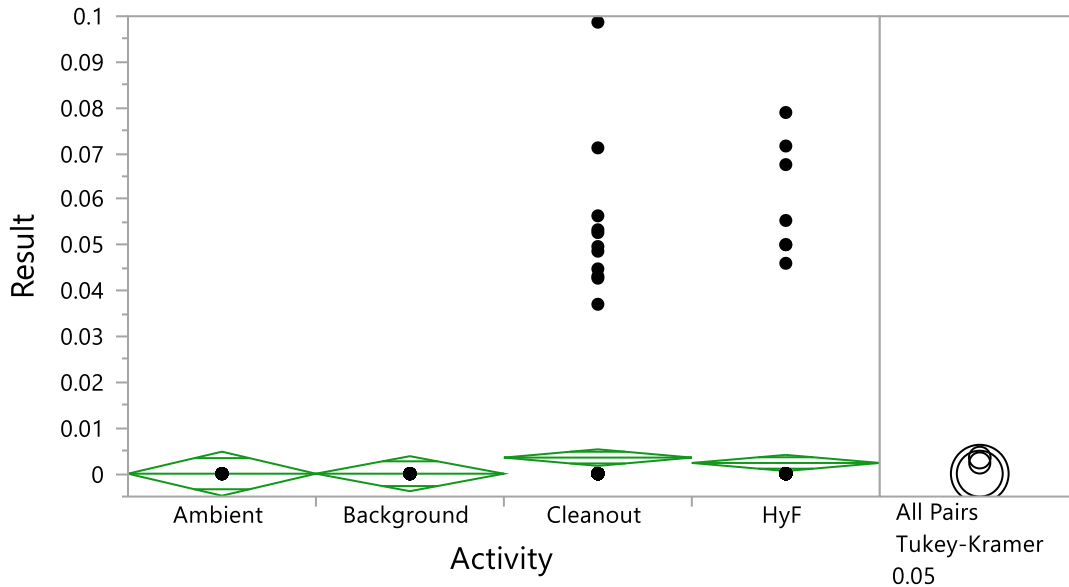
Level	Mean
Cleanout	A
HyF	A
Ambient	A
Background	A

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0000164	0.0000122	-0.000015	0.0000480	0.5371
Cleanout	Background	0.0000164	0.0000107	-0.000011	0.0000439	0.4138
HyF	Ambient	0.0000115	0.0000122	-0.000020	0.0000431	0.7829
HyF	Background	0.0000115	0.0000107	-0.000016	0.0000390	0.7014
Cleanout	HyF	0.0000049	0.0000062	-0.000011	0.0000208	0.8565
Background	Ambient	0.0000000	0.0000150	-0.000039	0.0000387	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=o-Tolualdehyde (ppb)



Missing Rows 152

### Oneway Anova

#### Summary of Fit

Rsquare	0.009614
Adj Rsquare	0.002314
Root Mean Square Error	0.011993

Mean of Response 0.002477  
 Observations (or Sum Wgts) 411

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00056823	0.000189	1.3170	0.2684
Error	407	0.05853562	0.000144		
C. Total	410	0.05910385			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.000000	0.00245	-0.0048	0.00481
Background	38	0.000000	0.00195	-0.0038	0.00382
Cleanout	170	0.003519	0.00092	0.0017	0.00533
HyF	179	0.002344	0.00090	0.00058	0.00411

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
Cleanout	Background	6.71331	4.188642	1.60274	0.1090	0	0	0
Cleanout	Ambient	6.25270	4.907151	1.27420	0.2026	0	0	0
HyF	Background	4.22707	3.432560	1.23146	0.2182	0	0	0
HyF	Ambient	3.94565	4.036649	0.97746	0.3283	0	0	0
Background	Ambient	0.00000	0.000000	0.00000	1.0000	0	0	0
HyF	Cleanout	-4.29512	4.141018	-1.03721	0.2996	0	0	0

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	4728.00	4944.00	197.000	-1.076
Background	38	7486.00	7828.00	197.000	-1.381
Cleanout	170	35736.0	35020.0	210.212	1.701
HyF	179	36716.0	36874.0	205.117	-0.372

**1-way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.6094	3	0.2027

**Means Comparisons**

Comparisons for all pairs using Tukey-Kramer HSD

**Confidence Quantile**

q*	Alpha
2.57971	0.05

**HSD Threshold Matrix**

Abs(Dif)-HSD

	Cleanout	HyF	Ambient	Background
Cleanout	-0.00336	-0.00214	-0.00323	-0.00203
HyF	-0.00214	-0.00327	-0.00438	-0.00318
Ambient	-0.00323	-0.00438	-0.00893	-0.00807
Background	-0.00203	-0.00318	-0.00807	-0.00710

