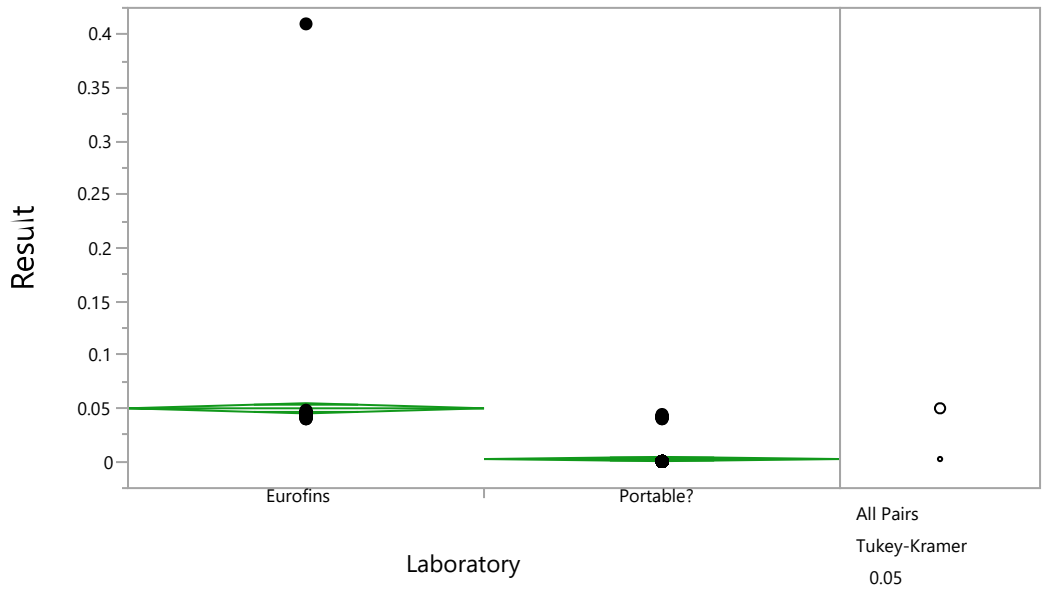


APPENDIX F

Comparison of analytical results between laboratories. Results are sorted by nominal chemical category (atmospheric gas, hydrocarbons, etc.), analytical method, and analyte. Also see Table 6 for summary results.

Oneway Analysis of Result By Laboratory Chemical Category=Atmospheric, Method Name=ASTM D-1945/3588, Analyte=Carbon Dioxide



Missing Rows 153

**Oneway Anova
 Summary of Fit**

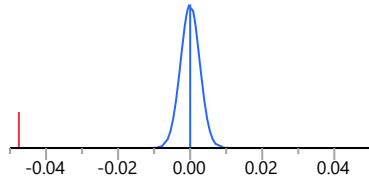
Rsquare	0.427863
Adj Rsquare	0.426545
Root Mean Square Error	0.019498
Mean of Response	0.009222
Observations (or Sum Wgts)	436

t Test

Portable?-Eurofins

Assuming equal variances

Difference	-0.04754	t Ratio	-18.0155
Std Err Dif	0.00264	DF	434
Upper CL Dif	-0.04235	Prob > t	<.0001*
Lower CL Dif	-0.05272	Prob > t	1.0000
Confidence	0.95	Prob < t	<.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.12339374	0.123394	324.5596	<.0001*
Error	434	0.16500168	0.000380		
C. Total	435	0.28839542			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0.049781	0.00244	0.04499	0.05457
Portable?	372	0.002245	0.00101	0.00026	0.00423

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
Portable?	Eurofins	-215.107	11.73464	-18.3309	<.0001*	-0.044000	-0.044000	-0.044000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	25730.5	13984.0	402.039	18.331
Portable?	372	69535.5	81282.0	186.923	-18.331

2-Sample Test, Normal Approximation

S	Z	Prob> Z
25730.5	18.33090	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
336.0505	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96545	0.05

HSD Threshold Matrix

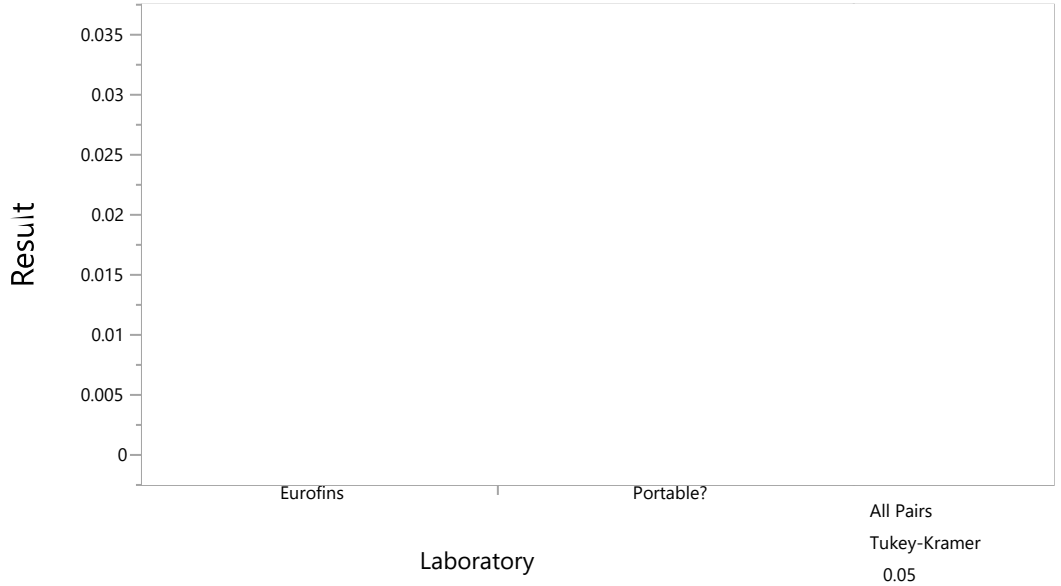
Abs(Dif)-HSD

	Eurofins	Portable?
Eurofins	-0.00677	0.04235

	Eurofins	Portable?
Portable?	0.04235	-0.00281

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Atmospheric, Method Name=ASTM D-1945/3588, Analyte=Hydrogen



Missing Rows 154

Oneway Anova

Summary of Fit

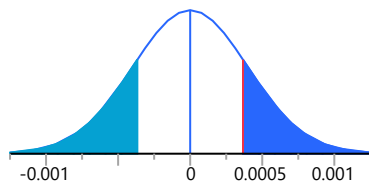
Rsquare	0.001947
Adj Rsquare	-0.00036
Root Mean Square Error	0.002947
Mean of Response	0.000313
Observations (or Sum Wgts)	435

t Test

Portable?-Eurofins

Assuming equal variances

Difference	0.00037	t Ratio	0.91905
Std Err Dif	0.00040	DF	433
Upper CL Dif	0.00115	Prob > t	0.3586
Lower CL Dif	-0.00042	Prob > t	0.1793
Confidence	0.95	Prob < t	0.8207



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.00000733	7.3349e-6	0.8447	0.3586
Error	433	0.00376015	8.6839e-6		
C. Total	434	0.00376748			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0.000000	0.00037	-0.0007	0.00072
Portable?	371	0.000367	0.00015	6.59e-5	0.00067

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
Portable?	Eurofins	2.922107	3.141709	0.9301010	0.3523	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	13792.0	13952.0	215.500	-0.930
Portable?	371	81038.0	80878.0	218.431	0.930

2-Sample Test, Normal Approximation

S	Z	Prob> Z
13792	-0.93010	0.3523

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.8705	1	0.3508

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96546	0.05

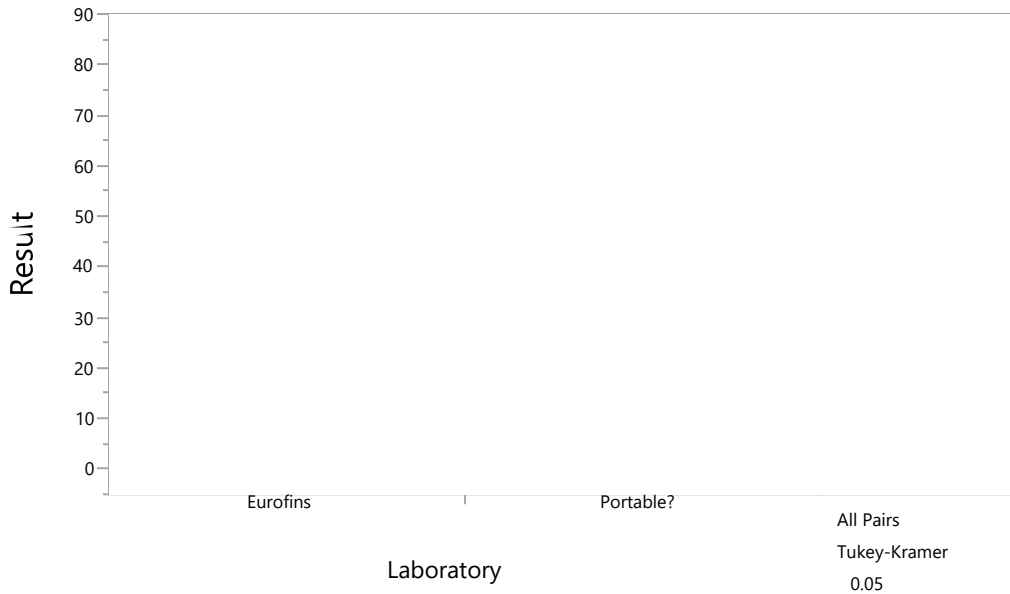
HSD Threshold Matrix

Abs(Dif)-HSD

	Portable?	Eurofins
Portable?	-0.00043	-0.00042
Eurofins	-0.00042	-0.00102

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Atmospheric, Method Name=ASTM D-1945/3588, Analyte=Nitrogen



Missing Rows 153

Oneway Anova

Summary of Fit

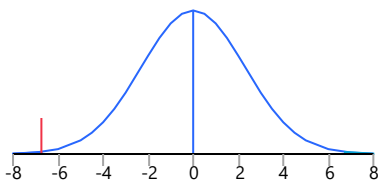
Rsquare 0.019383
 Adj Rsquare 0.017124
 Root Mean Square Error 17.00456
 Mean of Response 73.06193
 Observations (or Sum Wgts) 436

t Test

Portable?-Eurofins

Assuming equal variances

Difference -6.740 t Ratio -2.92892
 Std Err Dif 2.301 DF 434
 Upper CL Dif -2.217 Prob > |t| 0.0036*
 Lower CL Dif -11.263 Prob > t 0.9982
 Confidence 0.95 Prob < t 0.0018*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	2480.54	2480.54	8.5786	0.0036*
Error	434	125493.33	289.16		
C. Total	435	127973.87			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	78.8125	2.1256	74.635	82.990
Portable?	372	72.0726	0.8816	70.340	73.805

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
Portable?	Eurofins	-151.935	16.73882	-9.07682	<.0001*	-2.00000	-2.00000	-1.00000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	22281.0	13984.0	348.141	9.077
Portable?	372	72985.0	81282.0	196.196	-9.077

2-Sample Test, Normal Approximation

S	Z	Prob> Z
22281	9.07682	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
82.3986	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96545	0.05

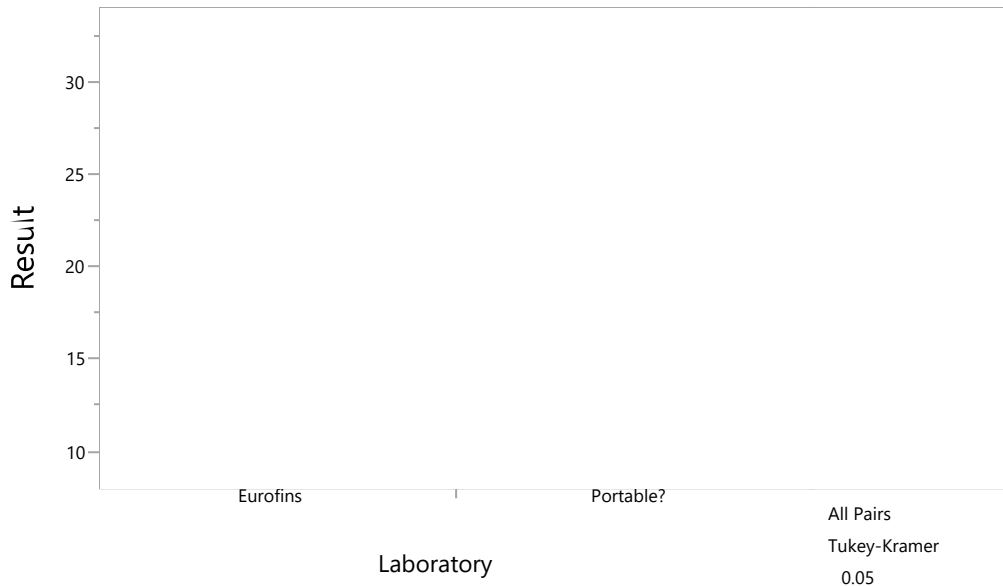
HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	Portable?
Eurofins	-5.9082	2.2171
Portable?	2.2171	-2.4506

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Atmospheric, Method Name=ASTM D-1945/3588, Analyte=Oxygen



Missing Rows 153

Oneway Anova

Summary of Fit

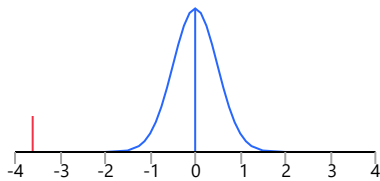
Rsquare 0.109624
 Adj Rsquare 0.107573
 Root Mean Square Error 3.647216
 Mean of Response 18.10919
 Observations (or Sum Wgts) 436

t Test

Portable?-Eurofins

Assuming equal variances

Difference -3.6079 t Ratio -7.30991
 Std Err Dif 0.4936 DF 434
 Upper CL Dif -2.6378 Prob > |t| <.0001*
 Lower CL Dif -4.5780 Prob > t 1.0000
 Confidence 0.95 Prob < t <.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	710.7993	710.799	53.4348	<.0001*
Error	434	5773.1491	13.302		
C. Total	435	6483.9484			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	21.1875	0.45590	20.291	22.084
Portable?	372	17.5796	0.18910	17.208	17.951

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
Portable?	Eurofins	-192.078	15.61833	-12.2982	<.0001*	-2.00000	-3.00000	-2.00000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	24473.0	13984.0	382.391	12.298
Portable?	372	70793.0	81282.0	190.304	-12.298

2-Sample Test, Normal Approximation

S	Z	Prob> Z
24473	12.29822	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
151.2607	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96545	0.05

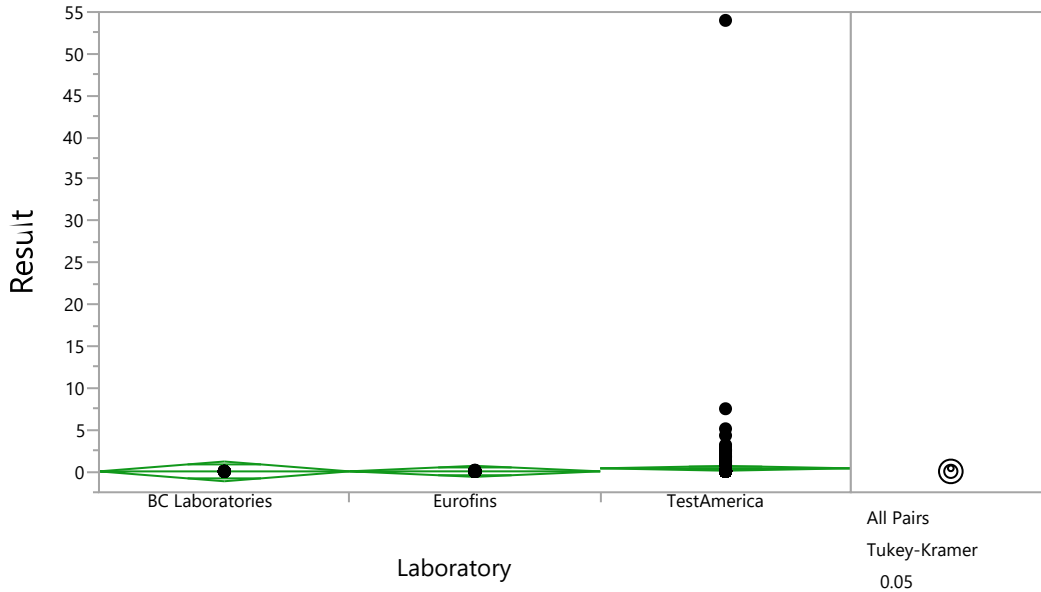
HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	Portable?
Eurofins	-1.2672	2.6378
Portable?	2.6378	-0.5256

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Carbon disulfide, Method Name=EPA TO-15, Analyte=Carbon Disulfide



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.002871
Adj Rsquare	-0.00181
Root Mean Square Error	2.689744
Mean of Response	0.295847
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	8.8730	4.43650	0.6132	0.5421
Error	426	3081.9911	7.23472		
C. Total	428	3090.8641			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.60144	-1.182	1.1822
Eurofins	64	0.005771	0.33622	-0.655	0.6666
TestAmerica	345	0.366808	0.14481	0.082	0.6514

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
TestAmerica	BC Laboratories	19.01703	12.55495	1.514704	0.1298	0	0	0
TestAmerica	Eurofins	12.74420	8.19826	1.554500	0.1201	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
Eurofins	BC Laboratories	1.93594	2.00906	0.963602	0.3352	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3910.00	4300.00	195.500	-1.443
Eurofins	64	13101.5	13760.0	204.711	-1.442
TestAmerica	345	75223.5	74175.0	218.039	2.062

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
4.5952	2	0.1005

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	Eurofins	BC Laboratories
TestAmerica	-0.4817	-0.5000	-1.0882
Eurofins	-0.5000	-1.1183	-1.6148
BC Laboratories	-1.0882	-1.6148	-2.0005

Positive values show pairs of means that are significantly different.

Connecting Letters Report

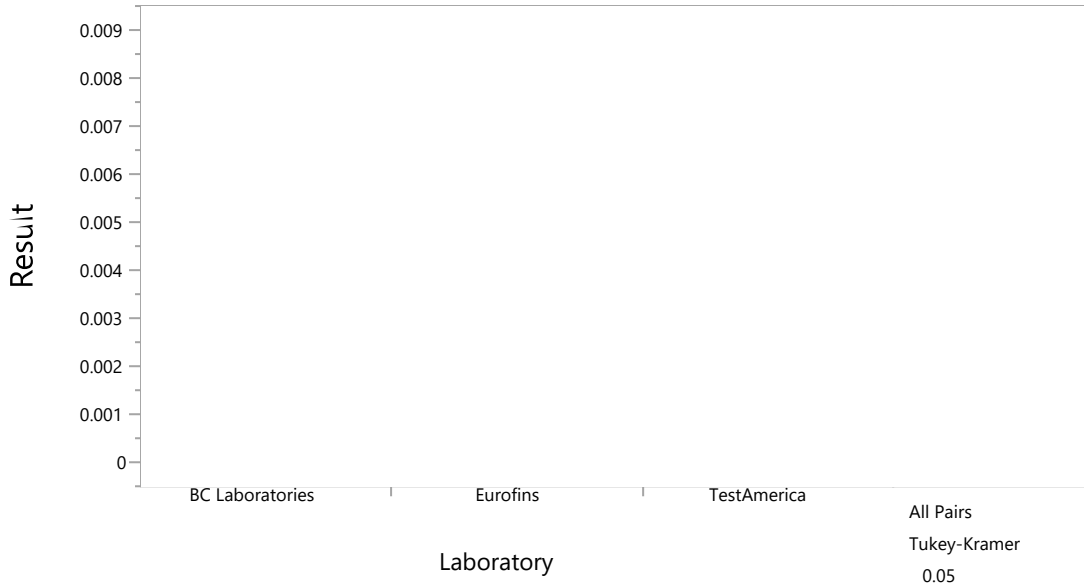
		Mean
TestAmerica	A	0.3668084
Eurofins	A	0.00577086
BC Laboratories	A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.3668084	0.6186326	-1.08817	1.821791	0.8240
TestAmerica	Eurofins	0.3610375	0.3660775	-0.49995	1.222028	0.5860
Eurofins	BC Laboratories	0.0057709	0.6890418	-1.61481	1.626352	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,1,1,-Trichloroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.06112
Adj Rsquare	0.056712
Root Mean Square Error	0.000626
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
Laboratory	2	0.00001087	5.434e-6	13.8660	<.0001*
Error	426	0.00016695	3.919e-7		
C. Total	428	0.00017782			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00014	-0.0003	0.00028
Eurofins	64	0.000447	7.83e-5	0.00029	0.00060
TestAmerica	345	0.000000	3.37e-5	-0.0001	6.62e-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
Eurofins	BC Laboratories	3.2484	2.562509	1.26768	0.2049	0	0	0
TestAmerica	BC Laboratories	0.0000	0.000000	0.00000	1.0000	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-15.9673	3.062315	-5.21413	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4250.00	4300.00	212.500	-0.492
Eurofins	64	14672.5	13760.0	229.258	5.362
TestAmerica	345	73312.5	74175.0	212.500	-4.550

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
28.7834	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00026	0.00007	0.00025
BC Laboratories	0.00007	-0.00047	-0.00034
TestAmerica	0.00025	-0.00034	-0.00011

Positive values show pairs of means that are significantly different.

Connecting Letters Report

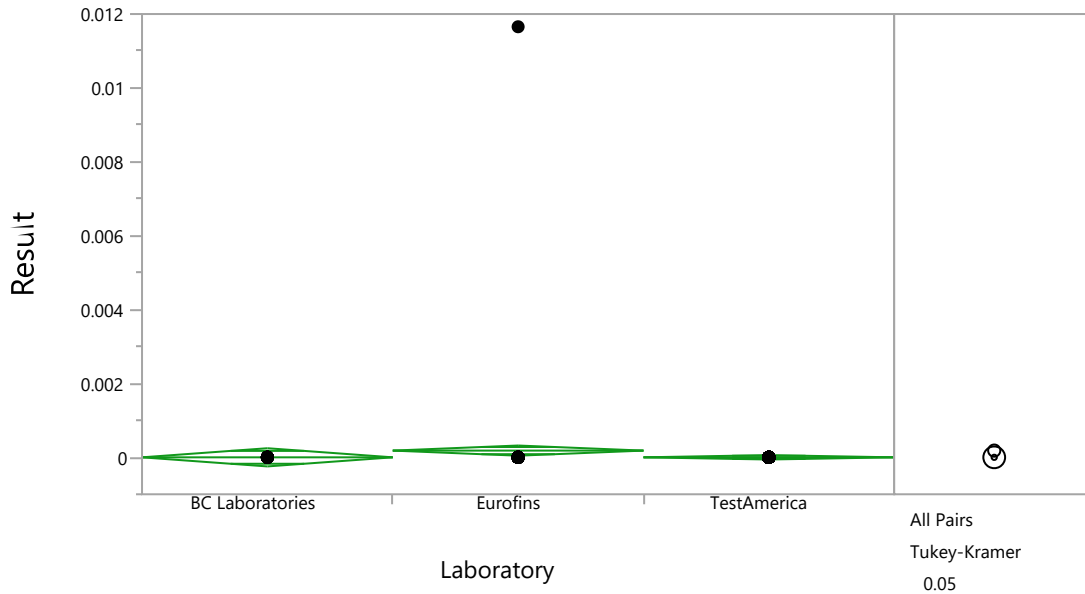
		Mean
Eurofins	A	0.00044675
BC Laboratories	B	0.00000000
TestAmerica	B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0004468	0.0001604	0.000070	0.0008239	0.0154*
Eurofins	TestAmerica	0.0004468	0.0000852	0.000246	0.0006471	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0001440	-0.000339	0.0003386	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,1,2,2-Tetrachloroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.013325
Adj Rsquare	0.008693
Root Mean Square Error	0.00056
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
Laboratory	2	0.00000181	9.0276e-7	2.8766	0.0574
Error	426	0.00013369	3.1383e-7		
C. Total	428	0.00013550			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00013	-0.0002	0.00025
Eurofins	64	0.000182	0.00007	4.45e-5	0.00032
TestAmerica	345	0.000000	0.00003	-0.0001	0.00006

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
Eurofins	BC Laboratories	0.62344	1.173936	0.53107	0.5954	0	0	0
TestAmerica	BC Laboratories	0.00000	0.000000	0.00000	1.0000	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-3.18605	1.376239	-2.31504	0.0206*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4290.00	4300.00	214.500	-0.210
Eurofins	64	13942.5	13760.0	217.852	2.382
TestAmerica	345	74002.5	74175.0	214.500	-2.021

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.7031	2	0.0578

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00023	-0.00016	0.00000
BC Laboratories	-0.00016	-0.00042	-0.00030
TestAmerica	0.00000	-0.00030	-0.00010

Positive values show pairs of means that are significantly different.

Connecting Letters Report

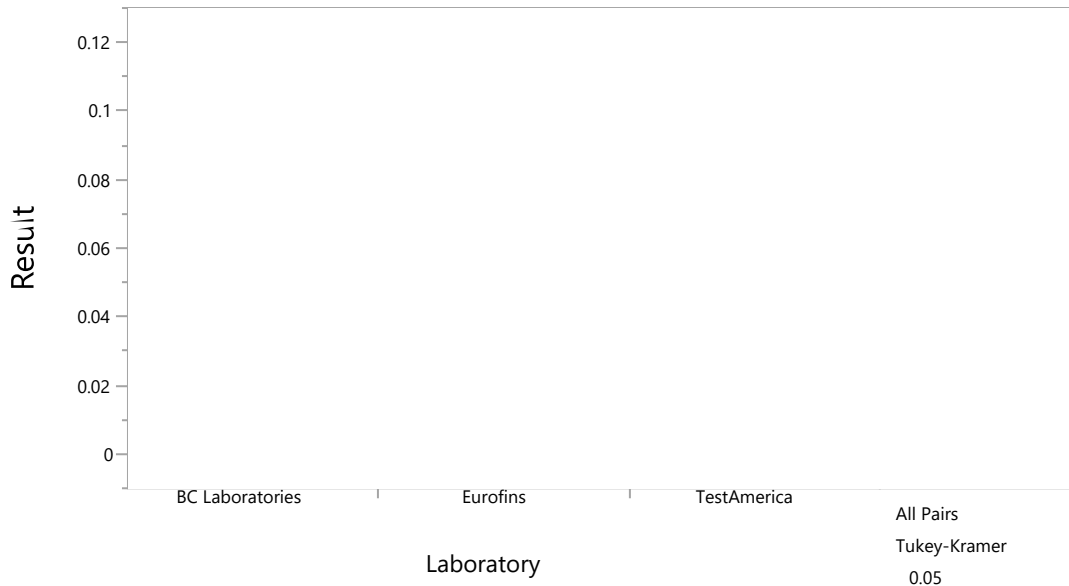
Level	Mean
Eurofins A	0.00018209
BC Laboratories A B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0001821	0.0001435	-0.000155	0.0005196	0.4136
Eurofins	TestAmerica	0.0001821	0.0000762	2.77e-6	0.0003614	0.0456*
TestAmerica	BC Laboratories	0.0000000	0.0001288	-0.000303	0.0003030	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,1,2-Trichloro-1,2,2-Trifluoroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.412281
Adj Rsquare	0.409522
Root Mean Square Error	0.01255
Mean of Response	0.004386
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.04706995	0.023535	149.4184	<.0001*
Error	426	0.06709950	0.000158		
C. Total	428	0.11416945			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00281	-0.0055	0.00552
Eurofins	64	0.029401	0.00157	0.0263	0.03248
TestAmerica	345	0.000000	0.00068	-0.0013	0.00133

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
Eurofins	BC Laboratories	19.6547	5.353276	3.6715	0.0002*	0	0.000000	0.0574158
TestAmerica	BC Laboratories	0.0000	0.000000	0.0000	1.0000	0	0.000000	0.0000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-95.8501	7.272088	-13.1805	<.0001*	0	-0.054806	0.0000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4000.00	4300.00	200.000	-1.251
Eurofins	64	19235.0	13760.0	300.547	13.534
TestAmerica	345	69000.0	74175.0	200.000	-11.485

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
183.2116	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00522	0.02184	0.02538
BC Laboratories	0.02184	-0.00933	-0.00679
TestAmerica	0.02538	-0.00679	-0.00225

Positive values show pairs of means that are significantly different.

