

## Reliability - AVERAGEACCURACY AND RESPONSE TIME

### Case Processing Summary

		N	%
Cases	Valid	94	83,2
	Excluded <sup>a</sup>	19	16,8
	Total	113	100,0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,839	,711	20

### Summary Item Statistics

	Mean	Minimum	Maximum	Range	Maximum / Minimum
Item Means	2469,429	,631	8276,137	8275,506	13119,003
Item Variances	4834850,862	,007	30016449,265	30016449,258	4551670415,9
Inter-Item Covariances	1000195,232	-714,034	26297430,797	26298144,831	-36829,359
Inter-Item Correlations	,110	-,537	,929	1,466	-1,730

### Summary Item Statistics

	Variance	N of Items
Item Means	8101919,122	20
Item Variances	7,556E+13	20
Inter-Item Covariances	8,389E+12	20
Inter-Item Correlations	,122	20

## Reliability - USER SCORES

### Case Processing Summary

		N	%
Cases	Valid	87	77,0
	Excluded <sup>a</sup>	26	23,0
	Total	113	100,0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,935	,937	115

### Summary Item Statistics

	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance
Item Means	,825	,575	,977	,402	1,700	,014
Item Variances	,132	,023	,247	,225	10,882	,005
Inter-Item Covariances	,015	-,050	,170	,220	-3,404	,001
Inter-Item Correlations	,114	-,243	1,000	1,243	-4,121	,025

### Summary Item Statistics

	N of Items
Item Means	115
Item Variances	115
Inter-Item Covariances	115
Inter-Item Correlations	115

### Reliability - USER SCORES + RESPONSE TIME

#### Case Processing Summary

		N	%
Cases	Valid	87	77,0
	Excluded <sup>a</sup>	26	23,0
	Total	113	100,0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,963	,938	231

### Summary Item Statistics

	Mean	Minimum	Maximum	Range
Item Means	2739,588	,575	12747,529	12746,954
Item Variances	14403193,091	,023	289584534,16	289584534,14
Inter-Item Covariances	1458623,465	-3827315,182	119033920,75	122861235,94
Inter-Item Correlations	,061	-,798	1,000	1,798

### Summary Item Statistics

	Maximum / Minimum	Variance	N of Items
Item Means	22180,700	9797855,245	231
Item Variances	12745126380	9,016E+14	231
Inter-Item Covariances	-31,101	2,388E+13	231
Inter-Item Correlations	-1,253	,040	231

### Plots

### Statistics

		dotscomparison_RT	dotscomparison_accuracy	matchsample_RT	matchsample_accuracy
N	Valid	111	113	113	113
	Missing	2	0	0	0
Mean		2834,493	,958	4779,228	,70993117012
Median		2101,200	1,000	4451,800	,77777777780
Std. Deviation		2325,4869	,0811	1455,0570	,20381806885
Variance		5407889,175	,007	2117190,857	,042
Percentiles	25	1588,100	,900	3795,550	,55555555560
	50	2101,200	1,000	4451,800	,77777777780
	75	3408,300	1,000	5483,650	,88888888890

### Statistics

		matchsamplerotate_RT	matchsamplerotate_accuracy	matchpointnumber_RT	matchpointnumber_accuracy
N	Valid	113	113	108	112
	Missing	0	0	5	1
Mean		4525,2796460	,75319567356	4209,141	,926
Median		4257,9000000	,77777777780	4214,300	1,000
Std. Deviation		1238,0427997	,21605250423	1688,3544	,1199
Variance		1532749,974	,047	2850540,424	,014
Percentiles	25	3653,5500000	,55555555560	2974,475	,900
	50	4257,9000000	,77777777780	4214,300	1,000
	75	5157,4500000	,88888888890	5186,875	1,000

### Statistics

		symbolicmagnitude_RT	symbolicmagnitude_accuracy	numericline_RT	numericline_accuracy
N	Valid	111	113	111	113
	Missing	2	0	2	0
Mean		1773,576	,957	5840,8386197	,629
Median		1656,800	1,000	5398,0222220	,700
Std. Deviation		879,6231	,1172	2969,2445234	,2930
Variance		773736,879	,014	8816413,040	,086
Percentiles	25	1259,400	1,000	3970,6375000	,400
	50	1656,800	1,000	5398,0222220	,700
	75	2011,500	1,000	6767,0777780	,900

### Statistics

		counting_RT	counting_accuracy	countingtrue_RT	countingtrue_accuracy
N	Valid	113	113	108	113
	Missing	0	0	5	0
Mean		4390,6106194	,90757128811	5168,7548734	,88961341408
Median		4090,1111110	1,00000000000	4571,2105260	,94736842110
Std. Deviation		2311,9785538	,14840618185	3021,7194587	,16952245040
Variance		5345244,833	,022	9130788,487	,029
Percentiles	25	3176,6666665	,88888888890	3104,0657890	,89473684210
	50	4090,1111110	1,00000000000	4571,2105260	,94736842110
	75	5454,3888890	1,00000000000	6266,3421053	1,00000000000

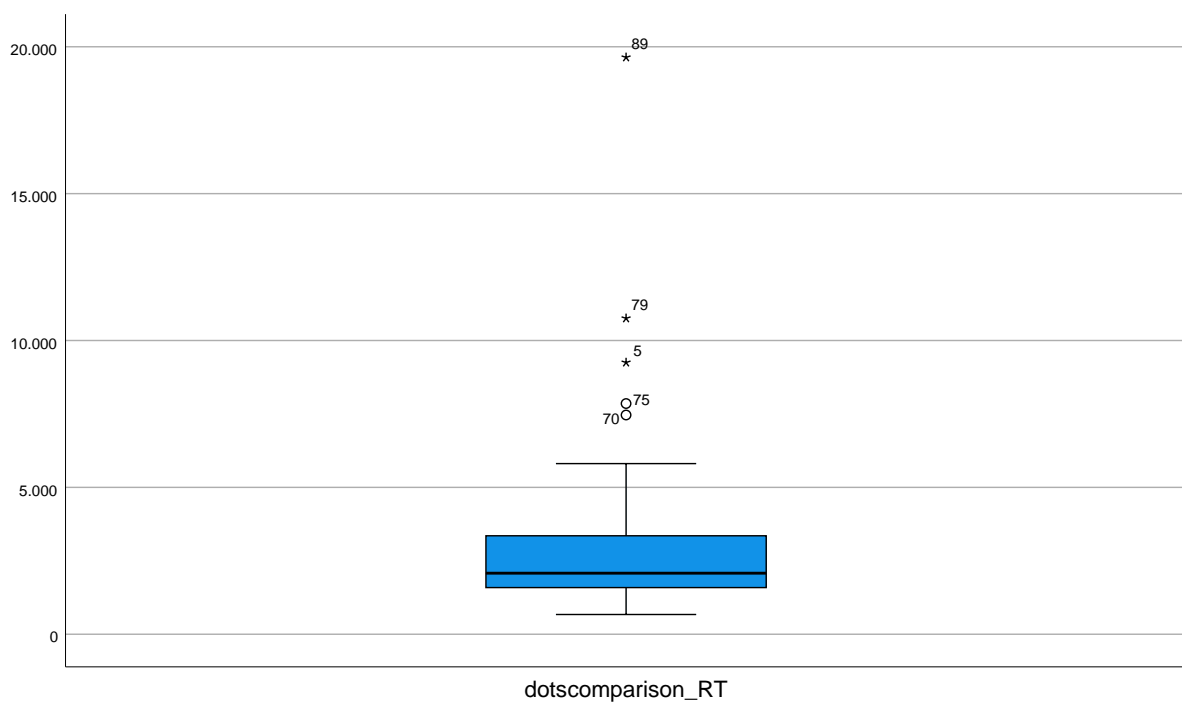
		Statistics			
		simplearithmetic plus_RT	simplearithmetic plus_accuracy	simplearithmetic minus_RT	simplearithmetic minus_accuracy
N	Valid	111	113	111	113
	Missing	2	0	2	0
Mean		6887,228	,895	7935,7149	,8049
Median		5778,000	1,000	6615,4500	,9500
Std. Deviation		4910,4419	,1889	5246,84822	,24339
Variance		24112439,819	,036	27529416,233	,059
Percentiles	25	3321,800	,900	4213,8000	,7000
	50	5778,000	1,000	6615,4500	,9500
	75	9530,600	1,000	11196,2500	1,0000

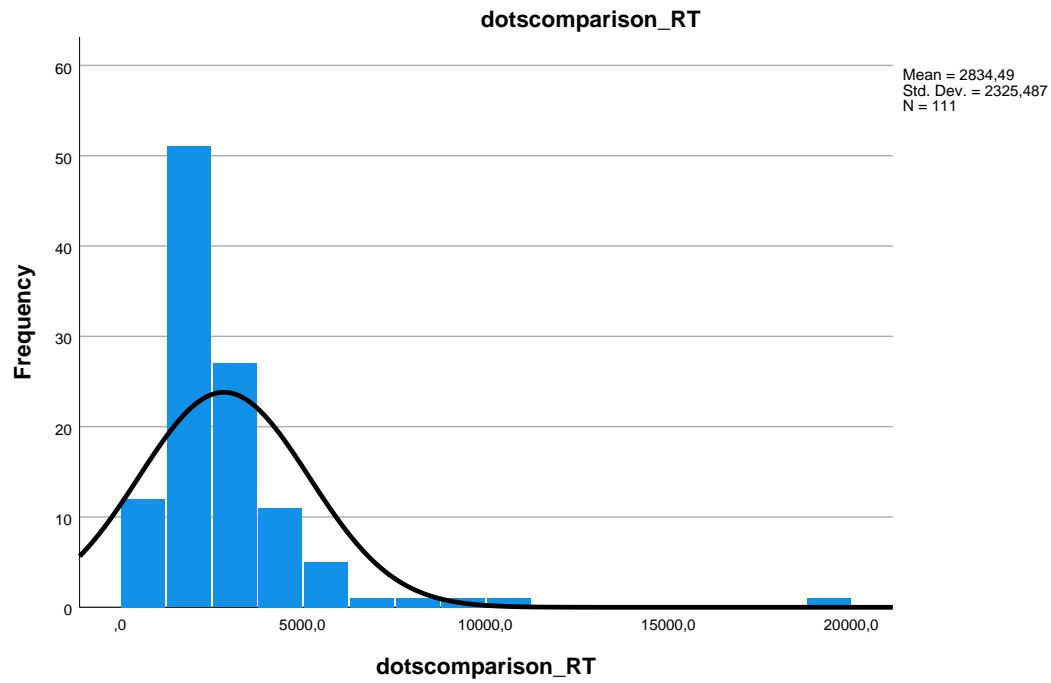
		Statistics			
		dotscomparison _IES	matchsample_IE S	matchsamplerot ate_IES	matchpointsnum ber_IES
N	Valid	111	113	112	108
	Missing	2	0	1	5
Mean		2983,1024596	7808,7011726	6749,9619593	4556,0614896
Median		2356,4444440	6437,7000000	5774,3035715	4605,5722220
Std. Deviation		2397,3953780	4933,8658839	3703,9374398	1846,9445793
Variance		5747504,598	24343032,561	13719152,558	3411204,279
Percentiles	25	1658,9000000	4562,4875000	4222,5187500	3313,8166668
	50	2356,4444440	6437,7000000	5774,3035715	4605,5722220
	75	3422,2500000	9322,6114285	8390,6700000	5537,1388890

		Statistics			
		symbolicmagnitu de_IES	numericline_IES	counting_IES	countingtrue_IE S
N	Valid	111	111	113	108
	Missing	2	2	0	5
Mean		2018,2955956	13509,516394	5126,7525179	6574,7536688
Median		1672,1000000	7868,7936510	4276,2500000	4894,7187500
Std. Deviation		1785,7128094	13382,566331	3964,0639023	5766,4485122
Variance		3188770,238	179093081,61	15713802,622	33251928,444
Percentiles	25	1287,7000000	5186,5555560	3534,5555560	3580,8970585
	50	1672,1000000	7868,7936510	4276,2500000	4894,7187500
	75	2080,6000000	16569,238100	5920,6666670	7362,4218750

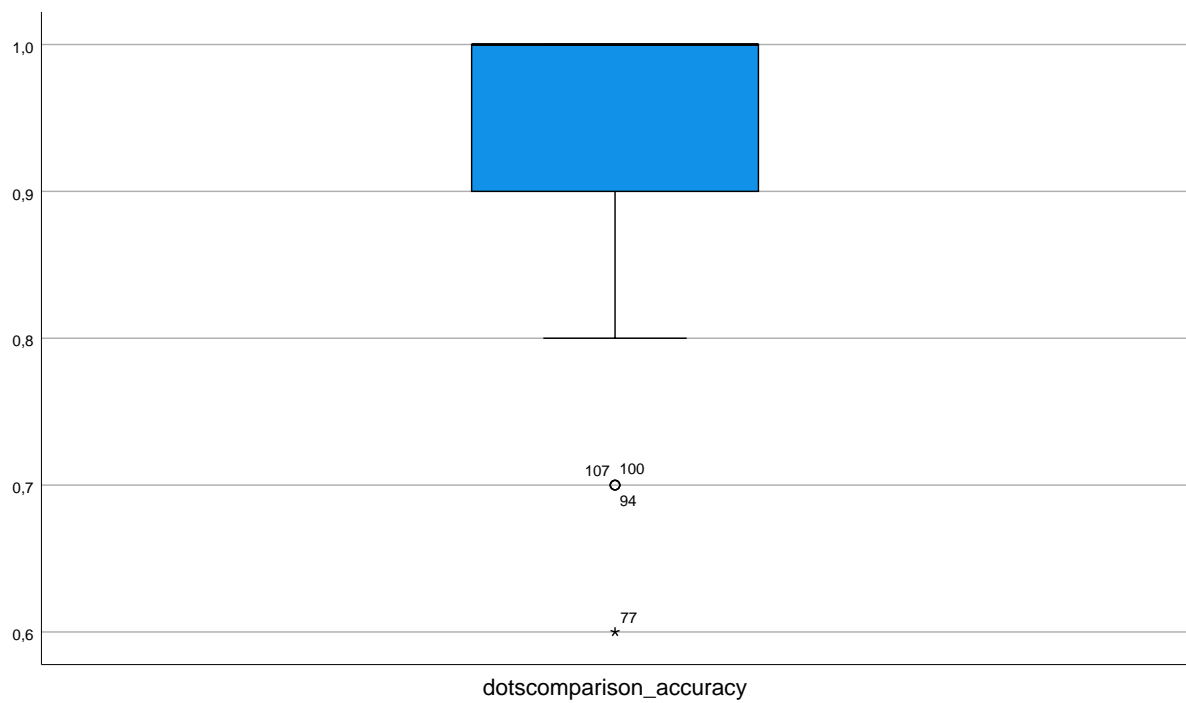
		Statistics	
		simplearithmetic plus_IES	simplearithmetic minus_IES
N	Valid	110	111
	Missing	3	2
Mean		8409,6464070	14173,827447
Median		5834,7500000	7976,1000000
Std. Deviation		8119,3288712	19247,554313
Variance		65923501,319	370468347,04
Percentiles	25	3389,5250000	4604,2500000
	50	5834,7500000	7976,1000000
	75	9937,8166668	15168,125000