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

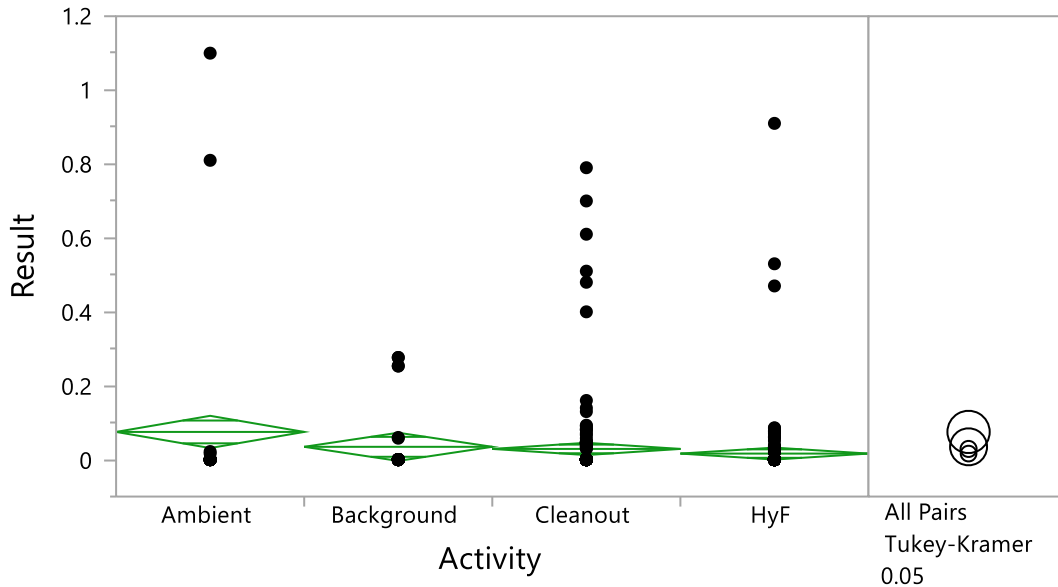
Level	Mean
Cleanout A	0.00351925
HyF A	0.00234416
Ambient A	0.00000000
Background A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.0035192	0.0026151	-0.003227	0.0102654	0.5343
Cleanout	Background	0.0035192	0.0021519	-0.002032	0.0090706	0.3599
HyF	Ambient	0.0023442	0.0026069	-0.004381	0.0090693	0.8052
HyF	Background	0.0023442	0.0021420	-0.003182	0.0078700	0.6932
Cleanout	HyF	0.0011751	0.0012843	-0.002138	0.0044883	0.7969
Background	Ambient	0.0000000	0.0031269	-0.008066	0.0080665	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=o-Xylene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.015195
Adj Rsquare	0.008243
Root Mean Square Error	0.113126

Mean of Response 0.026603  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0839189	0.027973	2.1858	0.0891
Error	425	5.4389007	0.012797		
C. Total	428	5.5228196			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.074932	0.02219	0.0313	0.11854
Background	34	0.034628	0.01940	-0.0035	0.07276
Cleanout	180	0.028918	0.00843	0.0123	0.04549
HyF	189	0.016307	0.00823	0.00013	0.03248

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
Cleanout	Ambient	3.01517	8.369536	0.36026	0.7187	0	0	0
Background	Ambient	0.64480	2.953256	0.21833	0.8272	0	0	0
HyF	Ambient	-0.10938	8.161494	-0.01340	0.9893	0	0	0
Cleanout	Background	-0.75180	7.794385	-0.09645	0.9232	0	0	0
HyF	Background	-4.33785	7.609113	-0.57009	0.5686	0	0	0
HyF	Cleanout	-7.45159	7.234505	-1.03001	0.3030	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5514.00	5590.00	212.077	-0.189
Background	34	7467.50	7310.00	219.632	0.348
Cleanout	180	39434.5	38700.0	219.081	0.890
HyF	189	39819.0	40635.0	210.683	-0.983

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.1471	3	0.7657

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	Background	Cleanout	HyF
Ambient	-0.08093	-0.03571	-0.01520	-0.00241
Background	-0.03571	-0.07077	-0.04885	-0.03603
Cleanout	-0.01520	-0.04885	-0.03076	-0.01778
HyF	-0.00241	-0.03603	-0.01778	-0.03002

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

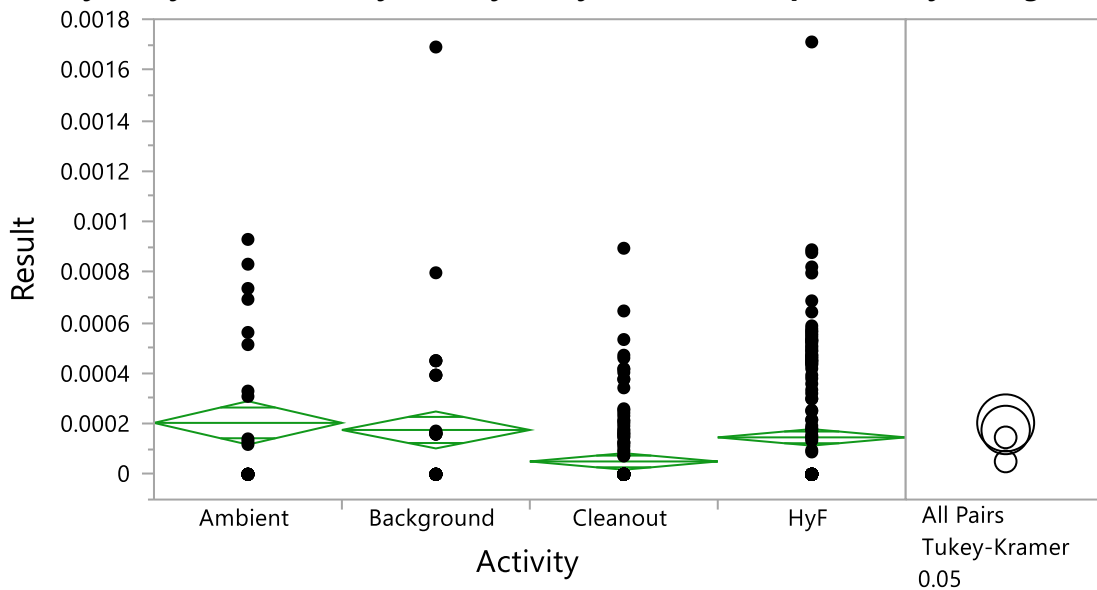
Level	Mean	
Ambient	A	0.07493186
Background	A	0.03462761
Cleanout	A	0.02891829
HyF	A	0.01630660