Connecting Letters Report

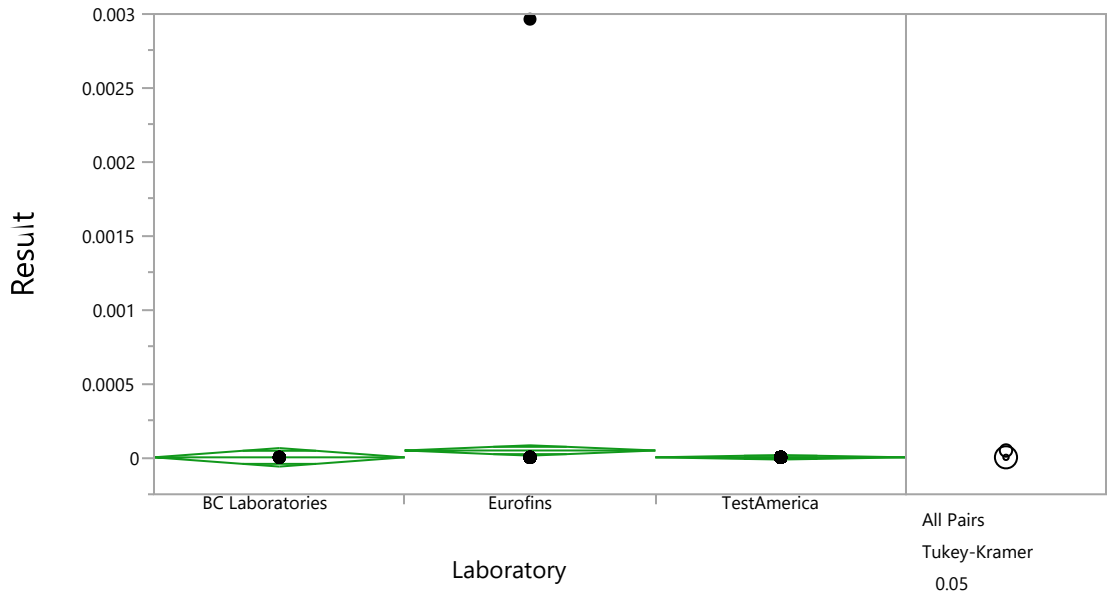
Level	Mean
Eurofins A	0.02940113
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0294011	0.0032151	0.021840	0.0369628	<.0001*
Eurofins	TestAmerica	0.0294011	0.0017081	0.025384	0.0334185	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0028865	-0.006789	0.0067889	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,1-Dichloroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.013325
Adj Rsquare	0.008693
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
Laboratory	2	1.16881e-7	5.8441e-8	2.8766	0.0574
Error	426	8.65464e-6	2.0316e-8		
C. Total	428	8.77153e-6			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	3.19e-5	-0.0001	6.26e-5
Eurofins	64	0.000046	1.78e-5	1.13e-5	8.14e-5
TestAmerica	345	0.000000	7.67e-6	-1.5e-5	1.51e-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
Eurofins	BC Laboratories	0.62344	1.173936	0.53107	0.5954	0	0	0
TestAmerica	BC Laboratories	0.00000	0.000000	0.00000	1.0000	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-3.18605	1.376239	-2.31504	0.0206*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4290.00	4300.00	214.500	-0.210
Eurofins	64	13942.5	13760.0	217.852	2.382
TestAmerica	345	74002.5	74175.0	214.500	-2.021

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.7031	2	0.0578

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00006	-0.00004	0.00000
BC Laboratories	-0.00004	-0.00011	-0.00008
TestAmerica	0.00000	-0.00008	-0.00003

Positive values show pairs of means that are significantly different.

Connecting Letters Report

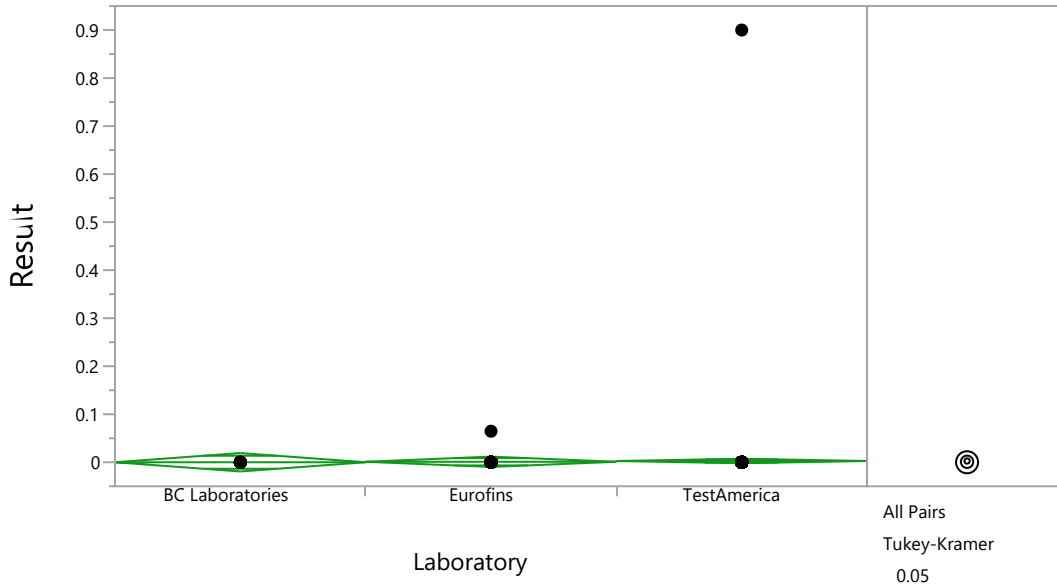
Level	Mean
Eurofins A	0.00004633
BC Laboratories A B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0000463	0.0000365	-0.000040	0.0001322	0.4136
Eurofins	TestAmerica	0.0000463	0.0000194	7.0478e-7	0.0000920	0.0456*
TestAmerica	BC Laboratories	0.0000000	0.0000328	-0.000077	0.0000771	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,2,4-Trichlorobenzene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.0003
Adj Rsquare	-0.00439
Root Mean Square Error	0.043653
Mean of Response	0.002249
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00024394	0.000122	0.0640	0.9380
Error	426	0.81177063	0.001906		
C. Total	428	0.81201457			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00976	-0.0192	0.01919
Eurofins	64	0.001011	0.00546	-0.0097	0.01174
TestAmerica	345	0.002609	0.00235	-0.0020	0.00723

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
Eurofins	BC Laboratories	0.62344	1.173936	0.53107	0.5954	0	0	0
TestAmerica	BC Laboratories	0.50254	2.197042	0.22873	0.8191	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-2.58404	1.943915	-1.32929	0.1838	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4280.00	4300.00	214.000	-0.305
Eurofins	64	13910.0	13760.0	217.344	1.385
TestAmerica	345	74045.0	74175.0	214.623	-1.077

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.9652	2	0.3743

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric	Eurofins	BC Laboratories
TestAmerica	-0.00782	-0.01238	-0.02100
Eurofins	-0.01238	-0.01815	-0.02529
BC Laboratories	-0.02100	-0.02529	-0.03247

Positive values show pairs of means that are significantly different.

Connecting Letters Report

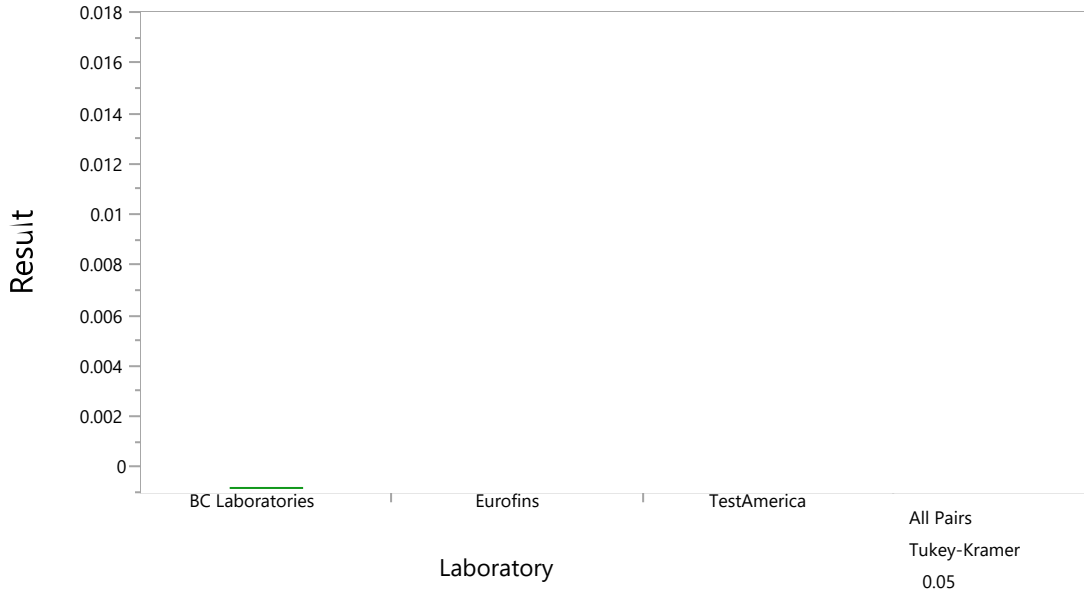
Level	Mean
TestAmerica	A
Eurofins	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.0026087	0.0100400	-0.021005	0.0262221	0.9635
TestAmerica	Eurofins	0.0015980	0.0059412	-0.012375	0.0155713	0.9609
Eurofins	BC Laboratories	0.0010107	0.0111827	-0.025290	0.0273116	0.9955

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,2-Dichloro-1,1,2,2-Tetrafluoroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.615767
Adj Rsquare	0.613963
Root Mean Square Error	0.00267
Mean of Response	0.00141
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00486753	0.002434	341.3514	<.0001*
Error	426	0.00303729	7.13e-6		
C. Total	428	0.00790482			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00060	-0.0012	0.00117
Eurofins	64	0.009455	0.00033	0.0088	0.01011
TestAmerica	345	0.000000	0.00014	-0.0003	0.00028

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
Eurofins	BC Laboratories	27.530	5.813304	4.7356	<.0001*	0.013947	0.011730	0.014305
TestAmerica	BC Laboratories	0.000	0.000000	0.0000	1.0000	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-134.194	8.474323	-15.8353	<.0001*	-0.013947	-0.014162	-0.013447

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3880.00	4300.00	194.000	-1.503
Eurofins	64	21425.0	13760.0	334.766	16.248
TestAmerica	345	66930.0	74175.0	194.000	-13.789

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
264.0449	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00111	0.00785	0.00860
BC Laboratories	0.00785	-0.00199	-0.00144
TestAmerica	0.00860	-0.00144	-0.00048

Positive values show pairs of means that are significantly different.

Connecting Letters Report

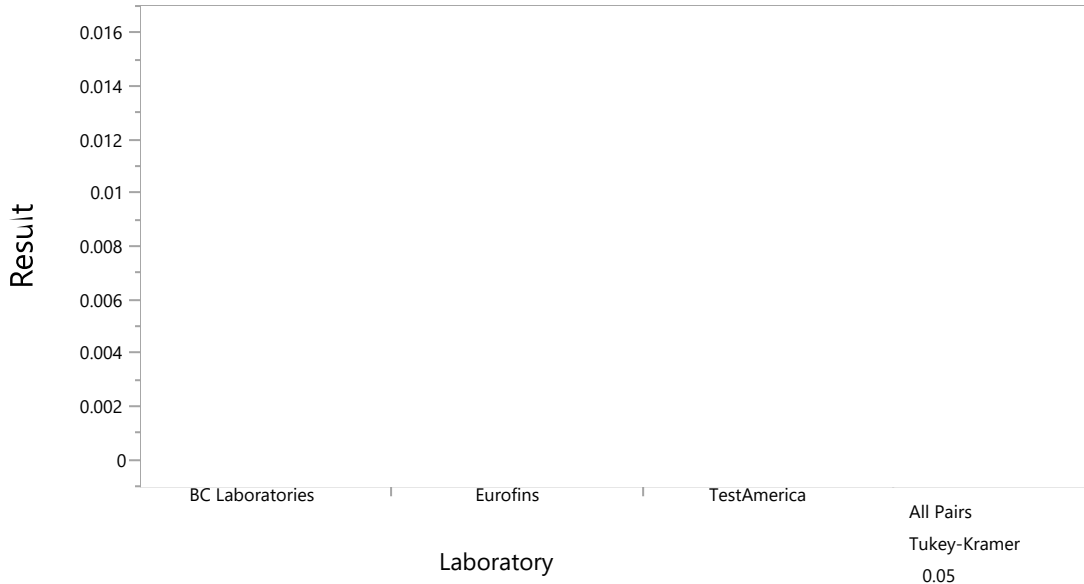
Level	Mean
Eurofins A	0.00945467
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0094547	0.0006840	0.007846	0.0110635	<.0001*
Eurofins	TestAmerica	0.0094547	0.0003634	0.008600	0.0103094	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0006141	-0.001444	0.0014444	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,2-Dichloroethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.613044
Adj Rsquare	0.611228
Root Mean Square Error	0.002426
Mean of Response	0.001274
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00397148	0.001986	337.4507	<.0001*
Error	426	0.00250681	5.885e-6		
C. Total	428	0.00647829			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00054	-0.0011	0.00107
Eurofins	64	0.008540	0.00030	0.0079	0.00914
TestAmerica	345	0.000000	0.00013	-0.0003	0.00026

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
Eurofins	BC Laboratories	27.530	5.841153	4.7131	<.0001*	0.012108	0.010625	0.012849
TestAmerica	BC Laboratories	0.000	0.000000	0.0000	1.0000	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-134.194	8.475422	-15.8333	<.0001*	-0.012108	-0.012355	-0.012108

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3880.00	4300.00	194.000	-1.503
Eurofins	64	21425.0	13760.0	334.766	16.246
TestAmerica	345	66930.0	74175.0	194.000	-13.787

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
263.9829	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00101	0.00708	0.00776
BC Laboratories	0.00708	-0.00180	-0.00131
TestAmerica	0.00776	-0.00131	-0.00043

Positive values show pairs of means that are significantly different.

Connecting Letters Report

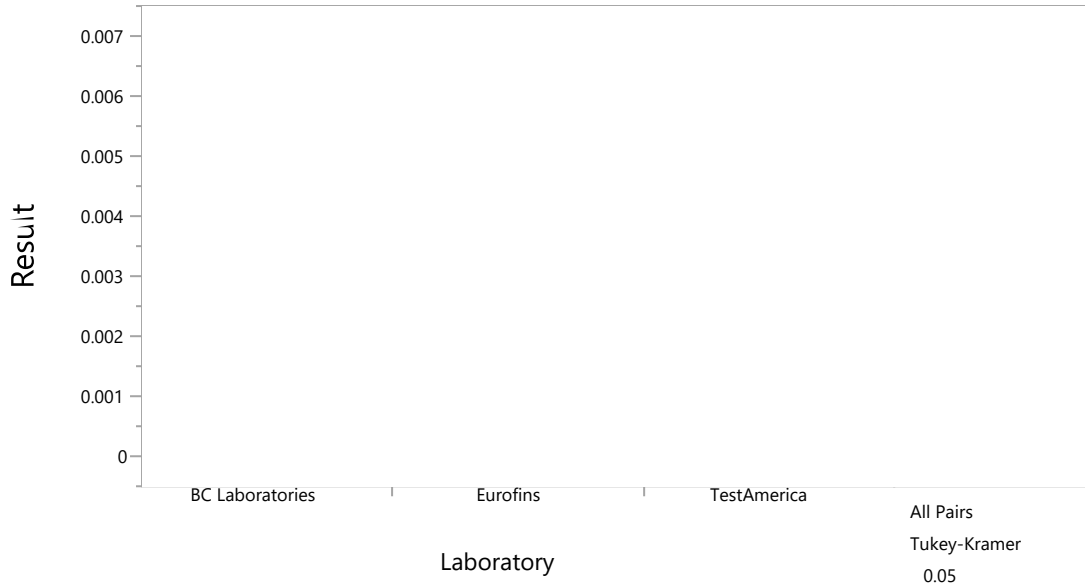
Level	Mean
Eurofins A	0.00854020
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0085402	0.0006214	0.007079	0.0100018	<.0001*
Eurofins	TestAmerica	0.0085402	0.0003302	0.007764	0.0093167	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0005579	-0.001312	0.0013122	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=1,4-Dichlorobenzene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.366692
Adj Rsquare	0.363719
Root Mean Square Error	0.000749
Mean of Response	0.000238
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00013820	0.000069	123.3291	<.0001*
Error	426	0.00023868	5.603e-7		
C. Total	428	0.00037688			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00017	-0.0003	0.00033
Eurofins	64	0.001593	9.36e-5	0.0014	0.00178
TestAmerica	345	0.000000	0.00004	-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
Eurofins	BC Laboratories	18.3422	5.238353	3.5015	0.0005*	0	0.000000	0.0029939
TestAmerica	BC Laboratories	0.0000	0.000000	0.0000	1.0000	0	0.000000	0.0000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-89.4595	7.043017	-12.7019	<.0001*	0	-0.002495	0.0000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4020.00	4300.00	201.000	-1.206
Eurofins	64	18870.0	13760.0	294.844	13.044
TestAmerica	345	69345.0	74175.0	201.000	-11.070

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
170.1883	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00031	0.00114	0.00135
BC Laboratories	0.00114	-0.00056	-0.00040
TestAmerica	0.00135	-0.00040	-0.00013

Positive values show pairs of means that are significantly different.

Connecting Letters Report

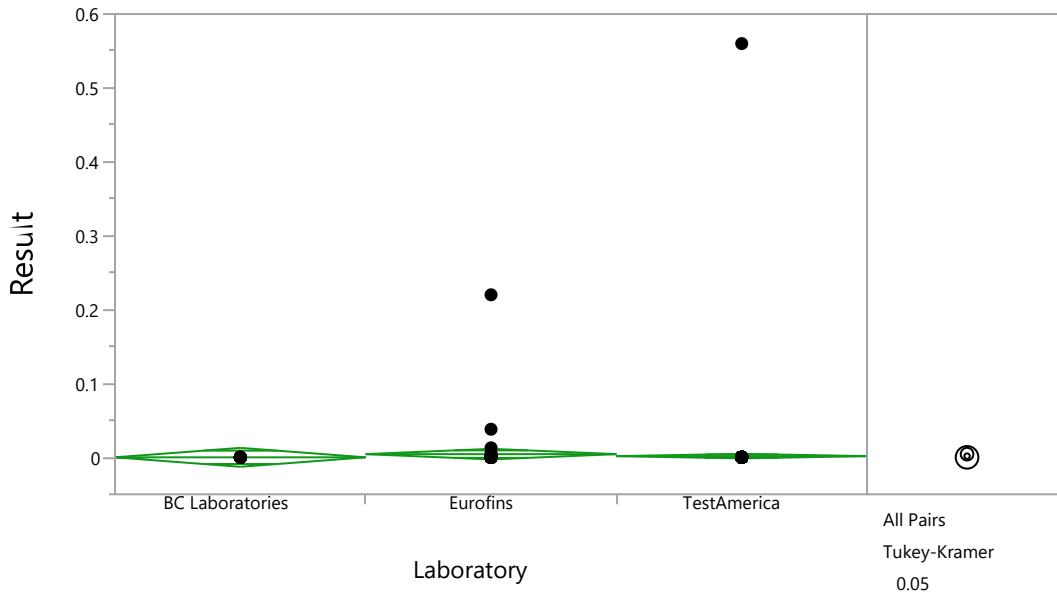
Level	Mean
Eurofins A	0.00159310
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0015931	0.0001918	0.001142	0.0020441	<.0001*
Eurofins	TestAmerica	0.0015931	0.0001019	0.001353	0.0018327	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0001722	-0.000405	0.0004049	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=C-1,2-Dichloroethene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.001311
Adj Rsquare	-0.00338
Root Mean Square Error	0.029132
Mean of Response	0.001951
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00047445	0.000237	0.2795	0.7563
Error	426	0.36153895	0.000849		
C. Total	428	0.36201340			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00651	-0.0128	0.01280
Eurofins	64	0.004327	0.00364	-0.0028	0.01148
TestAmerica	345	0.001623	0.00157	-0.0015	0.00471

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
Eurofins	BC Laboratories	2.5922	2.305907	1.12415	0.2609	0	0	0
TestAmerica	BC Laboratories	0.5025	2.197042	0.22873	0.8191	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-12.1422	3.062315	-3.96504	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4250.00	4300.00	212.500	-0.492
Eurofins	64	14456.0	13760.0	225.875	4.089
TestAmerica	345	73529.0	74175.0	213.128	-3.407

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
16.7594	2	0.0002*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.01211	-0.00662	-0.01323
TestAmerica	-0.00662	-0.00522	-0.01414
BC Laboratories	-0.01323	-0.01414	-0.02167

Positive values show pairs of means that are significantly different.

Connecting Letters Report

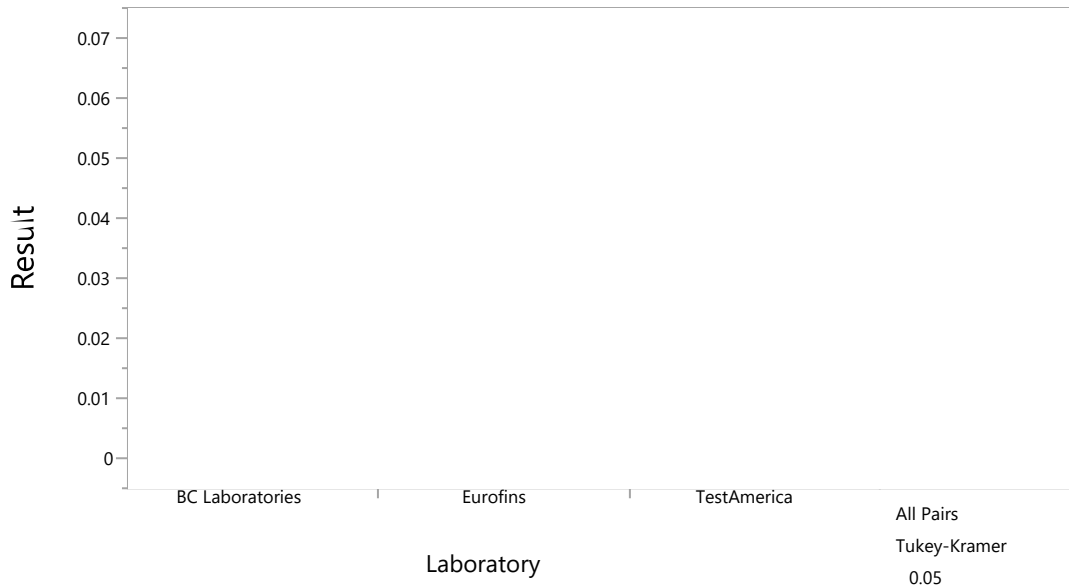
Level	Mean
Eurofins A	0.00432682
TestAmerica A	0.00162319
BC Laboratories A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0043268	0.0074629	-0.013225	0.0218791	0.8310
Eurofins	TestAmerica	0.0027036	0.0039649	-0.006622	0.0120289	0.7742
TestAmerica	BC Laboratories	0.0016232	0.0067003	-0.014135	0.0173819	0.9682

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Carbon Tetrachloride



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.993103
Adj Rsquare	0.99307
Root Mean Square Error	0.001868
Mean of Response	0.009353
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.21401396	0.107007	30668.40	<.0001*
Error	426	0.00148638	3.489e-6		
C. Total	428	0.21550034			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00042	-0.0008	0.00082
Eurofins	64	0.062692	0.00023	0.0622	0.06315
TestAmerica	345	0.000000	0.00010	-0.0002	0.00020

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
Eurofins	BC Laboratories	41.967	6.16342	6.8091	<.0001*	0.060406	0.060406	0.063585
TestAmerica	BC Laboratories	0.000	0.00000	0.0000	1.0000	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-204.491	10.17160	-20.1041	<.0001*	-0.060406	-0.060406	-0.060406

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3660.00	4300.00	183.000	-1.906
Eurofins	64	25440.0	13760.0	397.500	20.600
TestAmerica	345	63135.0	74175.0	183.000	-17.482

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
424.4145	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00078	0.06157	0.06209
BC Laboratories	0.06157	-0.00139	-0.00101
TestAmerica	0.06209	-0.00101	-0.00033

Positive values show pairs of means that are significantly different.

