NPar Tests

Notes

Output Created		21-OCT-2024 15:23:20
Comments		
Input	Data	/Users/krisha/Desktop/BCM/Analysis/HOI_implementation/HOI_LLK_Code/SPSS_Mann_Whitney/First Round Data SPSS 24H.sav
	Active Dataset	DataSet1
	Filter	(frequency_band = "Alpha" OR frequency_band = "Beta" OR frequency_band = "Gamma" OR frequency_band = "Theta") AND (measure = "S" OR measure = "O") (FILTER)
	Weight	<none>
	Split File	Frequency Band, Measure
	N of Rows in Working Data File	240
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= value BY Group (1 0) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.00
	Number of Cases Allowed[a]	449389

a. Based on availability of workspace memory.

[DataSet1] /Users/krisha/Desktop/BCM/Analysis/HOI_implementation/HOI_LLK_Code/SPSS_Mann_Whitney/First Round Data SPSS 24H.sav

Frequency Band = Alpha Band, Measure = O-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	9.08	109.00
	Ketamine	18	19.78	356.00
	Total	30		

a. Frequency Band = Alpha Band, Measure = O-info

Test Statistics[a,b]

	Value
Mann-Whitney U	31.000
Wilcoxon W	109.000
Z	-3.263
Asymp. Sig. (2-tailed)	.001
Exact Sig. [2*(1-tailed Sig.)]	<.001[c]

a. Frequency Band = Alpha Band, Measure = O-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Alpha Band, Measure = S-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	12.00	144.00
	Ketamine	18	17.83	321.00
	Total	30		

a. Frequency Band = Alpha Band, Measure = S-info

Test Statistics[a,b]

	Value
Mann-Whitney U	66.000
Wilcoxon W	144.000
Z	-1.780
Asymp. Sig. (2-tailed)	.075
Exact Sig. [2*(1-tailed Sig.)]	.079[c]

a. Frequency Band = Alpha Band, Measure = S-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Beta Band, Measure = O-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	12.75	153.00
	Ketamine	18	17.33	312.00
	Total	30		

a. Frequency Band = Beta Band, Measure = O-info

Test Statistics[a,b]

	Value
Mann-Whitney U	75.000
Wilcoxon W	153.000
Z	-1.399
Asymp. Sig. (2-tailed)	.162
Exact Sig. [2*(1-tailed Sig.)]	.172[c]

a. Frequency Band = Beta Band, Measure = O-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Beta Band, Measure = S-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	12.92	155.00
	Ketamine	18	17.22	310.00
	Total	30		

a. Frequency Band = Beta Band, Measure = S-info

Test Statistics[a,b]

	Value
Mann-Whitney U	77.000
Wilcoxon W	155.000
Z	-1.314
Asymp. Sig. (2-tailed)	.189
Exact Sig. [2*(1-tailed Sig.)]	.200[c]

a. Frequency Band = Beta Band, Measure = S-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Gamma Band, Measure = O-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	12.50	150.00
	Ketamine	18	17.50	315.00
	Total	30		

a. Frequency Band = Gamma Band, Measure = O-info

Test Statistics[a,b]

	Value
Mann-Whitney U	72.000
Wilcoxon W	150.000
Z	-1.526
Asymp. Sig. (2-tailed)	.127
Exact Sig. [2*(1-tailed Sig.)]	.134[c]

a. Frequency Band = Gamma Band, Measure = O-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Gamma Band, Measure = S-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	13.75	165.00
	Ketamine	18	16.67	300.00
	Total	30		

a. Frequency Band = Gamma Band, Measure = S-info

Test Statistics[a,b]

	Value
Mann-Whitney U	87.000
Wilcoxon W	165.000
Z	-.890
Asymp. Sig. (2-tailed)	.373
Exact Sig. [2*(1-tailed Sig.)]	.391[c]

a. Frequency Band = Gamma Band, Measure = S-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Theta Band, Measure = O-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	10.08	121.00
	Ketamine	18	19.11	344.00
	Total	30		

a. Frequency Band = Theta Band, Measure = O-info

Test Statistics[a,b]

	Value
Mann-Whitney U	43.000
Wilcoxon W	121.000
Z	-2.755
Asymp. Sig. (2-tailed)	.006
Exact Sig. [2*(1-tailed Sig.)]	.005[c]

a. Frequency Band = Theta Band, Measure = O-info

b. Grouping Variable: Group

c. Not corrected for ties.

Frequency Band = Theta Band, Measure = S-info

Mann-Whitney Test

Ranks[a]

	Group	N	Mean Rank	Sum of Ranks
Value	Midazolam	12	12.67	152.00
	Ketamine	18	17.39	313.00
	Total	30		

a. Frequency Band = Theta Band, Measure = S-info

Test Statistics[a,b]

	Value
Mann-Whitney U	74.000
Wilcoxon W	152.000
Z	-1.441
Asymp. Sig. (2-tailed)	.150
Exact Sig. [2*(1-tailed Sig.)]	.158[c]

a. Frequency Band = Theta Band, Measure = S-info

b. Grouping Variable: Group

c. Not corrected for ties.

Explore

Notes

Output Created		21-OCT-2024 15:23:45
Comments		
Input	Data	/Users/krisha/Desktop/BCM/Analysis/HOI_implementation/HOI_LLK_Code/SPSS_Mann_Whitney/First Round Data SPSS 24H.sav
	Active Dataset	DataSet1
	Filter	(frequency_band = "Alpha" OR frequency_band = "Beta" OR frequency_band = "Gamma" OR frequency_band = "Theta") AND (measure = "S" OR measure = "O") (FILTER)
	Weight	<none>
	Split File	Frequency Band, Measure
	N of Rows in Working Data File	240
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.