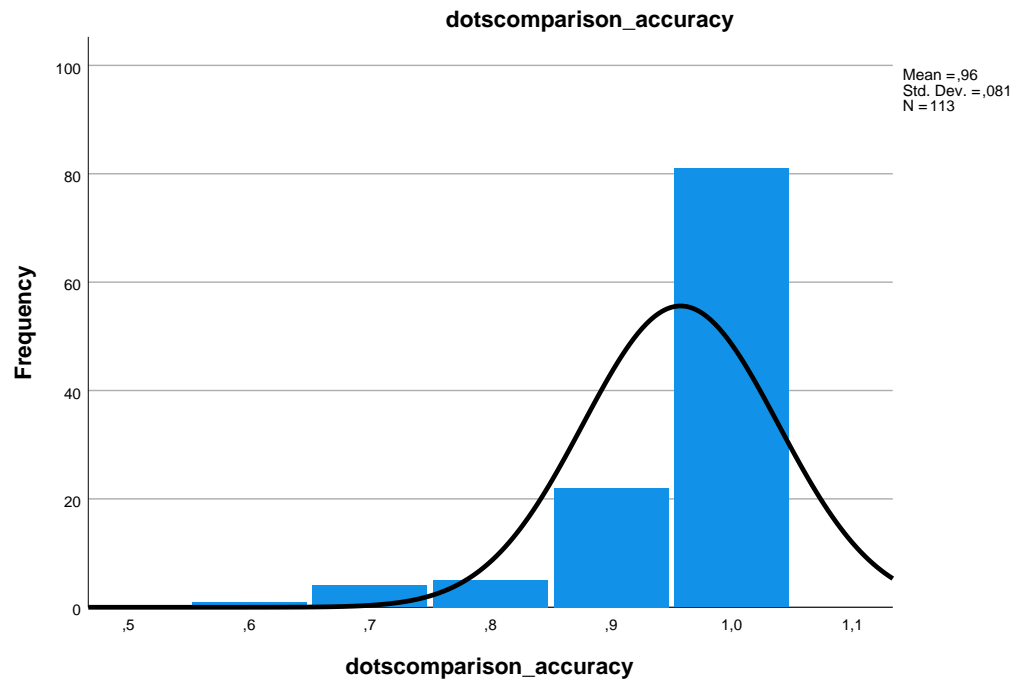
**dotscomparison\_RT**



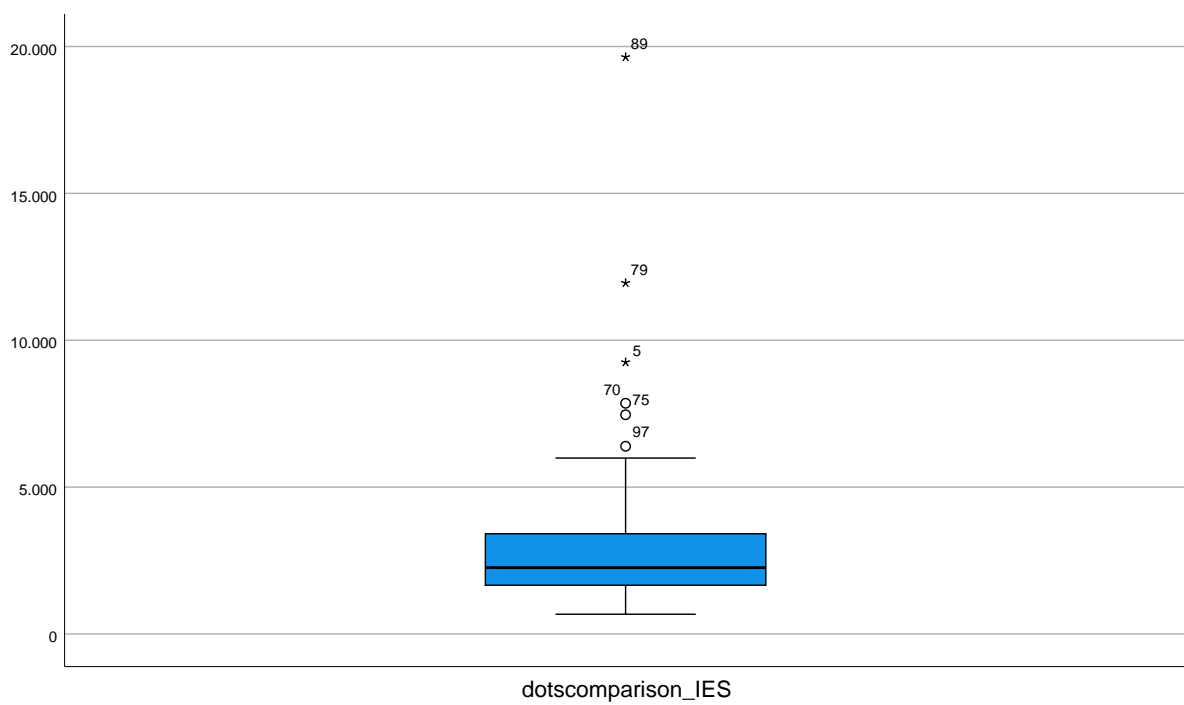


**dotscomparison\_accuracy**

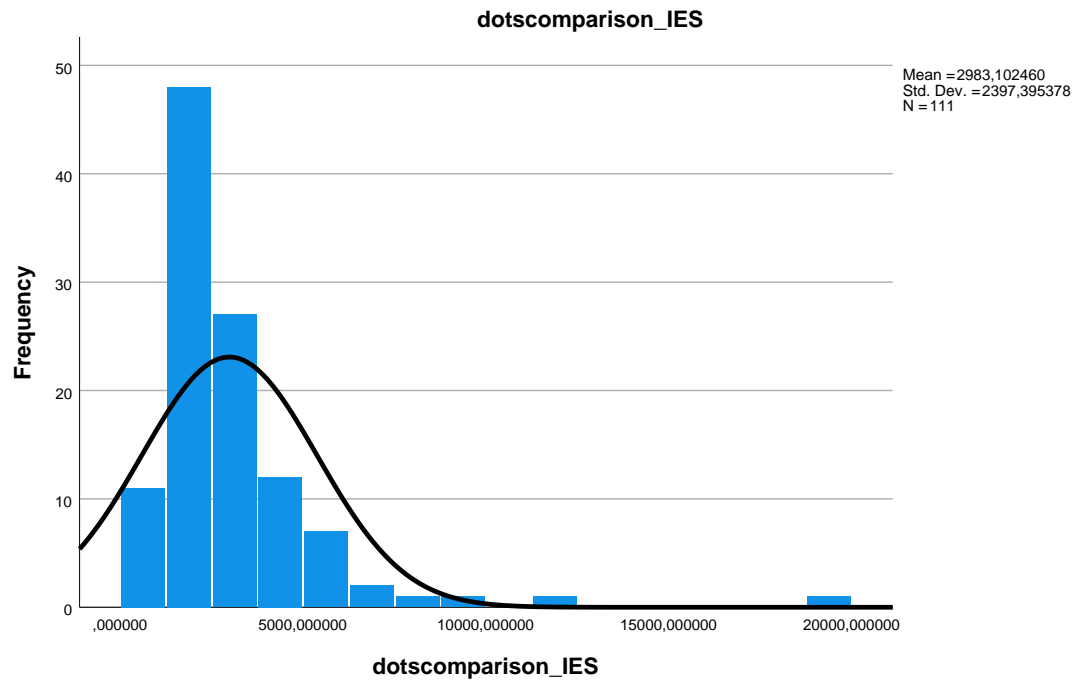




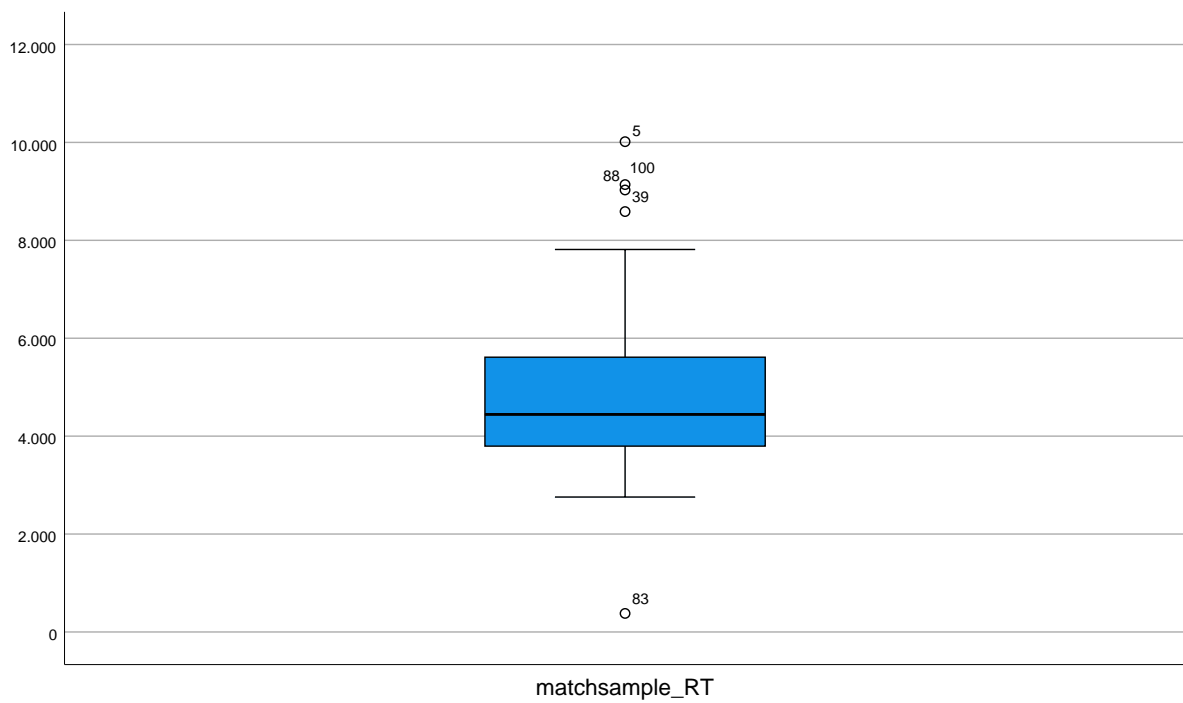
### dotscomparison\_IES

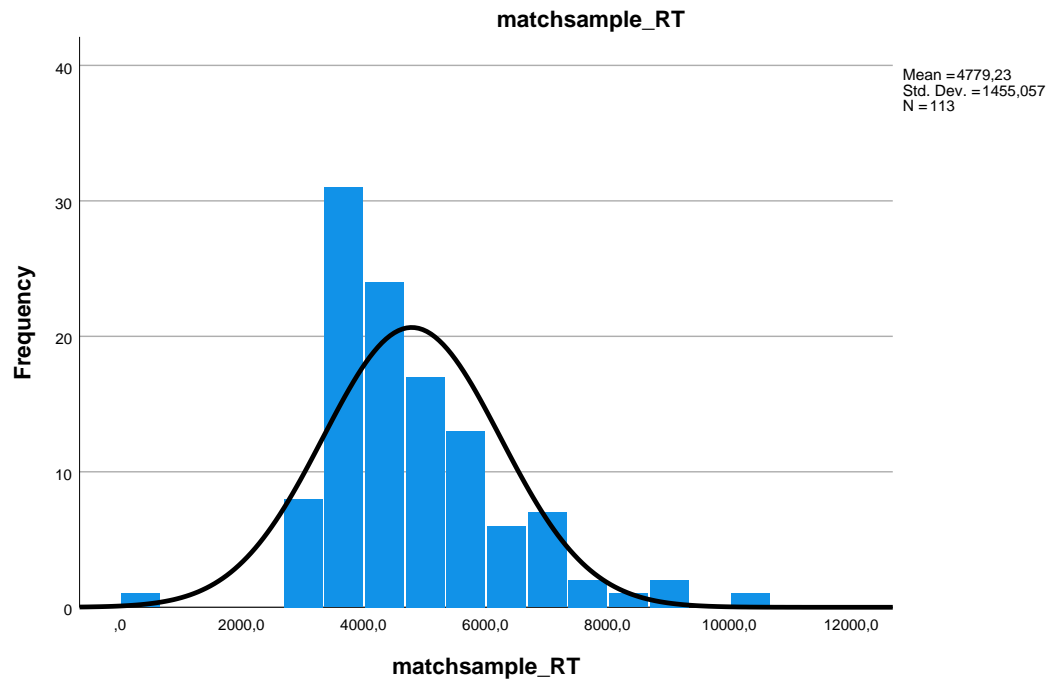




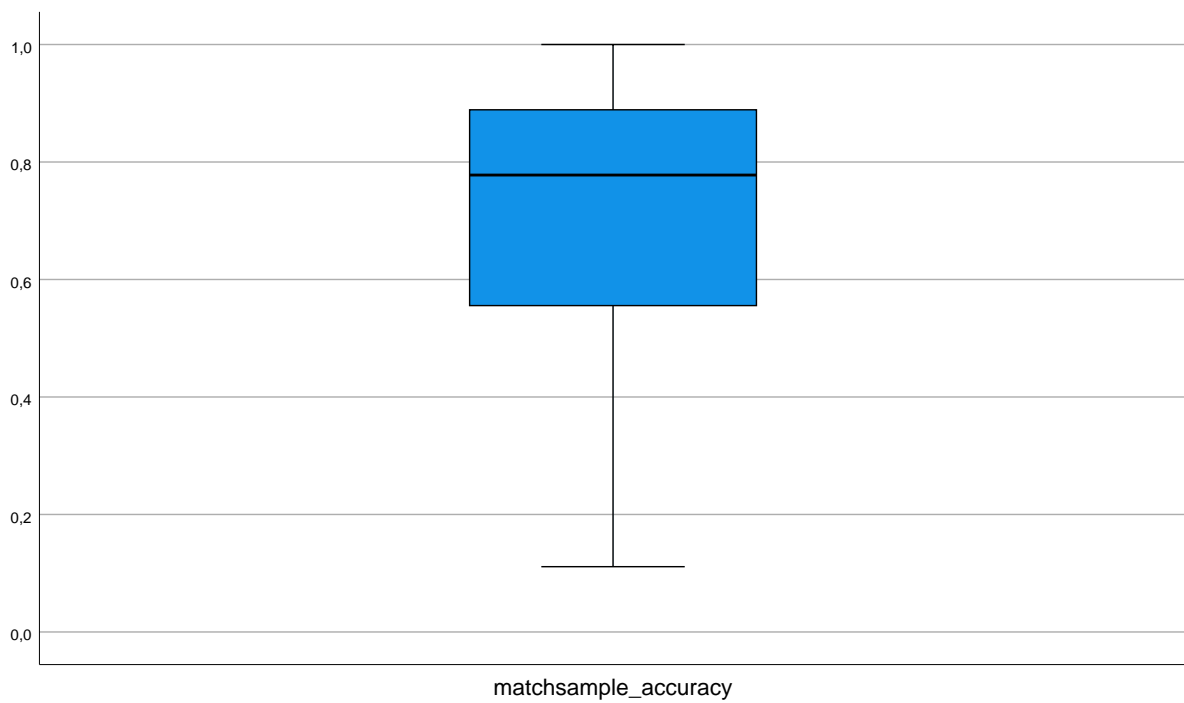


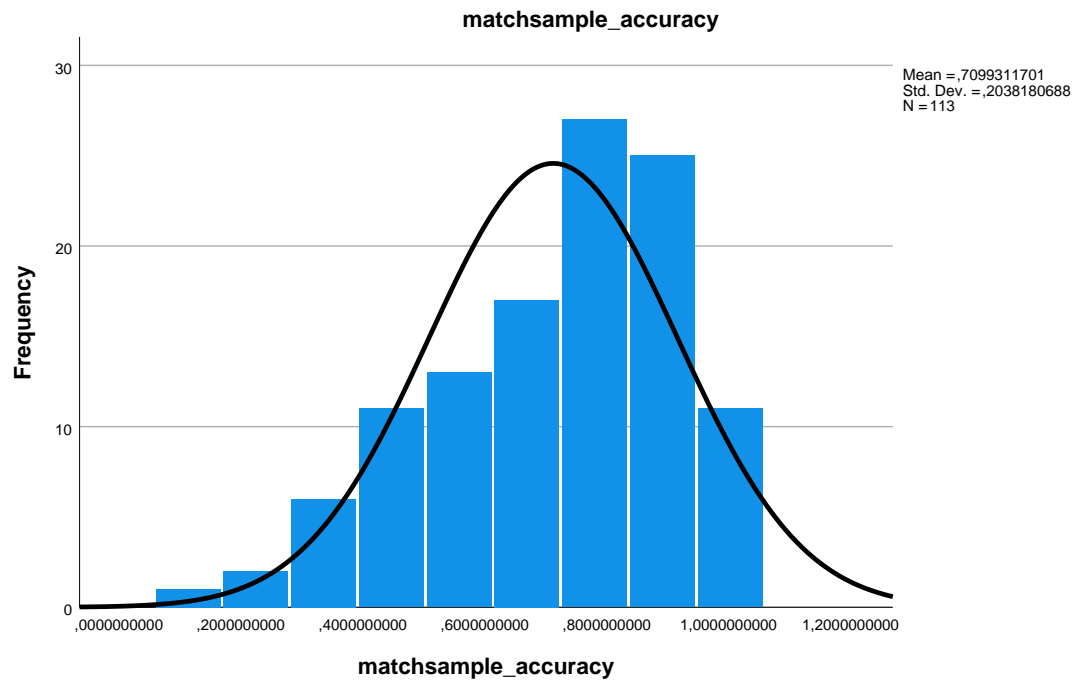
**matchsample\_RT**



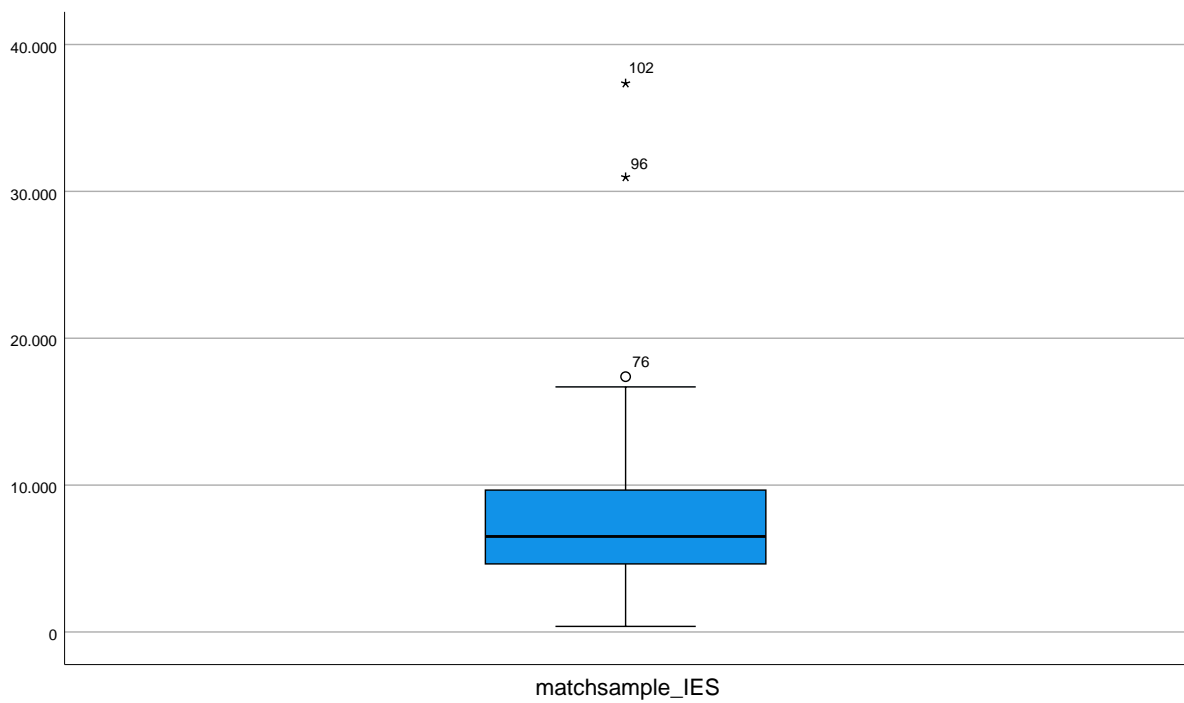