Connecting Letters Report

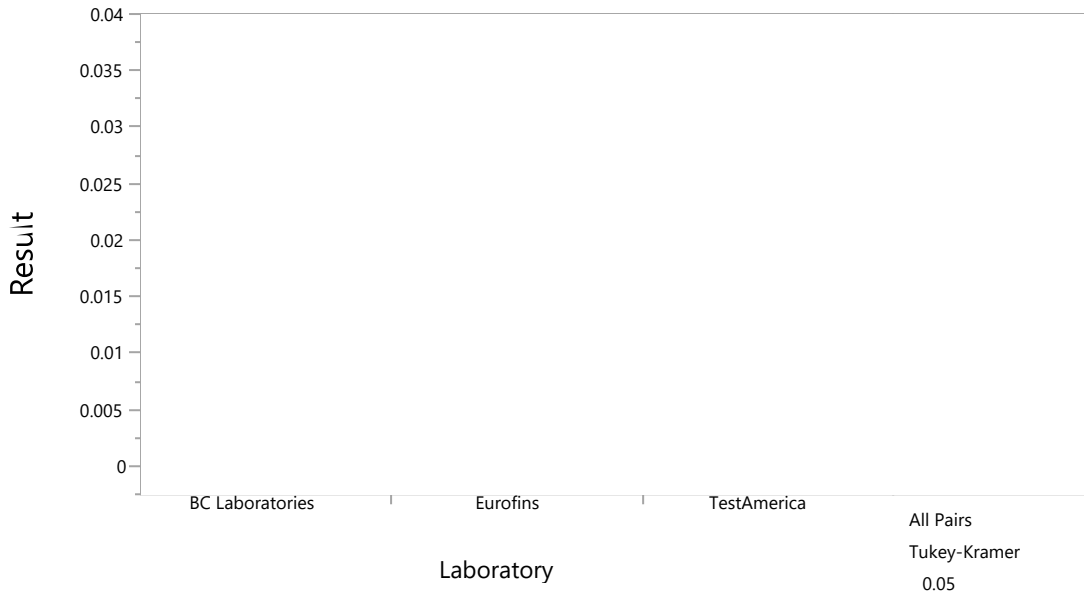
Level	Mean
Eurofins A	0.06269217
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0626922	0.0004785	0.061567	0.0638176	<.0001*
Eurofins	TestAmerica	0.0626922	0.0002542	0.062094	0.0632901	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0004296	-0.001010	0.0010104	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Chloroethane



Missing Rows 163

Oneway Anova

Summary of Fit

Rsquare	0.103657
Adj Rsquare	0.099419
Root Mean Square Error	0.003846
Mean of Response	0.000548
Observations (or Sum Wgts)	426

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00072374	0.000362	24.4587	<.0001*
Error	423	0.00625837	0.000015		
C. Total	425	0.00698211			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00086	-0.0017	0.00169
Eurofins	64	0.003648	0.00048	0.0027	0.00459
TestAmerica	342	0.000000	0.00021	-0.0004	0.00041

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
Eurofins	BC Laboratories	5.2172	3.182451	1.63936	0.1011	0	0	0
TestAmerica	BC Laboratories	0.0000	0.000000	0.00000	1.0000	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-25.3657	3.847511	-6.59276	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4190.00	4270.00	209.500	-0.629
Eurofins	64	15112.0	13664.0	236.125	6.780
TestAmerica	342	71649.0	73017.0	209.500	-5.752

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
46.0024	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35199	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00160	0.00133	0.00242
BC Laboratories	0.00133	-0.00286	-0.00208
TestAmerica	0.00242	-0.00208	-0.00069

Positive values show pairs of means that are significantly different.

Connecting Letters Report

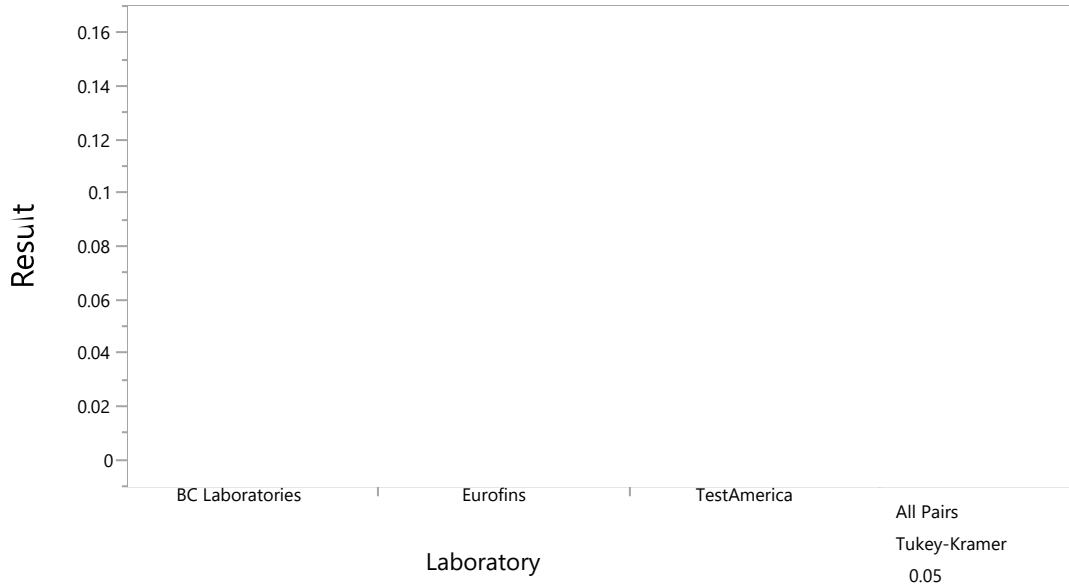
Level	Mean
Eurofins A	0.00364798
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0036480	0.0009854	0.001330	0.0059655	0.0007*
Eurofins	TestAmerica	0.0036480	0.0005239	0.002416	0.0048801	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0008849	-0.002081	0.0020812	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Chloroform



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.272987
Adj Rsquare	0.269574
Root Mean Square Error	0.011529
Mean of Response	0.002948
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.02125965	0.010630	79.9795	<.0001*
Error	426	0.05661832	0.000133		
C. Total	428	0.07787797			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00258	-0.0051	0.00507
Eurofins	64	0.019759	0.00144	0.0169	0.02259
TestAmerica	345	0.000000	0.00062	-0.0012	0.00122

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
Eurofins	BC Laboratories	27.530	5.843217	4.7114	<.0001*	0.017205	0.013314	0.018844
TestAmerica	BC Laboratories	0.000	0.000000	0.0000	1.0000	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-134.194	8.475504	-15.8331	<.0001*	-0.017205	-0.017205	-0.015362

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3880.00	4300.00	194.000	-1.503
Eurofins	64	21425.0	13760.0	334.766	16.246
TestAmerica	345	66930.0	74175.0	194.000	-13.787

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
263.9783	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00479	0.01281	0.01607
BC Laboratories	0.01281	-0.00857	-0.00624
TestAmerica	0.01607	-0.00624	-0.00206

Positive values show pairs of means that are significantly different.

Connecting Letters Report

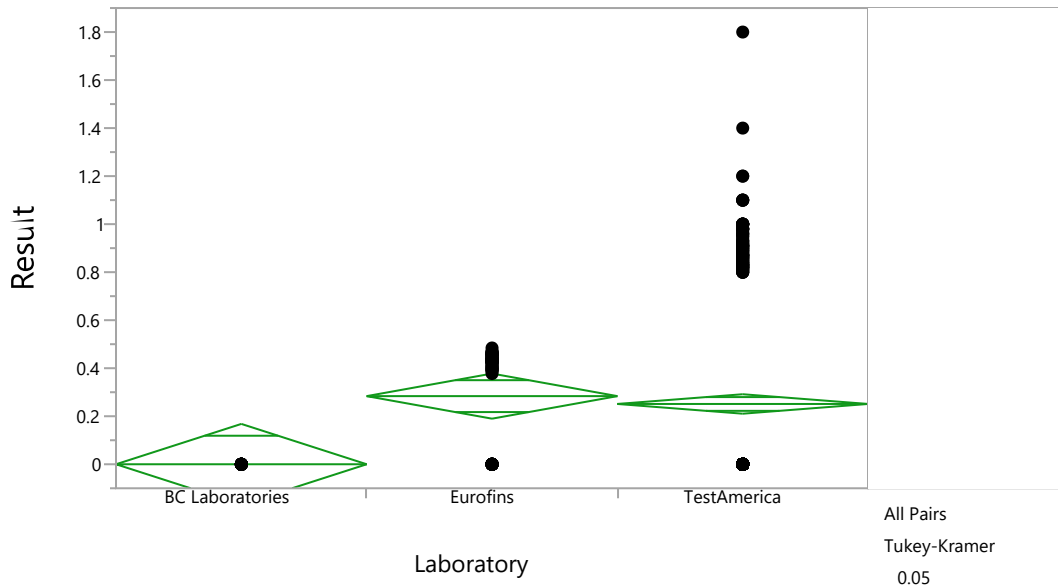
Level	Mean
Eurofins A	0.01975924
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0197592	0.0029533	0.012813	0.0267052	<.0001*
Eurofins	TestAmerica	0.0197592	0.0015690	0.016069	0.0234495	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0026515	-0.006236	0.0062362	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Chloromethane



Missing Rows 161

Oneway Anova

Summary of Fit

Rsquare	0.020642
Adj Rsquare	0.016033
Root Mean Square Error	0.382293
Mean of Response	0.244251
Observations (or Sum Wgts)	428

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	1.309144	0.654572	4.4788	0.0119*
Error	425	62.112871	0.146148		
C. Total	427	63.422015			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.08548	-0.1680	0.16802
Eurofins	64	0.283743	0.04779	0.1898	0.37767
TestAmerica	344	0.251105	0.02061	0.2106	0.29162

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
TestAmerica	BC Laboratories	49.7061	18.61922	2.66961	0.0076*	0.0000000	0.000000	0.0000000
Eurofins	BC Laboratories	27.5297	5.84322	4.71139	<.0001*	0.4140374	0.377718	0.4309863

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-41.5394	13.46618	-3.08472	0.0020*	0.0000000	-0.397089	0.0000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	2930.00	4290.00	146.500	-3.047
Eurofins	64	16390.0	13728.0	256.094	3.530
TestAmerica	344	72486.0	73788.0	210.715	-1.550

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
19.9329	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35195	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.15895	-0.08976	0.05341
TestAmerica	-0.08976	-0.06856	0.04429
BC Laboratories	0.05341	0.04429	-0.28433

Positive values show pairs of means that are significantly different.

Connecting Letters Report

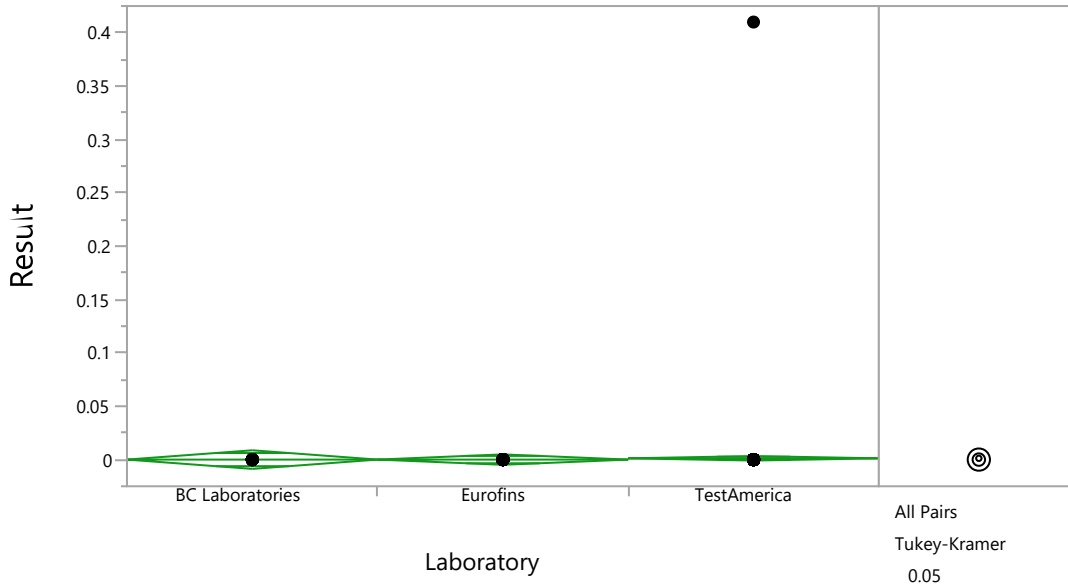
Level	Mean
Eurofins	A
TestAmerica	A
BC Laboratories	B

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.2837428	0.0979334	0.053408	0.5140776	0.0110*
TestAmerica	BC Laboratories	0.2511047	0.0879332	0.044290	0.4579194	0.0125*
Eurofins	TestAmerica	0.0326381	0.0520424	-0.089763	0.1550394	0.8053

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Dibromochloromethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.000569
Adj Rsquare	-0.00412
Root Mean Square Error	0.019836
Mean of Response	0.000956
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00009540	0.000048	0.1212	0.8859
Error	426	0.16761275	0.000393		
C. Total	428	0.16770816			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00444	-0.0087	0.00872
Eurofins	64	0.000000	0.00248	-0.0049	0.00487
TestAmerica	345	0.001188	0.00107	-0.0009	0.00329

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
TestAmerica	Eurofins	0.5834918	1.376239	0.4239757	0.6716	0	0	0
TestAmerica	BC Laboratories	0.5025362	2.197042	0.2287331	0.8191	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
Eurofins	BC Laboratories	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
BC Laboratories	20	4290.00	4300.00	214.500	-0.210
Eurofins	64	13728.0	13760.0	214.500	-0.412
TestAmerica	345	74217.0	74175.0	215.122	0.488

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2435	2	0.8854

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	BC Laboratories	Eurofins
TestAmerica	-0.00355	-0.00954	-0.00516
BC Laboratories	-0.00954	-0.01475	-0.01195
Eurofins	-0.00516	-0.01195	-0.00825

Positive values show pairs of means that are significantly different.

Connecting Letters Report

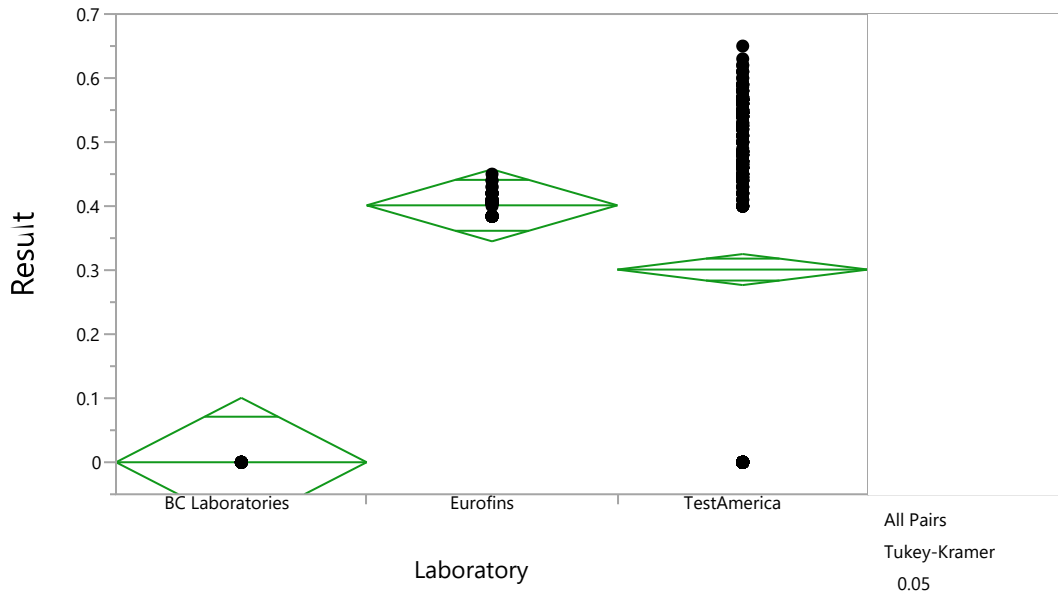
Level	Mean
TestAmerica A	0.00118841
BC Laboratories A	0.00000000
Eurofins A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.0011884	0.0045622	-0.009541	0.0119183	0.9633
TestAmerica	Eurofins	0.0011884	0.0026997	-0.005161	0.0075379	0.8987
Eurofins	BC Laboratories	0.0000000	0.0050814	-0.011951	0.0119511	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Dichlorodifluoromethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.099119
Adj Rsquare	0.094889
Root Mean Square Error	0.228861
Mean of Response	0.301862
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	2.454948	1.22747	23.4352	<.0001*
Error	426	22.312773	0.05238		
C. Total	428	24.767721			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.05117	-0.1006	0.10059
Eurofins	64	0.401253	0.02861	0.3450	0.45748
TestAmerica	345	0.300923	0.01232	0.2767	0.32514

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
TestAmerica	BC Laboratories	107.8866	23.19632	4.651023	<.0001*	0.4448764	0.000000	0.4800000
Eurofins	BC Laboratories	41.9672	6.07735	6.905504	<.0001*	0.4044330	0.384211	0.4044330

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	28.4614	15.74960	1.807121	0.0707	0.0400000	-0.004433	0.0655670

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	1620.00	4300.00	81.000	-5.087
Eurofins	64	12863.0	13760.0	200.984	-1.007
TestAmerica	345	77752.0	74175.0	225.368	3.608

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
28.0950	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.09515	0.02707	0.26336
TestAmerica	0.02707	-0.04098	0.17712
BC Laboratories	0.26336	0.17712	-0.17021

Positive values show pairs of means that are significantly different.

Connecting Letters Report

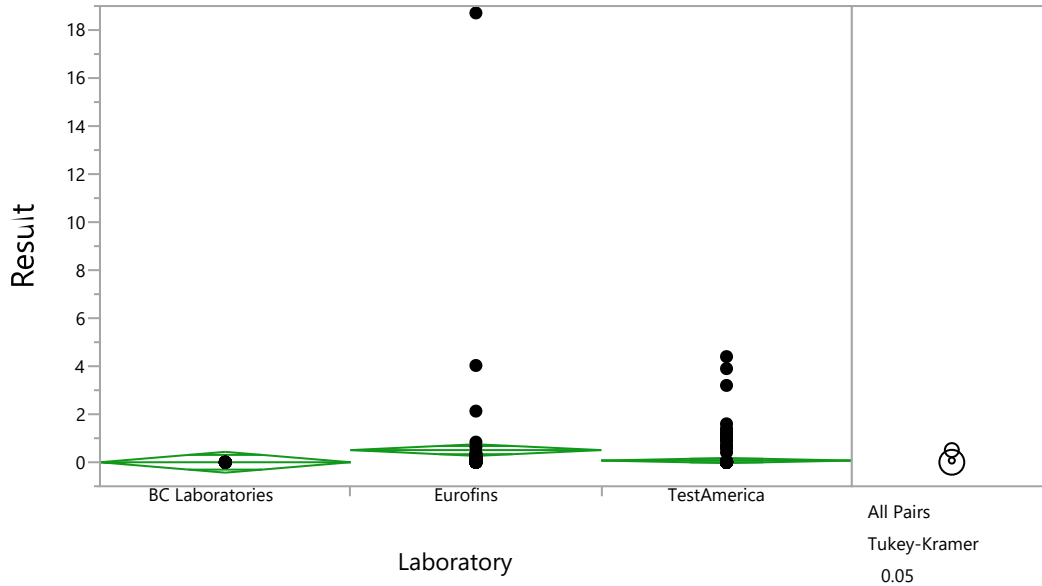
Level	Mean
Eurofins A	0.40125318
TestAmerica B	0.30092293
BC Laboratories C	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.4012532	0.0586282	0.2633635	0.5391429	<.0001*
TestAmerica	BC Laboratories	0.3009229	0.0526373	0.1771234	0.4247225	<.0001*
Eurofins	TestAmerica	0.1003302	0.0311483	0.0270715	0.1735889	0.0039*

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Methylene Chloride



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.025067
Adj Rsquare	0.020489
Root Mean Square Error	0.985839
Mean of Response	0.132435
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	10.64487	5.32244	5.4764	0.0045*
Error	426	414.02009	0.97188		
C. Total	428	424.66496			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.22044	-0.4333	0.43329
Eurofins	64	0.506947	0.12323	0.2647	0.74916
TestAmerica	345	0.070638	0.05308	-0.0337	0.17496

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
Eurofins	BC Laboratories	28.186	5.873718	4.7987	<.0001*	0.113714	0.086365	0.143942
TestAmerica	BC Laboratories	8.437	8.608054	0.9802	0.3270	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-122.459	9.830491	-12.4571	<.0001*	-0.112275	-0.126669	-0.092123

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3710.00	4300.00	185.500	-1.819
Eurofins	64	20801.5	13760.0	325.023	12.854
TestAmerica	345	67723.5	74175.0	196.300	-10.574

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
165.6523	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.40988	0.12074	-0.08703
TestAmerica	0.12074	-0.17654	-0.46264
BC Laboratories	-0.08703	-0.46264	-0.73321

Positive values show pairs of means that are significantly different.

Connecting Letters Report

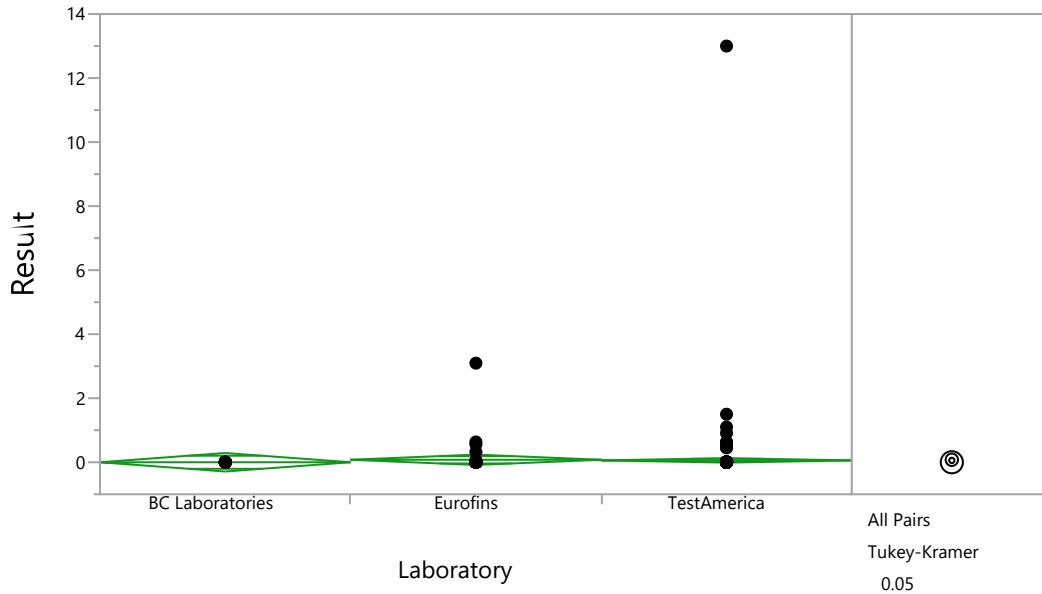
Level	Mean
Eurofins A	0.50694656
TestAmerica B	0.07063768
BC Laboratories A B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.5069466	0.2525460	-0.087025	1.100918	0.1117
Eurofins	TestAmerica	0.4363089	0.1341739	0.120741	0.751877	0.0035*
TestAmerica	BC Laboratories	0.0706377	0.2267398	-0.462639	0.603915	0.9479

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Tetrachloroethene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.000496
Adj Rsquare	-0.0042
Root Mean Square Error	0.657356
Mean of Response	0.057841
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.09142	0.045712	0.1058	0.8996
Error	426	184.08158	0.432116		
C. Total	428	184.17301			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.14699	-0.2889	0.28891
Eurofins	64	0.077401	0.08217	-0.0841	0.23891
TestAmerica	345	0.057565	0.03539	-0.0120	0.12713

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
Eurofins	BC Laboratories	20.3109	5.407356	3.7562	0.0002*	0	0.000000	0.0044235
TestAmerica	BC Laboratories	5.2634	6.862096	0.7670	0.4431	0	0.000000	0.0000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-90.5616	8.384663	-10.8009	<.0001*	0	-0.003981	0.000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3890.00	4300.00	194.500	-1.483
Eurofins	64	18959.5	13760.0	296.242	11.140
TestAmerica	345	69385.5	74175.0	201.117	-9.213

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
124.3380	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.27331	-0.19058	-0.31866
TestAmerica	-0.19058	-0.11771	-0.29802
BC Laboratories	-0.31866	-0.29802	-0.48891

Positive values show pairs of means that are significantly different.

Connecting Letters Report

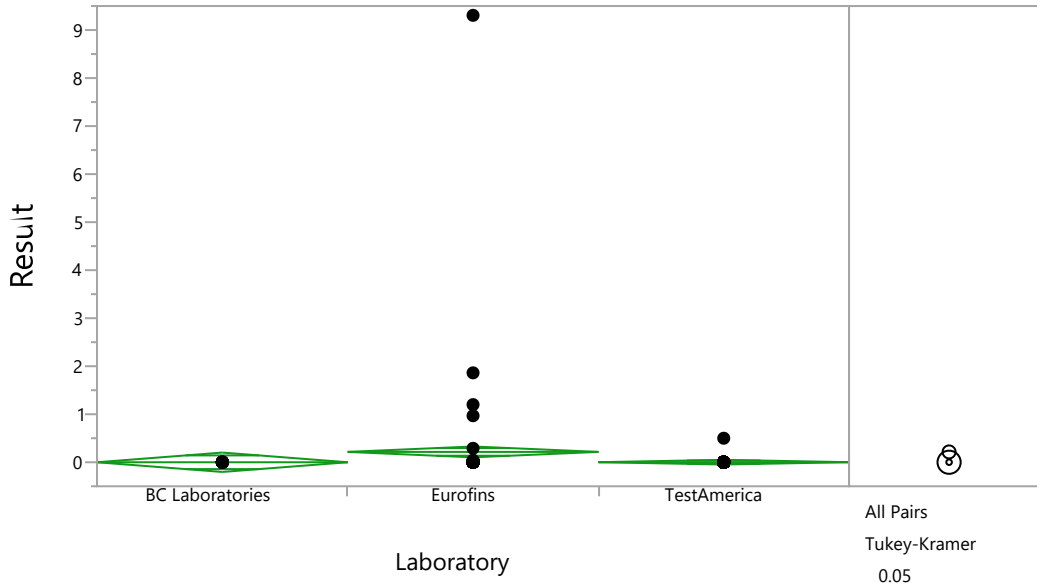
Level	Mean
Eurofins	A
TestAmerica	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0774010	0.1683973	-0.318658	0.4734602	0.8901
TestAmerica	BC Laboratories	0.0575652	0.1511897	-0.298023	0.4131534	0.9232
Eurofins	TestAmerica	0.0198358	0.0894669	-0.190584	0.2302561	0.9733

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Trichloroethene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.027077
Adj Rsquare	0.022509
Root Mean Square Error	0.459093
Mean of Response	0.033328
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	2.498772	1.24939	5.9278	0.0029*
Error	426	89.786461	0.21077		
C. Total	428	92.285232			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.10266	-0.2018	0.20178
Eurofins	64	0.215586	0.05739	0.1028	0.32838
TestAmerica	345	0.001449	0.02472	-0.0471	0.05003

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
Eurofins	BC Laboratories	15.7172	4.981778	3.1549	0.0016*	0	0	0.0031637
TestAmerica	BC Laboratories	0.5025	2.197042	0.2287	0.8191	0	0	0.0000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-75.9373	6.680154	-11.3676	<.0001*	0	0	0.000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4050.00	4300.00	202.500	-1.135
Eurofins	64	18100.0	13760.0	282.813	11.682
TestAmerica	345	70085.0	74175.0	203.145	-9.884

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
136.5144	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.19088	0.06718	-0.06102
TestAmerica	0.06718	-0.08221	-0.24689
BC Laboratories	-0.06102	-0.24689	-0.34145

Positive values show pairs of means that are significantly different.