Notes

Syntax		EXAMINE VARIABLES=value BY Group /PLOT=BOXPLOT /STATISTICS=NONE /NOTOTAL /ID=subject_id.
Resources	Processor Time	00:00:02.54
	Elapsed Time	00:00:01.00

Frequency Band = Alpha Band, Measure = O-info

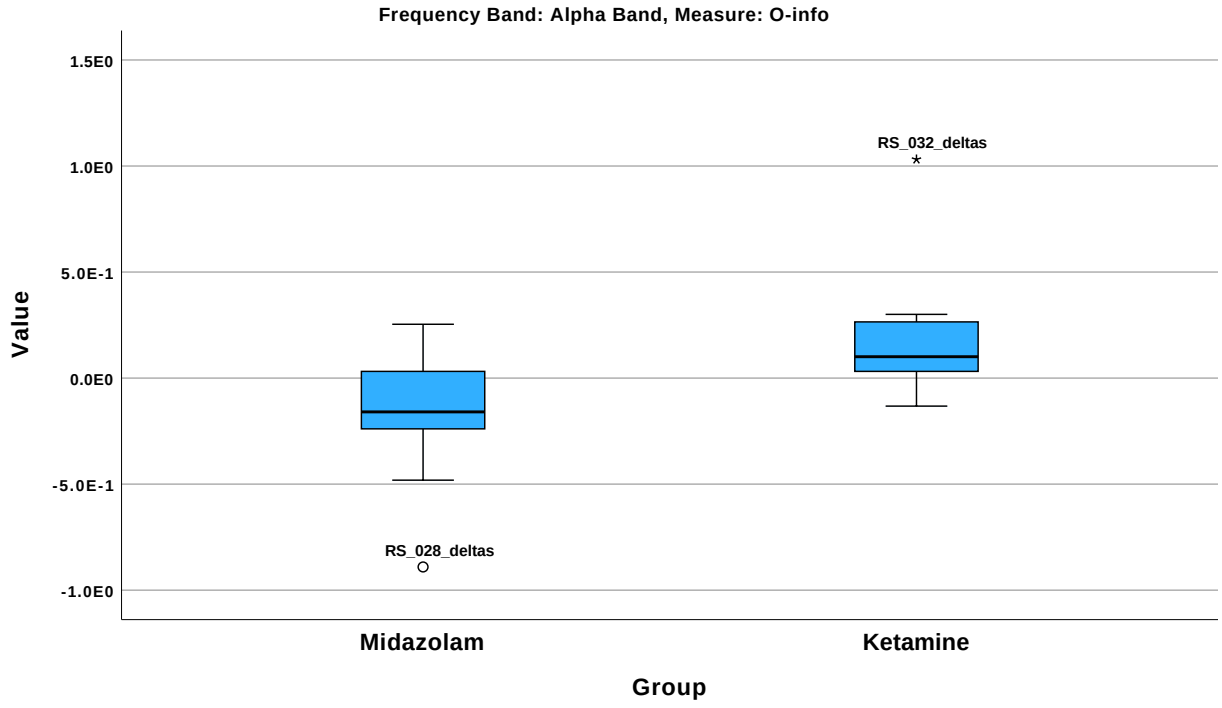
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Alpha Band, Measure = O-info

Value



Frequency Band = Alpha Band, Measure = S-info

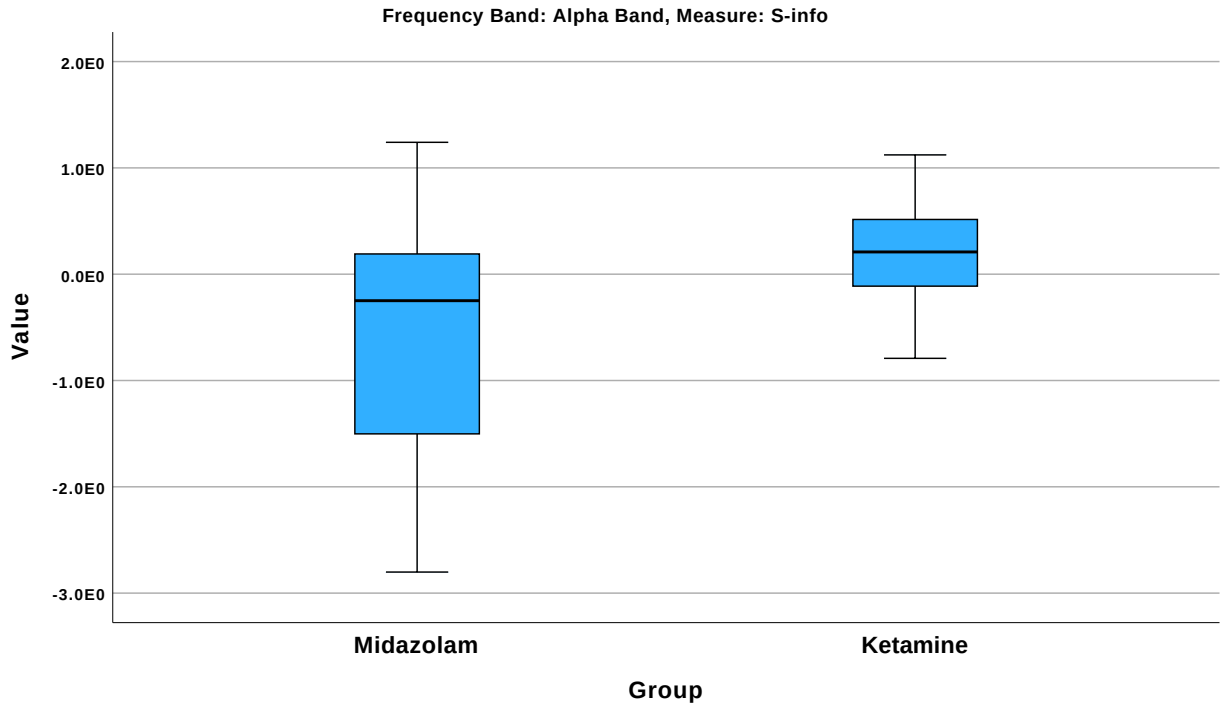
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Alpha Band, Measure = S-info