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	HyF	0.0586253	0.0236626	-0.002407	0.1196573	0.0649
Ambient	Cleanout	0.0460136	0.0237340	-0.015203	0.1072299	0.2135
Ambient	Background	0.0403042	0.0294721	-0.035712	0.1163204	0.5205
Background	HyF	0.0183210	0.0210738	-0.036034	0.0726759	0.8207
Cleanout	HyF	0.0126117	0.0117817	-0.017776	0.0429997	0.7077
Background	Cleanout	0.0057093	0.0211540	-0.048852	0.0602710	0.9931

### Oneway Analysis of Result By Activity Analyte (Units)=Propionaldehyde (mg/m3)



Missing Rows 169

### Oneway Anova

#### Summary of Fit

Rsquare	0.056582
Adj Rsquare	0.049779
Root Mean Square Error	0.000223

Mean of Response 0.000111  
 Observations (or Sum Wgts) 420

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00000124	4.1312e-7	8.3167	<.0001*
Error	416	0.00002066	4.9673e-8		
C. Total	419	0.00002190			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000203	4.37e-5	0.00012	0.00029
Background	36	0.000175	3.71e-5	0.00010	0.00025
Cleanout	179	0.000051	1.67e-5	1.8e-5	8.35e-5
HyF	179	0.000146	1.67e-5	0.00011	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
HyF	Cleanout	29.6872	8.40117	3.53369	0.0004*	0	0.000000	0
Background	Ambient	-0.2318	4.20423	-0.05514	0.9560	0	0.000000	0
HyF	Background	-7.4236	9.62806	-0.77103	0.4407	0	0.000000	0
HyF	Ambient	-11.2323	10.47631	-1.07216	0.2836	0	0.000000	0
Cleanout	Ambient	-27.2217	9.01744	-3.01879	0.0025*	0	-0.000118	0
Cleanout	Background	-29.1104	8.41176	-3.46068	0.0005*	0	-0.000072	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	6351.00	5473.00	244.269	1.841
Background	36	8670.00	7578.00	240.833	1.972
Cleanout	179	33530.5	37679.5	187.321	-4.242
HyF	179	39858.5	37679.5	222.673	2.228

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
19.9187	3	0.0002*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57948	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	HyF	Cleanout
Ambient	-0.00016	-0.00012	-0.00006	0.00003
Background	-0.00012	-0.00014	-0.00008	0.00002
HyF	-0.00006	-0.00008	-0.00006	0.00003
Cleanout	0.00003	0.00002	0.00003	-0.00006

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

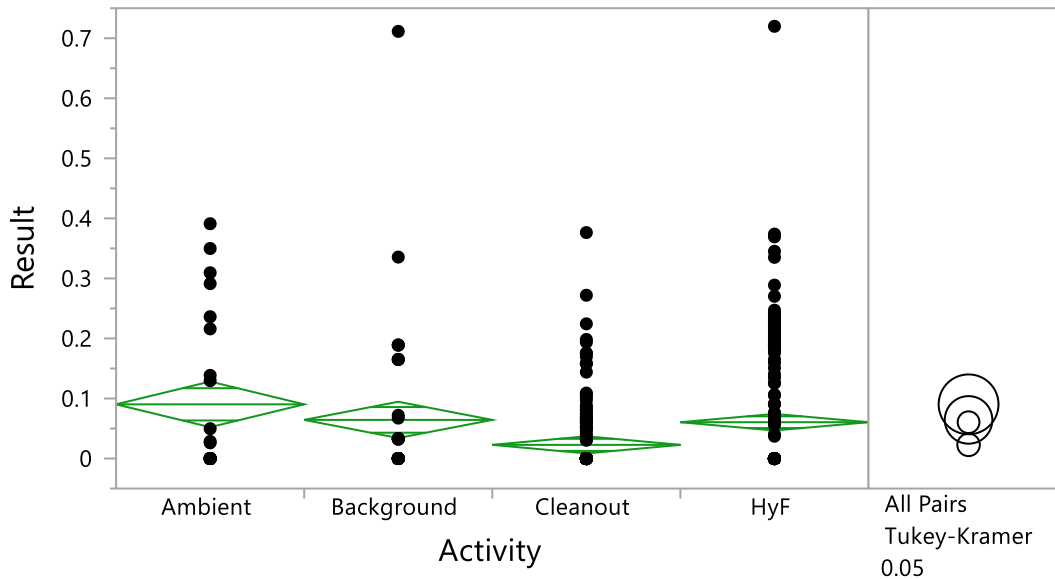
Level	Mean	
Ambient	A	0.00020327
Background	A	0.00017528
HyF	A	0.00014600
Cleanout	B	0.00005074