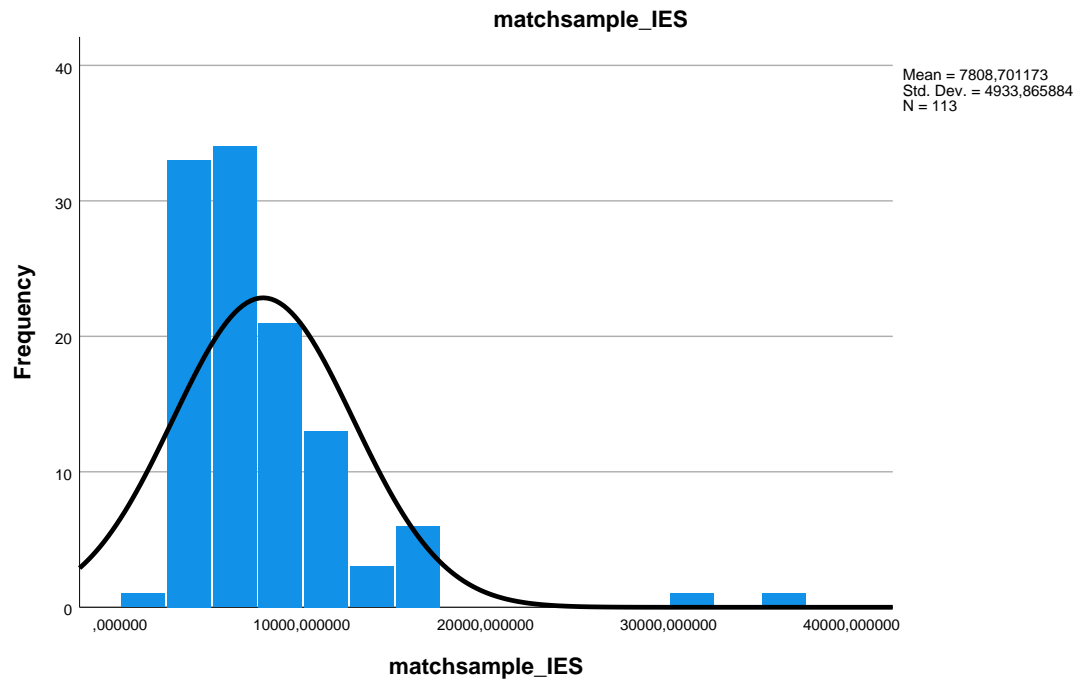
**matchsample\_accuracy**



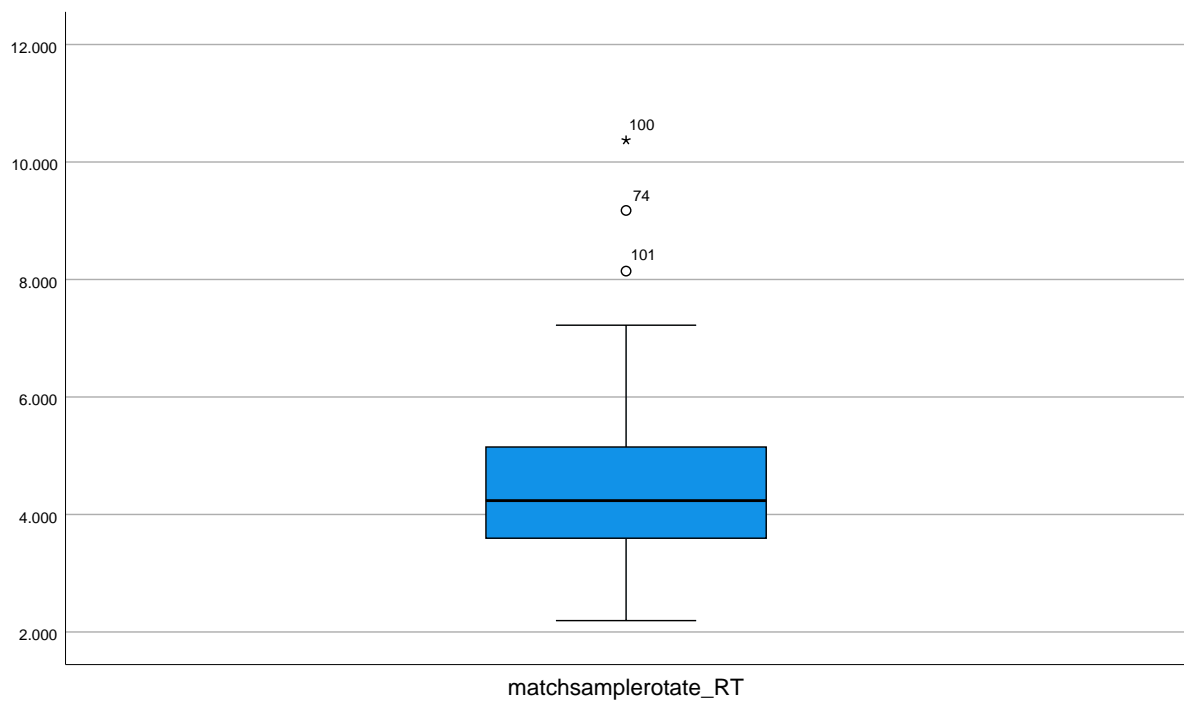


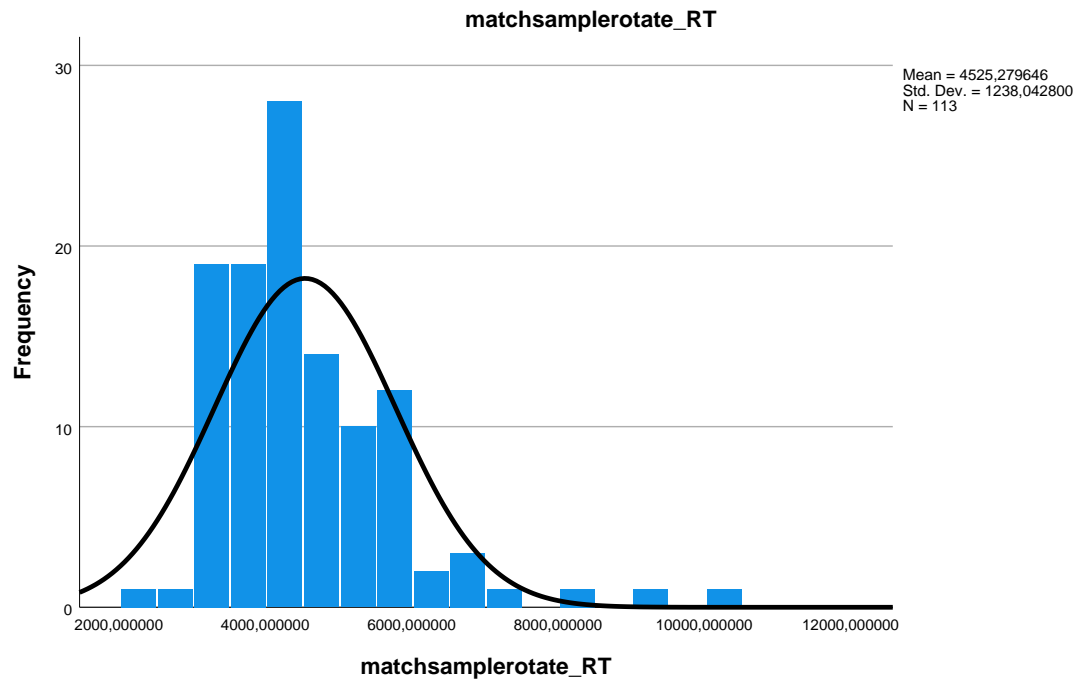
### matchsample\_IES



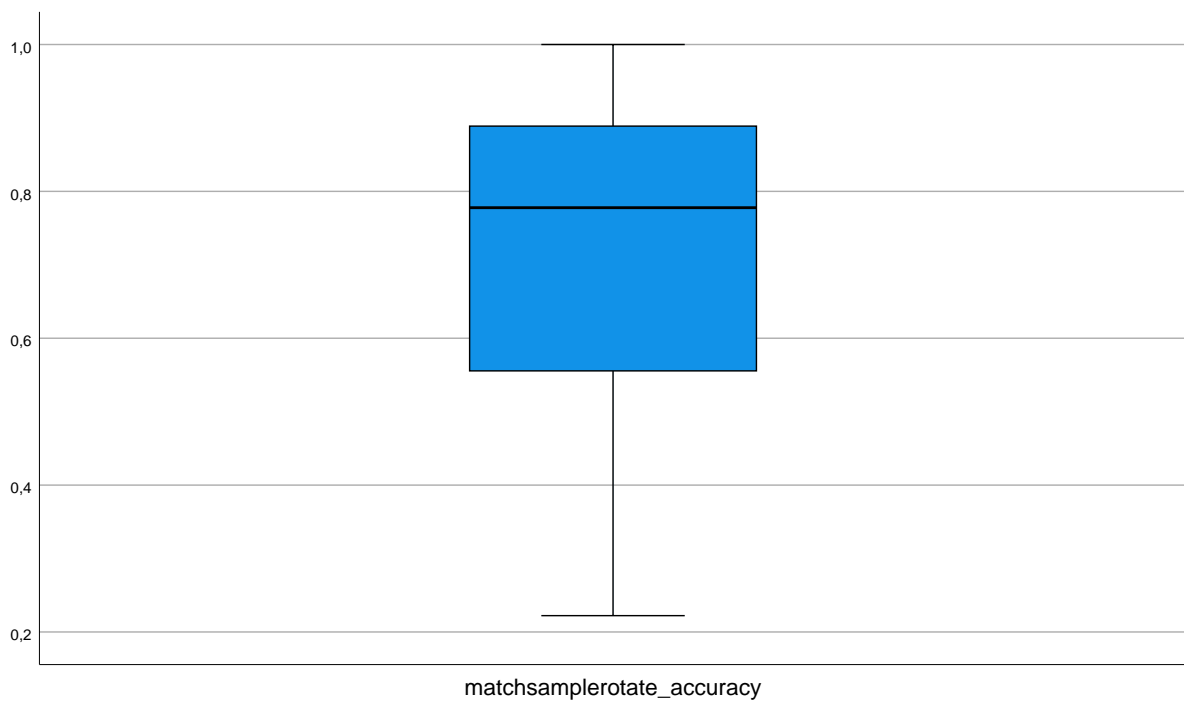


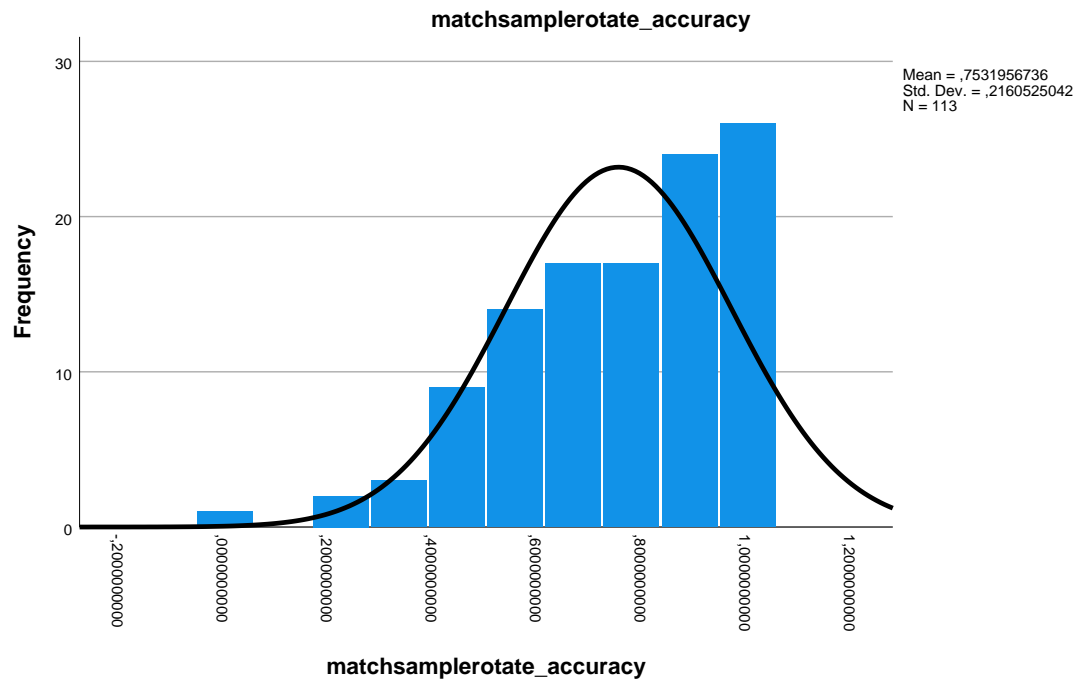
**matchsamplerotate\_RT**



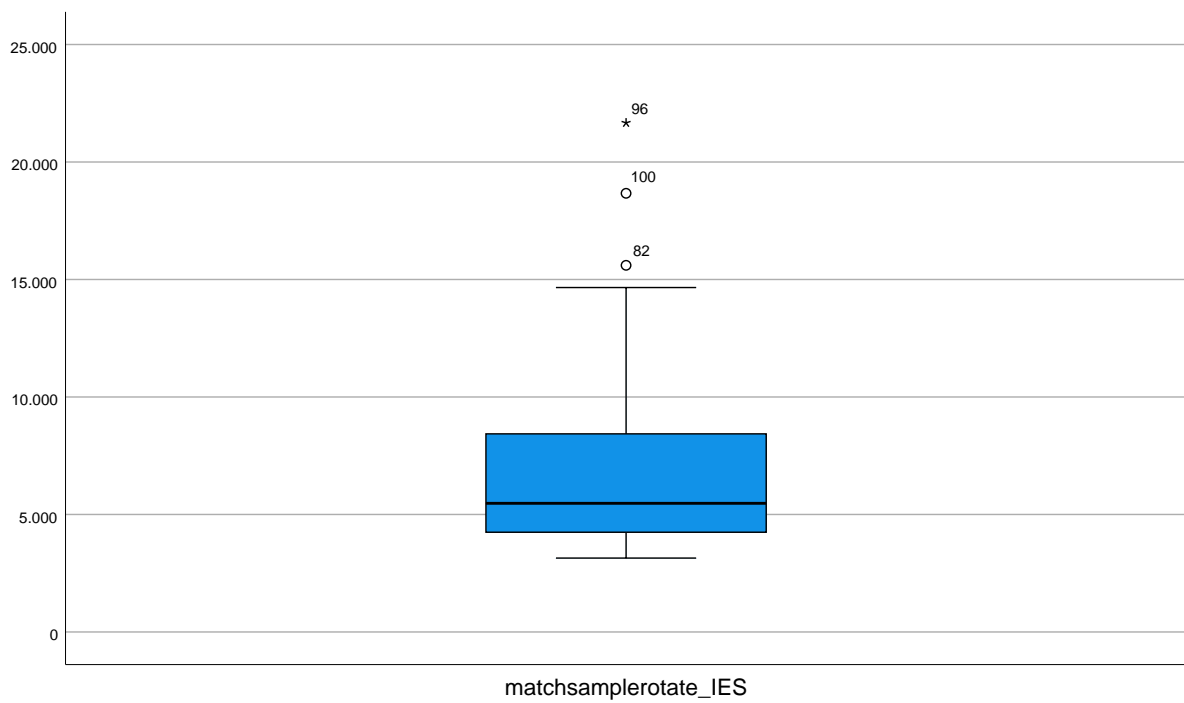


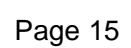
**matchsamplerotate\_accuracy**

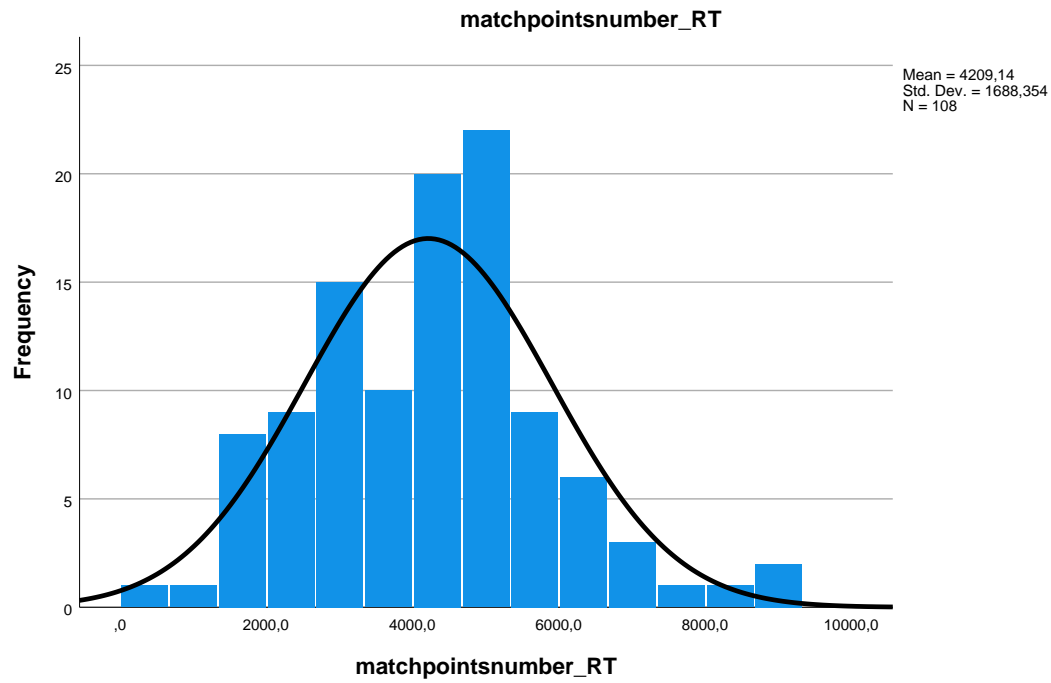




