

```

EXAMINE VARIABLES=cUA BY group
/PLOT BOXPLOT NPLOT
/COMPARE GROUPS
/PERCENTILES(5,10,25,50,75,90,95) HAVERAGE
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

Explore

Notes

Output Created		01-NOV-2017 19:45:14
Comments		
Input	Data	C:\Users\Hao_Yu\Desktop\abcfspss.s
	Active Dataset	av
	Filter	数据集1
	Weight	<none>
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	N of Rows in Working Data	22
Missing Value Handling	File	
	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
Syntax	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
		<pre> EXAMINE VARIABLES=cUA BY group /PLOT BOXPLOT NPLOT /COMPARE GROUPS /PERCENTILES(5,10,25,50,75,90,95) HAVERAGE /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL. </pre>

Resources	Processor Time	00:00:01.36
	Elapsed Time	00:00:01.43

[数据集1] C:\Users\Hao_Yu\Desktop\abcfspss.sav

group

Case Processing Summary

group	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
1	5	100.0%	0	0.0%	5	100.0%
2	5	100.0%	0	0.0%	5	100.0%
cUA 3	3	100.0%	0	0.0%	3	100.0%
4	4	100.0%	0	0.0%	4	100.0%
5	5	100.0%	0	0.0%	5	100.0%

Descriptives

group	Statistic	Std. Error
cUA 1	Mean	109.3652
	95% Confidence Interval	
	for Mean	Lower Bound 59.2190
		Upper Bound 159.5114
	5% Trimmed Mean	108.1432
	Median	100.6210
	Variance	1631.050
	Std. Deviation	40.38626
	Minimum	73.03
	Maximum	167.69
	Range	94.66
	Interquartile Range	75.95
	Skewness	.738
Kurtosis	-.905	2.000

	Mean		60.5656	6.79339
	95% Confidence Interval for Mean	Lower Bound Upper Bound	41.7041 79.4271	
	5% Trimmed Mean		60.1727	
	Median		59.5450	
	Variance		230.751	
2	Std. Deviation		15.19049	
	Minimum		45.69	
	Maximum		82.51	
	Range		36.82	
	Interquartile Range		28.43	
	Skewness		.641	.913
	Kurtosis		-.671	2.000
	Mean		147.0662	14.53463
	95% Confidence Interval for Mean	Lower Bound Upper Bound	84.5288 209.6036	
	5% Trimmed Mean		.	
	Median		135.4845	
	Variance		633.766	
3	Std. Deviation		25.17471	
	Minimum		129.77	
	Maximum		175.95	
	Range		46.18	
	Interquartile Range		.	
	Skewness		1.632	1.225
	Kurtosis		.	.
	Mean		83.5115	5.28513
	95% Confidence Interval for Mean	Lower Bound Upper Bound	66.6918 100.3311	
	5% Trimmed Mean		83.8051	
	Median		86.1542	
	Variance		111.731	
4	Std. Deviation		10.57027	
	Minimum		69.02	
	Maximum		92.72	
	Range		23.69	
	Interquartile Range		19.59	
	Skewness		-1.137	1.014

	Kurtosis		.602	2.619
	Mean		75.1460	3.13012
	95% Confidence Interval	Lower Bound	66.4554	
	for Mean	Upper Bound	83.8366	
	5% Trimmed Mean		74.9961	
	Median		71.9383	
	Variance		48.988	
5	Std. Deviation		6.99916	
	Minimum		67.93	
	Maximum		85.06	
	Range		17.13	
	Interquartile Range		12.76	
	Skewness		.720	.913
	Kurtosis		-1.170	2.000

Percentiles

		group	Percentiles			
			5	10	25	50
Weighted Average(Definition 1)	cUA	1	73.0318	73.0318	73.5786	100.6210
		2	45.6936	45.6936	46.6048	59.5450
		3	129.7667	129.7667	129.7667	135.4845
		4	69.0222	69.0222	72.3939	86.1542
		5	67.9287	67.9287	69.5690	71.9383
Tukey's Hinges	cUA	1			74.1254	100.6210
		2			47.5161	59.5450
		3			132.6256	135.4845
		4			75.7656	86.1542
		5			71.2093	71.9383

Percentiles

		group	Percentiles		
			75	90	95
Weighted Average(Definition 1)	cUA	1	149.5239	.	.
		2	75.0366	.	.
		3	.	.	.
		4	91.9863	.	.
		5	82.3268	.	.