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.0001525	0.0000468	0.000032	0.0002732	0.0066*
Background	Cleanout	0.0001245	0.0000407	0.000020	0.0002296	0.0126*
HyF	Cleanout	0.0000953	0.0000236	0.000034	0.0001560	0.0004*
Ambient	HyF	0.0000573	0.0000468	-0.000063	0.0001779	0.6117
Background	HyF	0.0000293	0.0000407	-0.000076	0.0001343	0.8894
Ambient	Background	0.0000280	0.0000574	-0.000120	0.0001760	0.9618

### Oneway Analysis of Result By Activity Analyte (Units)=Propionaldehyde (ppb)



Missing Rows 149

### Oneway Anova Summary of Fit

Rsquare	0.048973
Adj Rsquare	0.042014
Root Mean Square Error	0.094691

Mean of Response 0.047096  
 Observations (or Sum Wgts) 414

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.1893054	0.063102	7.0376	0.0001*
Error	410	3.6762076	0.008966		
C. Total	413	3.8655130			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	24	0.090262	0.01933	0.05227	0.12826
Background	38	0.064363	0.01536	0.03417	0.09456
Cleanout	170	0.022781	0.00726	0.00850	0.03706
HyF	182	0.060510	0.00702	0.04671	0.07431

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
HyF	Cleanout	25.9791	8.41879	3.08584	0.0020*	0	0.000000	0
Background	Ambient	-2.4814	4.25919	-0.58259	0.5602	0	-0.026942	0
HyF	Background	-4.8511	9.55061	-0.50793	0.6115	0	0.000000	0
HyF	Ambient	-15.3038	10.87629	-1.40708	0.1594	0	-0.026200	0
Cleanout	Background	-22.2972	8.15362	-2.73464	0.0062*	0	0.000000	0
Cleanout	Ambient	-27.4358	9.12936	-3.00523	0.0027*	0	-0.028500	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	24	5919.50	4980.00	246.646	2.060
Background	38	8694.00	7885.00	228.789	1.436
Cleanout	170	31720.5	35275.0	186.591	-3.704
HyF	182	39571.0	37765.0	217.423	1.865

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
15.9132	3	0.0012*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57963	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Ambient	Background	HyF	Cleanout
Ambient	-0.07051	-0.03779	-0.02330	0.01422
Background	-0.03779	-0.05604	-0.03971	-0.00225
HyF	-0.02330	-0.03971	-0.02561	0.01168
Cleanout	0.01422	-0.00225	0.01168	-0.02649

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

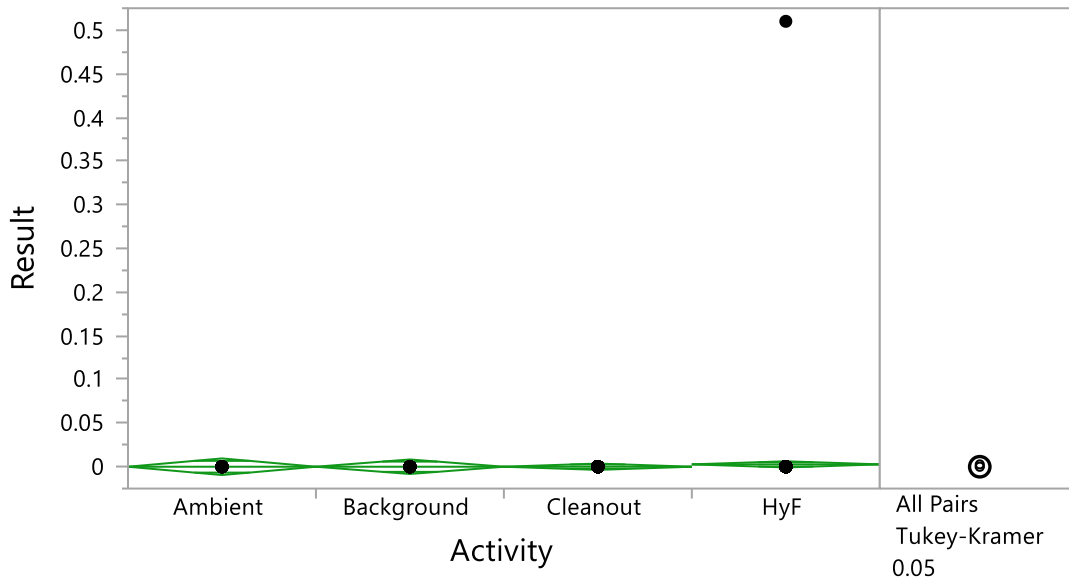
Level	Mean	
Ambient	A	0.09026212
Background	A B	0.06436333
HyF	A	0.06051043
Cleanout	B	0.02278122

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.0674809	0.0206480	0.014217	0.1207453	0.0064*
Background	Cleanout	0.0415821	0.0169912	-0.002249	0.0854131	0.0701
HyF	Cleanout	0.0377292	0.0101000	0.011675	0.0637834	0.0012*
Ambient	HyF	0.0297517	0.0205637	-0.023295	0.0827984	0.4709
Ambient	Background	0.0258988	0.0246892	-0.037790	0.0895878	0.7207
Background	HyF	0.0038529	0.0168885	-0.039713	0.0474191	0.9958