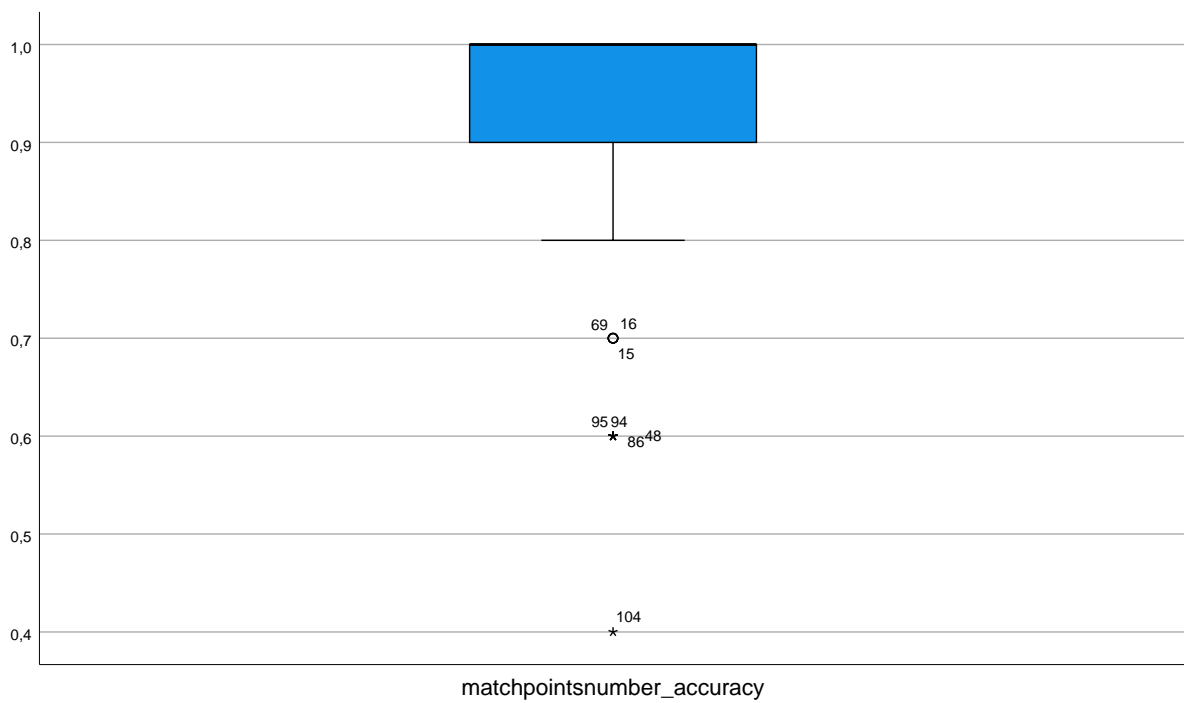
### matchsamplerotate\_IES



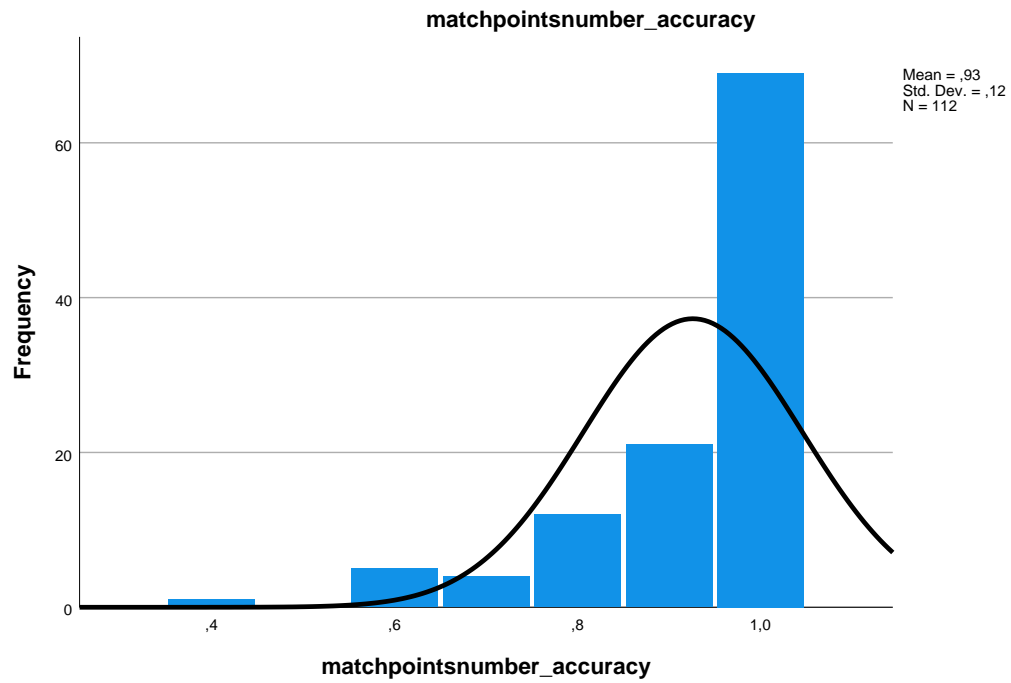




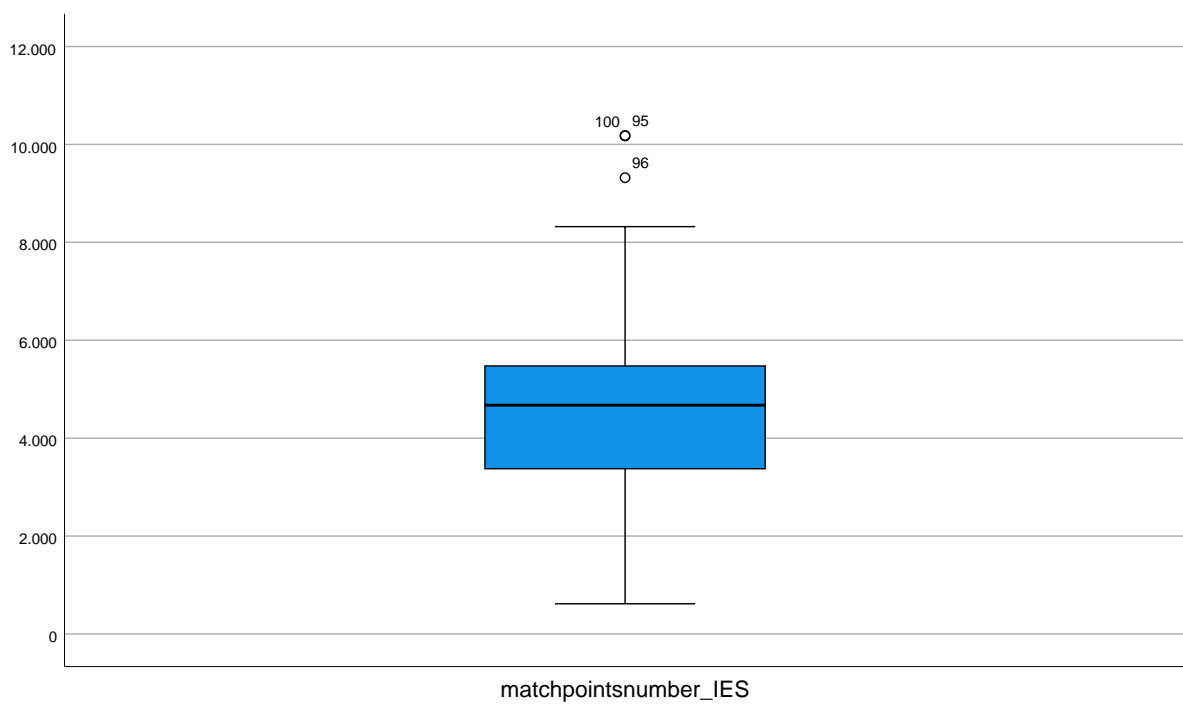
**matchpointsnumber\_accuracy**

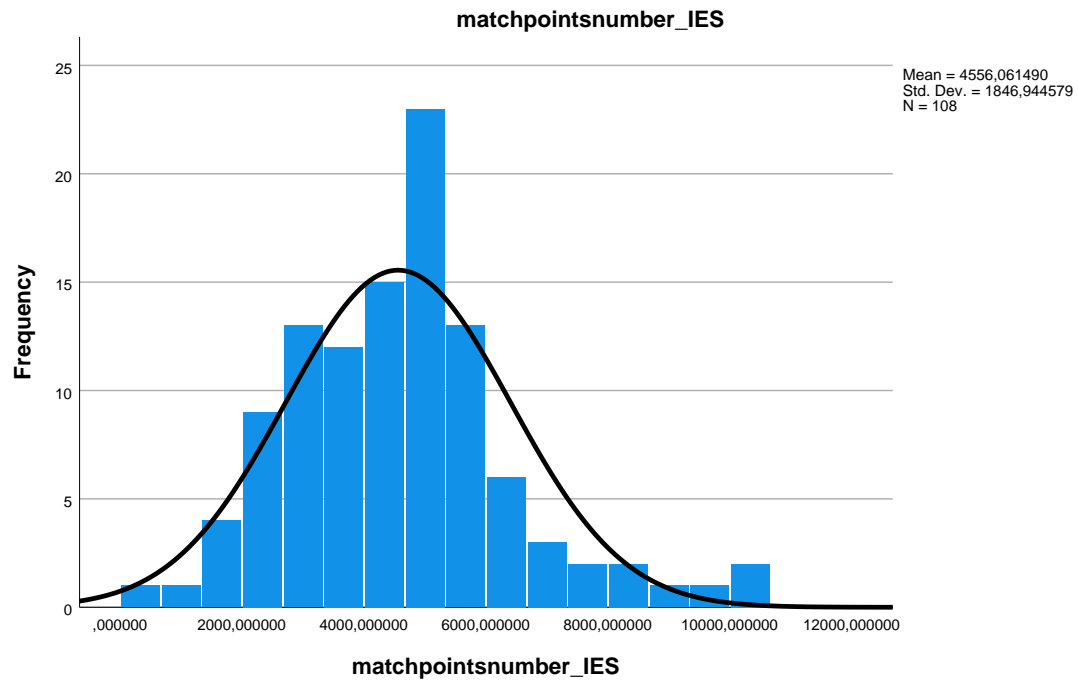




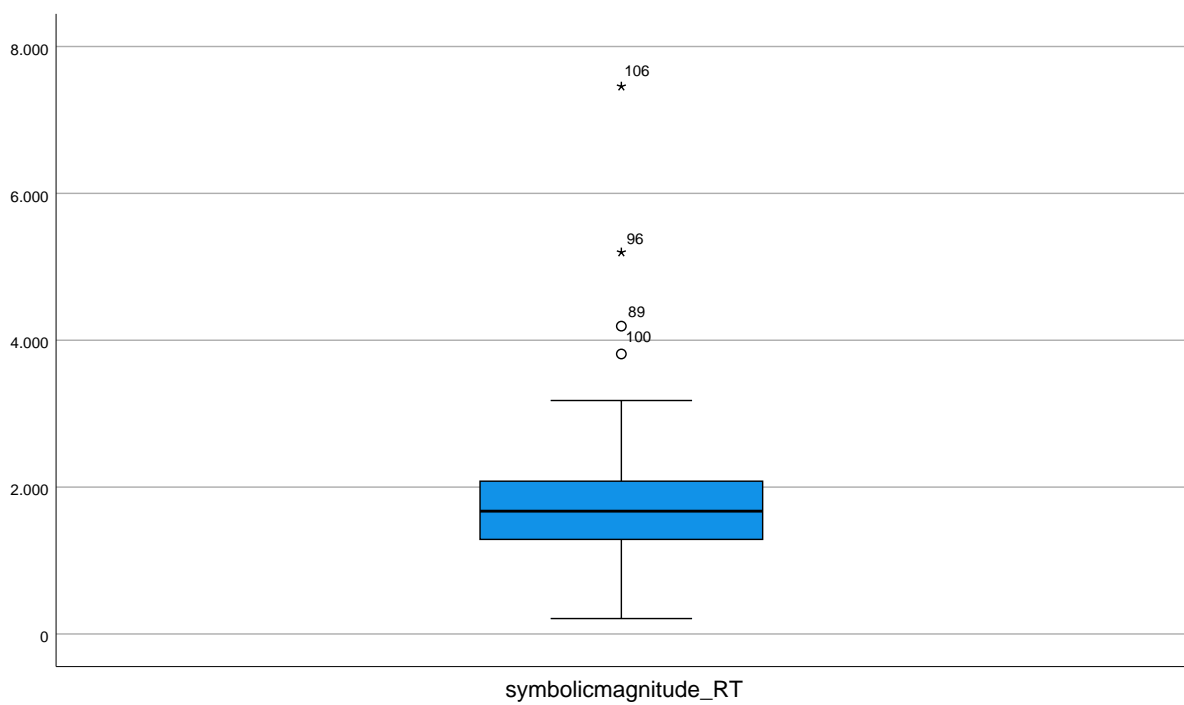


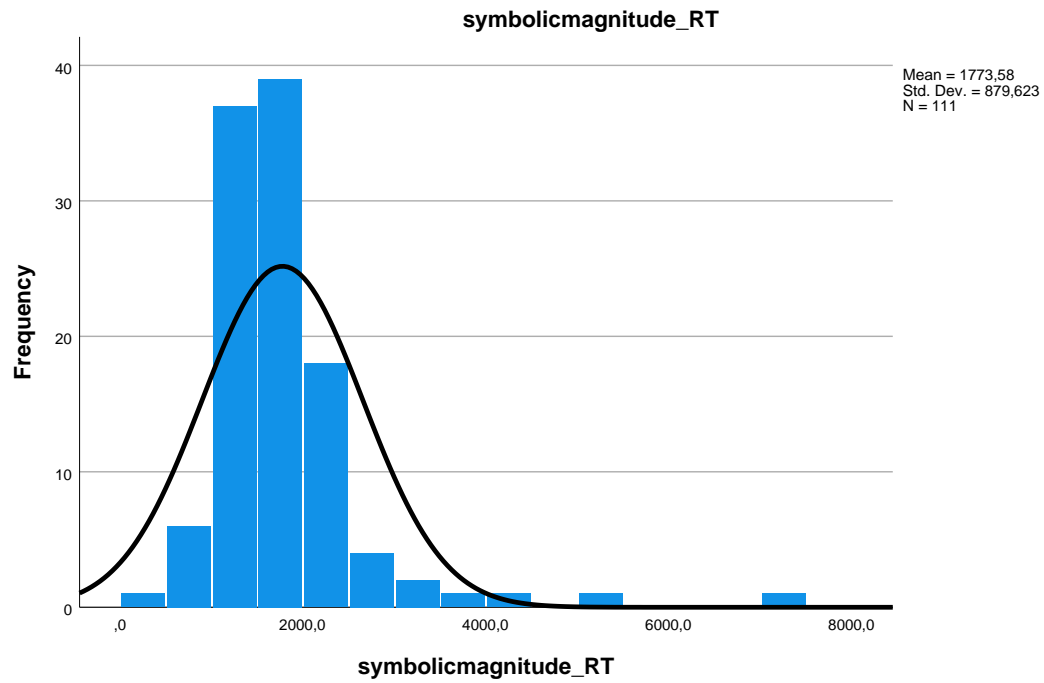
#### matchpointnumber\_IES



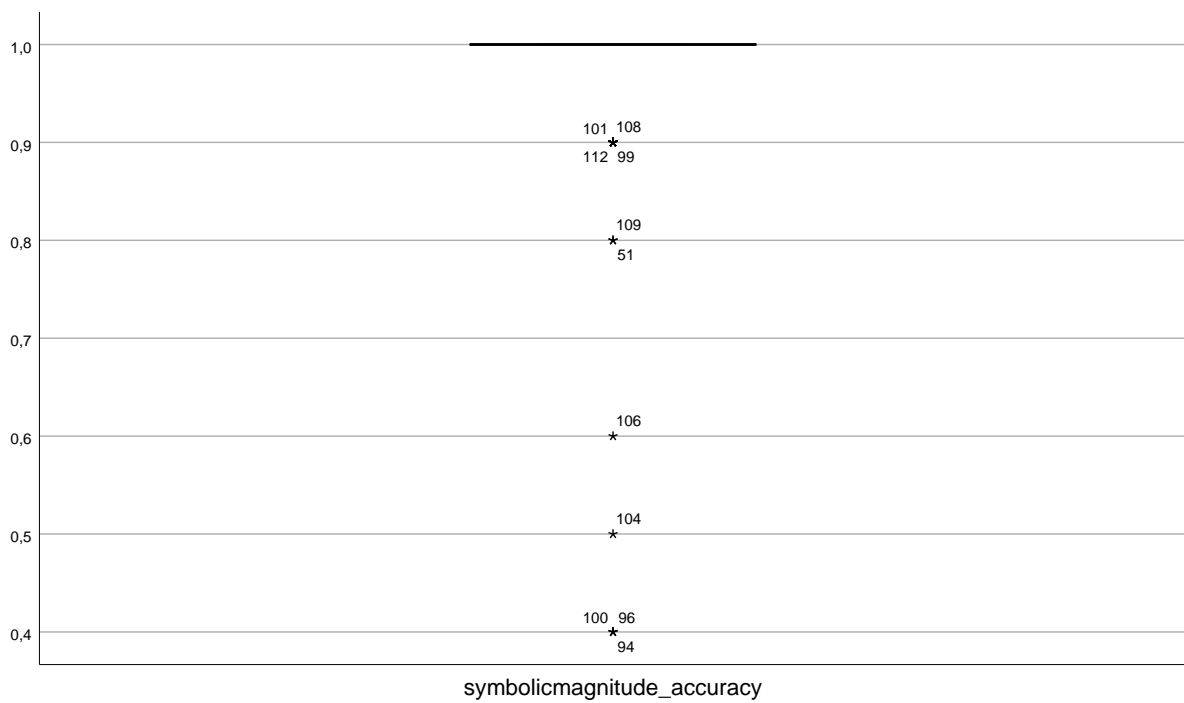


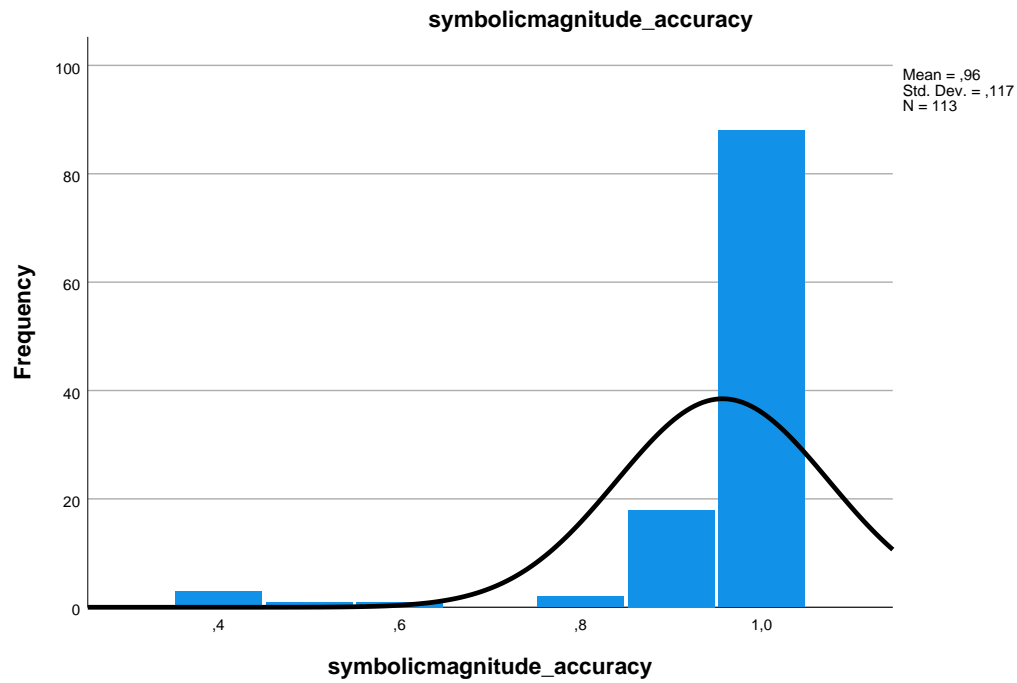