Value



Frequency Band = Beta Band, Measure = O-info

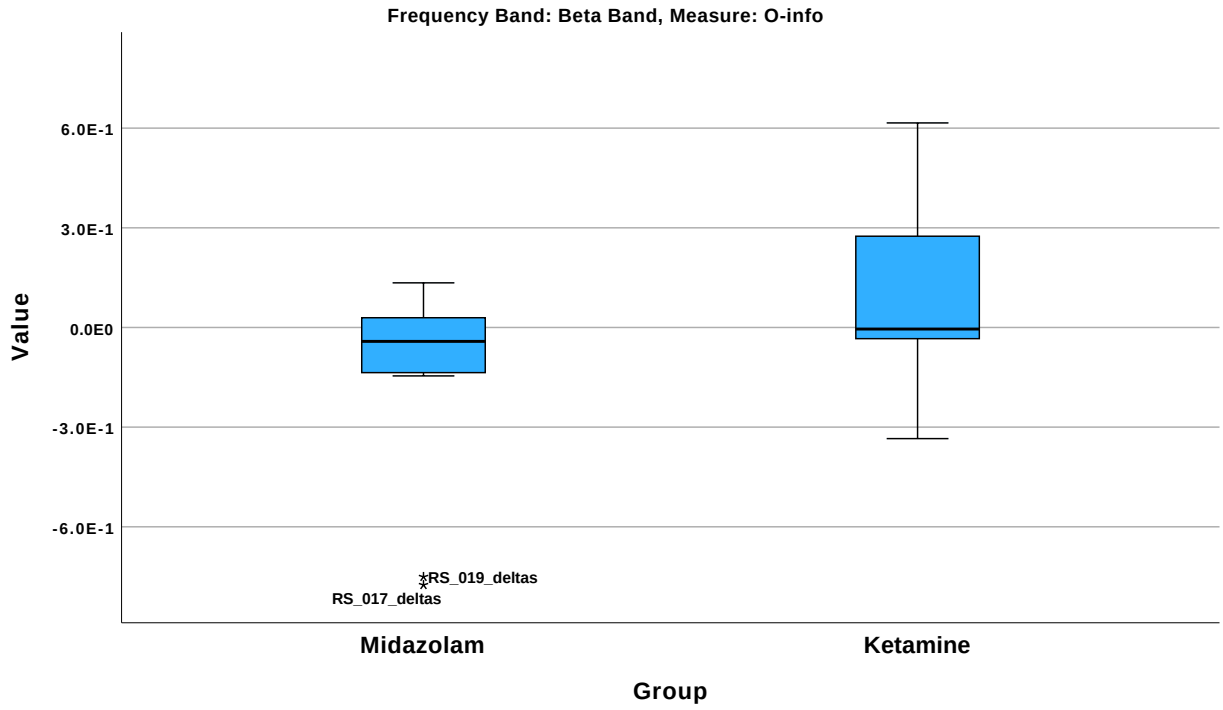
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Beta Band, Measure = O-info

Value



Frequency Band = Beta Band, Measure = S-info

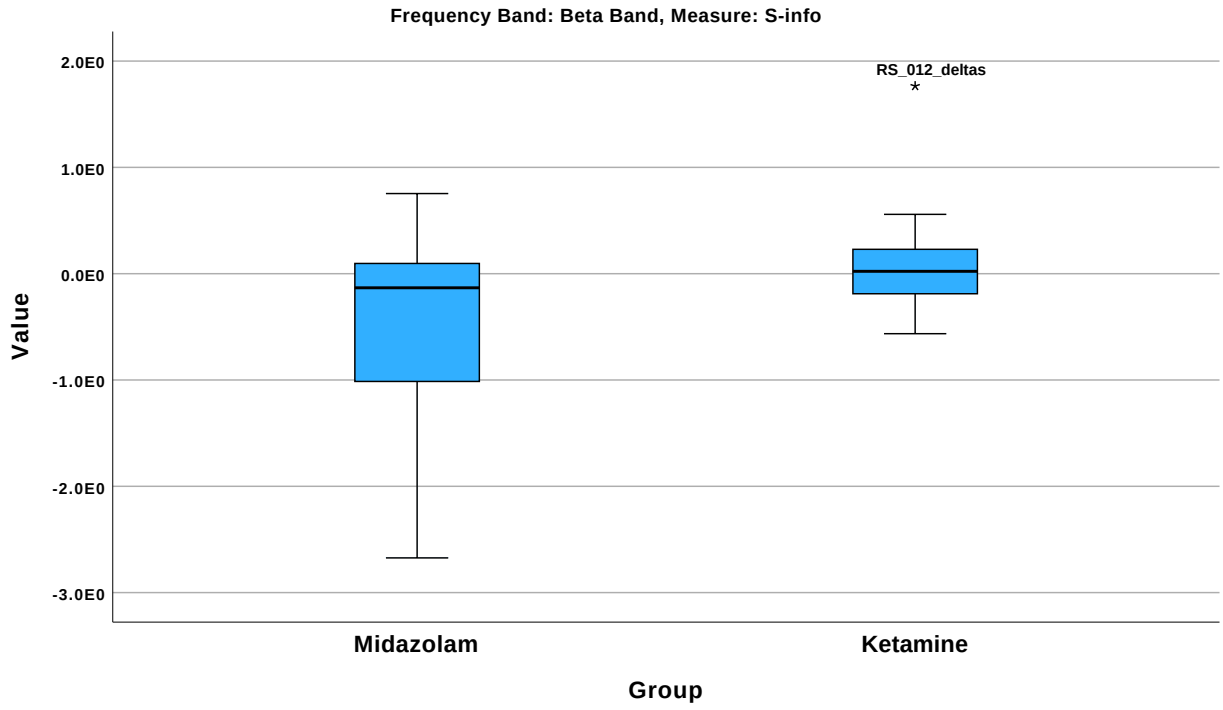
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Beta Band, Measure = S-info

Value



Frequency Band = Gamma Band, Measure = O-info

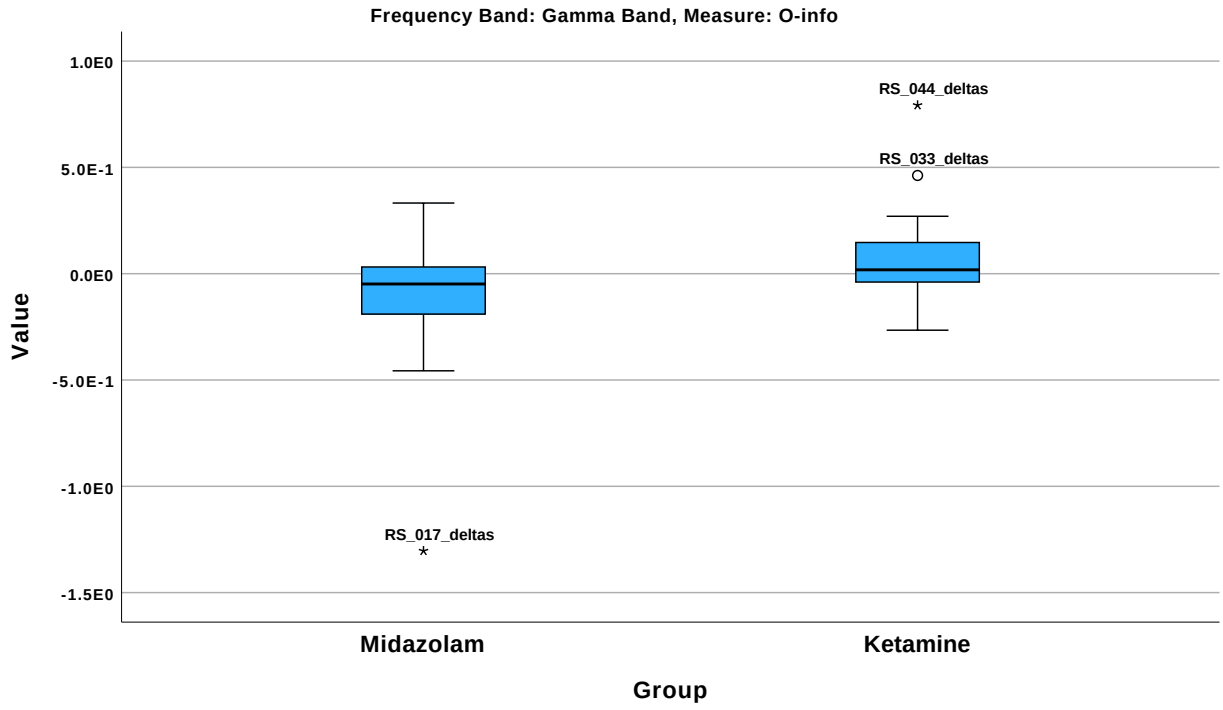
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Gamma Band, Measure = O-info