### Oneway Analysis of Result By Activity Analyte (Units)=Styrene (ppb v/v)



Missing Rows 160

### Oneway Anova

#### Summary of Fit

Rsquare	0.002967
Adj Rsquare	-0.00407
Root Mean Square Error	0.024673

Mean of Response 0.001189  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00076990	0.000257	0.4216	0.7376
Error	425	0.25872381	0.000609		
C. Total	428	0.25949371			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00484	-0.0095	0.00951
Background	34	0.000000	0.00423	-0.0083	0.00832
Cleanout	180	0.000000	0.00184	-0.0036	0.00361
HyF	189	0.002698	0.00179	-0.0008	0.00623

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
HyF	Cleanout	0.9707672	1.000298	0.9704784	0.3318	0	0	0
HyF	Background	0.5725957	1.390928	0.4116647	0.6806	0	0	0
HyF	Ambient	0.5469068	1.533525	0.3566337	0.7214	0	0	0
Background	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Ambient	0.0000000	0.000000	0.0000000	1.0000	0	0	0
Cleanout	Background	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
Ambient	26	5577.00	5590.00	214.500	-0.244
Background	34	7293.00	7310.00	214.500	-0.285
Cleanout	180	38610.0	38700.0	214.500	-0.846
HyF	189	40755.0	40635.0	215.635	1.122

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.2698	3	0.7363

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Ambient	Background	Cleanout
HyF	-0.00655	-0.01061	-0.00916	-0.00393
Ambient	-0.01061	-0.01765	-0.01658	-0.01335
Background	-0.00916	-0.01658	-0.01543	-0.01190
Cleanout	-0.00393	-0.01335	-0.01190	-0.00671

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

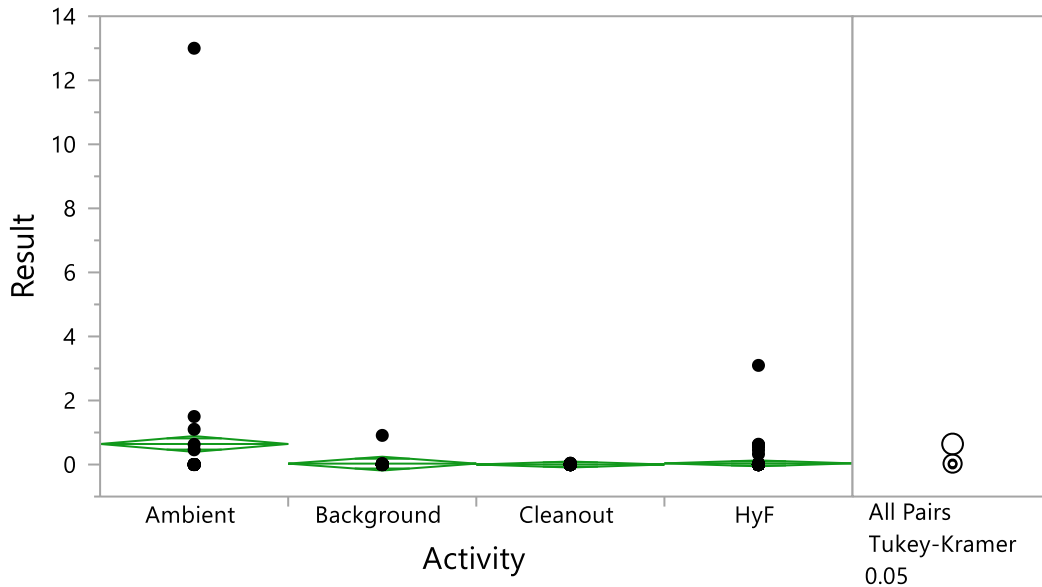
Level	Mean
HyF	0.00269841
Ambient	0.00000000
Background	0.00000000
Cleanout	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0026984	0.0051609	-0.010613	0.0160097	0.9536
HyF	Background	0.0026984	0.0045963	-0.009157	0.0145534	0.9360
HyF	Cleanout	0.0026984	0.0025696	-0.003929	0.0093261	0.7200
Background	Ambient	0.0000000	0.0064280	-0.016579	0.0165794	1.0000
Cleanout	Ambient	0.0000000	0.0051765	-0.013351	0.0133515	1.0000
Cleanout	Background	0.0000000	0.0046138	-0.011900	0.0119001	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Tetrachloroethene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.051936
Adj Rsquare	0.045243
Root Mean Square Error	0.64097

Mean of Response 0.057841  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	9.56515	3.18838	7.7606	<.0001*
Error	425	174.60785	0.41084		
C. Total	428	184.17301			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.641923	0.12570	0.3948	0.88900
Background	34	0.028673	0.10993	-0.1874	0.24474
Cleanout	180	0.000876	0.04778	-0.0930	0.09478
HyF	189	0.036990	0.04662	-0.0547	0.12863