Connecting Letters Report

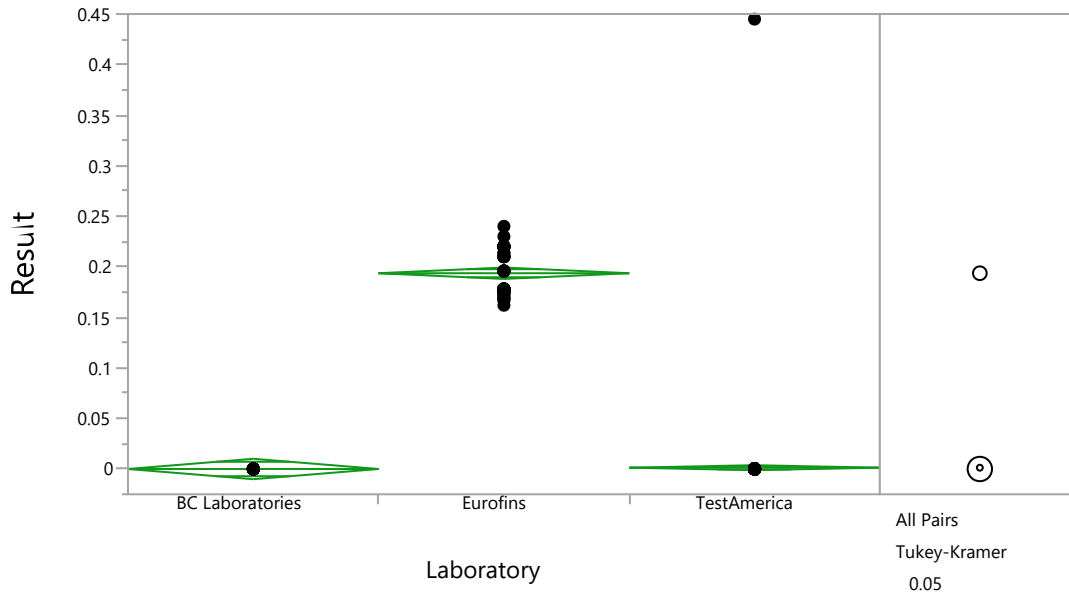
Level	Mean
Eurofins A	0.21558595
TestAmerica B	0.00144928
BC Laboratories A B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.2155859	0.1176076	-0.061019	0.4921912	0.1601
Eurofins	TestAmerica	0.2141367	0.0624831	0.067180	0.3610929	0.0019*
TestAmerica	BC Laboratories	0.0014493	0.1055899	-0.246891	0.2497898	0.9999

Oneway Analysis of Result By Laboratory Chemical Category=Halogenated, Method Name=EPA TO-15, Analyte=Trichlorofluoromethane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.899713
Adj Rsquare	0.899242
Root Mean Square Error	0.022968
Mean of Response	0.029925
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	2.0161063	1.00805	1910.902	<.0001*
Error	426	0.2247267	0.00053		
C. Total	428	2.2408330			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00514	-0.0101	0.01009
Eurofins	64	0.193637	0.00287	0.1880	0.19928
TestAmerica	345	0.001290	0.00124	-0.0011	0.00372

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
Eurofins	BC Laboratories	41.967	6.15736	6.8158	<.0001*	0.177999	0.177999	0.210000
TestAmerica	BC Laboratories	0.503	2.19704	0.2287	0.8191	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-203.305	10.23740	-19.8591	<.0001*	-0.177999	-0.195799	-0.177999

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3650.00	4300.00	182.500	-1.923
Eurofins	64	25376.0	13760.0	396.500	20.355
TestAmerica	345	63209.0	74175.0	183.214	-17.252

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
414.3461	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.00955	0.18500	0.17980
TestAmerica	0.18500	-0.00411	-0.01113
BC Laboratories	0.17980	-0.01113	-0.01708

Positive values show pairs of means that are significantly different.

Connecting Letters Report

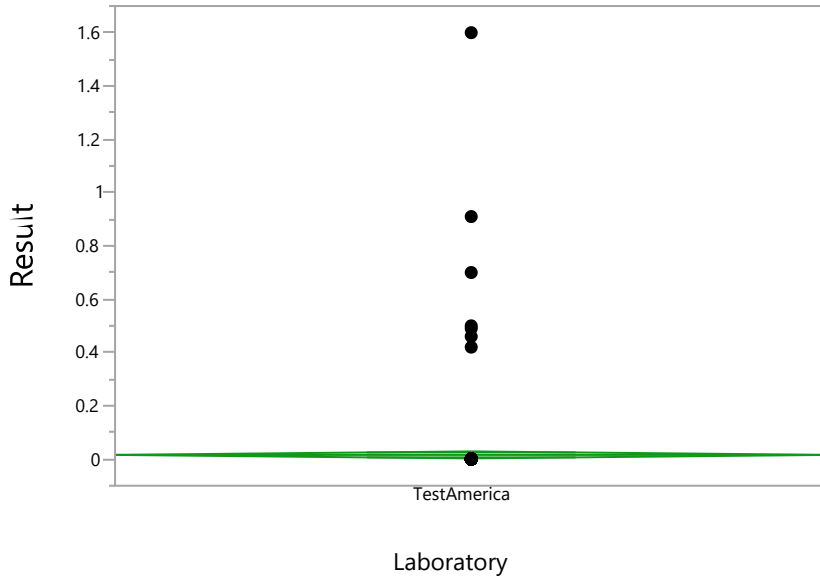
Level	Mean
Eurofins	A
TestAmerica	B
BC Laboratories	B

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.1936371	0.0058838	0.179799	0.2074754	<.0001*
Eurofins	TestAmerica	0.1923473	0.0031260	0.184995	0.1996993	<.0001*
TestAmerica	BC Laboratories	0.0012899	0.0052826	-0.011134	0.0137141	0.9677

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-13A SIM, Analyte=2-Methylnaphthalene



Missing Rows 148

Oneway Anova

Summary of Fit

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	0.120144
Mean of Response	0.015631
Observations (or Sum Wgts)	325

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	0	0.0000000			
Error	324	4.6767957	0.014435		
C. Total	324	4.6767957			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
TestAmerica	325	0.015631	0.00666	0.00252	0.02874

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

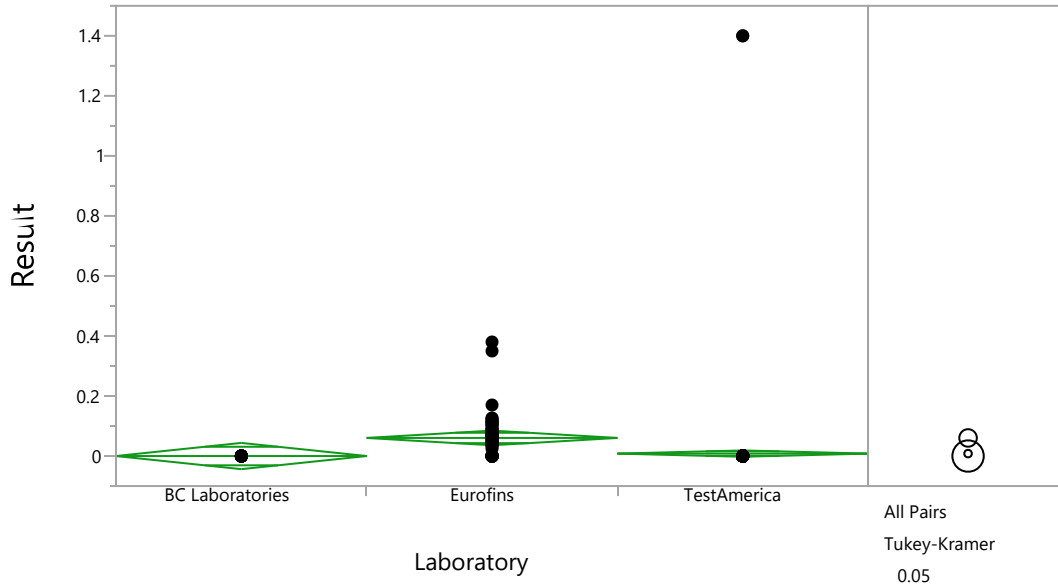
Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
TestAmerica	325	52975.0	52975.0	163.000	

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.0000	0	.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=1,2,4-Trimethylbenzene



Missing Rows 160

Oneway Anova Summary of Fit

Rsquare	0.03484
Adj Rsquare	0.030308
Root Mean Square Error	0.099396
Mean of Response	0.015519
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.1519226	0.075961	7.6887	0.0005*
Error	426	4.2086994	0.009880		
C. Total	428	4.3606219			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.02223	-0.0437	0.04369
Eurofins	64	0.060275	0.01242	0.0359	0.08470
TestAmerica	345	0.008116	0.00535	-0.0024	0.01863

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
Eurofins	BC Laboratories	28.186	5.874021	4.7984	<.0001*	0.056955	0.032546	0.073228
TestAmerica	BC Laboratories	1.032	3.102815	0.3324	0.7396	0.000000	0.000000	0.000000
TestAmerica	Eurofins	-135.407	8.739804	-15.4932	<.0001*	-0.054921	-0.065092	-0.042716

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3850.00	4300.00	192.500	-1.561
Eurofins	64	21500.5	13760.0	335.945	15.907
TestAmerica	345	66884.5	74175.0	193.868	-13.452

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
253.0845	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric a	BC Laboratories
Eurofins	-0.04133	0.02034	0.00039
TestAmerica	0.02034	-0.01780	-0.04565
BC Laboratories	0.00039	-0.04565	-0.07393

Positive values show pairs of means that are significantly different.

Connecting Letters Report

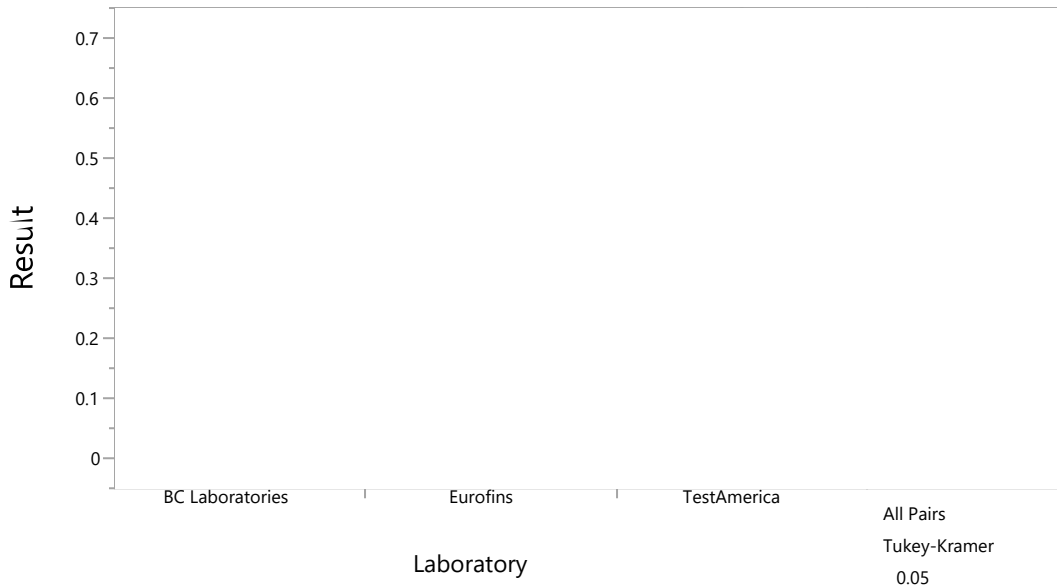
Level	Mean
Eurofins A	0.06027493
TestAmerica B	0.00811594
BC Laboratories B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0602749	0.0254627	0.000388	0.1201614	0.0481*
Eurofins	TestAmerica	0.0521590	0.0135279	0.020342	0.0839758	0.0004*
TestAmerica	BC Laboratories	0.0081159	0.0228608	-0.045651	0.0618830	0.9329

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=1,3,5-Trimethylbenzene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.000904
Adj Rsquare	-0.00379
Root Mean Square Error	0.050001
Mean of Response	0.00448
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.0009638	0.000482	0.1928	0.8248
Error	426	1.0650318	0.002500		
C. Total	428	1.0659956			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.01118	-0.0220	0.02198
Eurofins	64	0.007374	0.00625	-0.0049	0.01966
TestAmerica	345	0.004203	0.00269	-0.0011	0.00949

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
Eurofins	BC Laboratories	6.5297	3.514222	1.85807	0.0632	0	0	0
TestAmerica	BC Laboratories	1.0315	3.102827	0.33245	0.7396	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-30.5731	4.703401	-6.50022	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4180.00	4300.00	209.000	-0.773
Eurofins	64	15511.0	13760.0	242.359	6.698
TestAmerica	345	72544.0	74175.0	210.272	-5.602

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
44.9168	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.02079	-0.01283	-0.02275
TestAmerica	-0.01283	-0.00895	-0.02284
BC Laboratories	-0.02275	-0.02284	-0.03719

Positive values show pairs of means that are significantly different.

Connecting Letters Report

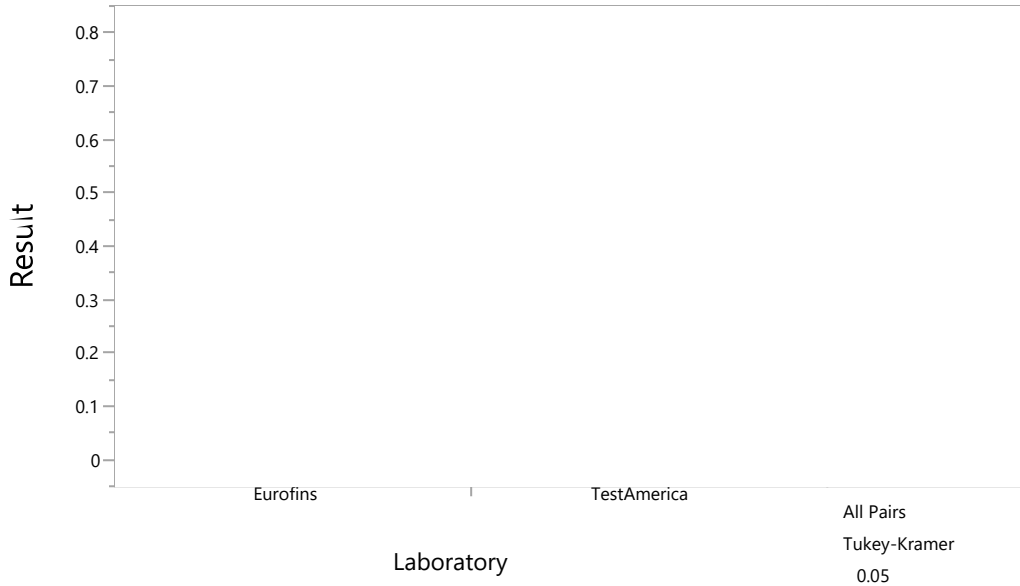
Level	Mean
Eurofins A	0.00737365
TestAmerica A	0.00420290
BC Laboratories A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0073736	0.0128089	-0.022752	0.0374993	0.8332
TestAmerica	BC Laboratories	0.0042029	0.0115000	-0.022844	0.0312502	0.9290
Eurofins	TestAmerica	0.0031707	0.0068052	-0.012835	0.0191760	0.8873

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=2,2,4-Trimethylpentane



Missing Rows 156

Oneway Anova

Summary of Fit

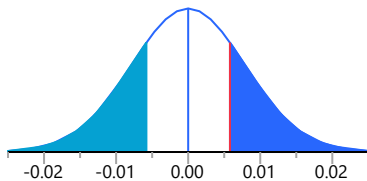
Rsquare 0.001328
 Adj Rsquare -0.00113
 Root Mean Square Error 0.057904
 Mean of Response 0.00489
 Observations (or Sum Wgts) 409

t Test

TestAmerica-Eurofins

Assuming equal variances

Difference 0.00580 t Ratio 0.735601
 Std Err Dif 0.00788 DF 407
 Upper CL Dif 0.02129 Prob > |t| 0.4624
 Lower CL Dif -0.00969 Prob > t 0.2312
 Confidence 0.95 Prob < t 0.7688



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.0018143	0.001814	0.5411	0.4624
Error	407	1.3646058	0.003353		
C. Total	408	1.3664200			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0.000000	0.00724	-0.0142	0.01423
TestAmerica	345	0.005797	0.00312	-0.0003	0.01193

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
TestAmerica	Eurofins	1.768999	2.377885	0.7439381	0.4569	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	13024.0	13120.0	203.500	-0.744
TestAmerica	345	70821.0	70725.0	205.278	0.744

2-Sample Test, Normal Approximation

S	Z	Prob> Z
13024	-0.74394	0.4569

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.5593	1	0.4546

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96581	0.05

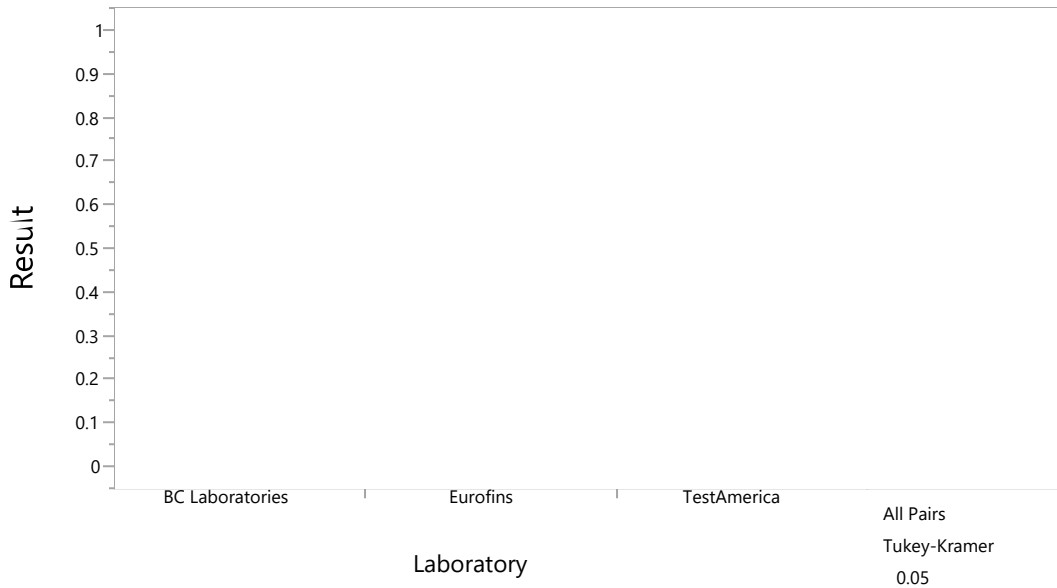
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric	Eurofins
TestAmerica	-0.00867	-0.00969
Eurofins	-0.00969	-0.02012

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=4-Ethyltoluene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.024243
Adj Rsquare	0.019662
Root Mean Square Error	0.098988
Mean of Response	0.021748
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.1037094	0.051855	5.2920	0.0054*
Error	426	4.1742490	0.009799		
C. Total	428	4.2779584			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.02213	-0.0435	0.04351
Eurofins	64	0.057970	0.01237	0.0336	0.08229
TestAmerica	345	0.016290	0.00533	0.0058	0.02676

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
Eurofins	BC Laboratories	24.248	5.674899	4.2729	<.0001*	0.045767	0.000000	0.0691597
TestAmerica	BC Laboratories	4.734	6.518962	0.7263	0.4677	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-109.854	8.825183	-12.4478	<.0001*	-0.044750	-0.058989	0.000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3840.00	4300.00	192.000	-1.580
Eurofins	64	20061.0	13760.0	313.453	12.823
TestAmerica	345	68334.0	74175.0	198.070	-10.672

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
164.6077	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.04116	0.00999	-0.00167
TestAmerica	0.00999	-0.01773	-0.03726
BC Laboratories	-0.00167	-0.03726	-0.07362

Positive values show pairs of means that are significantly different.

Connecting Letters Report

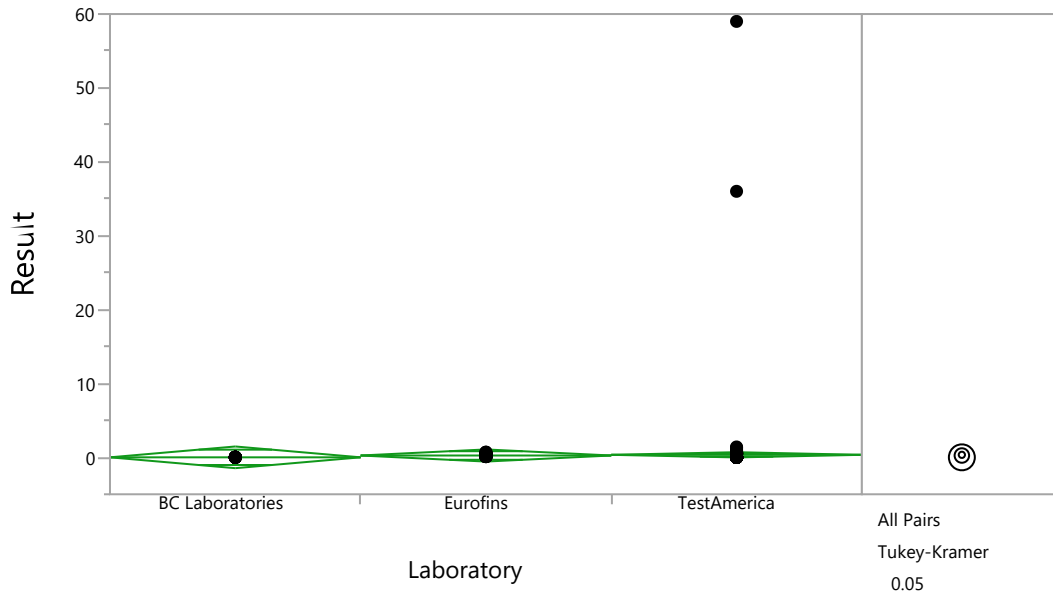
Level	Mean
Eurofins A	0.05797037
TestAmerica B	0.01628986
BC Laboratories A B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0579704	0.0253582	-0.001671	0.1176113	0.0588
Eurofins	TestAmerica	0.0416805	0.0134724	0.009994	0.0733668	0.0060*
TestAmerica	BC Laboratories	0.0162899	0.0227670	-0.037257	0.0698364	0.7545

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Benzene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.000518
Adj Rsquare	-0.00417
Root Mean Square Error	3.340805
Mean of Response	0.30927
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	2.4643	1.2321	0.1104	0.8955
Error	426	4754.5753	11.1610		
C. Total	428	4757.0396			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.74703	-1.468	1.4683
Eurofins	64	0.246719	0.41760	-0.574	1.0675
TestAmerica	345	0.338803	0.17986	-0.015	0.6923

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
Eurofins	BC Laboratories	41.967	6.20513	6.7633	<.0001*	0.206427	0.153380	0.270000
TestAmerica	BC Laboratories	19.546	12.71012	1.5378	0.1241	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-162.989	12.17813	-13.3837	<.0001*	-0.169031	-0.215984	-0.153380

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3290.00	4300.00	164.500	-2.507
Eurofins	64	23199.5	13760.0	362.492	13.873
TestAmerica	345	65745.5	74175.0	190.567	-11.122

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
193.9834	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric	Eurofins	BC Laboratories
TestAmerica	-0.5982	-0.9773	-1.4684
Eurofins	-0.9773	-1.3890	-1.7661
BC Laboratories	-1.4684	-1.7661	-2.4847

Positive values show pairs of means that are significantly different.

Connecting Letters Report

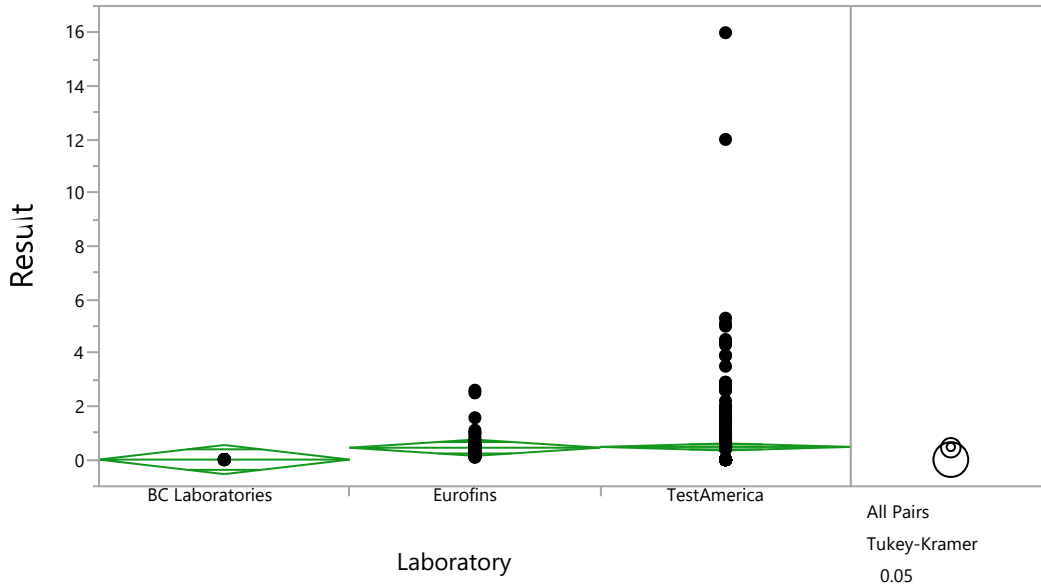
Level	Mean
TestAmerica	A
Eurofins	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.3388027	0.7683745	-1.46836	2.145969	0.8984
Eurofins	BC Laboratories	0.2467195	0.8558265	-1.76613	2.259567	0.9552
TestAmerica	Eurofins	0.0920832	0.4546877	-0.97731	1.161479	0.9776

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Cyclohexane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.00646
Adj Rsquare	0.001796
Root Mean Square Error	1.239996
Mean of Response	0.447954
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	4.25914	2.12957	1.3850	0.2514
Error	426	655.01303	1.53759		
C. Total	428	659.27217			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.27727	-0.5450	0.54499
Eurofins	64	0.444278	0.15500	0.1396	0.74894
TestAmerica	345	0.474604	0.06676	0.3434	0.60582

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
TestAmerica	BC Laboratories	54.9880	19.32787	2.84501	0.0044*	0.000000	0.000000	0.000000
Eurofins	BC Laboratories	41.9672	6.20596	6.76240	<.0001*	0.290518	0.214983	0.400000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-96.8319	14.34885	-6.74841	<.0001*	-0.209173	-0.258561	-0.162690

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	2620.00	4300.00	131.000	-3.524
Eurofins	64	19628.0	13760.0	306.688	7.286
TestAmerica	345	69987.0	74175.0	202.861	-4.668

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
61.2885	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric	Eurofins	BC Laboratories
TestAmerica	-0.22205	-0.36660	-0.19616
Eurofins	-0.36660	-0.51555	-0.30282
BC Laboratories	-0.19616	-0.30282	-0.92224

Positive values show pairs of means that are significantly different.