Value



Frequency Band = Gamma Band, Measure = S-info

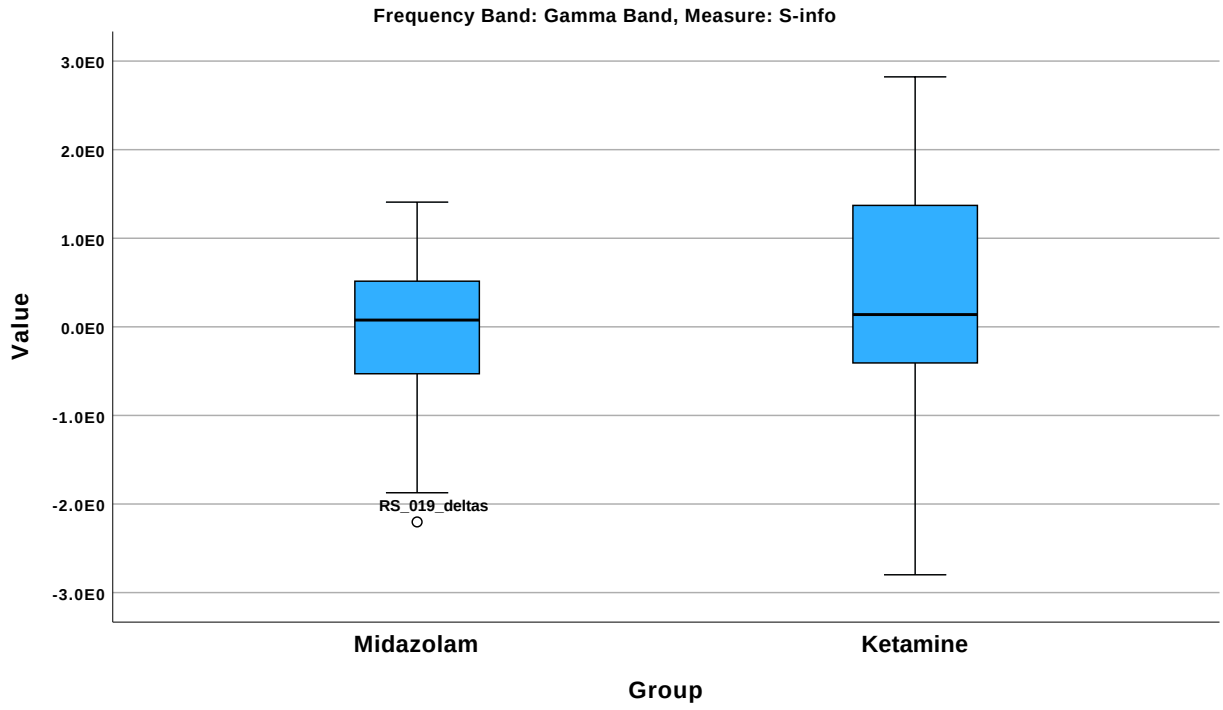
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Gamma Band, Measure = S-info

Value



Frequency Band = Theta Band, Measure = O-info

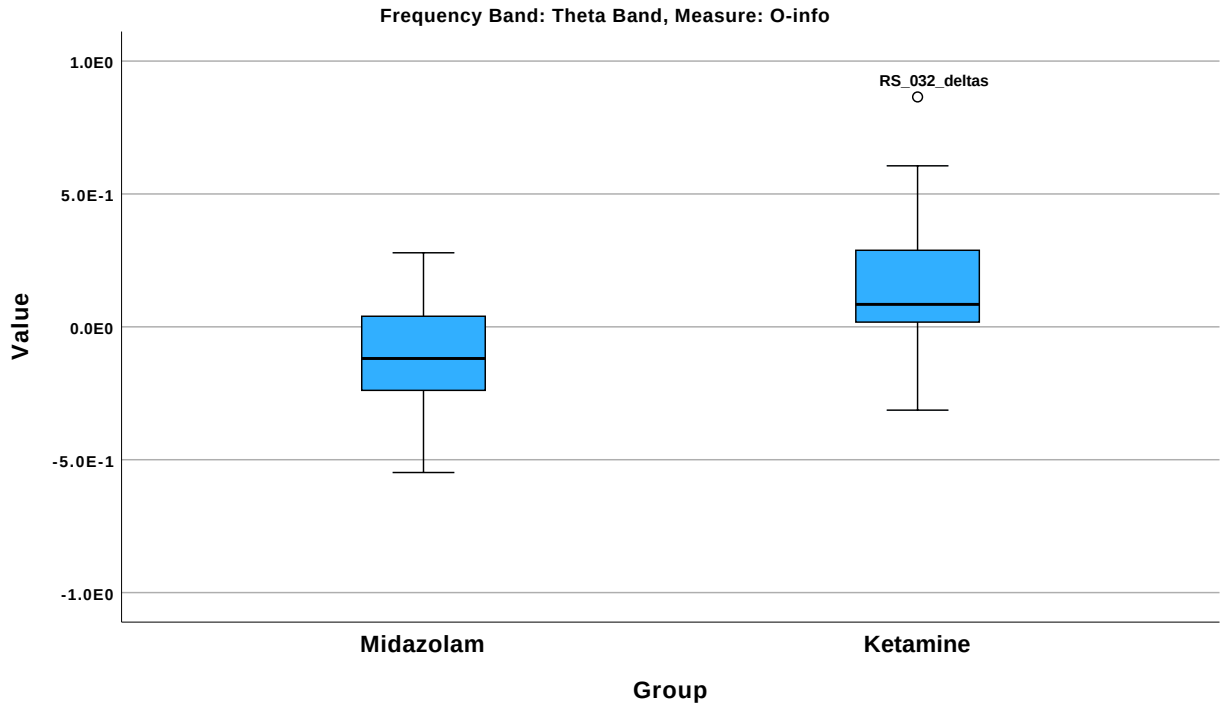
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Theta Band, Measure = O-info