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
HyF	Cleanout	10.5700	5.344420	1.97776	0.0480*	0	0	0
Background	Ambient	-2.0362	2.953256	-0.68948	0.4905	0	0	0
HyF	Background	-4.1123	6.698167	-0.61394	0.5393	0	0	0
Cleanout	Background	-9.9482	5.124712	-1.94122	0.0522	0	0	0
HyF	Ambient	-10.5662	7.368859	-1.43390	0.1516	0	0	0
Cleanout	Ambient	-15.1639	5.633929	-2.69153	0.0071*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	6207.50	5590.00	238.750	1.974
Background	34	7683.50	7310.00	225.985	1.054
Cleanout	180	37095.0	38700.0	206.083	-2.482
HyF	189	41249.0	40635.0	218.249	0.943

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
8.7693	3	0.0325*

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD



	Ambient	HyF	Background	Cleanout
Ambient	-0.45852	0.25913	0.18254	0.29420
HyF	0.25913	-0.17007	-0.29966	-0.13606
Background	0.18254	-0.29966	-0.40097	-0.28135
Cleanout	0.29420	-0.13606	-0.28135	-0.17427

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

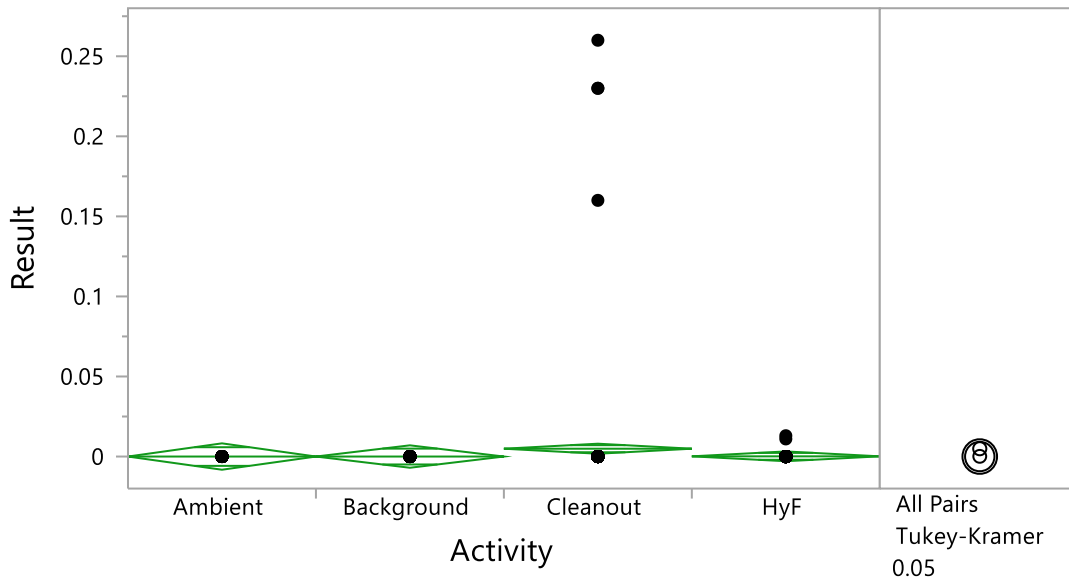
Level	Mean
Ambient	0.64192308
HyF	0.03699046
Background	0.02867287
Cleanout	0.00087550

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Ambient	Cleanout	0.6410476	0.1344770	0.294196	0.987899	<.0001*
Ambient	Background	0.6132502	0.1669886	0.182543	1.043957	0.0015*
Ambient	HyF	0.6049326	0.1340723	0.259125	0.950740	<.0001*
HyF	Cleanout	0.0361150	0.0667549	-0.136063	0.208293	0.9489
Background	Cleanout	0.0277974	0.1198584	-0.281349	0.336944	0.9956
HyF	Background	0.0083176	0.1194042	-0.299657	0.316292	0.9999

### Oneway Analysis of Result By Activity Analyte (Units)=Tetraethylene Glycol (mg/m3)



Missing Rows 158

### Oneway Anova Summary of Fit

Rsquare	0.012205
Adj Rsquare	0.005265
Root Mean Square Error	0.021369

Mean of Response 0.002097  
 Observations (or Sum Wgts) 431

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.00240918	0.000803	1.7586	0.1544
Error	427	0.19498473	0.000457		
C. Total	430	0.19739391			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000000	0.00419	-0.0082	0.00824
Background	36	0.000000	0.00356	-0.0070	0.00700
Cleanout	180	0.004889	0.00159	0.0018	0.00802
HyF	189	0.000127	0.00155	-0.0029	0.00318

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
Cleanout	Background	2.38333	2.664626	0.894434	0.3711	0	0	0
Cleanout	Ambient	2.26688	2.989280	0.758337	0.4482	0	0	0
HyF	Background	1.17394	1.924501	0.609998	0.5419	0	0	0
HyF	Ambient	1.11569	2.163683	0.515644	0.6061	0	0	0
Background	Ambient	0.00000	0.000000	0.000000	1.0000	0	0	0
HyF	Cleanout	-2.18558	2.433619	-0.898079	0.3691	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5538.00	5616.00	213.000	-0.620
Background	36	7668.00	7776.00	213.000	-0.740
Cleanout	180	39206.0	38880.0	217.811	1.258
HyF	189	40684.0	40824.0	215.259	-0.536

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9594	3	0.5809

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57921	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	Cleanout	HyF	Ambient	Background
Cleanout	-0.00581	-0.00098	-0.00667	-0.00517
HyF	-0.00098	-0.00567	-0.01140	-0.00990
Ambient	-0.00667	-0.01140	-0.01529	-0.01419
Background	-0.00517	-0.00990	-0.01419	-0.01299