Connecting Letters Report

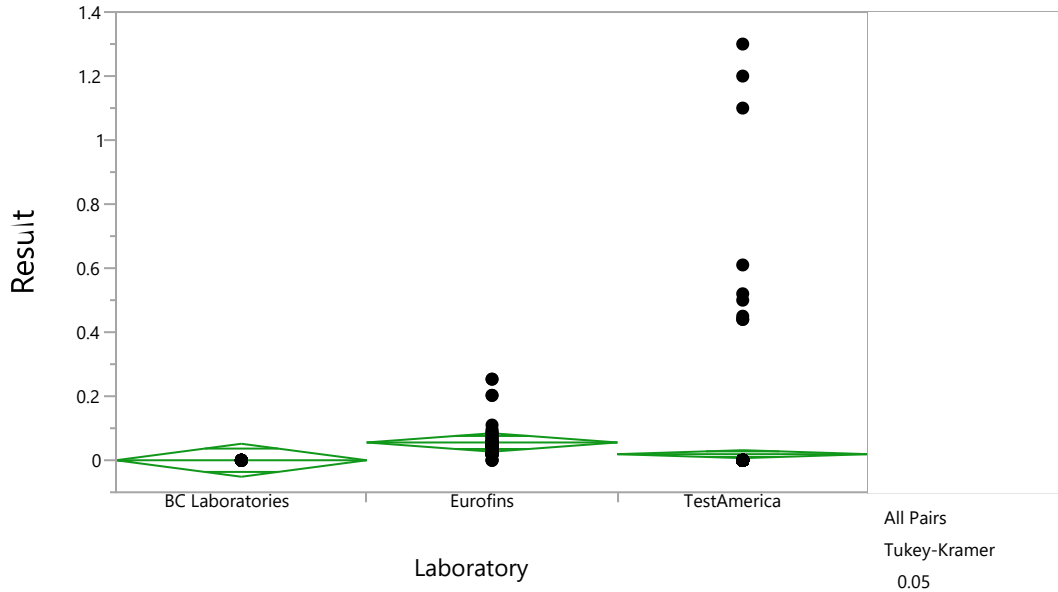
Level	Mean
TestAmerica	A
Eurofins	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.4746038	0.2851951	-0.196156	1.145364	0.2203
Eurofins	BC Laboratories	0.4442783	0.3176544	-0.302824	1.191380	0.3425
TestAmerica	Eurofins	0.0303255	0.1687650	-0.366599	0.427250	0.9824

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Ethylbenzene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.014085
Adj Rsquare	0.009456
Root Mean Square Error	0.117284
Mean of Response	0.023578
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.0837136	0.041857	3.0429	0.0487*
Error	426	5.8598225	0.013755		
C. Total	428	5.9435360			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.02623	-0.0515	0.05155
Eurofins	64	0.055547	0.01466	0.0267	0.08436
TestAmerica	345	0.019014	0.00631	0.0066	0.03143

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
Eurofins	BC Laboratories	39.998	6.18363	6.4684	<.0001*	0.043755	0.034544	0.054000
TestAmerica	BC Laboratories	4.734	6.51896	0.7263	0.4677	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-184.485	10.55733	-17.4746	<.0001*	-0.043755	-0.052967	-0.036847

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3600.00	4300.00	180.000	-2.008
Eurofins	64	24330.0	13760.0	380.156	17.955
TestAmerica	345	64305.0	74175.0	186.391	-15.053

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
322.5323	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.04876	-0.00101	-0.01512
TestAmerica	-0.00101	-0.02100	-0.04443
BC Laboratories	-0.01512	-0.04443	-0.08723

Positive values show pairs of means that are significantly different.

Connecting Letters Report

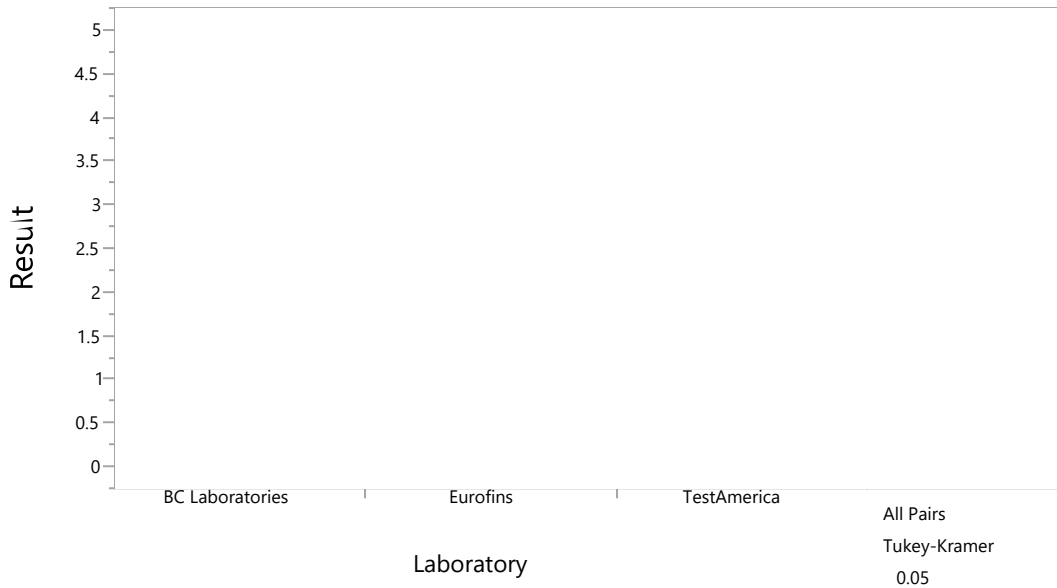
Level	Mean
Eurofins	0.05554729
TestAmerica	0.01901449
BC Laboratories	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0555473	0.0300450	-0.015117	0.1262111	0.1552
Eurofins	TestAmerica	0.0365328	0.0159624	-0.001010	0.0740754	0.0585
TestAmerica	BC Laboratories	0.0190145	0.0269749	-0.044429	0.0824576	0.7607

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Heptane



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.143791
Adj Rsquare	0.139772
Root Mean Square Error	0.462573
Mean of Response	0.171666
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	15.30818	7.65409	35.7711	<.0001*
Error	426	91.15285	0.21397		
C. Total	428	106.46103			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.10343	-0.2033	0.20331
Eurofins	64	0.620077	0.05782	0.5064	0.73373
TestAmerica	345	0.098435	0.02490	0.0495	0.14738

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
Eurofins	BC Laboratories	41.967	6.20542	6.7630	<.0001*	0.415000	0.317184	0.609969
TestAmerica	BC Laboratories	11.611	10.00978	1.1600	0.2461	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-181.077	11.46111	-15.7992	<.0001*	-0.390380	-0.440000	-0.341583

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3440.00	4300.00	172.000	-2.270
Eurofins	64	24176.0	13760.0	377.750	16.281
TestAmerica	345	64619.0	74175.0	187.301	-13.411

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
265.7004	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.19232	0.37357	0.34137
TestAmerica	0.37357	-0.08283	-0.15179
BC Laboratories	0.34137	-0.15179	-0.34404

Positive values show pairs of means that are significantly different.

Connecting Letters Report

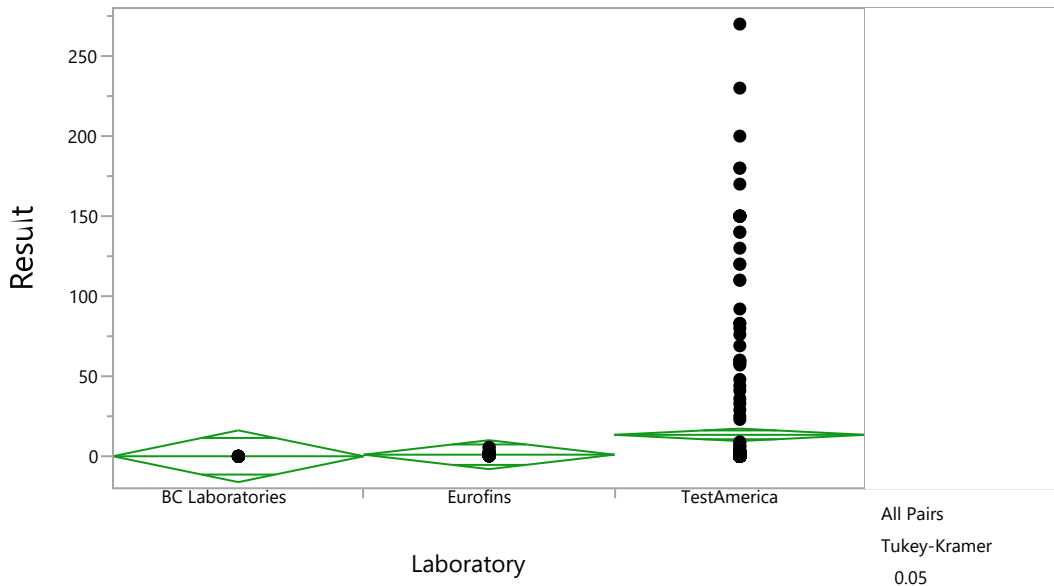
Level	Mean
Eurofins	A
TestAmerica	B
BC Laboratories	B

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.6200768	0.1184991	0.341375	0.8987788	<.0001*
Eurofins	TestAmerica	0.5216420	0.0629568	0.373572	0.6697122	<.0001*
TestAmerica	BC Laboratories	0.0984348	0.1063903	-0.151788	0.3486578	0.6246

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Hexane+



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.018366
Adj Rsquare	0.013758
Root Mean Square Error	36.79006
Mean of Response	10.90677
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	10788.06	5394.03	3.9852	0.0193*
Error	426	576594.60	1353.51		
C. Total	428	587382.66			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.0000	8.2265	-16.17	16.170
Eurofins	64	0.9856	4.5988	-8.05	10.025
TestAmerica	345	13.3795	1.9807	9.49	17.273

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
TestAmerica	BC Laboratories	47.582	18.35821	2.59188	0.0095*	0.000000	0.000000	0.000000
Eurofins	BC Laboratories	41.967	6.20434	6.76417	<.0001*	0.715450	0.480000	0.907867

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-107.557	14.00399	-7.68045	<.0001*	-0.453934	-0.567417	-0.368821

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	2760.00	4300.00	138.000	-3.313
Eurofins	64	20207.0	13760.0	315.734	8.210
TestAmerica	345	69268.0	74175.0	200.777	-5.610

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
73.9917	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric	Eurofins	BC Laboratories
TestAmerica	-6.588	0.617	-6.522
Eurofins	0.617	-15.296	-21.181
BC Laboratories	-6.522	-21.181	-27.362

Positive values show pairs of means that are significantly different.

Connecting Letters Report

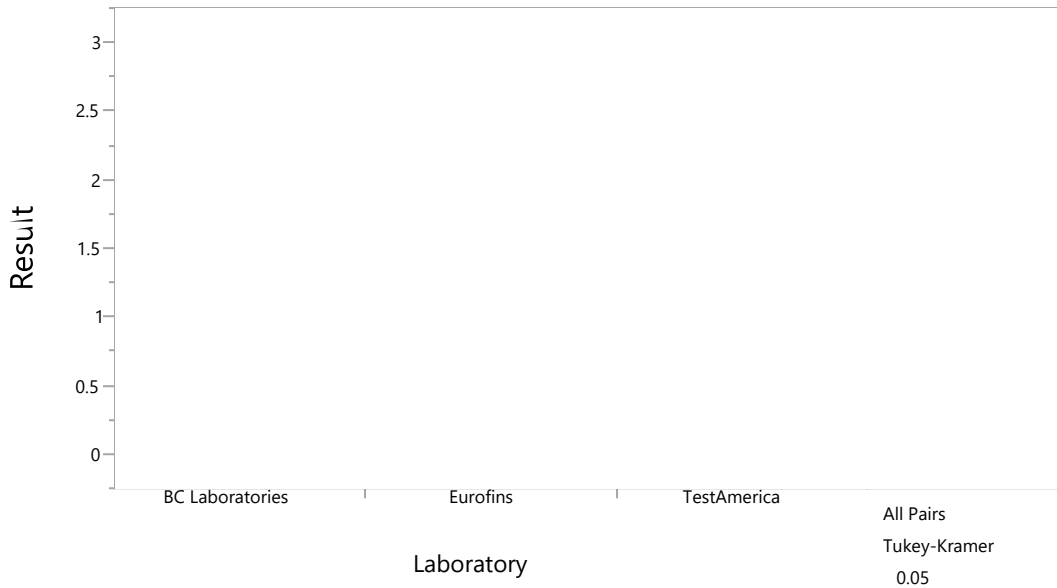
Level	Mean
TestAmerica A	13.379486
Eurofins B	0.985623
BC Laboratories A B	0.000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	13.37949	8.461598	-6.5216	33.28060	0.2549
TestAmerica	Eurofins	12.39386	5.007173	0.6173	24.17040	0.0364*
Eurofins	BC Laboratories	0.98562	9.424648	-21.1805	23.15177	0.9940

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=m,p-Xylene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.012168
Adj Rsquare	0.00753
Root Mean Square Error	0.370054
Mean of Response	0.092059
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.718586	0.359293	2.6237	0.0737
Error	426	58.336504	0.136940		
C. Total	428	59.055089			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.08275	-0.1626	0.16264
Eurofins	64	0.180986	0.04626	0.0901	0.27191
TestAmerica	345	0.080899	0.01992	0.0417	0.12006

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
Eurofins	BC Laboratories	41.311	6.19917	6.6639	<.0001*	0.123206	0.101328	0.150000
TestAmerica	BC Laboratories	8.437	8.60805	0.9802	0.3270	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-182.550	11.08547	-16.4675	<.0001*	-0.120000	-0.135872	-0.110540

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3510.00	4300.00	175.500	-2.157
Eurofins	64	24245.5	13760.0	378.836	16.953
TestAmerica	345	64479.5	74175.0	186.897	-14.074

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
287.7853	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.15386	-0.01837	-0.04197
TestAmerica	-0.01837	-0.06627	-0.11928
BC Laboratories	-0.04197	-0.11928	-0.27523

Positive values show pairs of means that are significantly different.

Connecting Letters Report

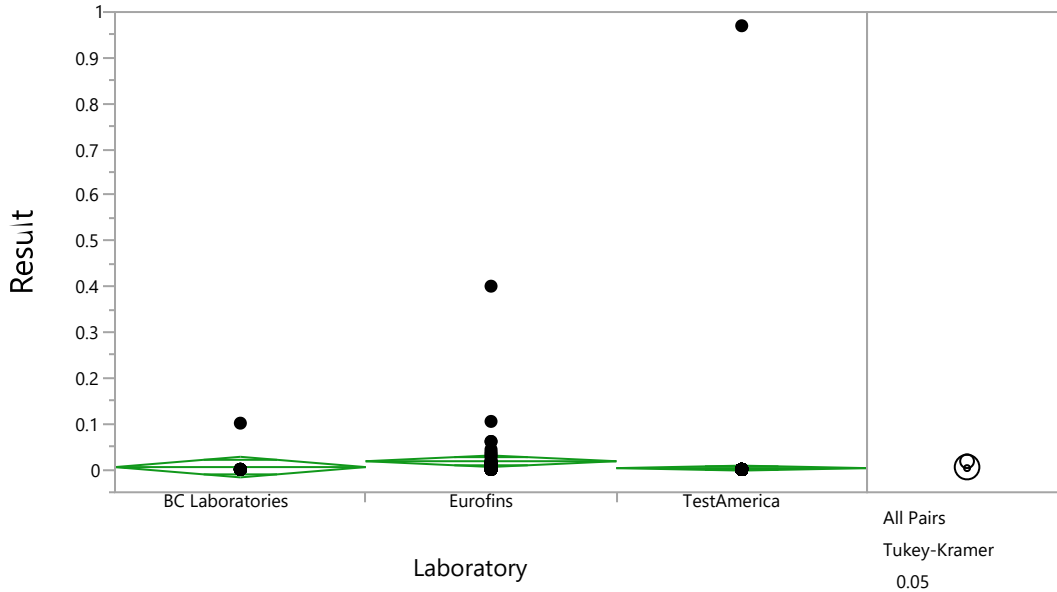
Level	Mean
Eurofins	A
TestAmerica	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.1809864	0.0947982	-0.041973	0.4039454	0.1373
Eurofins	TestAmerica	0.1000878	0.0503648	-0.018367	0.2185426	0.1166
TestAmerica	BC Laboratories	0.0808986	0.0851113	-0.119278	0.2810747	0.6086

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Naphthalene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.010887
Adj Rsquare	0.006243
Root Mean Square Error	0.051195
Mean of Response	0.005167
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.0122887	0.006144	2.3444	0.0971
Error	426	1.1164969	0.002621		
C. Total	428	1.1287856			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.005055	0.01145	-0.0174	0.02756
Eurofins	64	0.017899	0.00640	0.0053	0.03048
TestAmerica	345	0.002812	0.00276	-0.0026	0.00823

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
Eurofins	BC Laboratories	24.183	5.874055	4.1169	<.0001*	0.008203	0.000000	0.009729
TestAmerica	BC Laboratories	-8.543	3.102827	-2.7533	0.0059*	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-133.212	8.565043	-15.5530	<.0001*	-0.008584	-0.009157	-0.007249

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4093.00	4300.00	204.650	-0.724
Eurofins	64	21321.0	13760.0	333.141	15.695
TestAmerica	345	66821.0	74175.0	193.684	-13.705

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
246.9016	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.02129	-0.01800	-0.00130
BC Laboratories	-0.01800	-0.03808	-0.02545
TestAmerica	-0.00130	-0.02545	-0.00917

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
Eurofins A	0.01789887
BC Laboratories A	0.00505500
TestAmerica A	0.00281159

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	TestAmerica	0.0150873	0.0069676	-0.001300	0.0314747	0.0784
Eurofins	BC Laboratories	0.0128439	0.0131147	-0.018001	0.0436888	0.5903
BC Laboratories	TestAmerica	0.0022434	0.0117746	-0.025450	0.0299365	0.9802

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Octane



Missing Rows 156

Oneway Anova

Summary of Fit

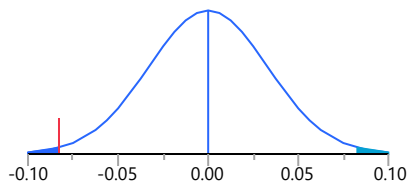
Rsquare 0.015215
 Adj Rsquare 0.012796
 Root Mean Square Error 0.242635
 Mean of Response 0.058233
 Observations (or Sum Wgts) 409

t Test

TestAmerica-Eurofins

Assuming equal variances

Difference -0.08281 t Ratio -2.50764
 Std Err Dif 0.03302 DF 407
 Upper CL Dif -0.01789 Prob > |t| 0.0125*
 Lower CL Dif -0.14773 Prob > t 0.9937
 Confidence 0.95 Prob < t 0.0063*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.370199	0.370199	6.2882	0.0125*
Error	407	23.960748	0.058872		
C. Total	408	24.330946			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0.128085	0.03033	0.06846	0.18771
TestAmerica	345	0.045275	0.01306	0.01960	0.07095

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
TestAmerica	Eurofins	-3.33424	7.043161	-0.473401	0.6359	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	13300.5	13120.0	207.820	0.473
TestAmerica	345	70544.5	70725.0	204.477	-0.473

2-Sample Test, Normal Approximation

S	Z	Prob> Z
13300.5	0.47340	0.6359

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2254	1	0.6350

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96581	0.05

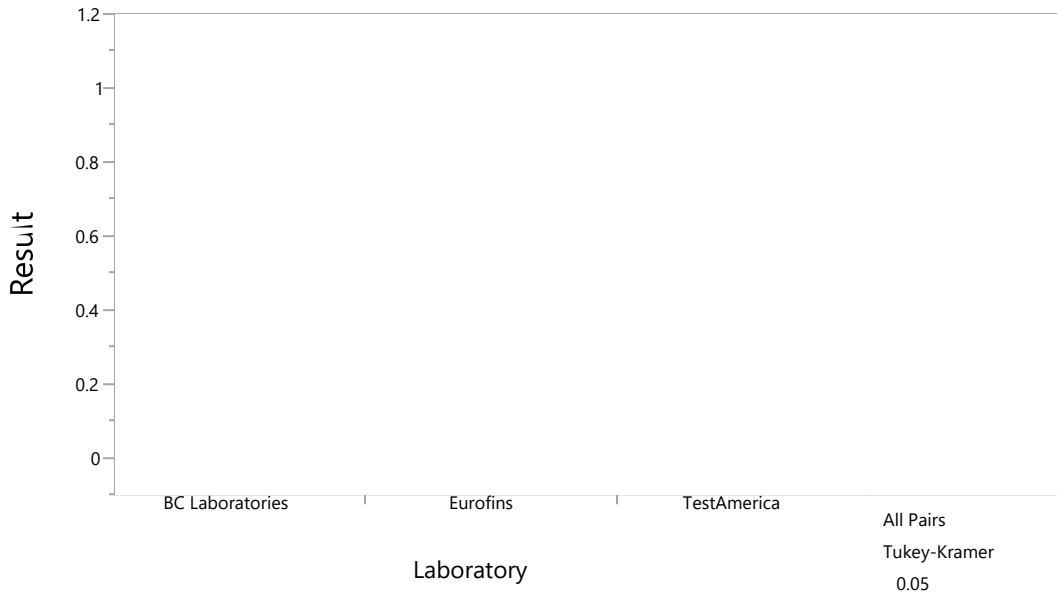
HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric
Eurofins	-0.08432	0.01789
TestAmerica	0.01789	-0.03632

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=o-Xylene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.020693
Adj Rsquare	0.016096
Root Mean Square Error	0.112677
Mean of Response	0.026603
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.1142852	0.057143	4.5008	0.0116*
Error	426	5.4085344	0.012696		
C. Total	428	5.5228196			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.02520	-0.0495	0.04952
Eurofins	64	0.064106	0.01408	0.0364	0.09179
TestAmerica	345	0.021188	0.00607	0.0093	0.03311

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
Eurofins	BC Laboratories	39.998	6.18260	6.4695	<.0001*	0.046058	0.034544	0.060000
TestAmerica	BC Laboratories	5.792	7.18709	0.8059	0.4203	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-182.170	10.67941	-17.0580	<.0001*	-0.043755	-0.048361	-0.039149

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3580.00	4300.00	179.000	-2.042
Eurofins	64	24205.0	13760.0	378.203	17.538
TestAmerica	345	64450.0	74175.0	186.812	-14.660

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
307.7724	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.04685	0.00685	-0.00378
TestAmerica	0.00685	-0.02018	-0.03976
BC Laboratories	-0.00378	-0.03976	-0.08380

Positive values show pairs of means that are significantly different.

Connecting Letters Report

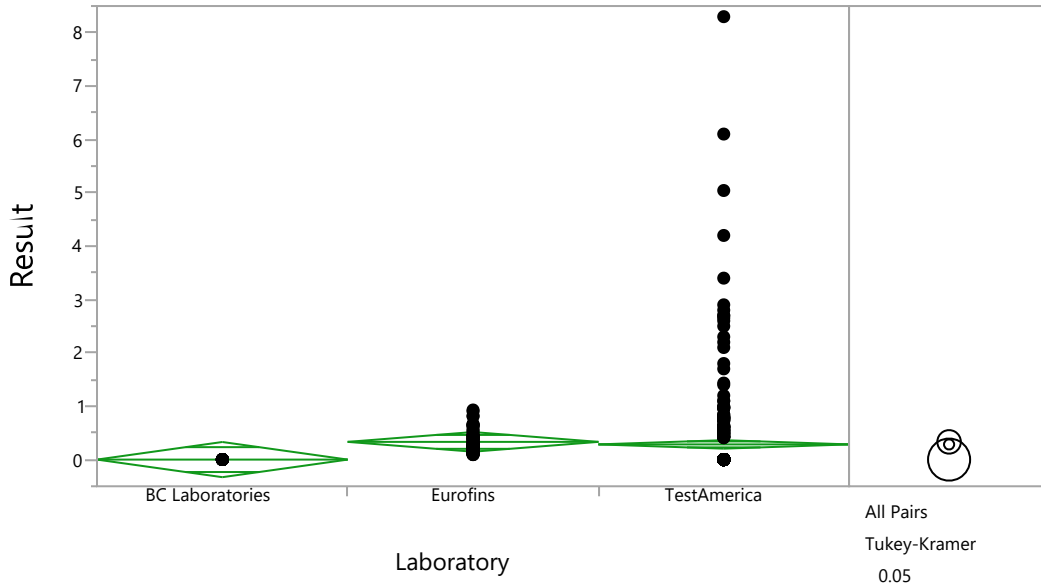
Level	Mean
Eurofins A	0.06410636
TestAmerica B	0.02118841
BC Laboratories A B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0641064	0.0288649	-0.003782	0.1319946	0.0688
Eurofins	TestAmerica	0.0429180	0.0153355	0.006850	0.0789860	0.0148*
TestAmerica	BC Laboratories	0.0211884	0.0259153	-0.039763	0.0821396	0.6923

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon, Method Name=EPA TO-15, Analyte=Toluene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.007232
Adj Rsquare	0.002571
Root Mean Square Error	0.75012
Mean of Response	0.278322
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	1.74623	0.873114	1.5517	0.2131
Error	426	239.70153	0.562680		
C. Total	428	241.44776			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.16773	-0.3297	0.32969
Eurofins	64	0.331901	0.09376	0.1476	0.51620
TestAmerica	345	0.284517	0.04039	0.2051	0.36390

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
Eurofins	BC Laboratories	41.967	6.20599	6.76236	<.0001*	0.261377	0.209632	0.371500
TestAmerica	BC Laboratories	41.234	17.39552	2.37041	0.0178*	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-120.699	13.66882	-8.83027	<.0001*	-0.209632	-0.250000	-0.188404

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	2880.00	4300.00	144.000	-3.132
Eurofins	64	20916.5	13760.0	326.820	9.345
TestAmerica	345	68438.5	74175.0	198.372	-6.725

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
92.5231	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.31188	-0.19273	-0.12005
TestAmerica	-0.19273	-0.13433	-0.12125
BC Laboratories	-0.12005	-0.12125	-0.55790

Positive values show pairs of means that are significantly different.