Value



Frequency Band = Theta Band, Measure = S-info

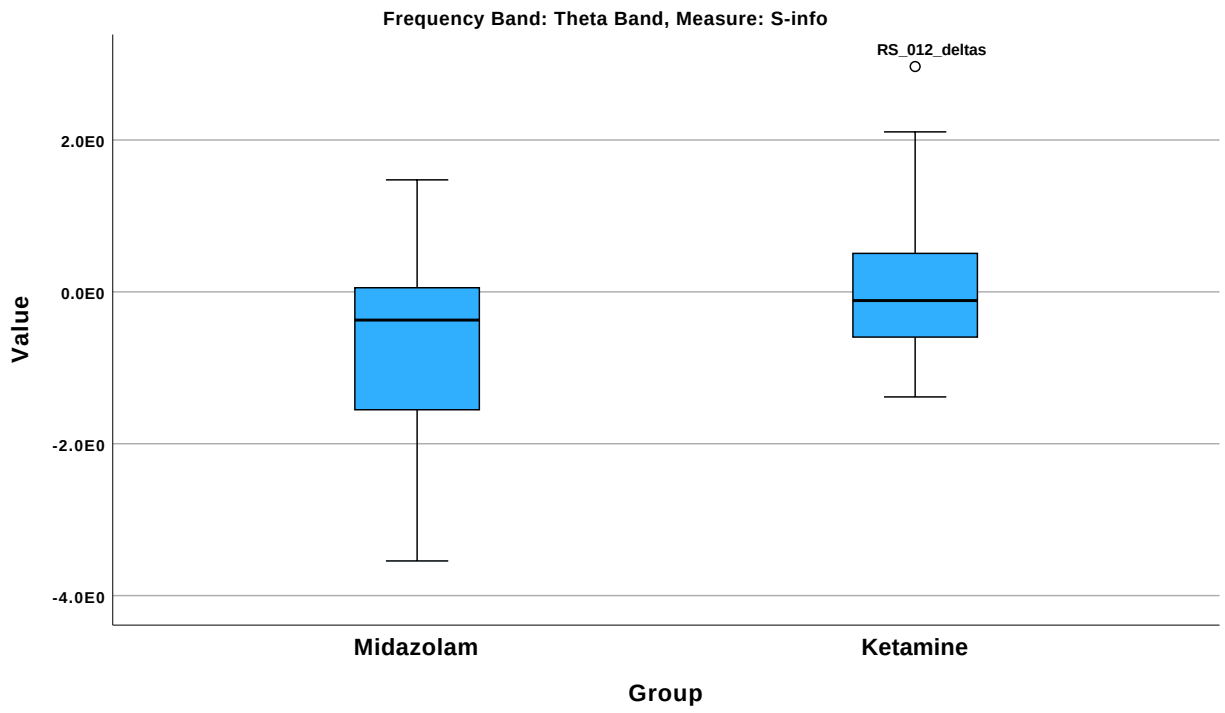
Group

Case Processing Summary[a]

		Cases					
		Valid		Missing		Total	
	Group	N	Percent	N	Percent	N	Percent
Value	Midazolam	12	100.0%	0	0.0%	12	100.0%
	Ketamine	18	100.0%	0	0.0%	18	100.0%