### symbolicmagnitude\_RT



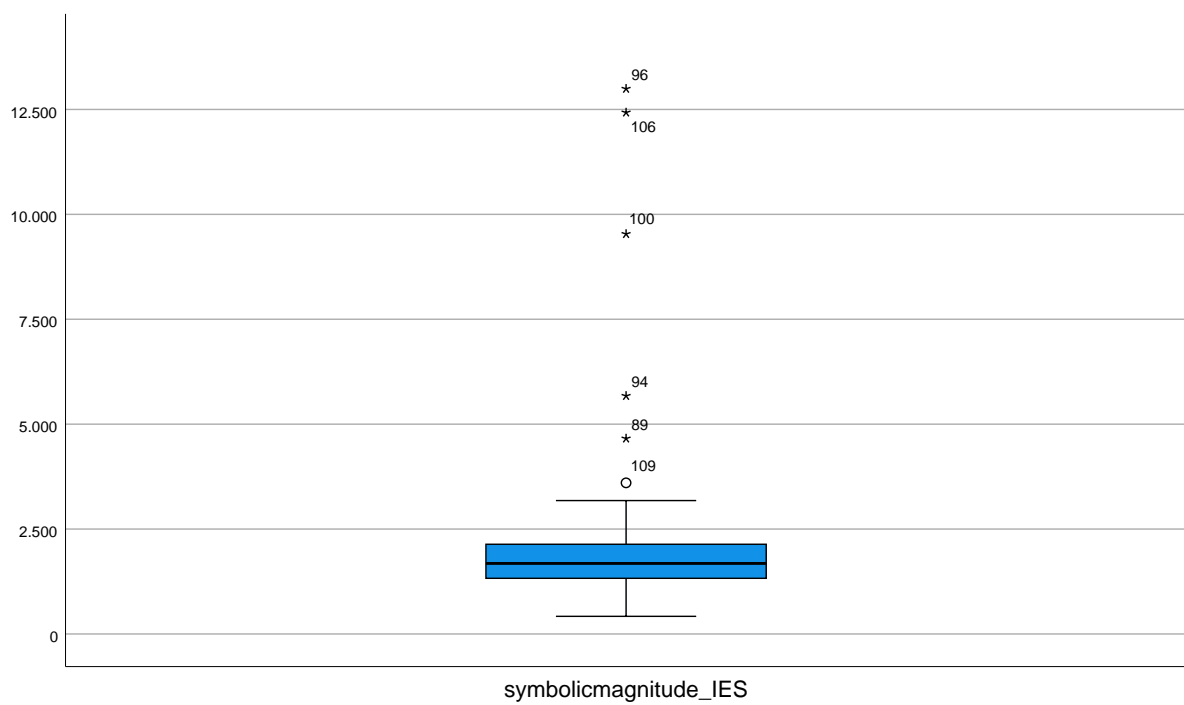


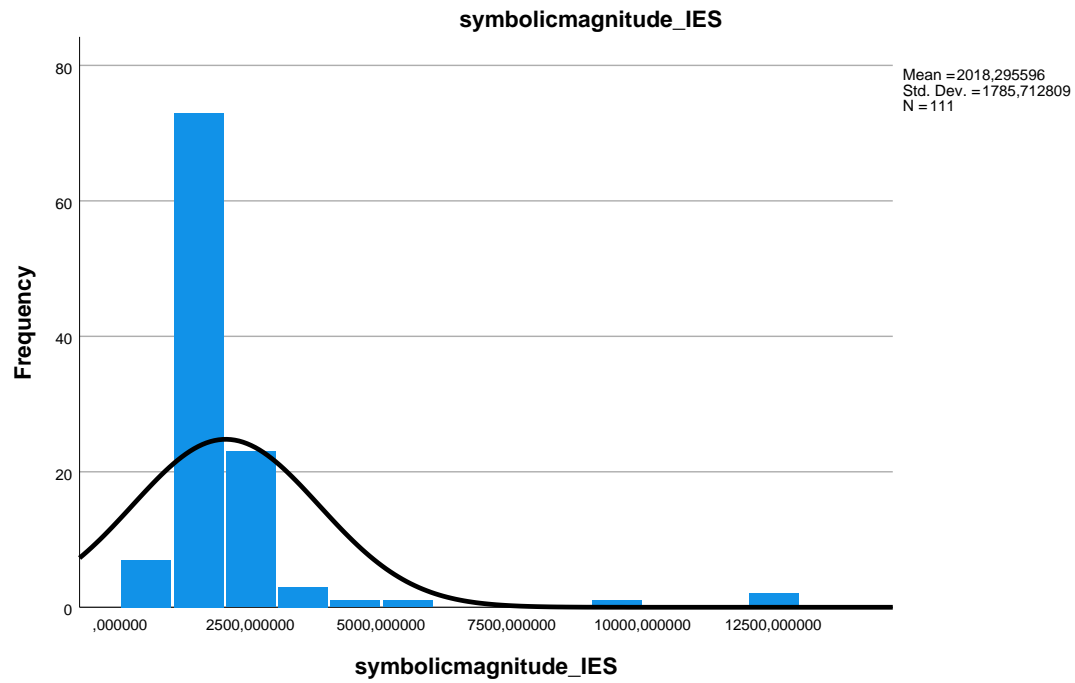
**symbolicmagnitude\_accuracy**



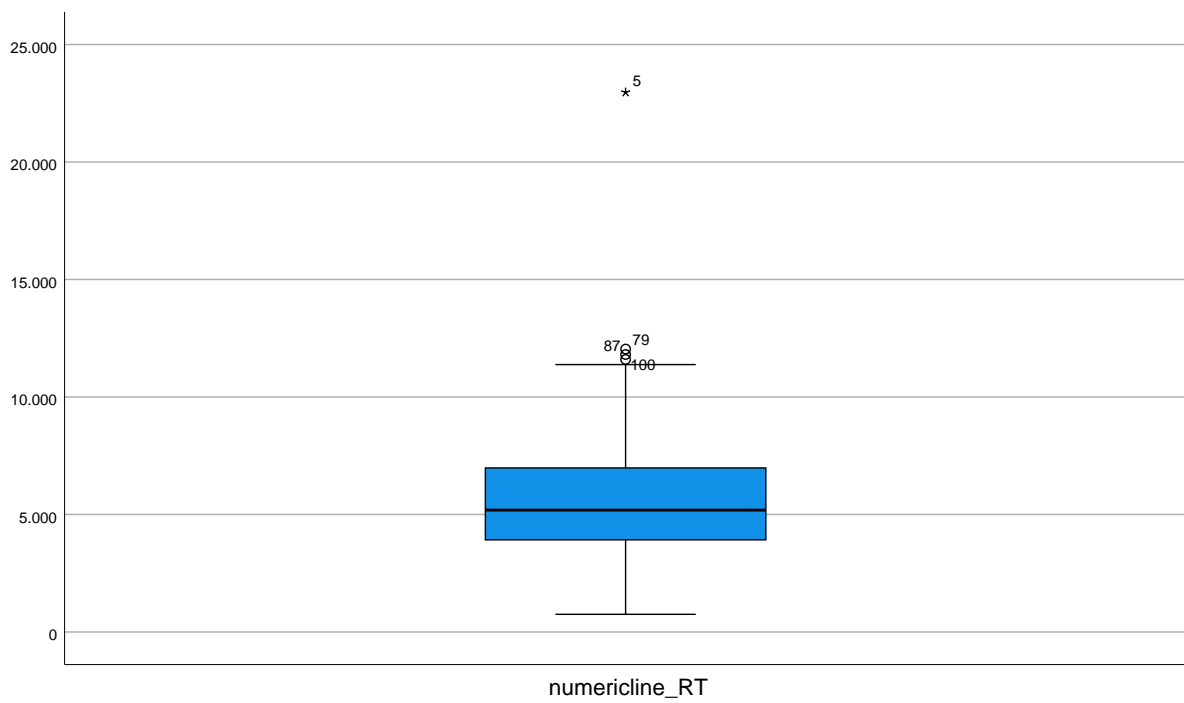


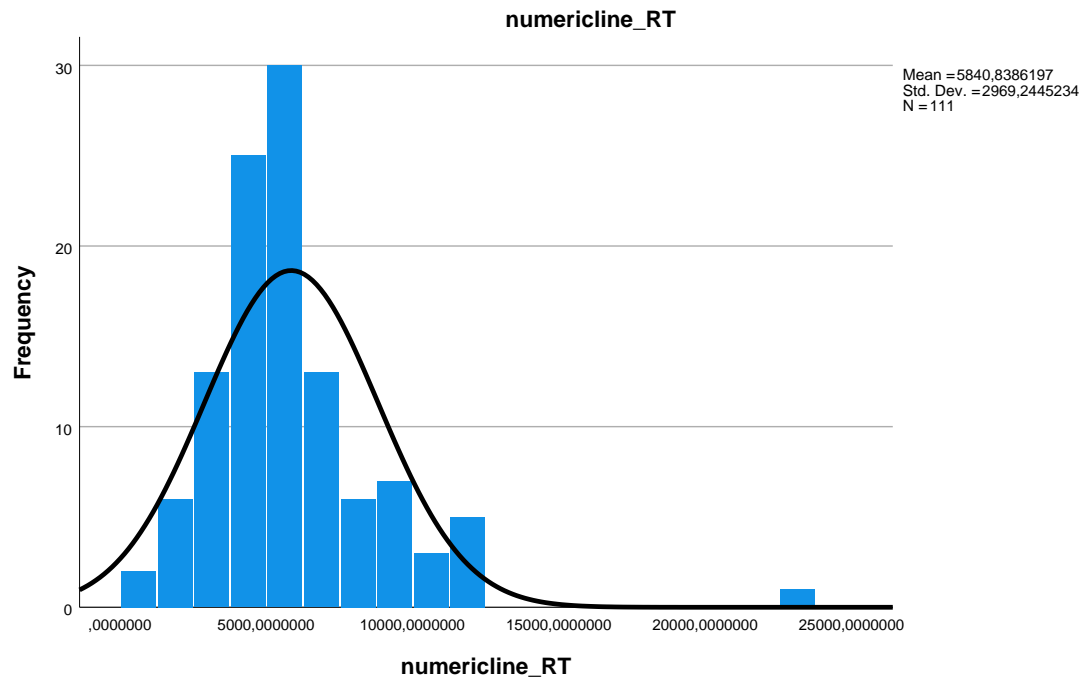
### symbolicmagnitude\_IES



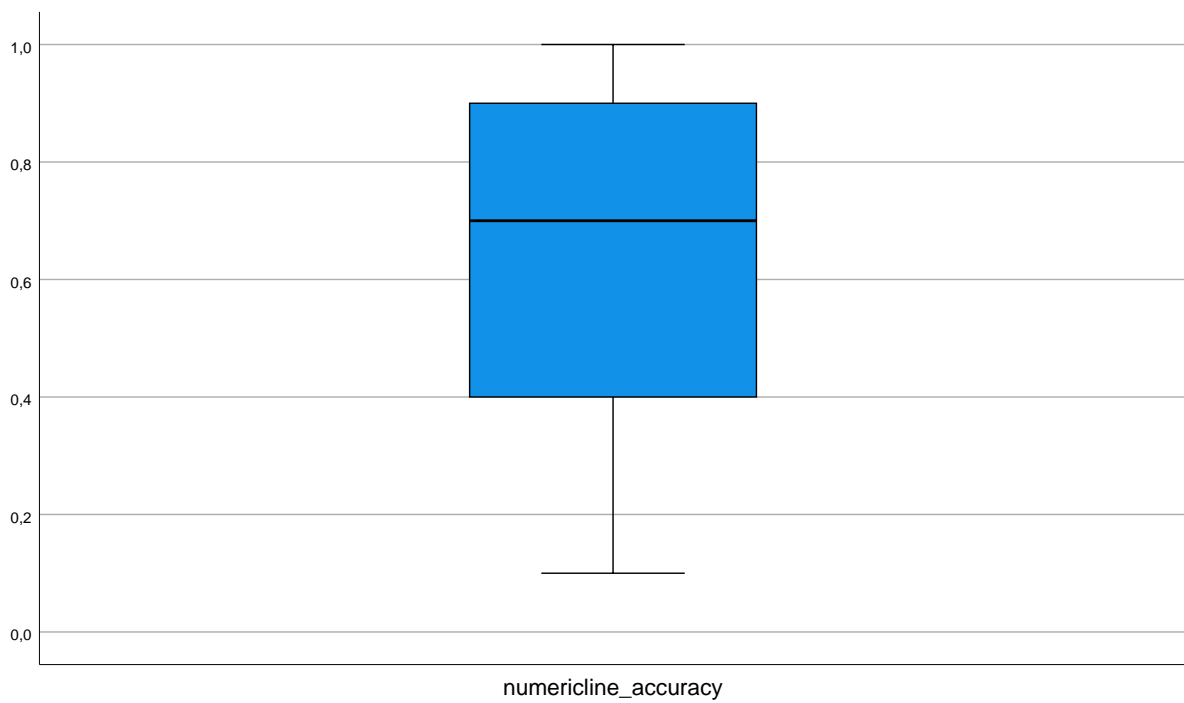


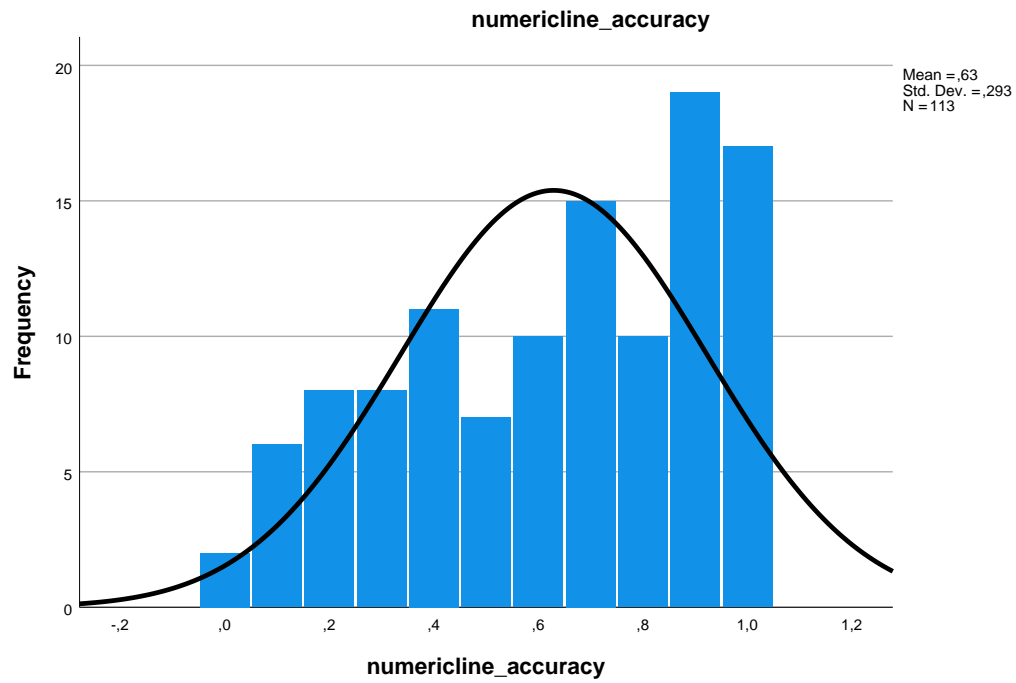
### numericline\_RT



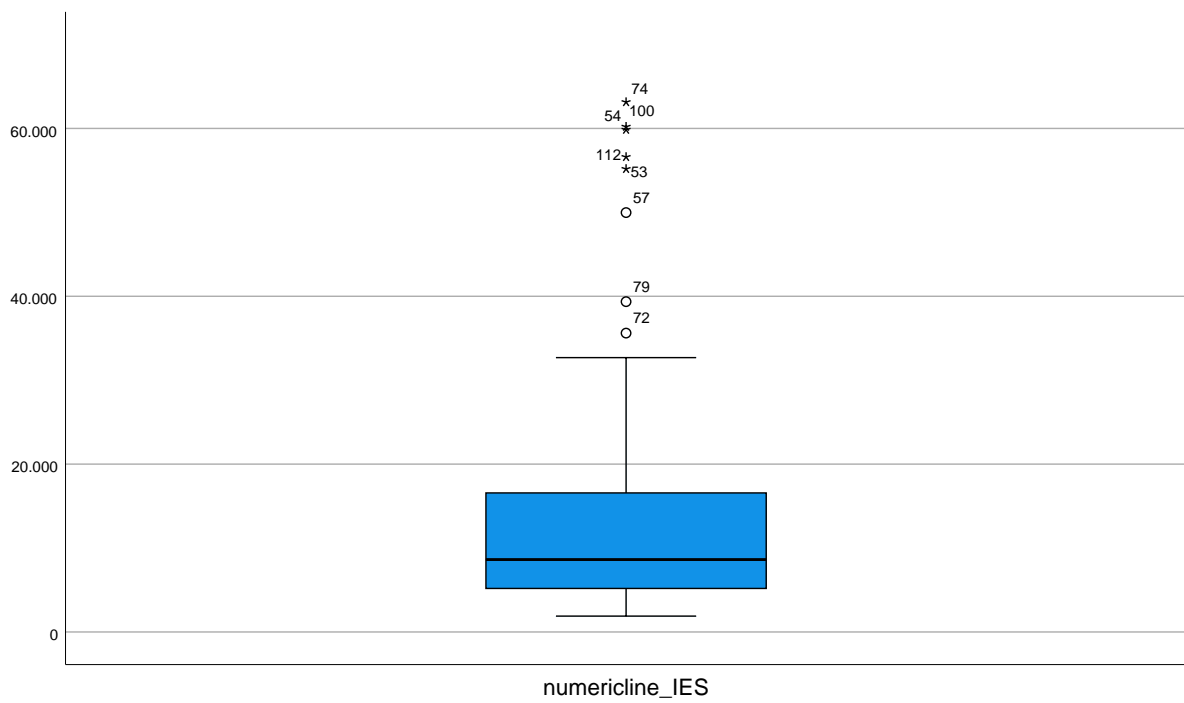


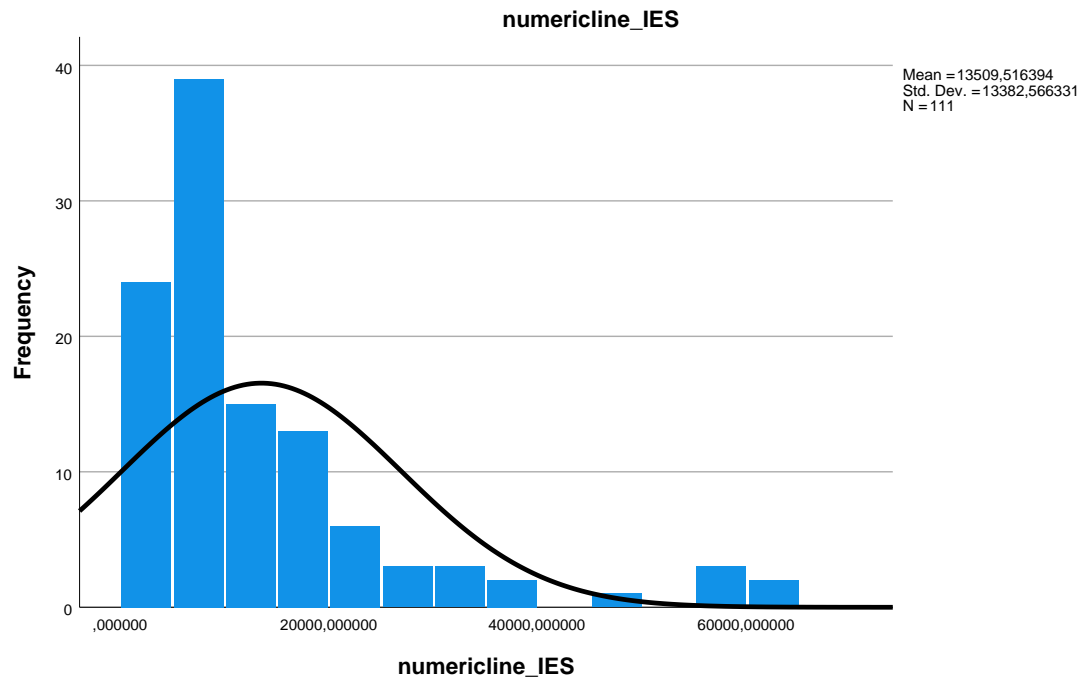