Connecting Letters Report

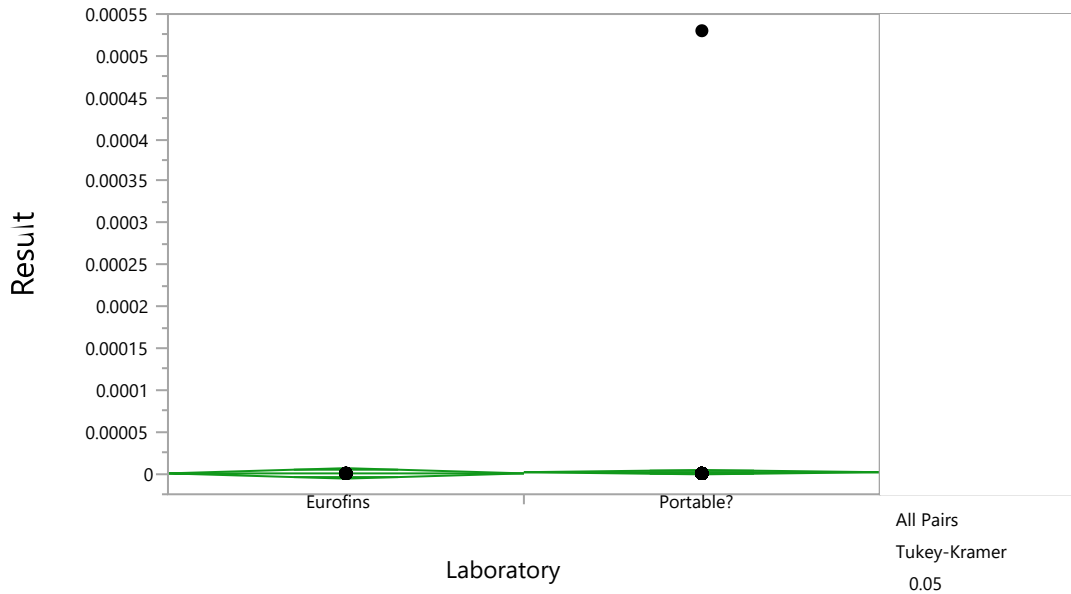
Level	Mean
Eurofins A	0.33190089
TestAmerica A	0.28451717
BC Laboratories A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.3319009	0.1921610	-0.120049	0.7838509	0.1962
TestAmerica	BC Laboratories	0.2845172	0.1725252	-0.121251	0.6902850	0.2263
Eurofins	TestAmerica	0.0473837	0.1020922	-0.192730	0.2874979	0.8881

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=ASTM D-1945/3588, Analyte=Ethane



Missing Rows 154

Oneway Anova

Summary of Fit

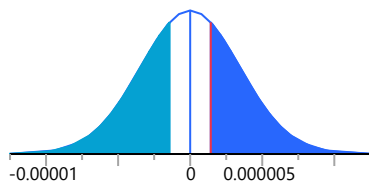
Rsquare 0.000397
 Adj Rsquare -0.00191
 Root Mean Square Error 2.544e-5
 Mean of Response 1.218e-6
 Observations (or Sum Wgts) 435

t Test

Portable?-Eurofins

Assuming equal variances

Difference 1.4286e-6 t Ratio 0.414943
 Std Err Dif 3.4428e-6 DF 433
 Upper CL Dif 8.1953e-6 Prob > |t| 0.6784
 Lower CL Dif -5.338e-6 Prob > t 0.3392
 Confidence 0.95 Prob < t 0.6608



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	1.114e-10	1.114e-10	0.1722	0.6784
Error	433	2.80143e-7	6.47e-10		
C. Total	434	2.80254e-7			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0	3.1795e-6	-6.249e-6	6.2491e-6
Portable?	371	1.4286e-6	1.3206e-6	-1.167e-6	4.0241e-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
Portable?	Eurofins	0.5770932	1.411505	0.4088496	0.6827	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	13920.0	13952.0	217.500	-0.409
Portable?	371	80910.0	80878.0	218.086	0.409

2-Sample Test, Normal Approximation

S	Z	Prob> Z
13920	-0.40885	0.6827

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.1725	1	0.6779

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96546	0.05

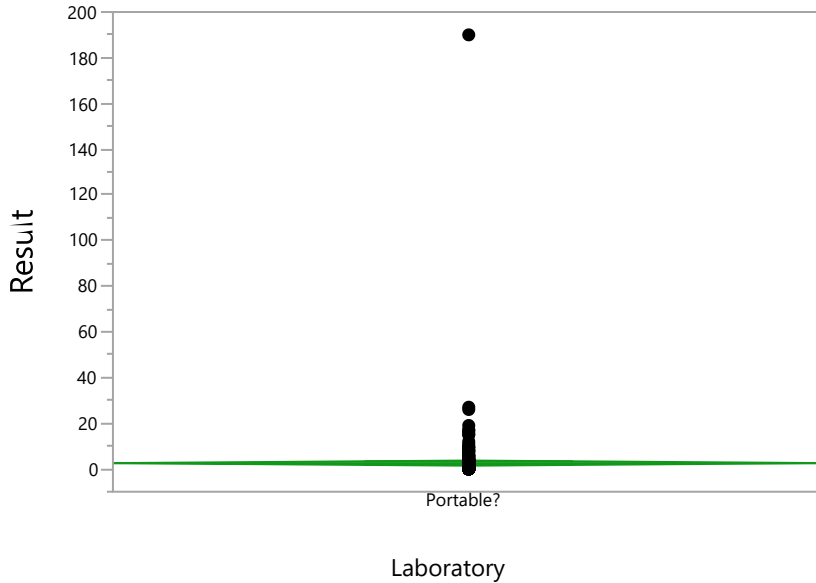
HSD Threshold Matrix

Abs(Dif)-HSD

	Portable?	Eurofins
Portable?	-3.67e-6	-5.34e-6
Eurofins	-5.34e-6	-8.84e-6

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=ASTM D-1945/3588, Analyte=I-Butane



Missing Rows 150

Oneway Anova

Summary of Fit

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	10.64171
Mean of Response	2.525248
Observations (or Sum Wgts)	345

Analysis of Variance

Laboratory	0	0.000	.	.	.
Error	344	38956.593	113.246	.	.
C. Total	344	38956.593			

Means for Oneway Anova

Portable?	345	2.52525	0.57293	1.3984	3.6521
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Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

1.95996	0.05
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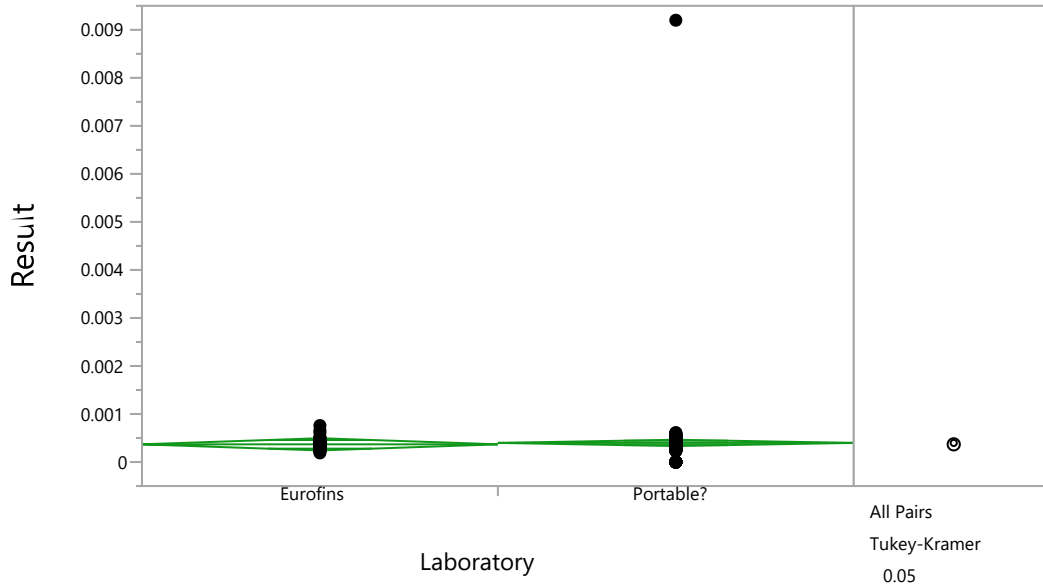
Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Portable?	345	59685.0	59685.0	173.000	.

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.0000	0	.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=ASTM D-1945/3588, Analyte=Methane



Missing Rows 277

Oneway Anova Summary of Fit

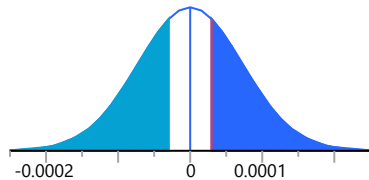
Rsquare	0.000539
Adj Rsquare	-0.00269
Root Mean Square Error	0.000517
Mean of Response	0.000392
Observations (or Sum Wgts)	312

t Test

Portable?-Eurofins

Assuming equal variances

Difference	2.964e-5	t Ratio	0.408749
Std Err Dif	7.251e-5	DF	310
Upper CL Dif	0.00017	Prob > t	0.6830
Lower CL Dif	-0.00011	Prob > t	0.3415
Confidence	0.95	Prob < t	0.6585



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	4.46836e-8	4.4684e-8	0.1671	0.6830
Error	310	0.00008291	2.6745e-7		
C. Total	311	0.00008295			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	0.000369	6.46e-5	0.00024	0.00050
Portable?	248	0.000398	3.28e-5	0.00033	0.00046

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
Portable?	Eurofins	21.60333	12.63707	1.709520	0.0874	0.0000200	0	0.0000500

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	8916.50	10016.0	139.320	-1.710
Portable?	248	39911.5	38812.0	160.933	1.710

2-Sample Test, Normal Approximation

S	Z	Prob> Z
8916.5	-1.70952	0.0874

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.9251	1	0.0872

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96765	0.05

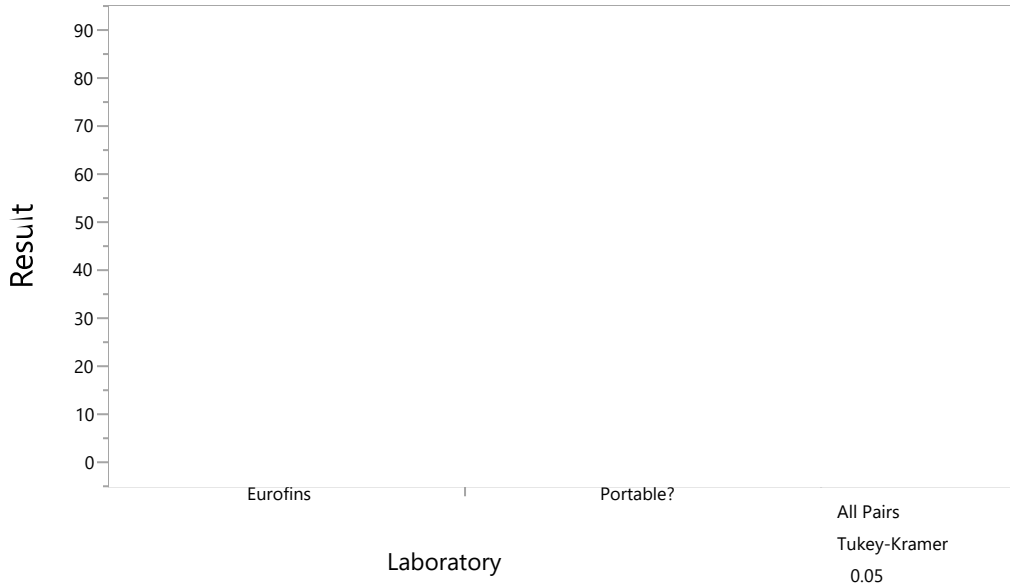
HSD Threshold Matrix

Abs(Dif)-HSD

	Portable?	Eurofins
Portable?	-0.00009	-0.00011
Eurofins	-0.00011	-0.00018

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=ASTM D-1945/3588, Analyte=Methane-ppmv



Missing Rows 277

Oneway Anova

Summary of Fit

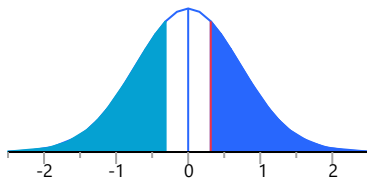
Rsquare 0.000604
 Adj Rsquare -0.00262
 Root Mean Square Error 5.163823
 Mean of Response 3.936538
 Observations (or Sum Wgts) 312

t Test

Portable?-Eurofins

Assuming equal variances

Difference 0.3133 t Ratio 0.432749
 Std Err Dif 0.7240 DF 310
 Upper CL Dif 1.7379 Prob > |t| 0.6655
 Lower CL Dif -1.1113 Prob > t 0.3327
 Confidence 0.95 Prob < t 0.6673



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	4.9936	4.9936	0.1873	0.6655
Error	310	8266.1698	26.6651		
C. Total	311	8271.1635			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	3.68750	0.64548	2.4174	4.9576
Portable?	248	4.00081	0.32790	3.3556	4.6460

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
Portable?	Eurofins	21.66230	12.63756	1.714120	0.0865	0.2000000	0	0.5000000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	8913.50	10016.0	139.273	-1.714
Portable?	248	39914.5	38812.0	160.946	1.714

2-Sample Test, Normal Approximation

S	Z	Prob> Z
8913.5	-1.71412	0.0865

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
2.9409	1	0.0864

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96765	0.05

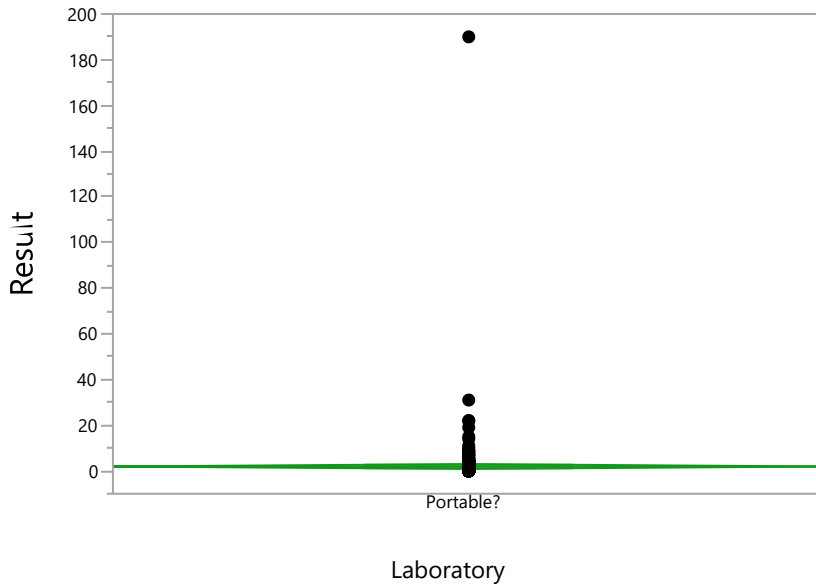
HSD Threshold Matrix

Abs(Dif)-HSD

	Portable?	Eurofins
Portable?	-0.9124	-1.1113
Eurofins	-1.1113	-1.7962

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=ASTM D-1945/3588, Analyte=Pentane



Missing Rows 154

Oneway Anova

Summary of Fit

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	10.3452
Mean of Response	1.918481
Observations (or Sum Wgts)	365

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	0	0.000	.	.	.
Error	364	38956.398	107.023		
C. Total	364	38956.398			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Portable?	365	1.91848	0.54149	0.85363	2.9833

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

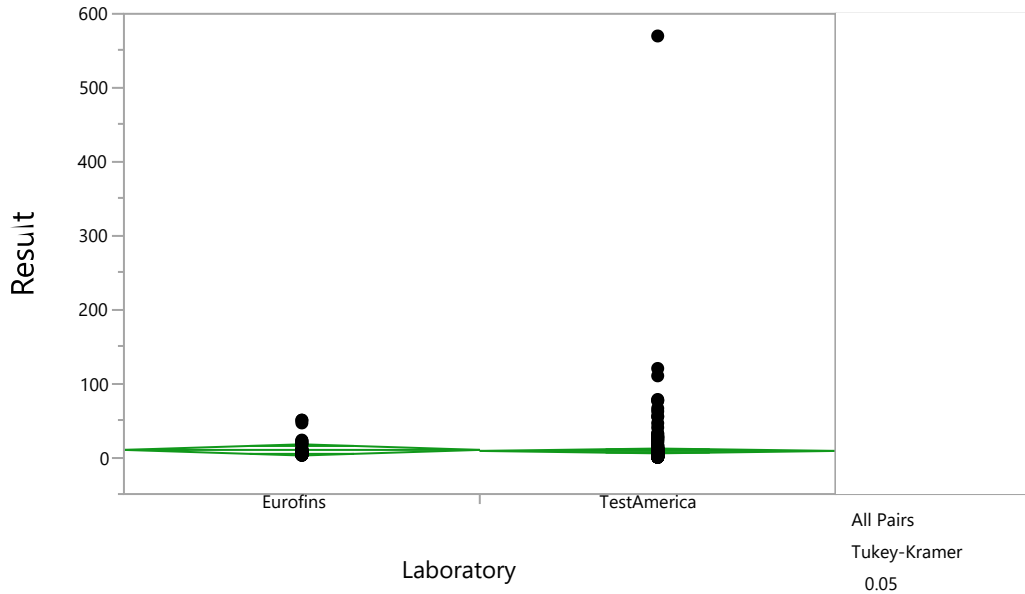
Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Portable?	365	66795.0	66795.0	183.000	

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.0000	0	.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-gas, Method Name=EPA TO-15, Analyte=Butane



Missing Rows 156

Oneway Anova Summary of Fit

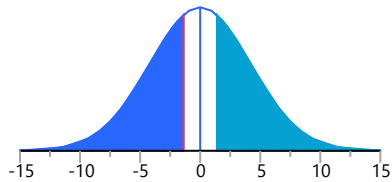
Rsquare	0.00027
Adj Rsquare	-0.00219
Root Mean Square Error	30.85832
Mean of Response	8.572082
Observations (or Sum Wgts)	409

t Test

TestAmerica-Eurofins

Assuming equal variances

Difference	-1.3926	t Ratio	-0.33159
Std Err Dif	4.1999	DF	407
Upper CL Dif	6.8635	Prob > t	0.7404
Lower CL Dif	-9.6488	Prob > t	0.6298
Confidence	0.95	Prob < t	0.3702



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	104.70	104.701	0.1100	0.7404
Error	407	387560.13	952.236		
C. Total	408	387664.83			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Eurofins	64	9.74680	3.8573	2.1641	17.330
TestAmerica	345	8.35416	1.6614	5.0883	11.620

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
TestAmerica	Eurofins	-98.2119	16.08777	-6.10475	<.0001*	-3.10000	-4.10000	-2.33114

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
Eurofins	64	18422.5	13120.0	287.852	6.105
TestAmerica	345	65422.5	70725.0	189.630	-6.105

2-Sample Test, Normal Approximation

S	Z	Prob> Z
18422.5	6.10475	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
37.2751	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96581	0.05

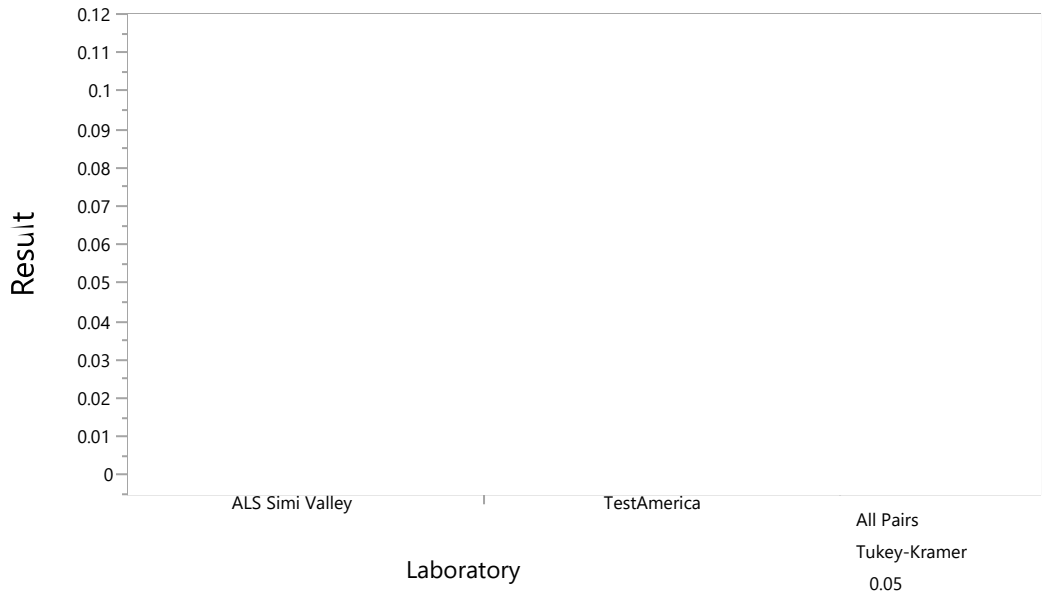
HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric
		a
Eurofins	-10.724	-6.863
TestAmerica	-6.863	-4.619

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=2,5-Dimethyl Benzaldehyde



Missing Rows 321

Oneway Anova

Summary of Fit

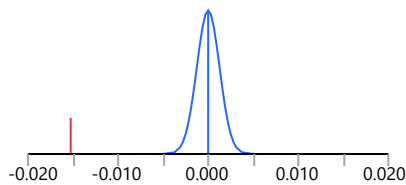
Rsquare	0.150827
Adj Rsquare	0.149803
Root Mean Square Error	0.012096
Mean of Response	0.001947
Observations (or Sum Wgts)	831

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference	-0.01526	t Ratio	-12.1344
Std Err Dif	0.00126	DF	829
Upper CL Dif	-0.01279	Prob > t	<.0001*
Lower CL Dif	-0.01773	Prob > t	1.0000
Confidence	0.95	Prob < t	<.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.02154276	0.021543	147.2438	<.0001*
Error	829	0.12128826	0.000146		
C. Total	830	0.14283102			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	106	0.015263	0.00117	0.0130	0.01757
TestAmerica	725	0.000000	0.00045	-0.0009	0.00088

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
TestAmerica	ALS Simi Valley	-141.108	8.804124	-16.0275	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	106	57146.0	44096.0	539.113	16.027
TestAmerica	725	288550	301600	398.000	-16.027

2-Sample Test, Normal Approximation

S	Z	Prob> Z
57146	16.02747	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
256.8994	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96283	0.05

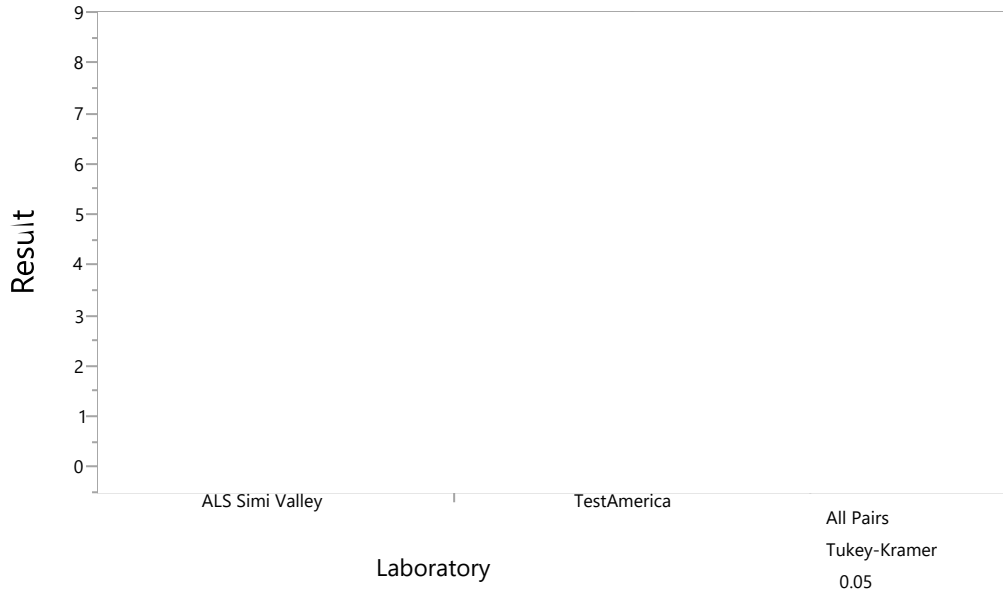
HSD Threshold Matrix

Abs(Dif)-HSD

	ALS Simi Valley	TestAmeric a
ALS Simi Valley	-0.00326	0.01279
TestAmerica	0.01279	-0.00125

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Acetaldehyde



Missing Rows 299

Oneway Anova

Summary of Fit

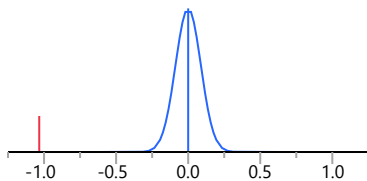
Rsquare 0.140153
 Adj Rsquare 0.139143
 Root Mean Square Error 0.915187
 Mean of Response 0.494427
 Observations (or Sum Wgts) 853

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference -1.0334 t Ratio -11.7776
 Std Err Dif 0.0877 DF 851
 Upper CL Dif -0.8612 Prob > |t| <.0001*
 Lower CL Dif -1.2056 Prob > t 1.0000
 Confidence 0.95 Prob < t <.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	116.17984	116.180	138.7111	<.0001*
Error	851	712.76926	0.838		
C. Total	852	828.94910			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	128	1.37275	0.08089	1.2140	1.5315
TestAmerica	725	0.33936	0.03399	0.2726	0.4061

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
TestAmerica	ALS Simi Valley	-248.487	22.94044	-10.8318	<.0001*	-0.005900	-0.582804	-0.005490

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	128	81690.0	54656.0	638.203	10.832
TestAmerica	725	282541	309575	389.712	-10.832

2-Sample Test, Normal Approximation

S	Z	Prob> Z
81690	10.83182	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
117.3327	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96276	0.05

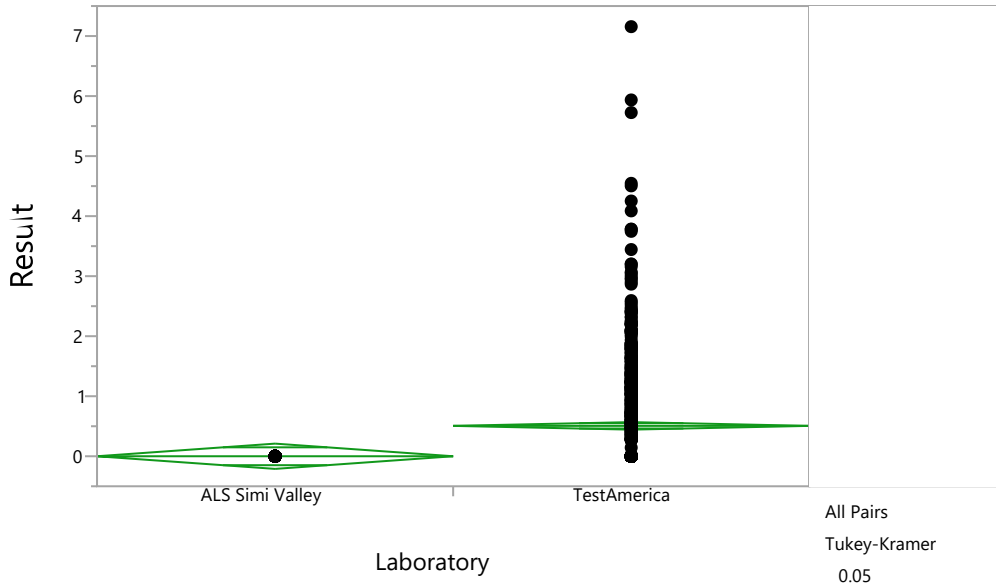
HSD Threshold Matrix

Abs(Dif)-HSD

	ALS Simi Valley	TestAmeric a
ALS Simi Valley	-0.22454	0.86118
TestAmerica	0.86118	-0.09435