a. Frequency Band = Theta Band, Measure = S-info

Value



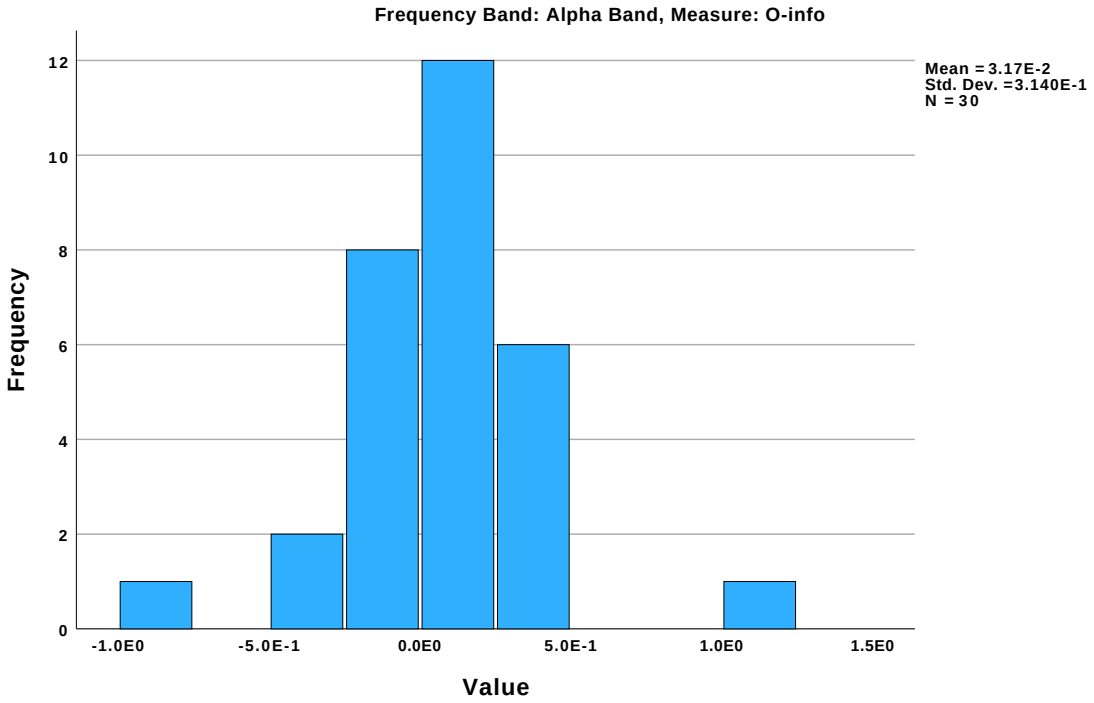
Graph

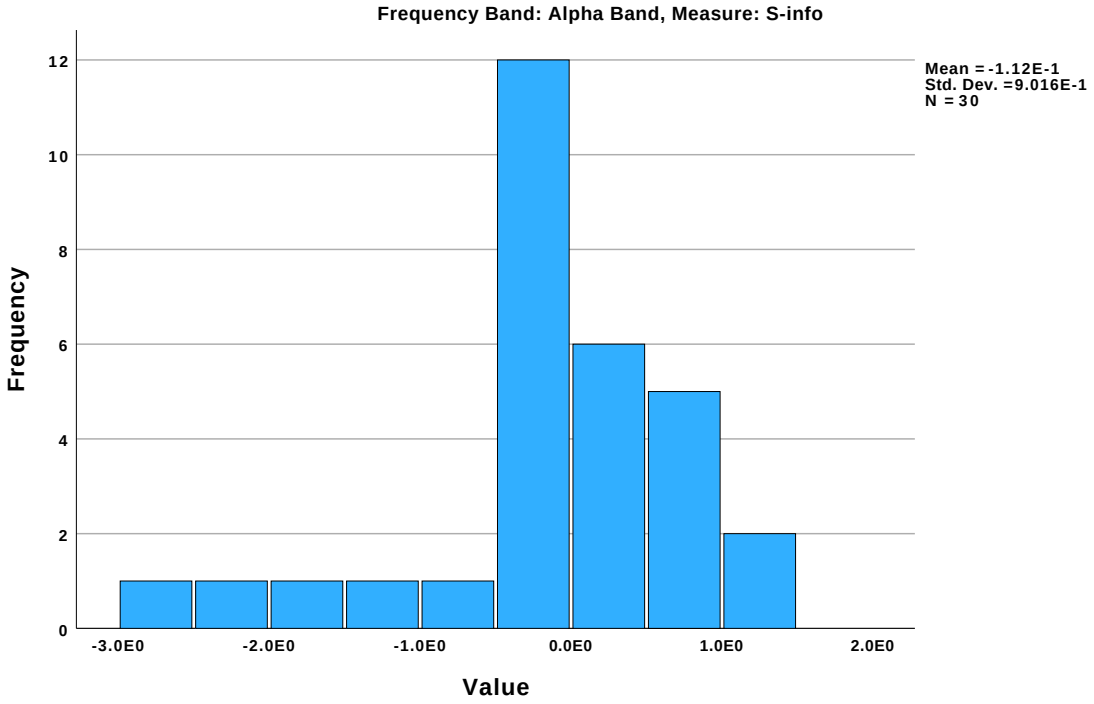
Notes

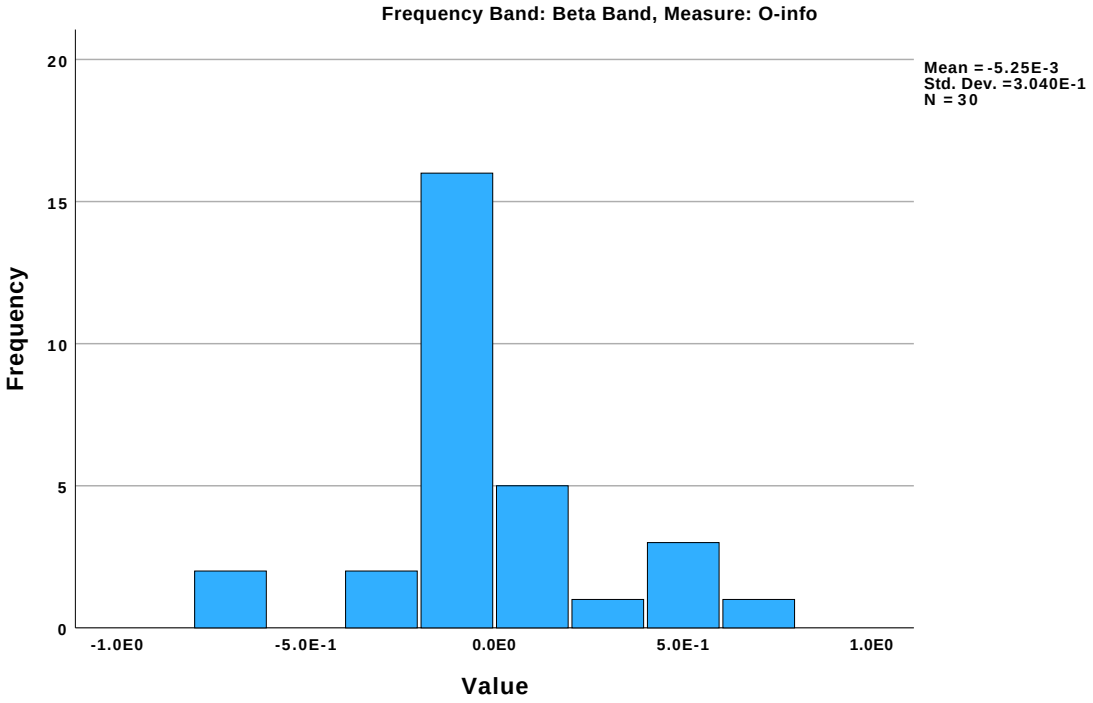
Output Created		21-OCT-2024 15:23:54
Comments		
Input	Data	/Users/krisha/Desktop/BCM/Analysis/HOI_implementation/HOI_LLK_Code/SPSS_Mann_Whitney/First Round Data SPSS 24H.sav
	Active Dataset	DataSet1
	Filter	(frequency_band = "Alpha" OR frequency_band = "Beta" OR frequency_band = "Gamma" OR frequency_band = "Theta") AND (measure = "S" OR measure = "O") (FILTER)
	Weight	<none>
	Split File	Frequency Band, Measure
	N of Rows in Working Data File	240
Syntax		GRAPH /HISTOGRAM=value.