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

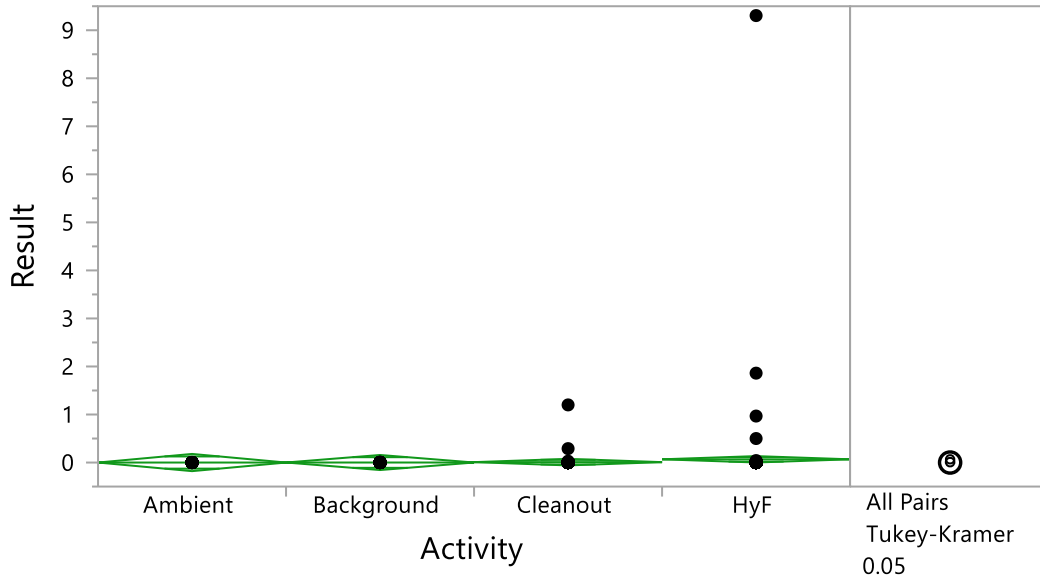
Level	Mean
Cleanout A	0.00488889
HyF A	0.00012698
Ambient A	0.00000000
Background A	0.00000000

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Cleanout	Ambient	0.00488889	0.0044833	-0.006674	0.0164523	0.6956
Cleanout	Background	0.00488889	0.0039014	-0.005174	0.0149516	0.5934
Cleanout	HyF	0.0047619	0.0022255	-0.000978	0.0105020	0.1423
HyF	Ambient	0.0001270	0.0044698	-0.011402	0.0116555	1.0000
HyF	Background	0.0001270	0.0038859	-0.009896	0.0101496	1.0000
Background	Ambient	0.0000000	0.0054998	-0.014185	0.0141851	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Trichloroethene (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.004284
Adj Rsquare	-0.00274
Root Mean Square Error	0.464986

Mean of Response 0.033328  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.395333	0.131778	0.6095	0.6091
Error	425	91.889899	0.216212		
C. Total	428	92.285232			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.000165	0.09119	-0.1791	0.17941
Background	34	0.000635	0.07974	-0.1561	0.15738
Cleanout	180	0.008508	0.03466	-0.0596	0.07663
HyF	189	0.067408	0.03382	0.00093	0.13389

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
HyF	Cleanout	7.51124	4.358702	1.72328	0.0848	0	0	0
HyF	Ambient	3.93773	5.746738	0.68521	0.4932	0	0	0
Background	Ambient	2.34163	2.180764	1.07377	0.2829	0	0	0
Cleanout	Ambient	-0.41816	3.925524	-0.10652	0.9152	0	0	0
HyF	Background	-4.42460	5.677419	-0.77933	0.4358	0	0	0
Cleanout	Background	-8.86422	4.234435	-2.09336	0.0363*	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5474.50	5590.00	210.558	-0.462
Background	34	7727.00	7310.00	227.265	1.479
Cleanout	180	37743.0	38700.0	209.683	-1.859
HyF	189	41290.5	40635.0	218.468	1.265

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.1260	3	0.1628

### Means Comparisons

#### Comparisons for all pairs using Tukey-Kramer HSD

#### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	HyF	Cleanout	Background	Ambient
HyF	-0.12337	-0.06601	-0.15664	-0.18362
Cleanout	-0.06601	-0.12642	-0.21639	-0.24328
Background	-0.15664	-0.21639	-0.29088	-0.31198
Ambient	-0.18362	-0.24328	-0.31198	-0.33263