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Acetone



Missing Rows 363

Oneway Anova

Summary of Fit

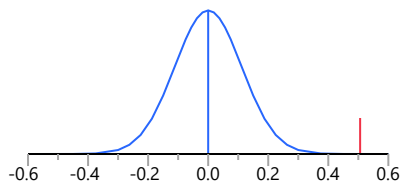
Rsquare	0.025348
Adj Rsquare	0.02411
Root Mean Square Error	0.857755
Mean of Response	0.464984
Observations (or Sum Wgts)	789

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference	0.506031	t Ratio	4.524123
Std Err Dif	0.111852	DF	787
Upper CL Dif	0.725594	Prob > t	<.0001*
Lower CL Dif	0.286468	Prob > t	<.0001*
Confidence	0.95	Prob < t	1.0000



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	15.05898	15.0590	20.4677	<.0001*
Error	787	579.03063	0.7357		
C. Total	788	594.08961			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	64	0.000000	0.10722	-0.2105	0.21047
TestAmerica	725	0.506031	0.03186	0.4435	0.56856

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
TestAmerica	ALS Simi Valley	287.8405	29.18286	9.863341	<.0001*	0.0033400	0.0025200	0.0050000

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	64	8352.00	25280.0	130.500	-9.863
TestAmerica	725	303303	286375	418.349	9.863

2-Sample Test, Normal Approximation

S	Z	Prob> Z
8352	-9.86334	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
97.2912	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96298	0.05

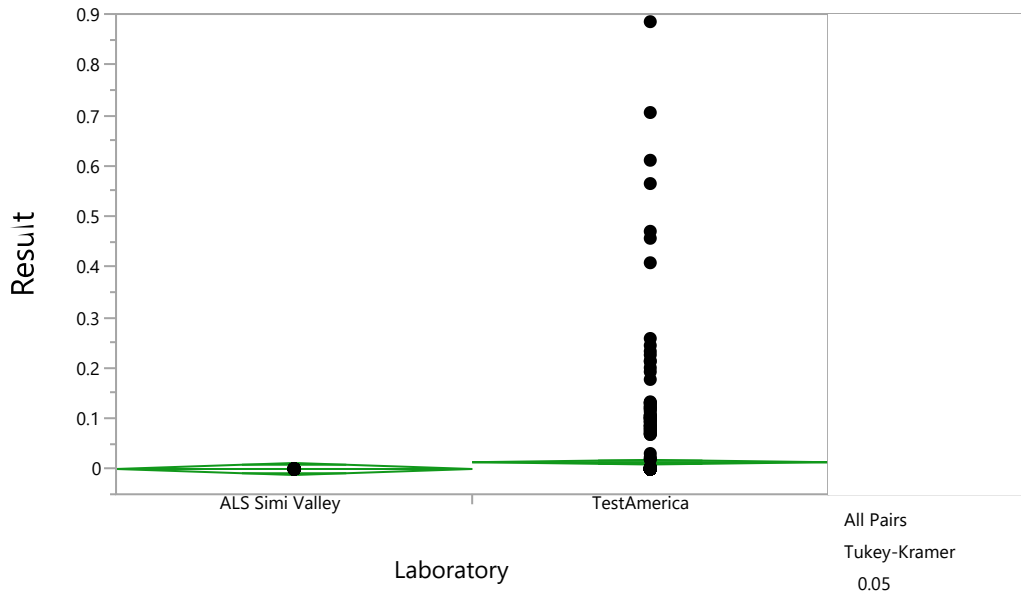
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	ALS Simi Valley
TestAmerica	-0.08844	0.28647
ALS Simi Valley	0.28647	-0.29765

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Benzaldehyde



Missing Rows 321

Oneway Anova

Summary of Fit

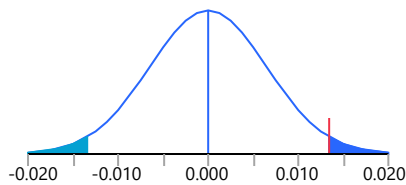
Rsquare 0.005135
 Adj Rsquare 0.003935
 Root Mean Square Error 0.062436
 Mean of Response 0.011717
 Observations (or Sum Wgts) 831

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference 0.013430 t Ratio 2.068589
 Std Err Dif 0.006493 DF 829
 Upper CL Dif 0.026174 Prob > |t| 0.0389*
 Lower CL Dif 0.000687 Prob > t 0.0194*
 Confidence 0.95 Prob < t 0.9806



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.0166811	0.016681	4.2791	0.0389*
Error	829	3.2316912	0.003898		
C. Total	830	3.2483722			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	106	0.000000	0.00606	-0.0119	0.01190
TestAmerica	725	0.013430	0.00232	0.0089	0.01798

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
TestAmerica	ALS Simi Valley	64.18218	14.81487	4.332282	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	106	38160.0	44096.0	360.000	-4.332
TestAmerica	725	307536	301600	424.188	4.332

2-Sample Test, Normal Approximation

S	Z	Prob> Z
38160	-4.33228	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
18.7718	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96283	0.05

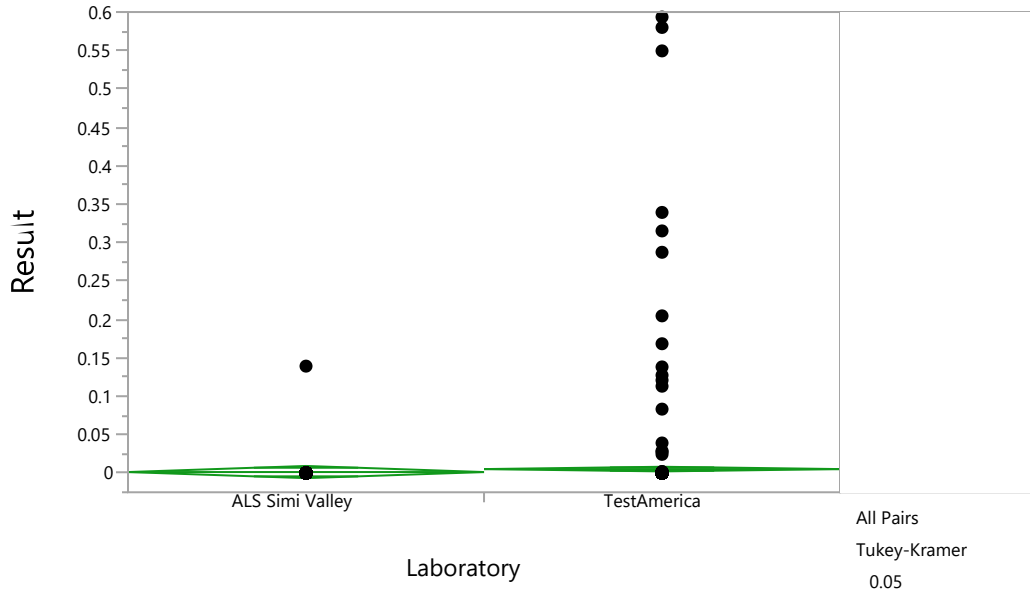
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	ALS Simi Valley
TestAmerica	-0.00644	0.00069
ALS Simi Valley	0.00069	-0.01683

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Butyraldehyde



Missing Rows 321

Oneway Anova

Summary of Fit

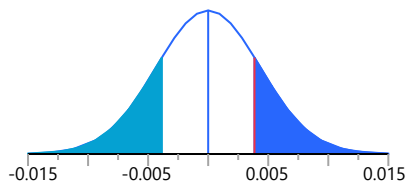
Rsquare 0.000961
 Adj Rsquare -0.00024
 Root Mean Square Error 0.041529
 Mean of Response 0.004679
 Observations (or Sum Wgts) 831

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference 0.00386 t Ratio 0.892764
 Std Err Dif 0.00432 DF 829
 Upper CL Dif 0.01233 Prob > |t| 0.3722
 Lower CL Dif -0.00462 Prob > t 0.1861
 Confidence 0.95 Prob < t 0.8139



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.0013746	0.001375	0.7970	0.3722
Error	829	1.4297251	0.001725		
C. Total	830	1.4310997			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	106	0.001315	0.00403	-0.0066	0.00923
TestAmerica	725	0.005171	0.00154	0.0021	0.00820

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
TestAmerica	ALS Simi Valley	11.62967	8.804135	1.320933	0.1865	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	106	43020.0	44096.0	405.849	-1.321
TestAmerica	725	302676	301600	417.484	1.321

2-Sample Test, Normal Approximation

S	Z	Prob> Z
43020	-1.32093	0.1865

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
1.7465	1	0.1863

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96283	0.05

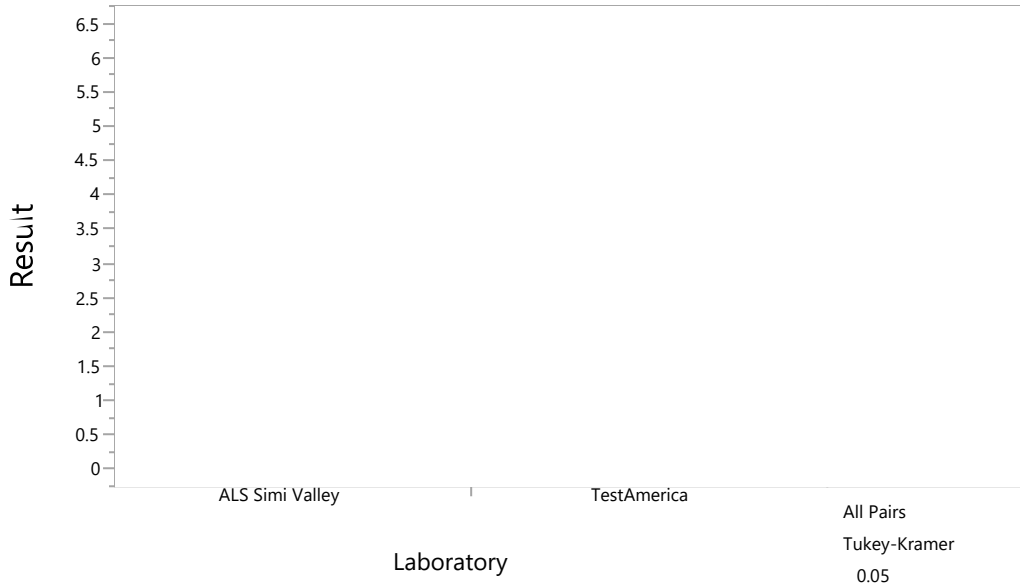
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	ALS Simi Valley
TestAmerica	-0.00428	-0.00462
ALS Simi Valley	-0.00462	-0.01120

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Formaldehyde



Missing Rows 299

Oneway Anova

Summary of Fit

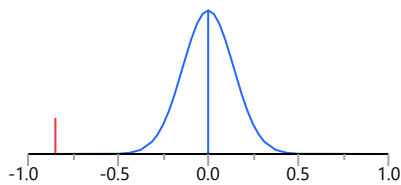
Rsquare	0.041086
Adj Rsquare	0.039959
Root Mean Square Error	1.464723
Mean of Response	1.132555
Observations (or Sum Wgts)	853

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference	-0.8480	t Ratio	-6.03839
Std Err Dif	0.1404	DF	851
Upper CL Dif	-0.5723	Prob > t	<.0001*
Lower CL Dif	-1.1236	Prob > t	1.0000
Confidence	0.95	Prob < t	<.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	78.2264	78.2264	36.4622	<.0001*
Error	851	1825.7459	2.1454		
C. Total	852	1903.9723			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	128	1.85327	0.12946	1.5992	2.1074
TestAmerica	725	1.00531	0.05440	0.8985	1.1121

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
TestAmerica	ALS Simi Valley	-113.804	23.62061	-4.81799	<.0001*	-0.003650	-0.004950	-0.002510

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	128	67037.5	54656.0	523.730	4.818
TestAmerica	725	297194	309575	409.922	-4.818

2-Sample Test, Normal Approximation

S	Z	Prob> Z
67037.5	4.81799	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
23.2149	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96276	0.05

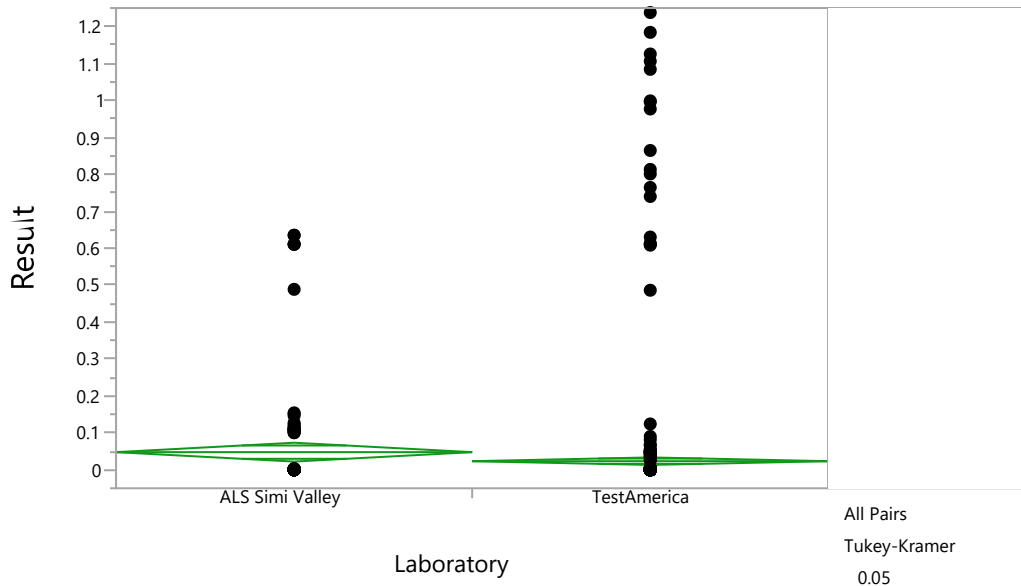
HSD Threshold Matrix

Abs(Dif)-HSD

	ALS Simi Valley	TestAmeric a
ALS Simi Valley	-0.35936	0.57234
TestAmerica	0.57234	-0.15100

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Hexaldehyde



Missing Rows 312

Oneway Anova

Summary of Fit

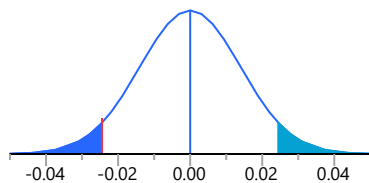
Rsquare 0.003637
 Adj Rsquare 0.002448
 Root Mean Square Error 0.139354
 Mean of Response 0.026671
 Observations (or Sum Wgts) 840

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference -0.02446 t Ratio -1.74892
 Std Err Dif 0.01399 DF 838
 Upper CL Dif 0.00299 Prob > |t| 0.0807
 Lower CL Dif -0.05192 Prob > t 0.9597
 Confidence 0.95 Prob < t 0.0403*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.059399	0.059399	3.0587	0.0807
Error	838	16.273676	0.019420		
C. Total	839	16.333076			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	115	0.047785	0.01299	0.02228	0.07329
TestAmerica	725	0.023322	0.00518	0.01316	0.03348

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	ALS Simi Valley	-114.426	15.12837	-7.56370	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	115	59715.5	48357.5	519.265	7.564
TestAmerica	725	293505	304863	404.834	-7.564

2-Sample Test, Normal Approximation

S	Z	Prob> Z
59715.5	7.56370	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
57.2146	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96280	0.05

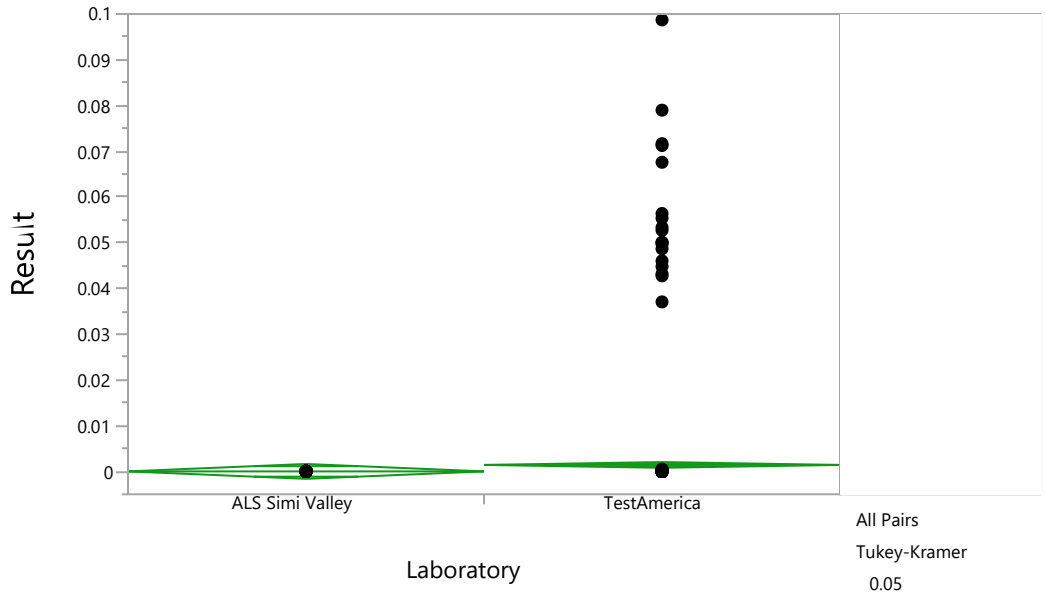
HSD Threshold Matrix

Abs(Dif)-HSD

	ALS Simi Valley	TestAmeric a
ALS Simi Valley	-0.03607	-0.00299
TestAmerica	-0.00299	-0.01437

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=o-Tolualdehyde



Missing Rows 321

Oneway Anova

Summary of Fit

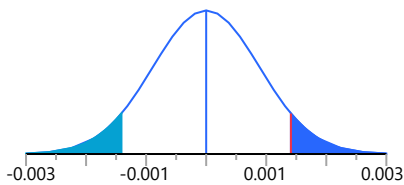
Rsquare 0.003049
 Adj Rsquare 0.001847
 Root Mean Square Error 0.00852
 Mean of Response 0.001231
 Observations (or Sum Wgts) 831

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference 0.00141 t Ratio 1.592384
 Std Err Dif 0.00089 DF 829
 Upper CL Dif 0.00315 Prob > |t| 0.1117
 Lower CL Dif -0.00033 Prob > t 0.0558
 Confidence 0.95 Prob < t 0.9442



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.00018408	0.000184	2.5357	0.1117
Error	829	0.06018306	0.000073		
C. Total	830	0.06036714			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	106	0.000000	0.00083	-0.0016	0.00162
TestAmerica	725	0.001411	0.00032	0.00079	0.00203

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
TestAmerica	ALS Simi Valley	20.62632	8.804134	2.342799	0.0191*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	106	42188.0	44096.0	398.000	-2.343
TestAmerica	725	303508	301600	418.632	2.343

2-Sample Test, Normal Approximation

S	Z	Prob> Z
42188	-2.34280	0.0191*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
5.4916	1	0.0191*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96283	0.05

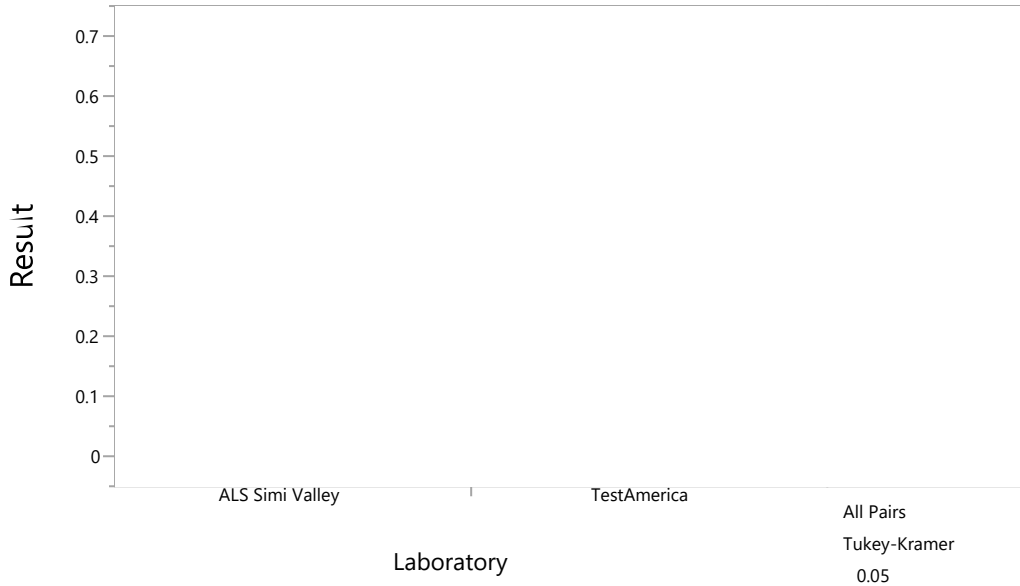
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	ALS Simi Valley
TestAmerica	-0.00088	-0.00033
ALS Simi Valley	-0.00033	-0.00230

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-11A, Analyte=Propionaldehyde



Missing Rows 318

Oneway Anova

Summary of Fit

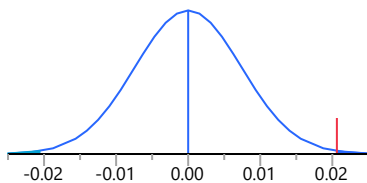
Rsquare	0.009326
Adj Rsquare	0.008136
Root Mean Square Error	0.071769
Mean of Response	0.023435
Observations (or Sum Wgts)	834

t Test

TestAmerica-ALS Simi Valley

Assuming equal variances

Difference	0.020634	t Ratio	2.798686
Std Err Dif	0.007373	DF	832
Upper CL Dif	0.035106	Prob > t	0.0052*
Lower CL Dif	0.006163	Prob > t	0.0026*
Confidence	0.95	Prob < t	0.9974



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.0403442	0.040344	7.8326	0.0052*
Error	832	4.2854434	0.005151		
C. Total	833	4.3257876			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Simi Valley	109	0.005497	0.00687	-0.0080	0.01899
TestAmerica	725	0.026132	0.00267	0.0209	0.03136

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
TestAmerica	ALS Simi Valley	109.7471	19.74988	5.556850	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Simi Valley	109	35108.0	45507.5	322.092	-5.557
TestAmerica	725	313087	302688	431.844	5.557

2-Sample Test, Normal Approximation

S	Z	Prob> Z
35108	-5.55685	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
30.8816	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96282	0.05

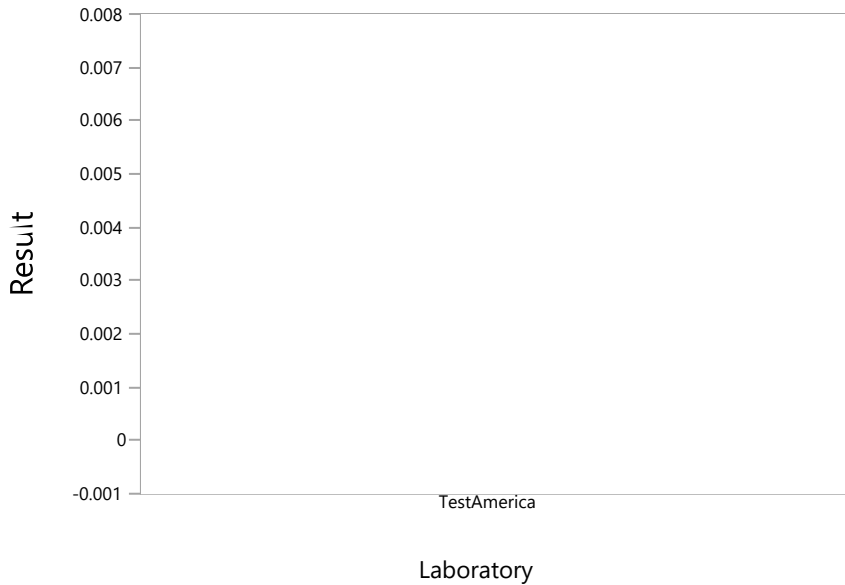
HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	ALS Simi Valley
TestAmerica	-0.00740	0.00616
ALS Simi Valley	0.00616	-0.01908

Positive values show pairs of means that are significantly different.

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-13A SIM, Analyte=Bis(2-Ethylhexyl)phthalate



Missing Rows 10

Oneway Anova

Summary of Fit

Rsquare	1.11e-16
Adj Rsquare	1.11e-16
Root Mean Square Error	0.000699
Mean of Response	0.000068
Observations (or Sum Wgts)	106

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	0	0.00000000	.	.	.
Error	105	0.00005135	4.8906e-7		
C. Total	105	0.00005135			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
TestAmerica	106	0.000068	6.79e-5	-0.0001	0.00020

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

q*	Alpha
1.95996	0.05

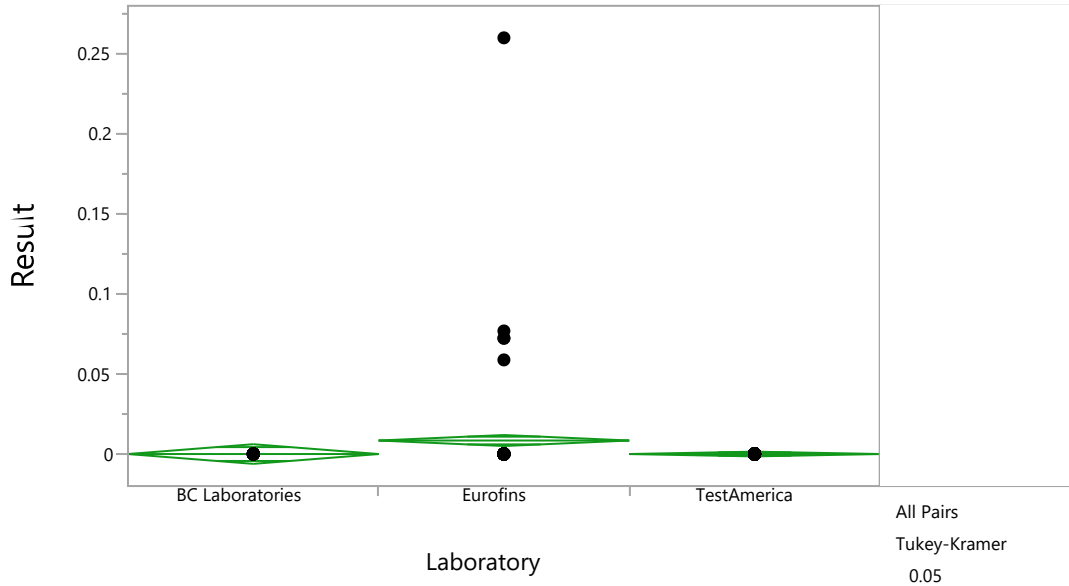
Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
TestAmerica	106	5671.00	5671.00	53.5000	.