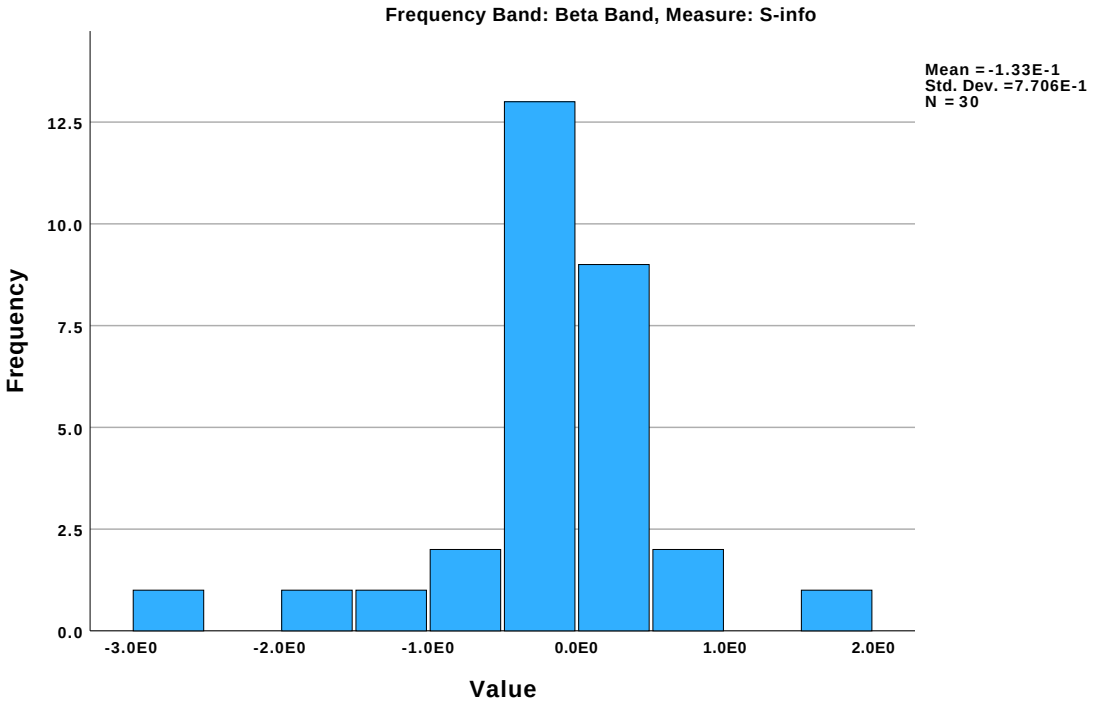
Notes

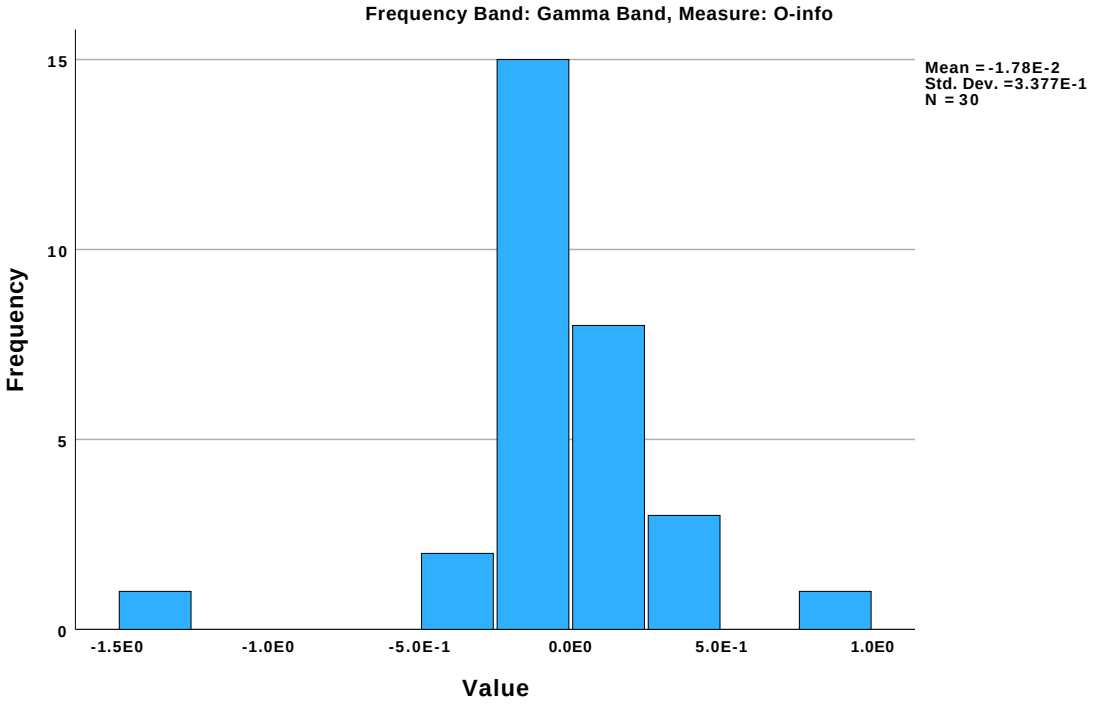
Resources	Processor Time	00:00:00.68
	Elapsed Time	00:00:01.00