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

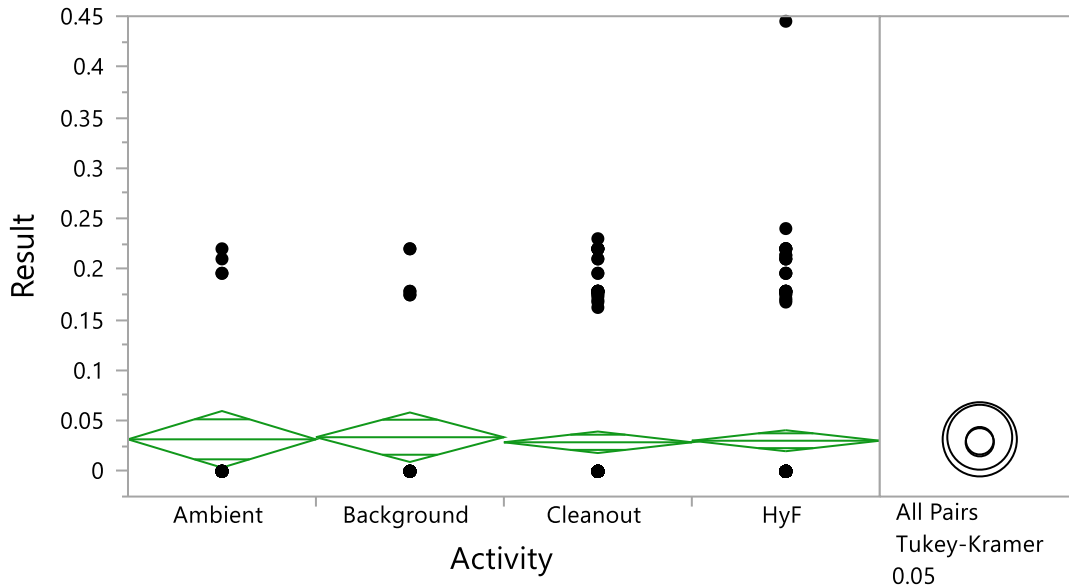
Level	Mean
HyF	0.06740811
Cleanout	0.00850834
Background	0.00063493
Ambient	0.00016463

Levels not connected by same letter are significantly different.

### Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
HyF	Ambient	0.0672435	0.0972615	-0.183619	0.3181063	0.9004
HyF	Background	0.0667732	0.0866207	-0.156644	0.2901905	0.8676
HyF	Cleanout	0.0588998	0.0484268	-0.066005	0.1838050	0.6168
Cleanout	Ambient	0.0083437	0.0975551	-0.243276	0.2599639	0.9998
Cleanout	Background	0.0078734	0.0869502	-0.216394	0.2321407	0.9997
Background	Ambient	0.0004703	0.1211404	-0.311982	0.3129230	1.0000

### Oneway Analysis of Result By Activity Analyte (Units)=Trichlorofluoromethane (ppb v/v)



Missing Rows 160

### Oneway Anova Summary of Fit

Rsquare	0.000378
Adj Rsquare	-0.00668
Root Mean Square Error	0.072599

Mean of Response 0.029925  
 Observations (or Sum Wgts) 429

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Activity	3	0.0008471	0.000282	0.0536	0.9836
Error	425	2.2399859	0.005271		
C. Total	428	2.2408330			

### Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Ambient	26	0.031600	0.01424	0.00361	0.05959
Background	34	0.033673	0.01245	0.00920	0.05815
Cleanout	180	0.028675	0.00541	0.01804	0.03931
HyF	189	0.030210	0.00528	0.01983	0.04059

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
Background	Ambient	0.30543	2.952769	0.103438	0.9176	0	0	0
HyF	Cleanout	0.11931	6.881260	0.017339	0.9862	0	0	0
HyF	Ambient	-1.20319	8.055942	-0.149355	0.8813	0	0	0
Cleanout	Ambient	-1.34252	7.778264	-0.172599	0.8630	0	0	0
Cleanout	Background	-2.70997	7.275008	-0.372504	0.7095	0	0	0
HyF	Background	-2.75887	7.516504	-0.367042	0.7136	0	0	0

### Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Ambient	26	5644.00	5590.00	217.077	0.140
Background	34	7473.00	7310.00	219.794	0.376
Cleanout	180	38579.5	38700.0	214.331	-0.152
HyF	189	40538.5	40635.0	214.489	-0.121

### 1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.1711	3	0.9821

### Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

### Confidence Quantile

q*	Alpha
2.57926	0.05

### HSD Threshold Matrix

Abs(Dif)-HSD

	<b>Background</b>	<b>Ambient</b>	<b>HyF</b>	<b>Cleanout</b>
	<b>d</b>			
Background	-0.04541	-0.04671	-0.03142	-0.03002
Ambient	-0.04671	-0.05193	-0.03778	-0.03636
HyF	-0.03142	-0.03778	-0.01926	-0.01797
Cleanout	-0.03002	-0.03636	-0.01797	-0.01974

Positive values show pairs of means that are significantly different.

### Connecting Letters Report

<b>Level</b>	<b>Mean</b>
Background A	0.03367287
Ambient A	0.03159995
HyF A	0.03021041
Cleanout A	0.02867516

Levels not connected by same letter are significantly different.

### Ordered Differences Report

<b>Level</b>	<b>- Level</b>	<b>Difference</b>	<b>Std Err Dif</b>	<b>Lower CL</b>	<b>Upper CL</b>	<b>p-Value</b>
Background	Cleanout	0.0049977	0.0135756	-0.030017	0.0400128	0.9829
Background	HyF	0.0034625	0.0135242	-0.031420	0.0383448	0.9941
Ambient	Cleanout	0.0029248	0.0152314	-0.036361	0.0422105	0.9975
Background	Ambient	0.0020729	0.0189138	-0.046711	0.0508564	0.9995
HyF	Cleanout	0.0015352	0.0075609	-0.017966	0.0210368	0.9970
Ambient	HyF	0.0013895	0.0151855	-0.037778	0.0405570	0.9997