**numericline\_accuracy**



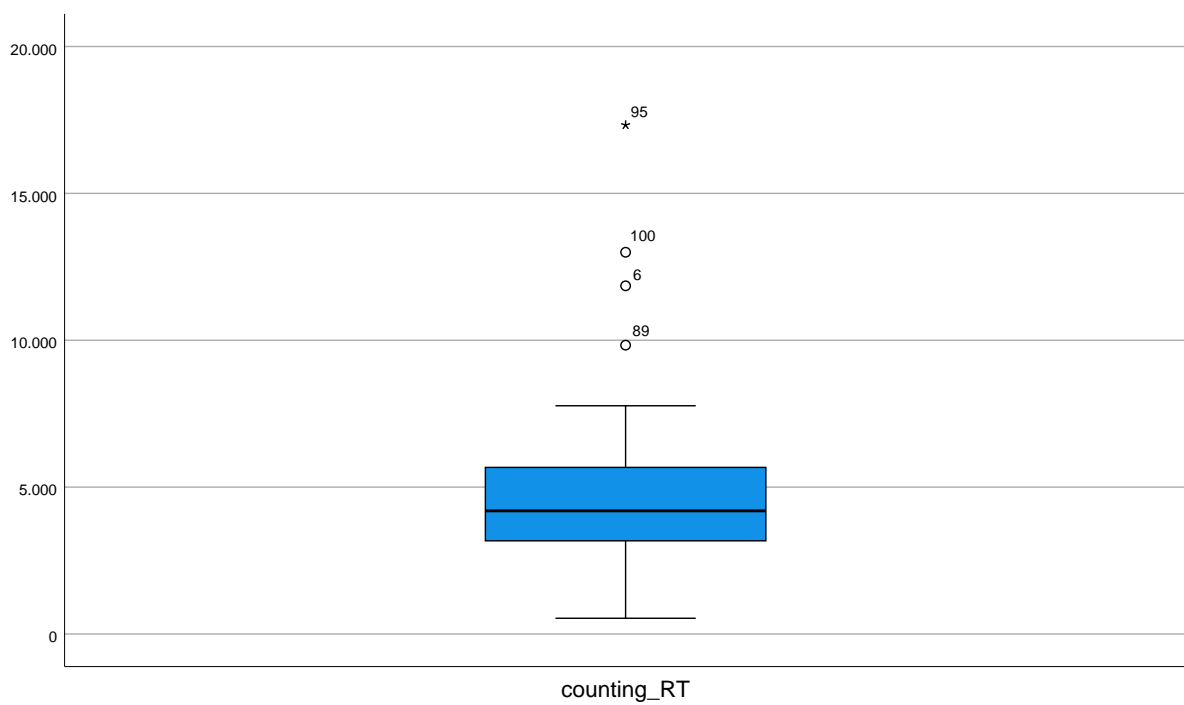


### numericline\_IES

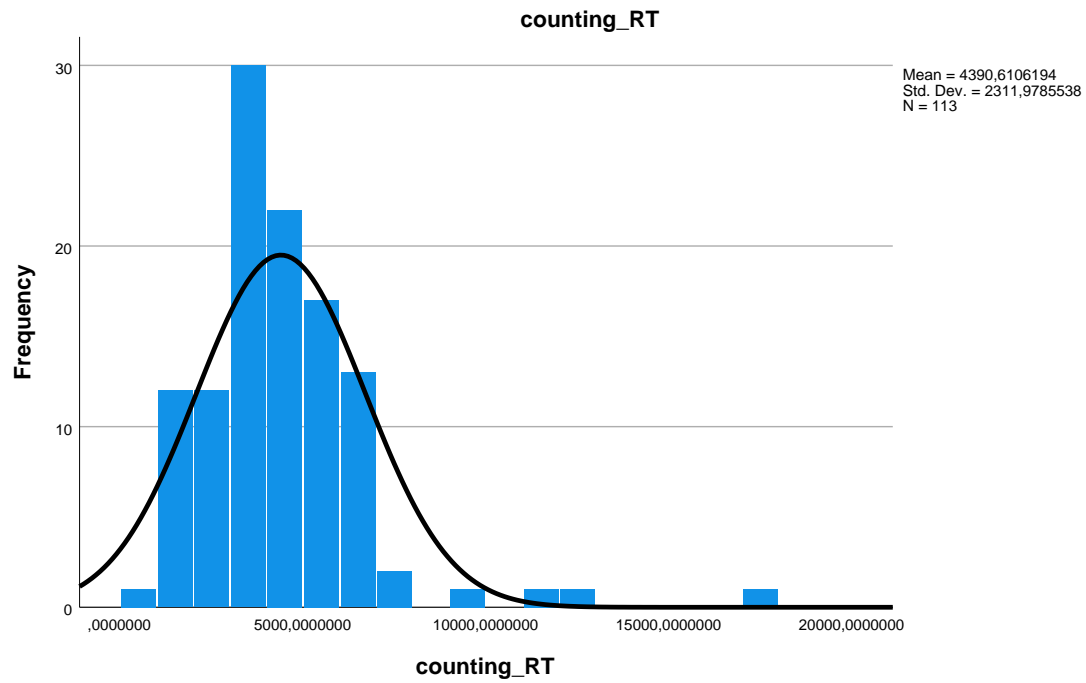




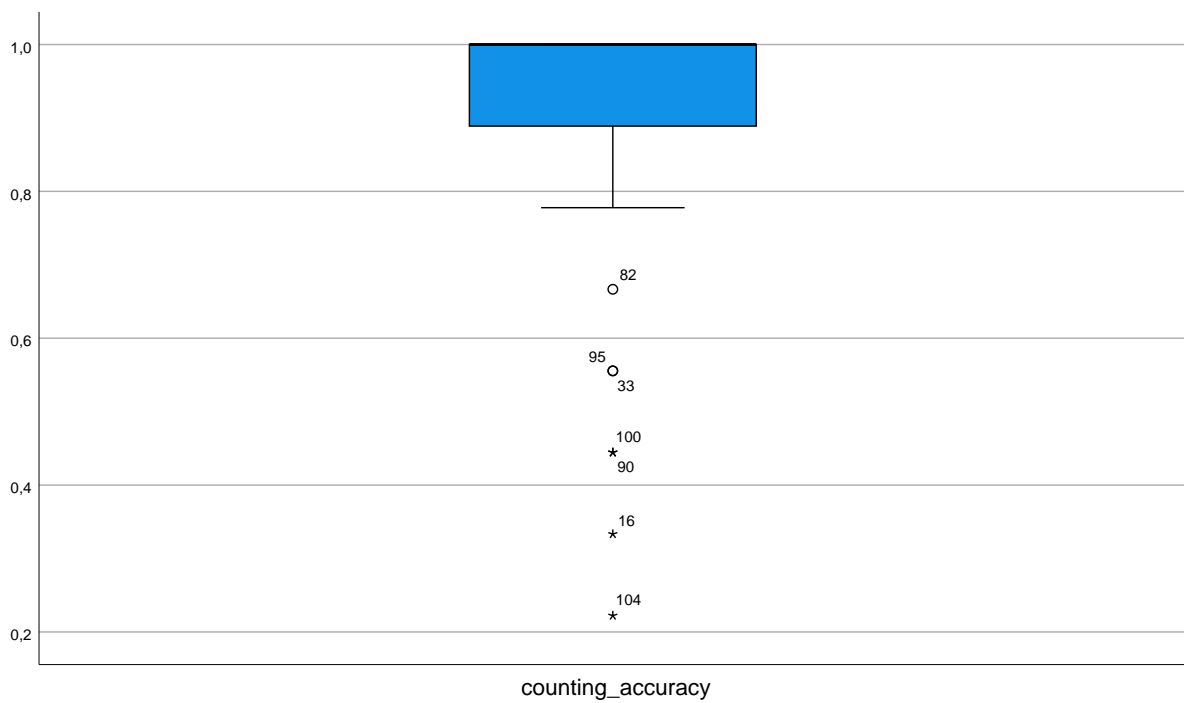
### counting\_RT

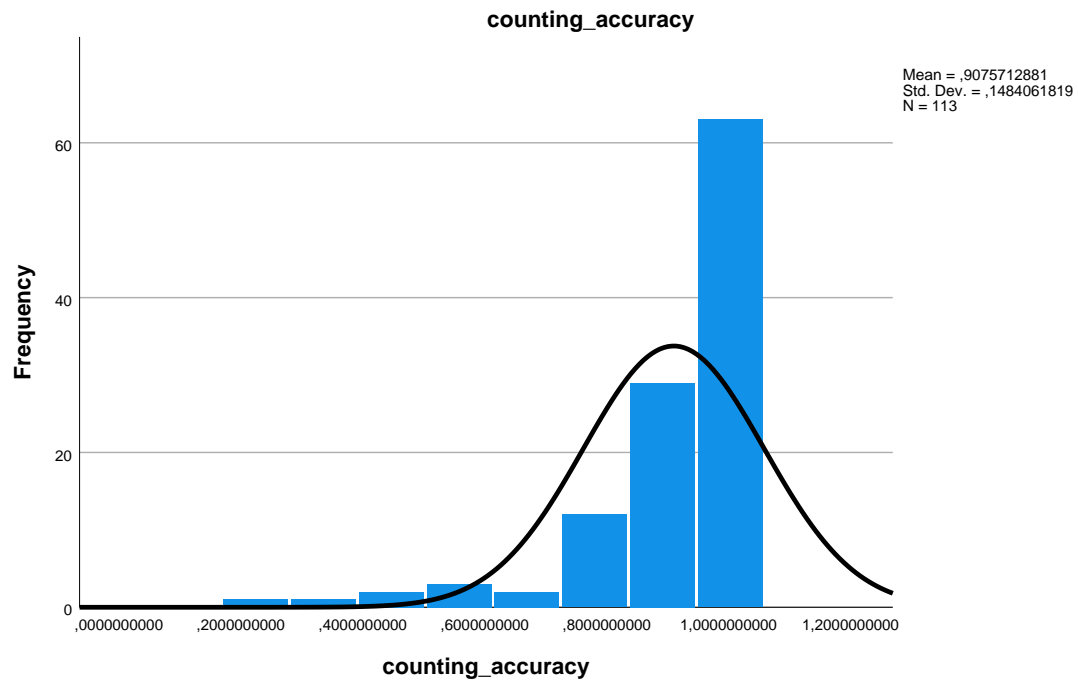




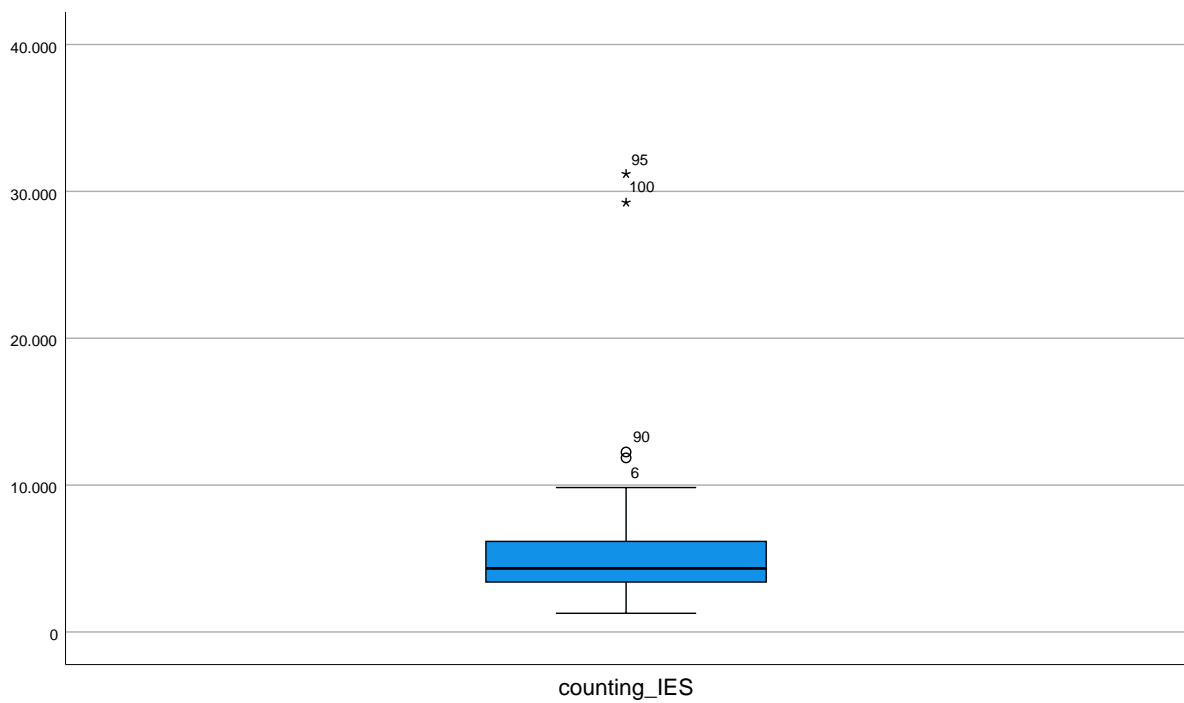


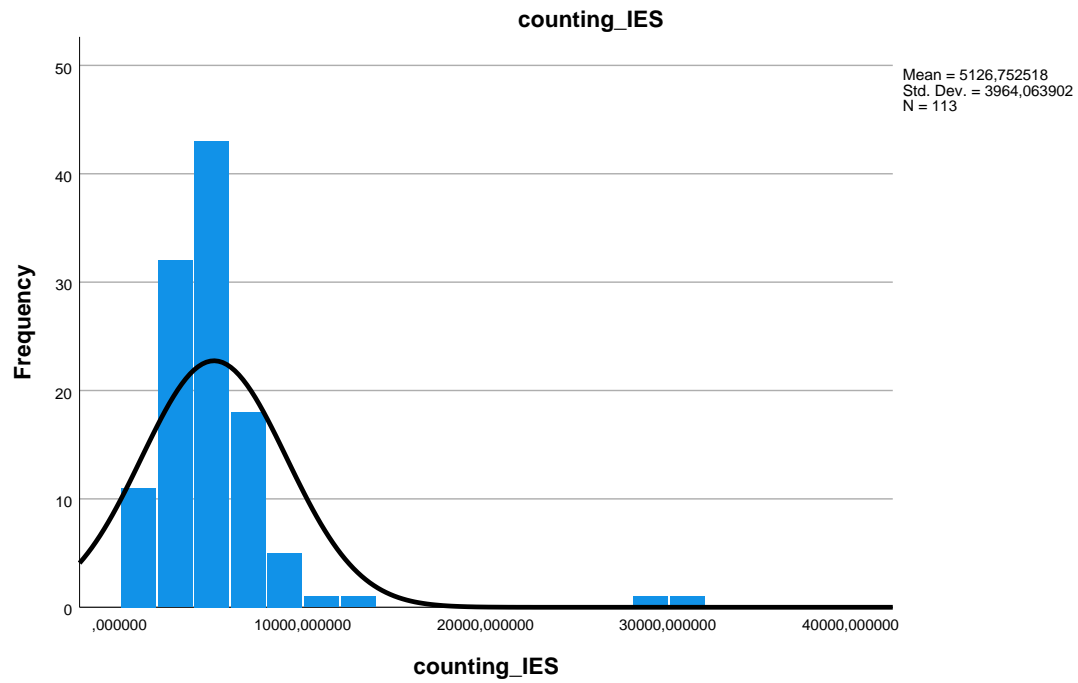
### counting\_accuracy



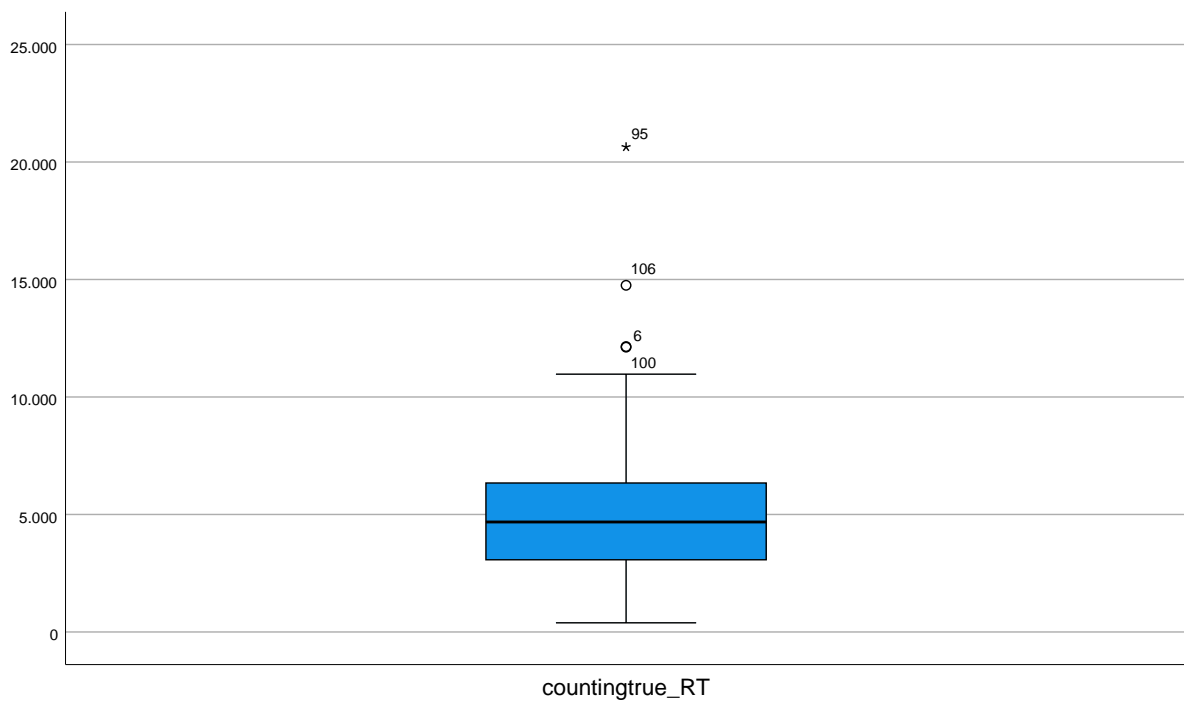


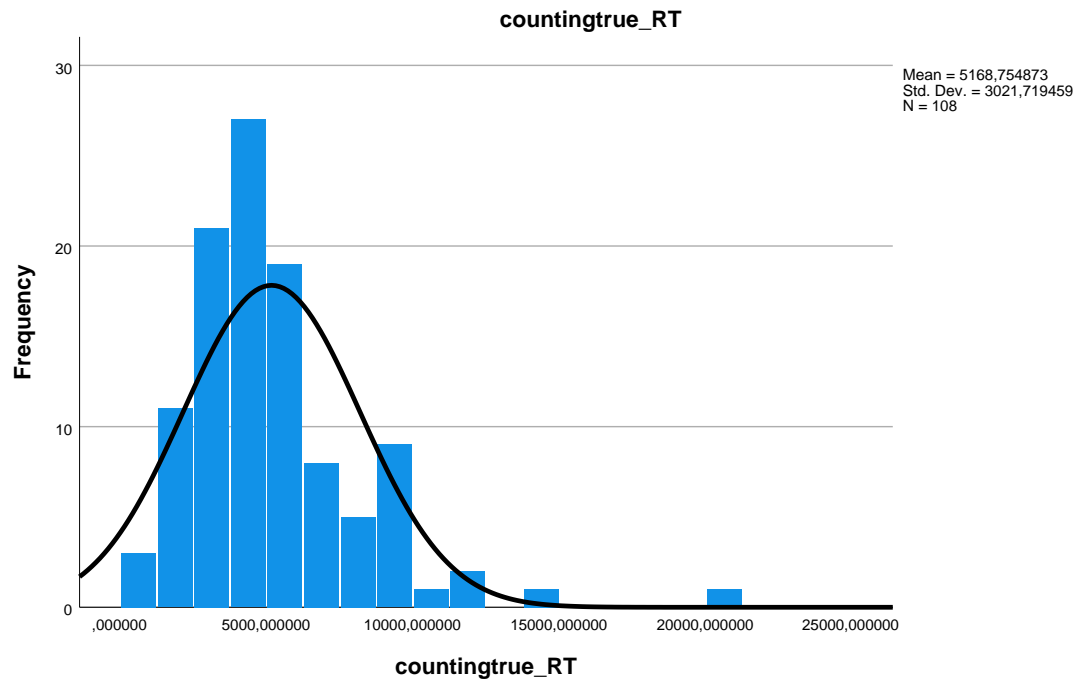