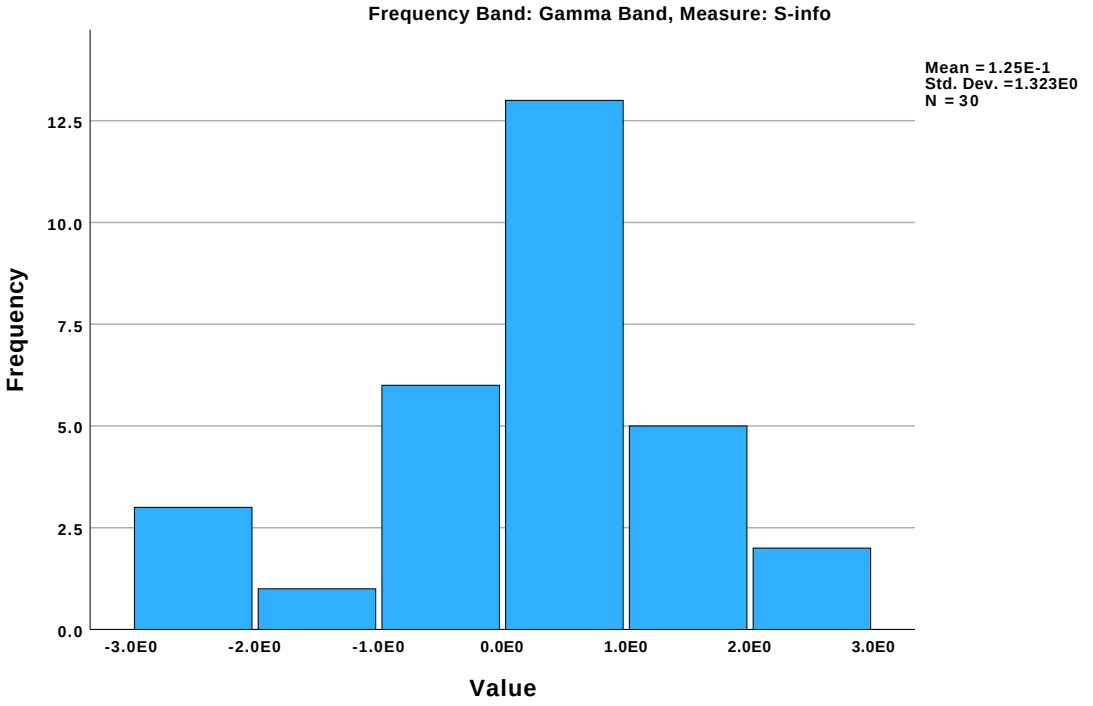


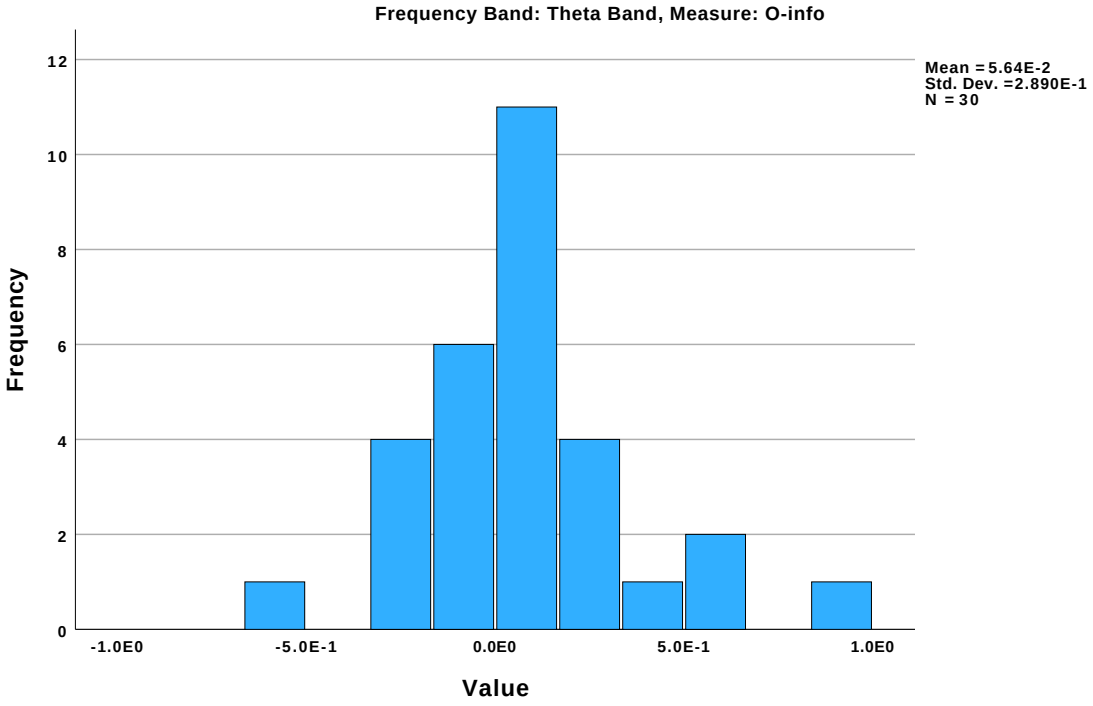


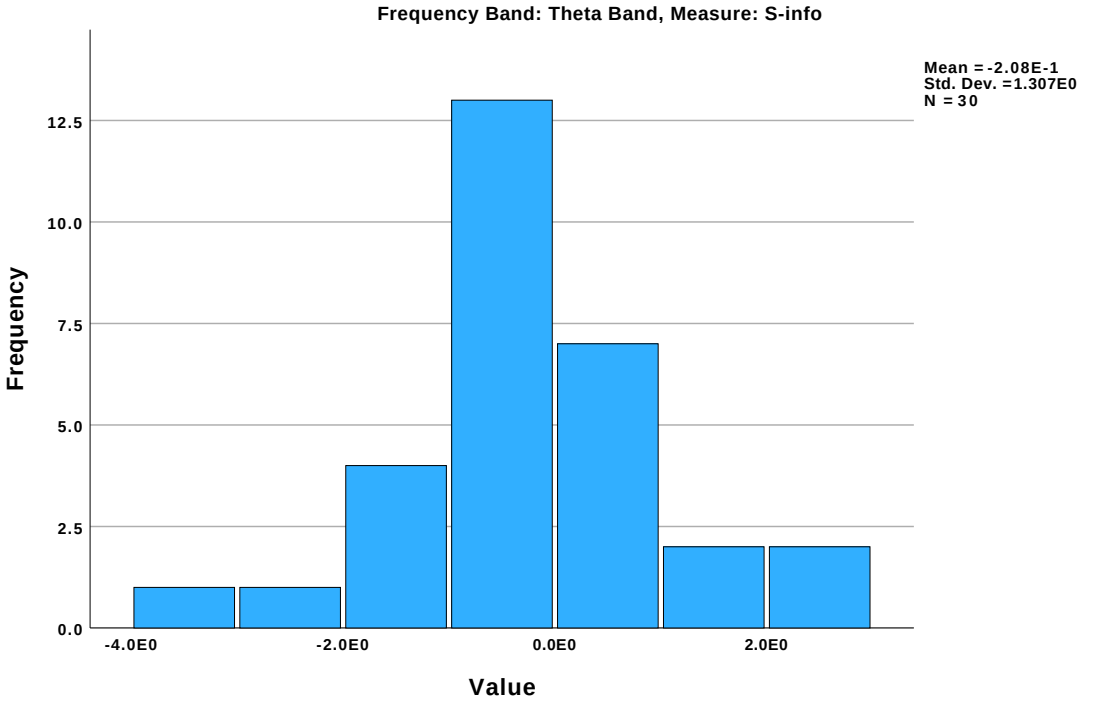

Frequency Band: Beta Band, Measure: O-info
Mean = -5.25E-3
Std. Dev. =3.040E-1
N = 30
Frequency
20
15
10
5
0
-1.0E0
-5.0E-1
0.0E0
5.0E-1
1.0E0
Value


Frequency Band: Beta Band, Measure: S-info
Mean = -1.33E-1
Std. Dev. =7.706E-1
N = 30
Frequency
12.5
10.0
7.5
5.0
2.5
0.0
-3.0E0
-2.0E0
-1.0E0
0.0E0
1.0E0
2.0E0
Value


Frequency Band: Gamma Band, Measure: O-info
Mean = -1.78E-2
Std. Dev. =3.377E-1
N = 30
Frequency
15
10
5
0
-1.5E0
-1.0E0
-5.0E-1
0.0E0
5.0E-1
1.0E0
Value


Frequency Band: Gamma Band, Measure: S-info
Mean = 1.25E-1
Std. Dev. =1.323E0
N = 30
Frequency
12.5
10.0
7.5
5.0
2.5
0.0
-3.0E0
-2.0E0
-1.0E0
0.0E0
1.0E0
2.0E0
3.0E0
Value


Frequency Band: Theta Band, Measure: O-info
Mean = 5.64E-2
Std. Dev. =2.890E-1
N = 30
Frequency
12
10
8
6
4
2
0
-1.0E0
-5.0E-1
0.0E0
5.0E-1
1.0E0
Value


Frequency Band: Theta Band, Measure: S-info
Mean = -2.08E-1
Std. Dev. =1.307E0
N = 30
Frequency
12.5
10.0
7.5
5.0
2.5
0.0
-4.0E0
-2.0E0
0.0E0
2.0E0
Value