Oneway

Notes

Output Created		28-FEB-2022 22:10:30
Comments		
Input	Data	/Users/benjamin/Desktop/AP Research/21-22-PAS-AP-Research/Experiment 2/E2-Raw/E2-SA.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	25
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Difference BY pH /ES=OVERALL /STATISTICS HOMOGENEITY /MISSING ANALYSIS /CRITERIA=CILEVEL (0.95) /POSTHOC=TUKEY ALPHA(0.05).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.00

[DataSet1]

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Difference	Based on Mean	2.514	4	20	.074
	Based on Median	.817	4	20	.529
	Based on Median and with adjusted df	.817	4	13.601	.536
	Based on trimmed mean	2.283	4	20	.096

ANOVA

Difference

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	4	.001	3078.446	<.001
Within Groups	.000	20	.000		
Total	.003	24			

ANOVA Effect Sizes[a]

		Point Estimate	95% Confidence Interval Lower	Upper
Difference	Eta-squared	.998	.996	.999
	Epsilon-squared	.998	.995	.999
	Omega-squared Fixed-effect	.998	.995	.999
	Omega-squared Random-effect	.992	.979	.994

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Difference

Tukey HSD

(I) pH	(J) pH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
1	4	-.0161000*	.0003267	<.001	-.017078	-.015122
	7	-.0211000*	.0003267	<.001	-.022078	-.020122
	10	-.0283000*	.0003267	<.001	-.029278	-.027322
	13	-.0331200*	.0003267	<.001	-.034098	-.032142
4	1	.0161000*	.0003267	<.001	.015122	.017078
	7	-.0050000*	.0003267	<.001	-.005978	-.004022
	10	-.0122000*	.0003267	<.001	-.013178	-.011222
	13	-.0170200*	.0003267	<.001	-.017998	-.016042
7	1	.0211000*	.0003267	<.001	.020122	.022078
	4	.0050000*	.0003267	<.001	.004022	.005978
	10	-.0072000*	.0003267	<.001	-.008178	-.006222
	13	-.0120200*	.0003267	<.001	-.012998	-.011042
10	1	.0283000*	.0003267	<.001	.027322	.029278
	4	.0122000*	.0003267	<.001	.011222	.013178

Multiple Comparisons

Dependent Variable: Difference

Tukey HSD

(I) pH	(J) pH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
	7	.0072000*	.0003267	<.001	.006222	.008178
	13	-.0048200*	.0003267	<.001	-.005798	-.003842
13	1	.0331200*	.0003267	<.001	.032142	.034098
	4	.0170200*	.0003267	<.001	.016042	.017998
	7	.0120200*	.0003267	<.001	.011042	.012998
	10	.0048200*	.0003267	<.001	.003842	.005798

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Difference

Tukey HSD[a]

pH	N	Subset for alpha = 0.05				
		1	2	3	4	5
1	5	-.036040				
4	5		-.019940			
7	5			-.014940		
10	5				-.007740	
13	5					-.002920
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.