### counting\_IES



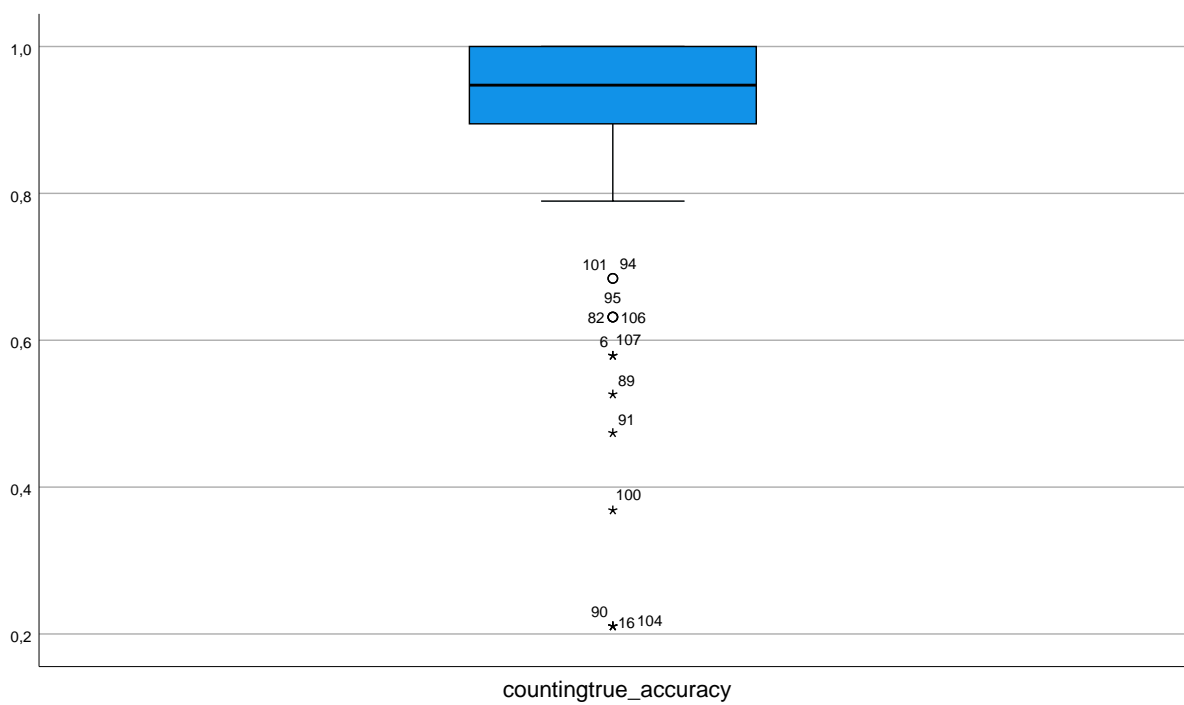


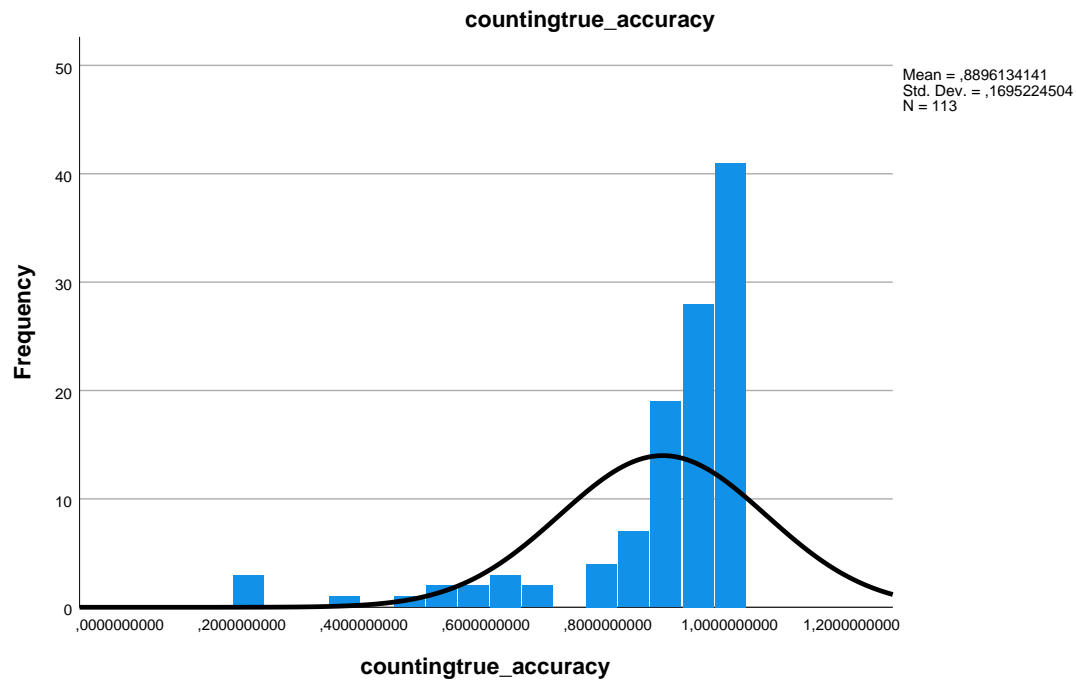
**countingtrue\_RT**



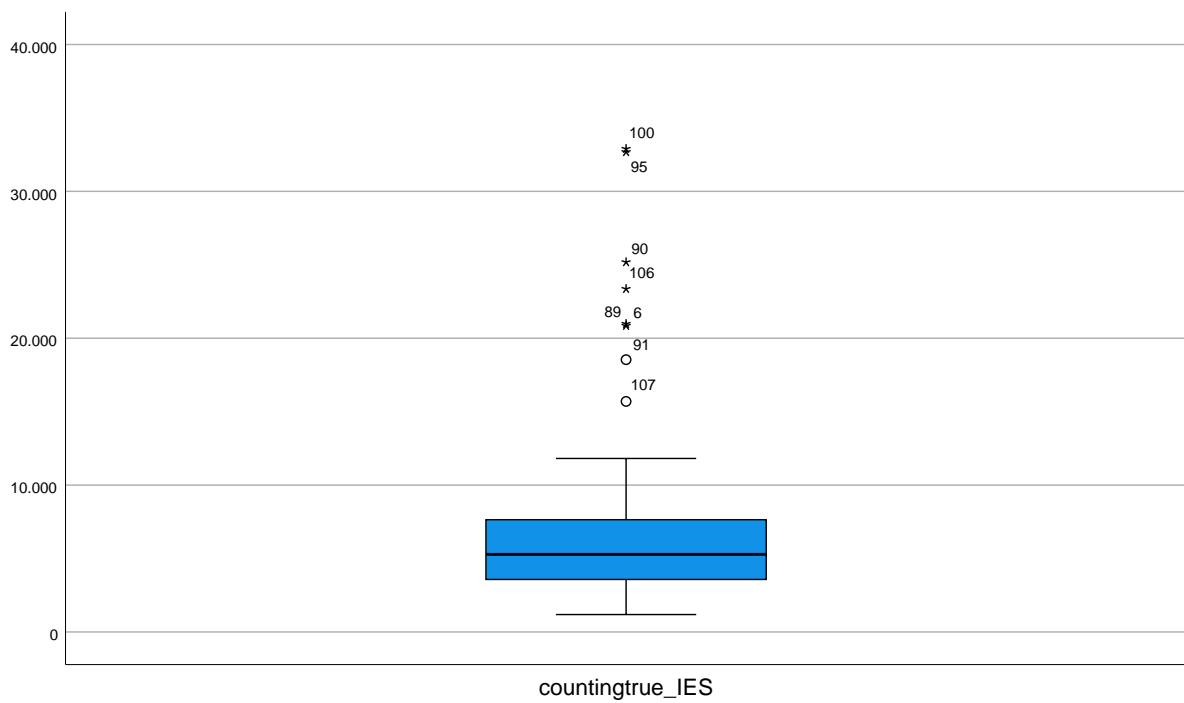


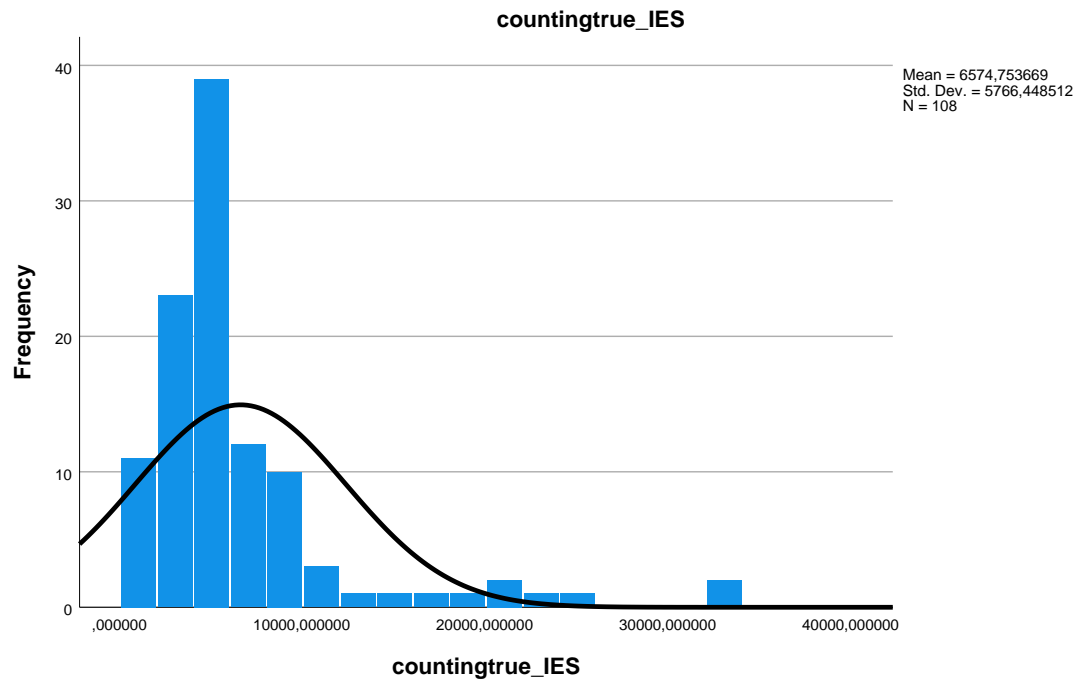
**countingtrue\_accuracy**



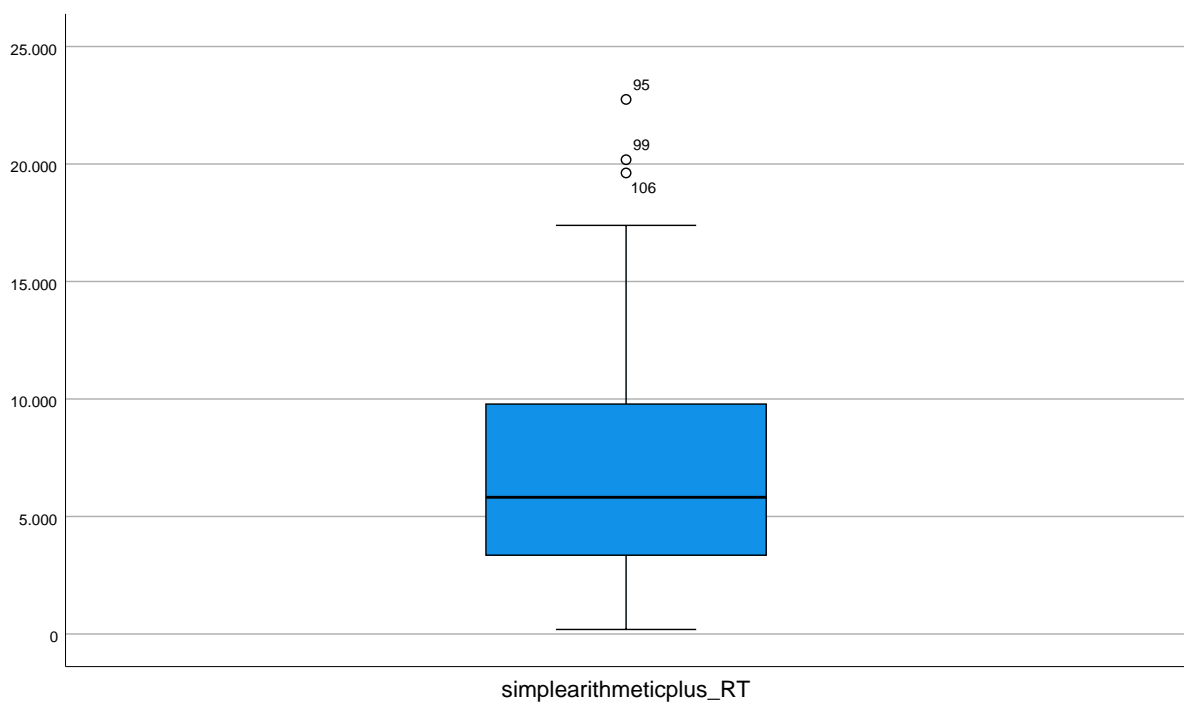


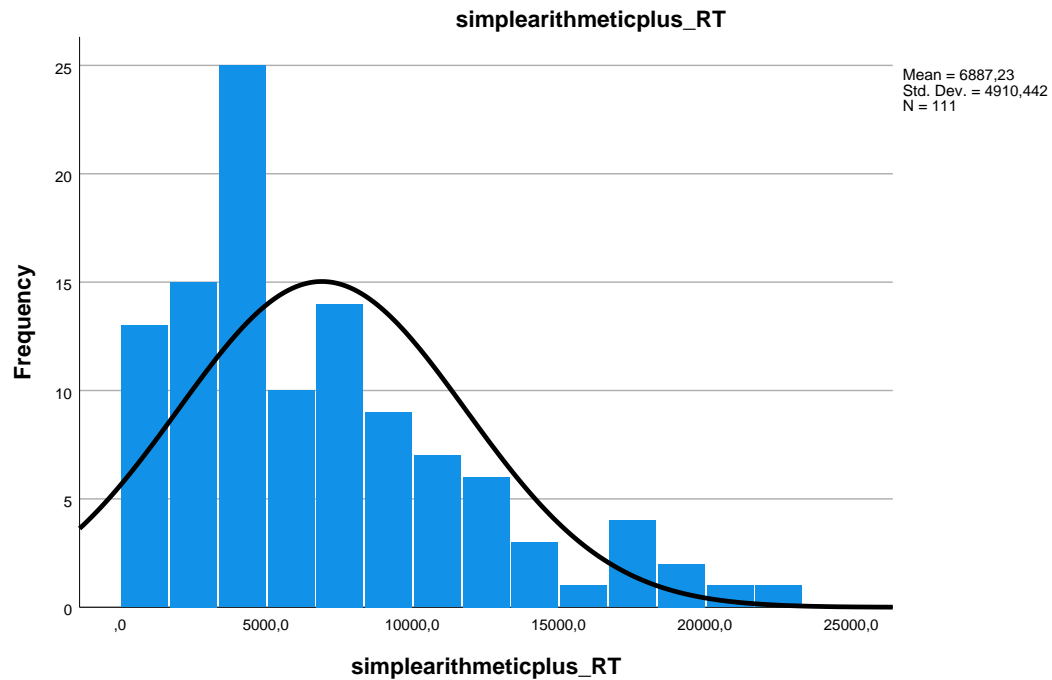
## countingtrue\_IES



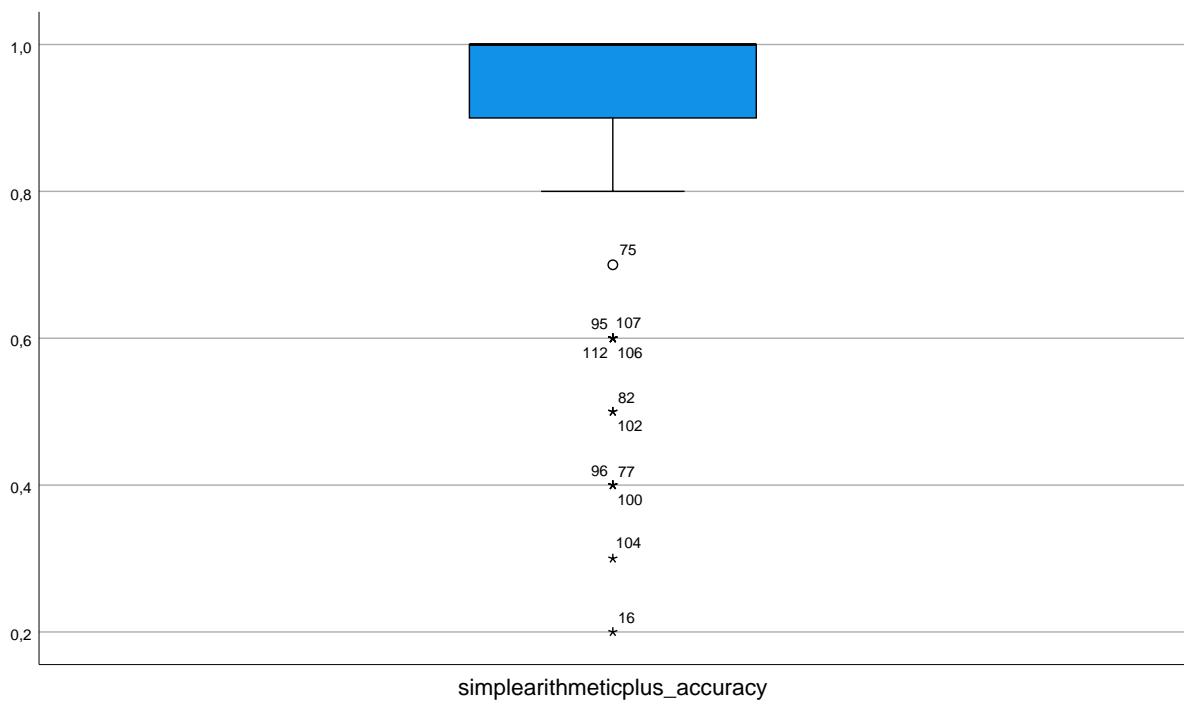


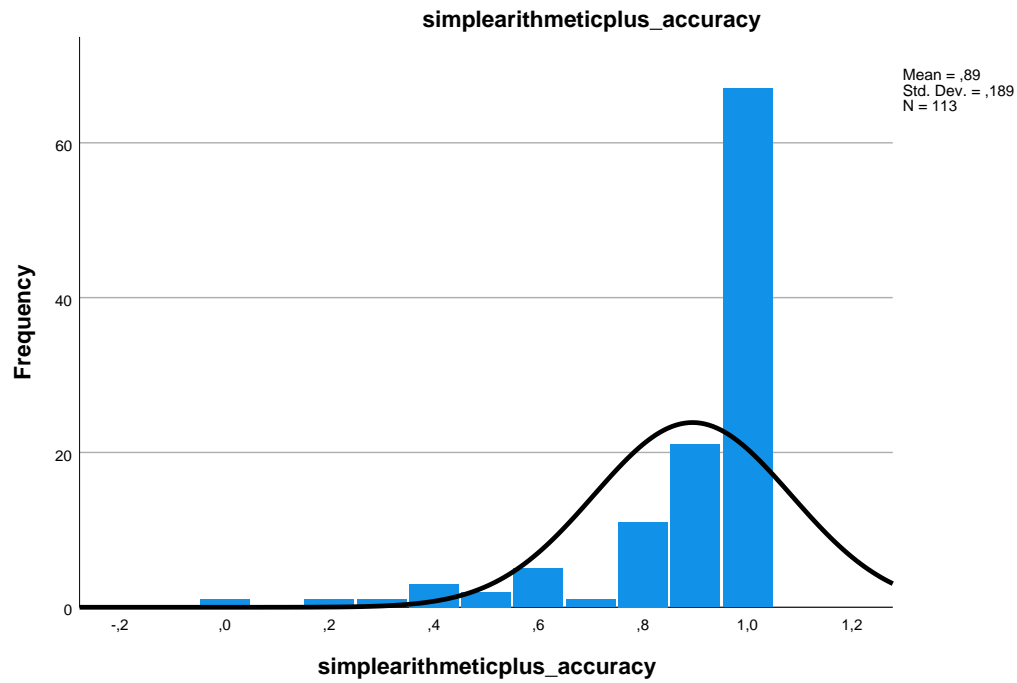