1-way Test, ChiSquare Approximation

0.0000 0 .

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=1,3-Butadiene



Missing Rows 160

Oneway Anova Summary of Fit

Rsquare	0.044734
Adj Rsquare	0.040249
Root Mean Square Error	0.013947
Mean of Response	0.001259
Observations (or Sum Wgts)	429

Analysis of Variance

Laboratory	2	0.00388019	0.001940	9.9745	<.0001*
Error	426	0.08285907	0.000195		
C. Total	428	0.08673927			

Means for Oneway Anova

BC Laboratories	20	0.000000	0.00312	-0.0061	0.00613
Eurofins	64	0.008441	0.00174	0.0050	0.01187
TestAmerica	345	0.000000	0.00075	-0.0015	0.00148

Std Error uses a pooled estimate of error variance

Nonparametric Comparisons For Each Pair Using Wilcoxon Method

1.95996 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
Eurofins	BC Laboratories	3.2484	2.562432	1.26772	0.2049	0	0	0
TestAmerica	BC Laboratories	0.0000	0.000000	0.00000	1.0000	0	0	0
TestAmerica	Eurofins	-15.9673	3.062312	-5.21413	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4250.00	4300.00	212.500	-0.492
Eurofins	64	14672.5	13760.0	229.258	5.362
TestAmerica	345	73312.5	74175.0	212.500	-4.550

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
28.7834	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	BC Laboratories	TestAmeric a
Eurofins	-0.00580	0.00004	0.00398
BC Laboratories	0.00004	-0.01037	-0.00754
TestAmerica	0.00398	-0.00754	-0.00250

Positive values show pairs of means that are significantly different.

Connecting Letters Report

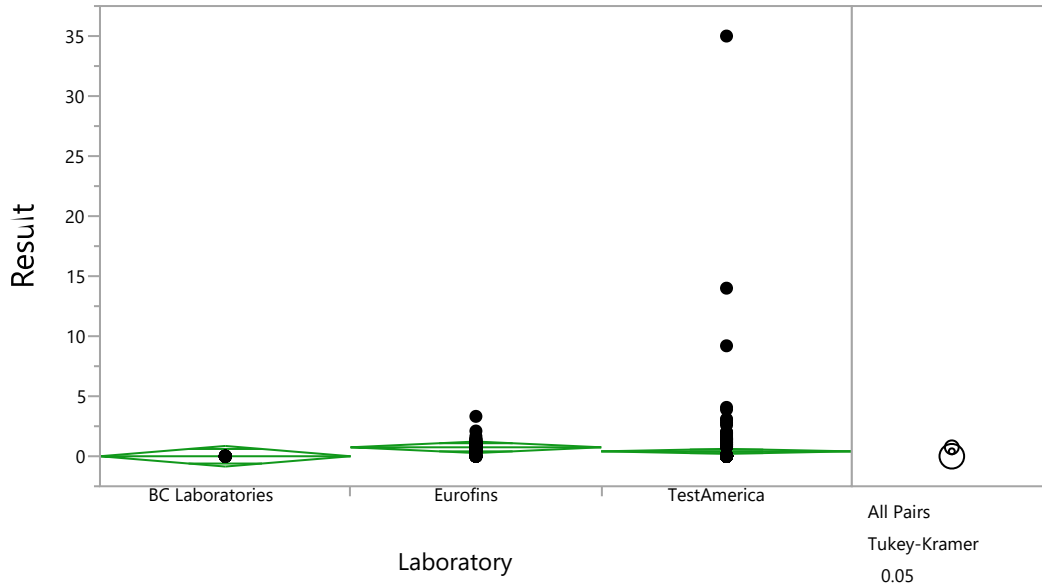
Level	Mean
Eurofins A	0.00844149
BC Laboratories B	0.00000000
TestAmerica B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0084415	0.0035727	0.000039	0.0168443	0.0487*
Eurofins	TestAmerica	0.0084415	0.0018981	0.003977	0.0129058	<.0001*
TestAmerica	BC Laboratories	0.0000000	0.0032077	-0.007544	0.0075442	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=2-Butanone



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.006269
Adj Rsquare	0.001603
Root Mean Square Error	1.951151
Mean of Response	0.439622
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	10.2307	5.11537	1.3437	0.2620
Error	426	1621.7782	3.80699		
C. Total	428	1632.0089			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.43629	-0.8576	0.8576
Eurofins	64	0.746434	0.24389	0.2670	1.2258
TestAmerica	345	0.408191	0.10505	0.2017	0.6147

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
Eurofins	BC Laboratories	33.436	6.05461	5.52239	<.0001*	0.847663	0.508598	0.949383
TestAmerica	BC Laboratories	30.655	15.44294	1.98503	0.0471*	0.000000	0.000000	0.000000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-111.716	12.51784	-8.92450	<.0001*	-0.644224	-0.847663	-0.474691

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	3210.00	4300.00	160.500	-2.631
Eurofins	64	20301.5	13760.0	317.211	9.348
TestAmerica	345	68723.5	74175.0	199.199	-6.994

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
90.5397	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.8112	-0.2863	-0.4291
TestAmerica	-0.2863	-0.3494	-0.6473
BC Laboratories	-0.4291	-0.6473	-1.4512

Positive values show pairs of means that are significantly different.

Connecting Letters Report

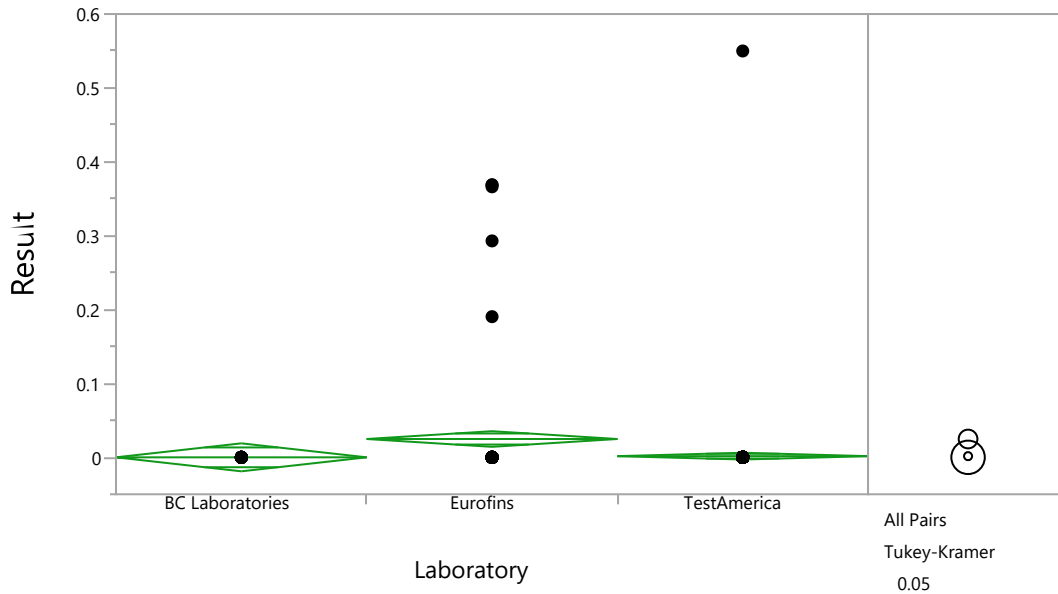
Level	Mean
Eurofins A	0.74643446
TestAmerica A	0.40819149
BC Laboratories A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.7464345	0.4998338	-0.429141	1.922010	0.2951
TestAmerica	BC Laboratories	0.4081915	0.4487586	-0.647259	1.463642	0.6345
Eurofins	TestAmerica	0.3382430	0.2655541	-0.286323	0.962809	0.4108

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=2-Hexanone



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.036083
Adj Rsquare	0.031558
Root Mean Square Error	0.043076
Mean of Response	0.004982
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.02958997	0.014795	7.9734	0.0004*
Error	426	0.79046055	0.001856		
C. Total	428	0.82005052			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00963	-0.0189	0.01893
Eurofins	64	0.024799	0.00538	0.0142	0.03538
TestAmerica	345	0.001594	0.00232	-0.0030	0.00615

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
Eurofins	BC Laboratories	3.2484	2.562432	1.26772	0.2049	0	0	0
TestAmerica	BC Laboratories	0.5025	2.197042	0.22873	0.8191	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-15.3282	3.350478	-4.57494	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4240.00	4300.00	212.000	-0.540
Eurofins	64	14638.0	13760.0	228.719	4.715
TestAmerica	345	73357.0	74175.0	212.629	-3.944

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
22.2705	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-0.01791	0.00942	-0.00115
TestAmerica	0.00942	-0.00771	-0.02171
BC Laboratories	-0.00115	-0.02171	-0.03204

Positive values show pairs of means that are significantly different.

Connecting Letters Report

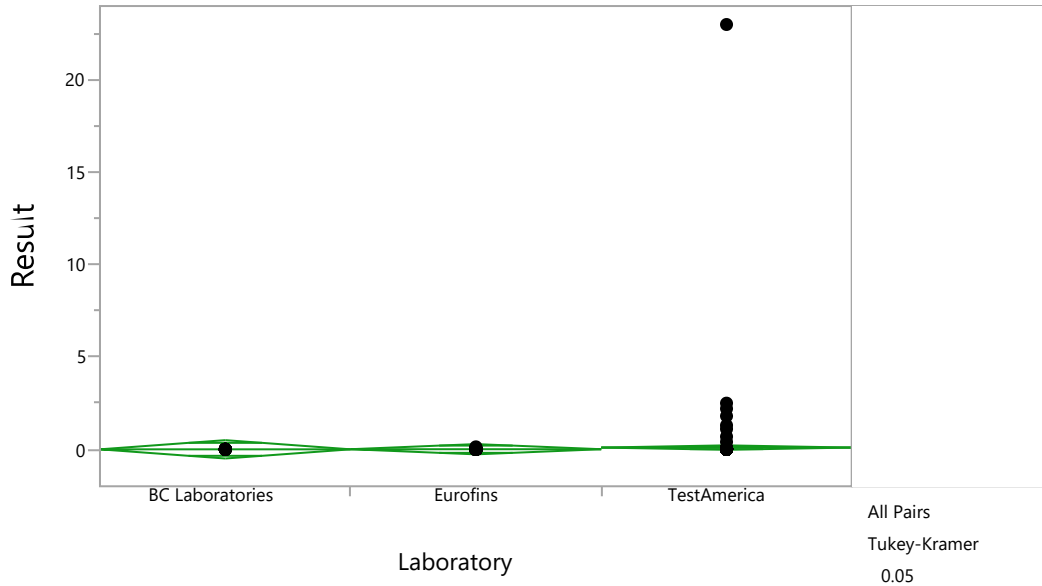
Level	Mean
Eurofins A	0.02479911
TestAmerica B	0.00159420
BC Laboratories A B	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	0.0247991	0.0110349	-0.001154	0.0507526	0.0646
Eurofins	TestAmerica	0.0232049	0.0058627	0.009416	0.0369936	0.0003*
TestAmerica	BC Laboratories	0.0015942	0.0099073	-0.021707	0.0248956	0.9858

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=4-Methyl-2-Pentanone



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.001031
Adj Rsquare	-0.00366
Root Mean Square Error	1.12978
Mean of Response	0.077782
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.56140	0.28070	0.2199	0.8027
Error	426	543.74715	1.27640		
C. Total	428	544.30854			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.25263	-0.4965	0.49655
Eurofins	64	0.005912	0.14122	-0.2717	0.28349
TestAmerica	345	0.095623	0.06083	-0.0239	0.21518

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
TestAmerica	BC Laboratories	4.20543	6.154627	0.68330	0.4944	0	0	0
Eurofins	BC Laboratories	2.59219	2.305821	1.12419	0.2609	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-7.73358	4.703413	-1.64425	0.1001	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	4180.00	4300.00	209.000	-0.773
Eurofins	64	14218.0	13760.0	222.156	1.751
TestAmerica	345	73837.0	74175.0	214.020	-1.159

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
3.4512	2	0.1781

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	Eurofins	BC Laboratories
TestAmerica	-0.20231	-0.27193	-0.51552
Eurofins	-0.27193	-0.46973	-0.67478
BC Laboratories	-0.51552	-0.67478	-0.84027

Positive values show pairs of means that are significantly different.

Connecting Letters Report

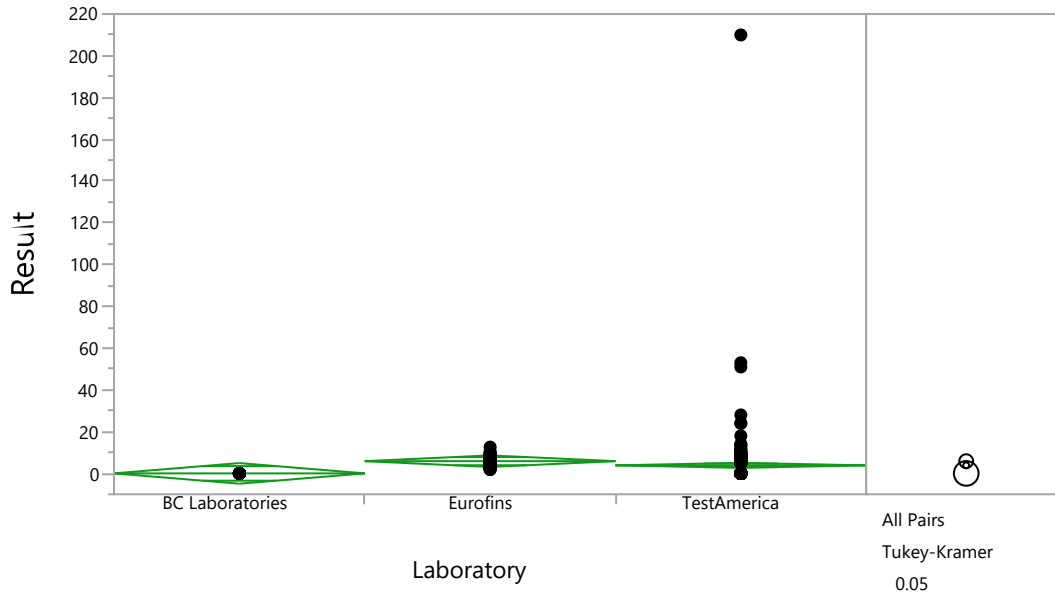
Level	Mean
TestAmerica A	0.09562319
Eurofins A	0.00591203
BC Laboratories A	0.00000000

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
TestAmerica	BC Laboratories	0.0956232	0.2598457	-0.515517	0.7067632	0.9281
TestAmerica	Eurofins	0.0897112	0.1537644	-0.271933	0.4513549	0.8291
Eurofins	BC Laboratories	0.0059120	0.2894199	-0.674784	0.6866084	0.9998

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=Acetone TO-15



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.010091
Adj Rsquare	0.005444
Root Mean Square Error	11.22956
Mean of Response	3.972629
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	547.636	273.818	2.1714	0.1153
Error	426	53719.895	126.103		
C. Total	428	54267.531			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.00000	2.5110	-4.936	4.9355
Eurofins	64	5.85637	1.4037	3.097	8.6154
TestAmerica	345	3.85348	0.6046	2.665	5.0418

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
TestAmerica	BC Laboratories	74.5605	21.27811	3.50409	0.0005*	0.00000	0.00000	5.20000
Eurofins	BC Laboratories	41.9672	6.20513	6.76330	<.0001*	5.47262	5.00000	6.73554

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-92.9790	15.05704	-6.17512	<.0001*	-3.90000	-4.70000	-2.41942

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	2250.00	4300.00	112.500	-4.088
Eurofins	64	19420.0	13760.0	303.438	6.680
TestAmerica	345	70565.0	74175.0	204.536	-3.825

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
56.7731	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-4.6689	-1.5917	-0.9095
TestAmerica	-1.5917	-2.0109	-2.2210
BC Laboratories	-0.9095	-2.2210	-8.3519

Positive values show pairs of means that are significantly different.

Connecting Letters Report

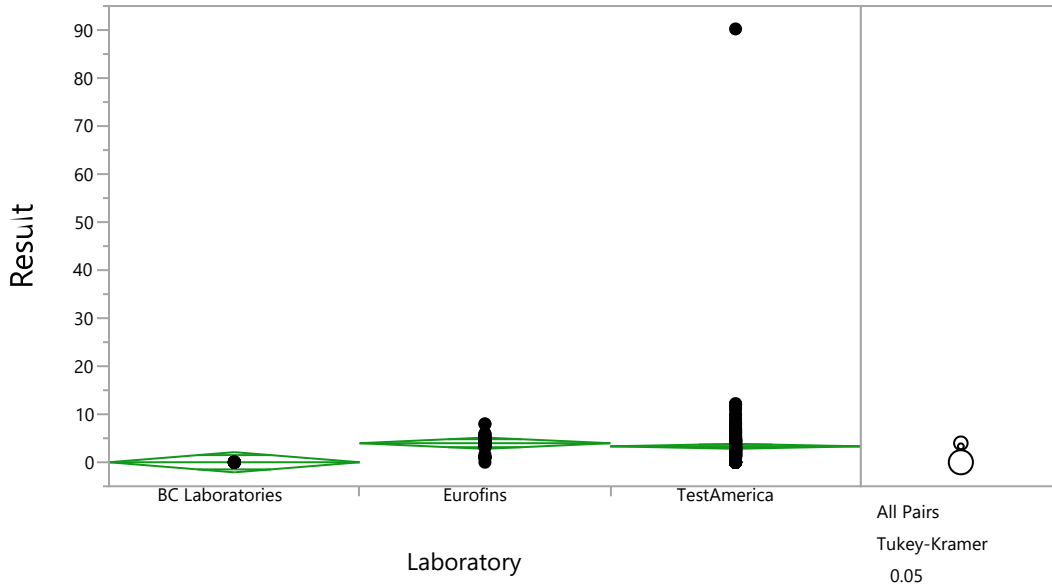
Level	Mean
Eurofins	A
TestAmerica	A
BC Laboratories	A

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	5.856370	2.876719	-0.90948	12.62222	0.1050
TestAmerica	BC Laboratories	3.853479	2.582764	-2.22101	9.92797	0.2958
Eurofins	TestAmerica	2.002891	1.528357	-1.59170	5.59749	0.3901

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=Ethanol



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare	0.024626
Adj Rsquare	0.020047
Root Mean Square Error	4.779163
Mean of Response	3.259133
Observations (or Sum Wgts)	429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	245.6615	122.831	5.3778	0.0049*
Error	426	9730.0101	22.840		
C. Total	428	9975.6715			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.00000	1.0687	-2.100	2.1005
Eurofins	64	3.96710	0.5974	2.793	5.1413
TestAmerica	345	3.31674	0.2573	2.811	3.8225

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
TestAmerica	BC Laboratories	152.850	24.15557	6.32775	<.0001*	2.60050	2.10000	3.60000
Eurofins	BC Laboratories	41.311	6.19793	6.66528	<.0001*	4.05996	3.87421	4.40000

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TestAmerica	Eurofins	-68.389	16.06601	-4.25675	<.0001*	-1.20000	-1.69657	-0.74350

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BC Laboratories	20	780.000	4300.00	39.000	-6.520
Eurofins	64	18082.5	13760.0	282.539	4.738
TestAmerica	345	73372.5	74175.0	212.674	-0.789

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
59.7652	2	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	Eurofins	TestAmeric	BC Laboratories
Eurofins	-1.9870	-0.8795	1.0876
TestAmerica	-0.8795	-0.8558	0.7315
BC Laboratories	1.0876	0.7315	-3.5545

Positive values show pairs of means that are significantly different.

Connecting Letters Report

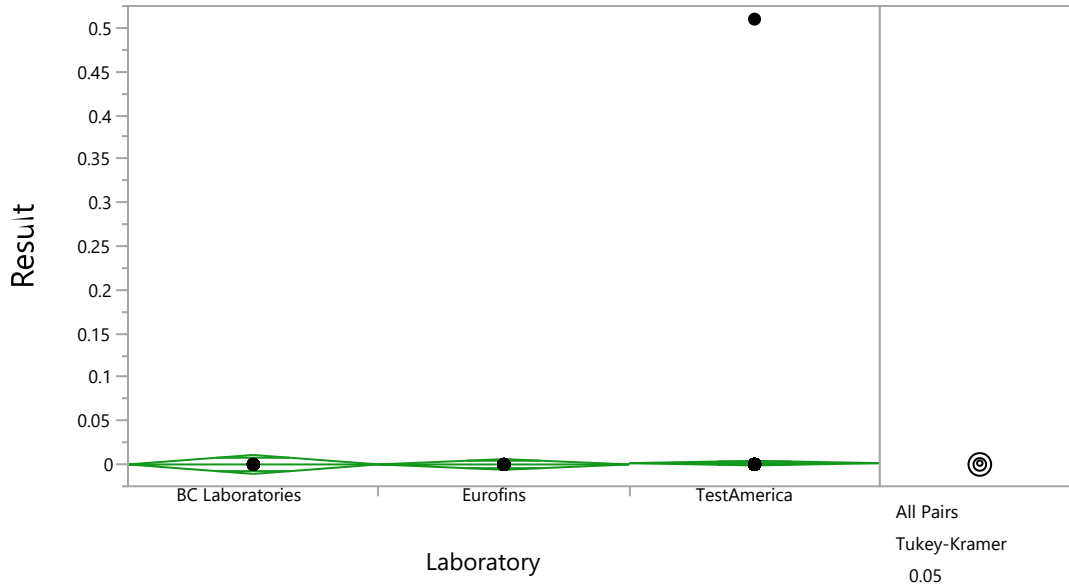
Level	Mean
Eurofins	A
TestAmerica	A
BC Laboratories	B

Levels not connected by same letter are significantly different.

Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
Eurofins	BC Laboratories	3.967099	1.224296	1.08763	6.846562	0.0037*
TestAmerica	BC Laboratories	3.316735	1.099192	0.73151	5.901963	0.0076*
Eurofins	TestAmerica	0.650363	0.650450	-0.87945	2.180179	0.5773

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=EPA TO-15, Analyte=Styrene



Missing Rows 160

Oneway Anova

Summary of Fit

Rsquare 0.000569
 Adj Rsquare -0.00412
 Root Mean Square Error 0.024674
 Mean of Response 0.001189
 Observations (or Sum Wgts) 429

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	2	0.00014762	0.000074	0.1212	0.8859
Error	426	0.25934609	0.000609		
C. Total	428	0.25949371			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BC Laboratories	20	0.000000	0.00552	-0.0108	0.01084
Eurofins	64	0.000000	0.00308	-0.0061	0.00606
TestAmerica	345	0.001478	0.00133	-0.0011	0.00409

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
TestAmerica	Eurofins	0.5834918	1.376239	0.4239757	0.6716	0	0	0
TestAmerica	BC Laboratories	0.5025362	2.197042	0.2287331	0.8191	0	0	0

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
Eurofins	BC Laboratories	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
BC Laboratories	20	4290.00	4300.00	214.500	-0.210
Eurofins	64	13728.0	13760.0	214.500	-0.412
TestAmerica	345	74217.0	74175.0	215.122	0.488

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
0.2435	2	0.8854

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
2.35193	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	TestAmeric a	BC Laboratories	Eurofins
TestAmerica	-0.00442	-0.01187	-0.00642
BC Laboratories	-0.01187	-0.01835	-0.01487
Eurofins	-0.00642	-0.01487	-0.01026

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level	Mean
TestAmerica A	0.00147826
BC Laboratories A	0.00000000
Eurofins 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
TestAmerica	BC Laboratories	0.0014783	0.0056749	-0.011869	0.0148252	0.9633
TestAmerica	Eurofins	0.0014783	0.0033581	-0.006420	0.0093764	0.8987
Eurofins	BC Laboratories	0.0000000	0.0063208	-0.014866	0.0148660	1.0000

Oneway Analysis of Result By Laboratory Chemical Category=Hydrocarbon-oxygenate, Method Name=NIOSH 5523, Analyte=Tetraethylene Glycol



Missing Rows 158

Oneway Anova

Summary of Fit

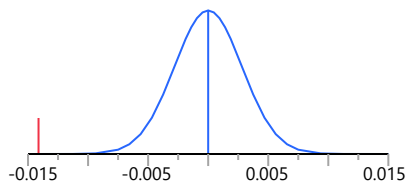
Rsquare 0.055082
 Adj Rsquare 0.05288
 Root Mean Square Error 0.020851
 Mean of Response 0.002097
 Observations (or Sum Wgts) 431

t Test

TestAmerica-ALS Salt Lake City

Assuming equal variances

Difference -0.01413 t Ratio -5.00078
 Std Err Dif 0.00282 DF 429
 Upper CL Dif -0.00857 Prob > |t| <.0001*
 Lower CL Dif -0.01968 Prob > t 1.0000
 Confidence 0.95 Prob < t <.0001*



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Laboratory	1	0.01087291	0.010873	25.0078	<.0001*
Error	429	0.18652100	0.000435		
C. Total	430	0.19739391			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
ALS Salt Lake City	64	0.014125	0.00261	0.0090	0.01925
TestAmerica	367	0.000000	0.00109	-0.0021	0.00214

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
TestAmerica	ALS Salt Lake City	-20.1940	3.424314	-5.89723	<.0001*	0	0	0

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
ALS Salt Lake City	64	14925.0	13824.0	233.203	5.897
TestAmerica	367	78171.0	79272.0	213.000	-5.897

2-Sample Test, Normal Approximation

S	Z	Prob> Z
14925	5.89723	<.0001*

1-way Test, ChiSquare Approximation

ChiSquare	DF	Prob>ChiSq
34.8089	1	<.0001*

Means Comparisons

Comparisons for all pairs using Tukey-Kramer HSD

Confidence Quantile

q*	Alpha
1.96551	0.05

HSD Threshold Matrix

Abs(Dif)-HSD

	ALS Salt Lake City	TestAmeric a
ALS Salt Lake City	-0.00724	0.00857
TestAmerica	0.00857	-0.00303

Positive values show pairs of means that are significantly different.