### simplearithmeticplus\_RT



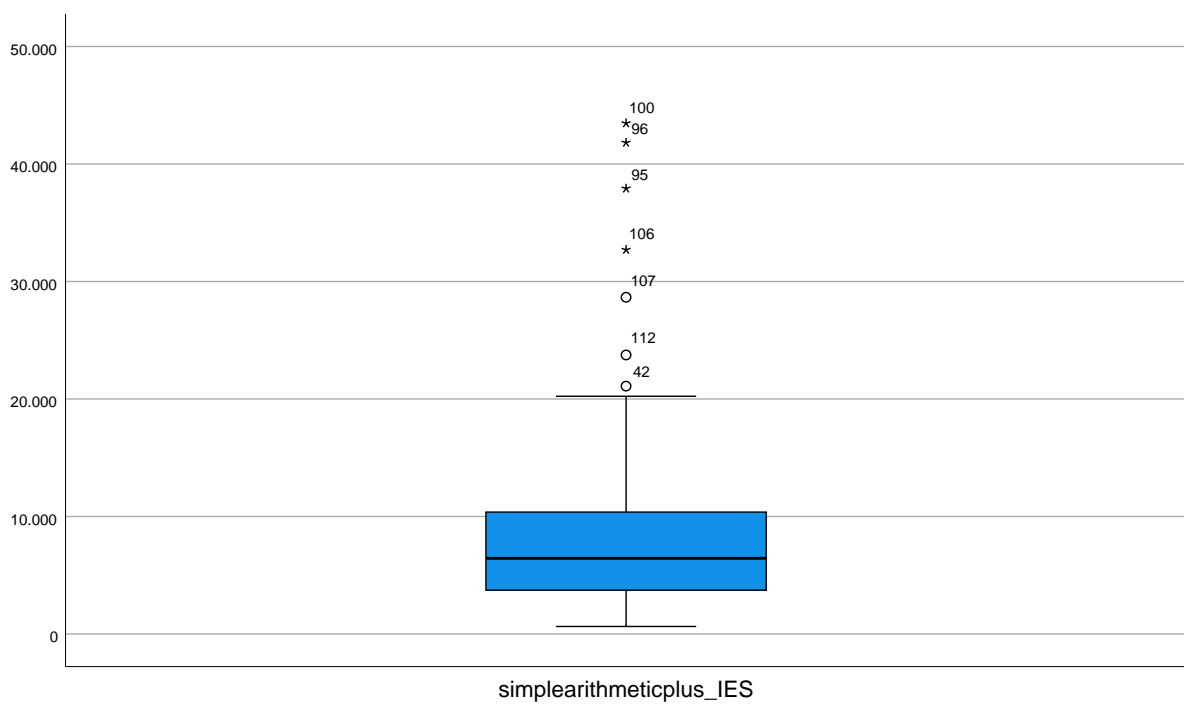


**simplearithmetiplus\_accuracy**

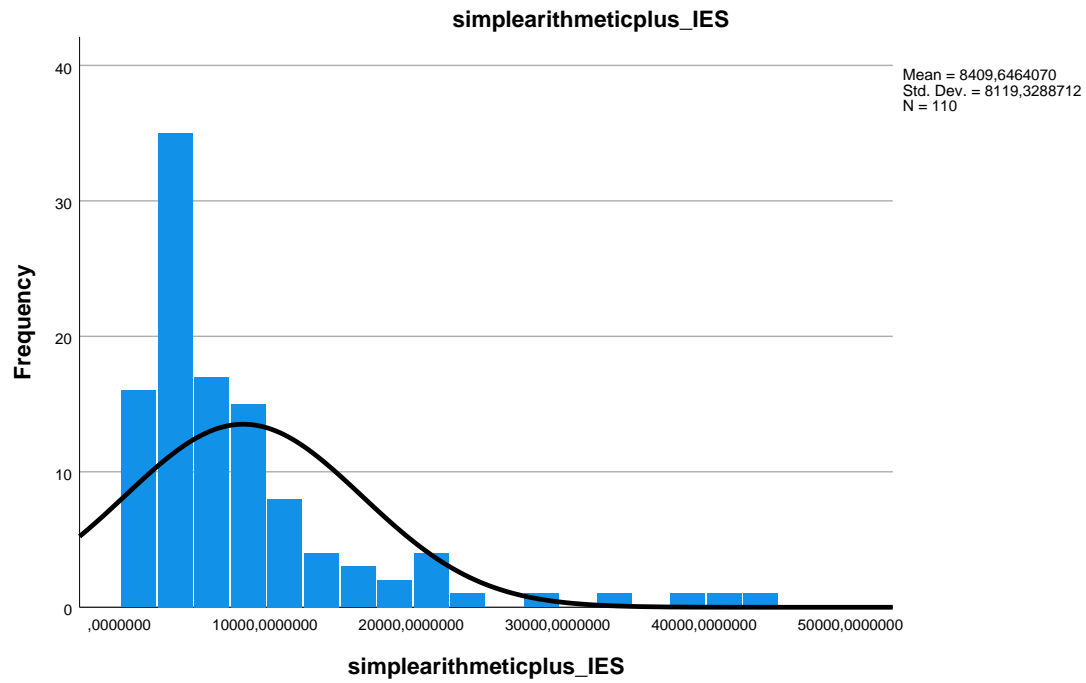




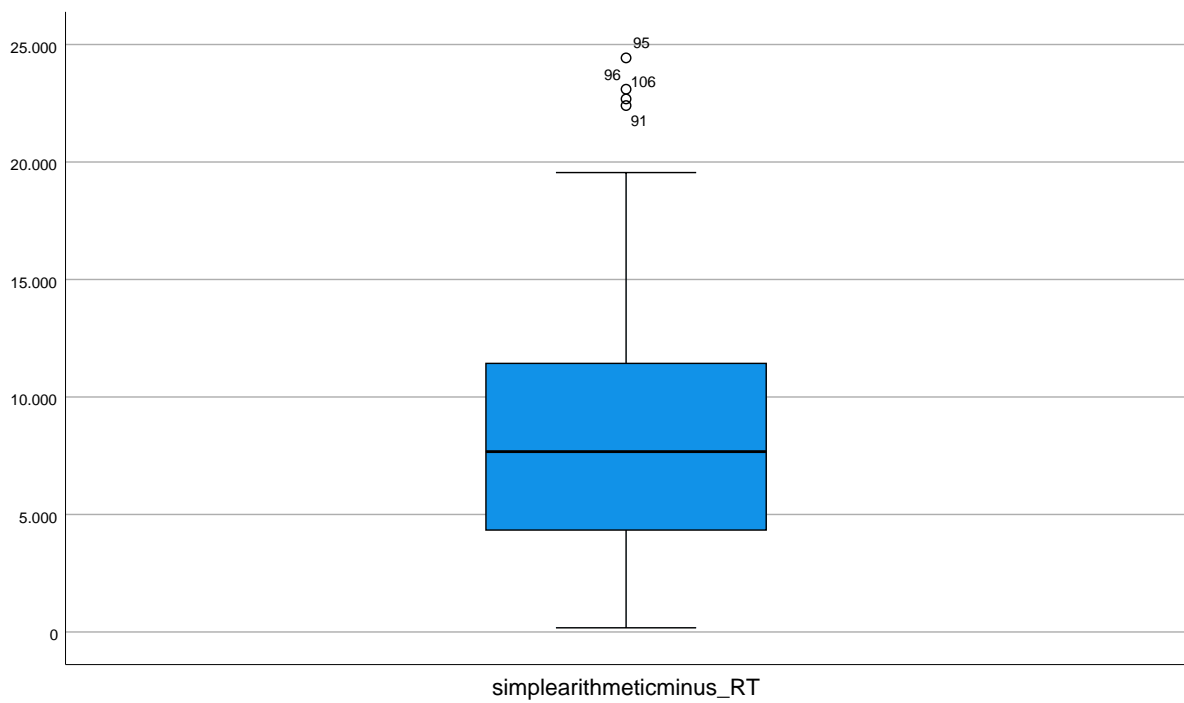
### simplearithmeticplus\_IES

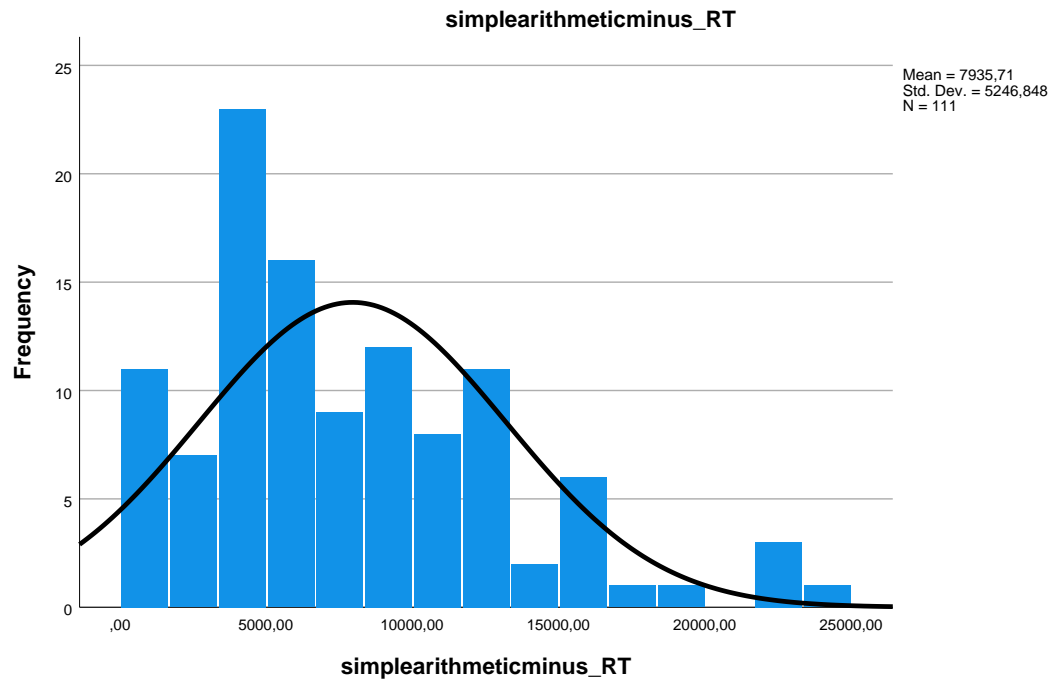




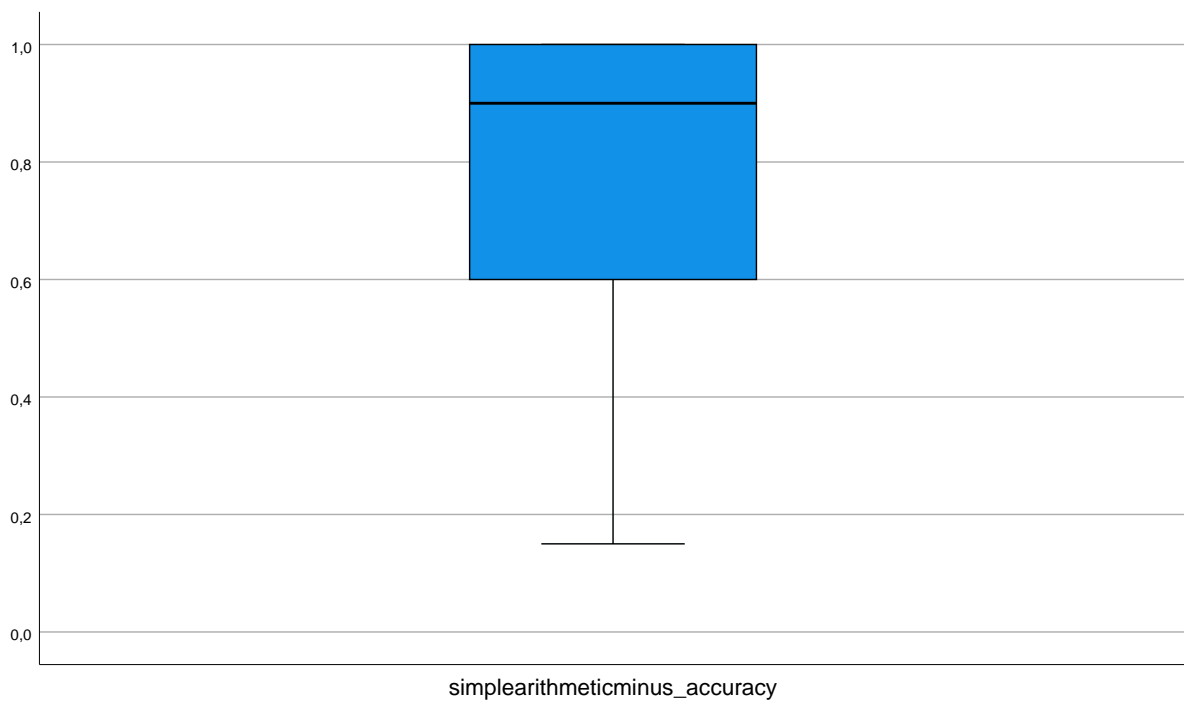


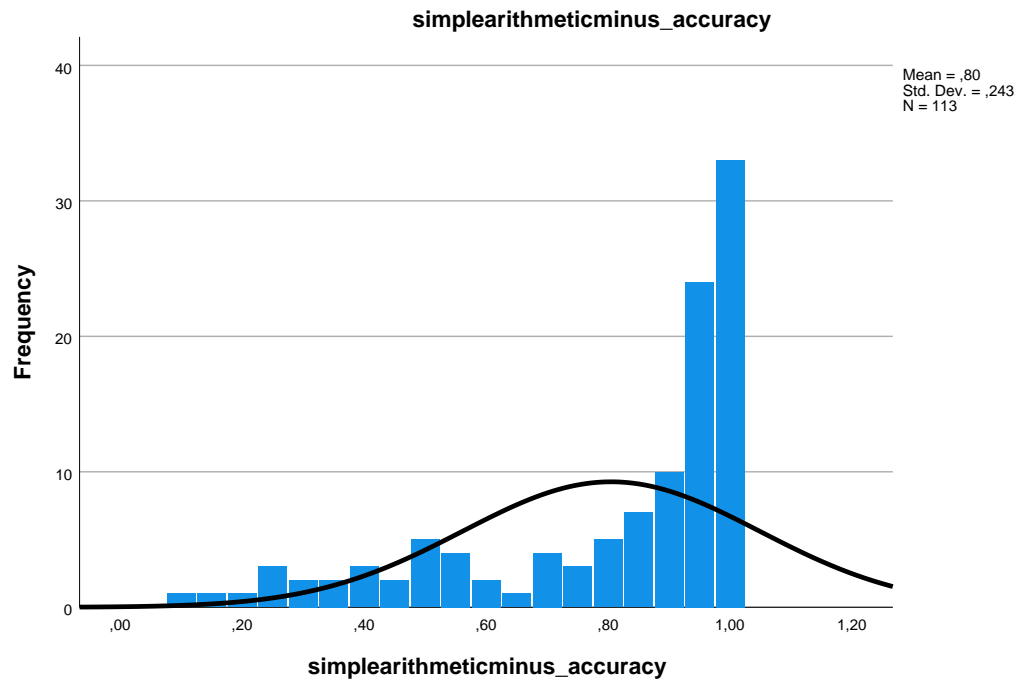
**simplearithmeticminus\_RT**





**simplearithmetictiminus\_accuracy**





### simplearithmetminus\_IES