		1	131.3534	
		2	67.5642	
Tukey's Hinges	cUA	3	155.7160	
		4	91.2573	
		5	79.5930	

Tests of Normality

group	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
1	.209	5	.200*	.902	5	.423
2	.205	5	.200*	.931	5	.600
cUA 3	.344	3	.	.841	3	.217
4	.224	4	.	.913	4	.500
5	.277	5	.200*	.918	5	.515

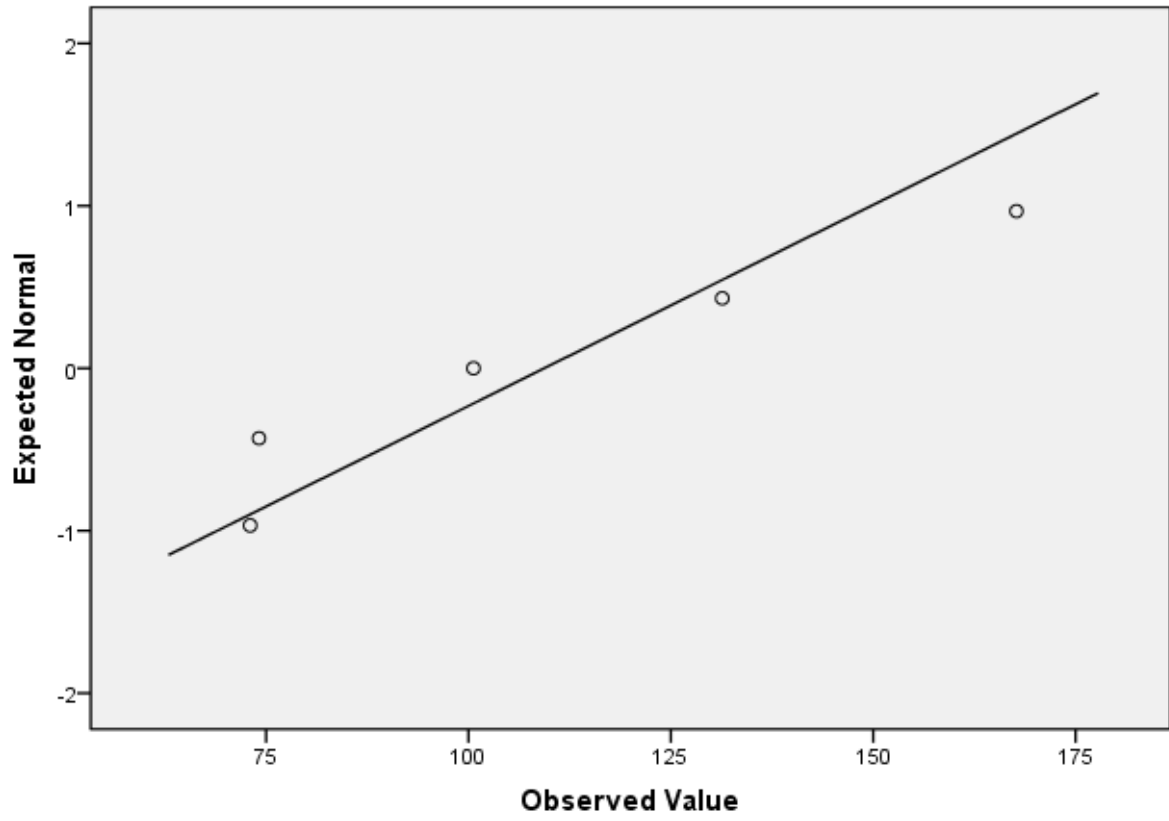
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

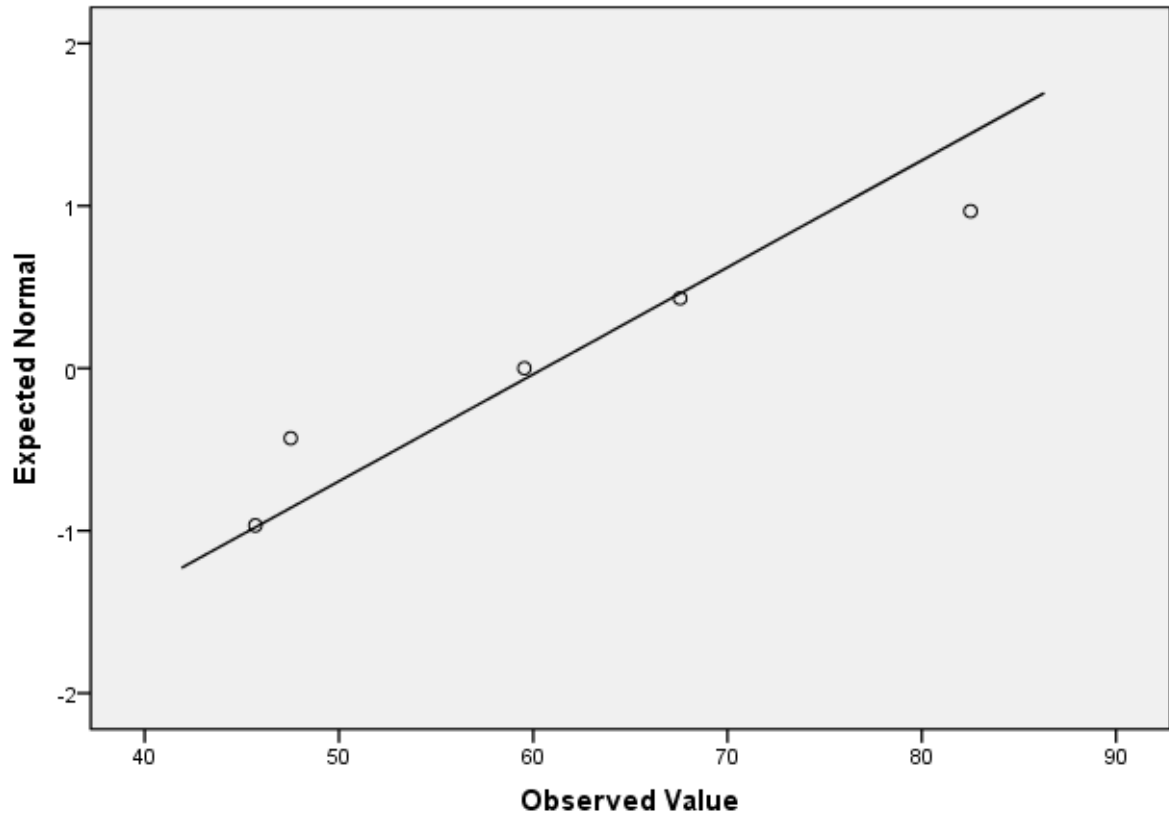
cUA

Normal Q-Q Plots

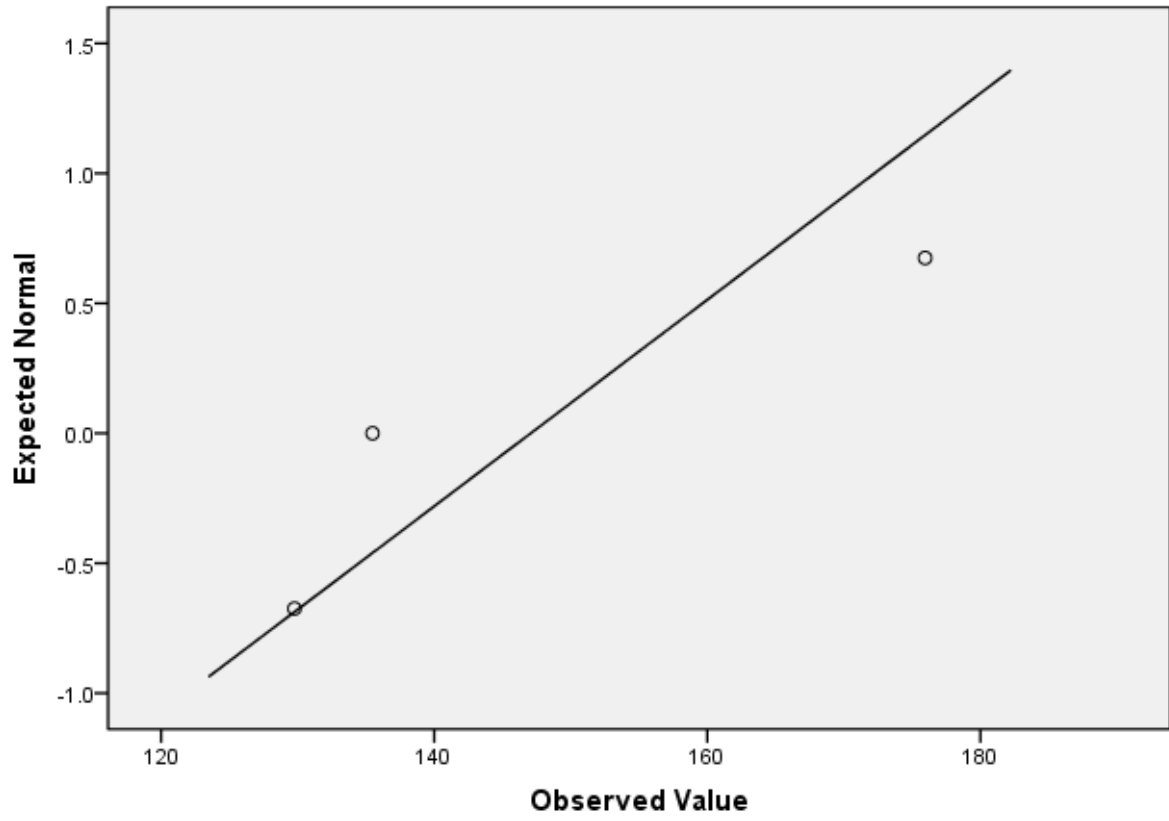
Normal Q-Q Plot of cUA
for group= 1



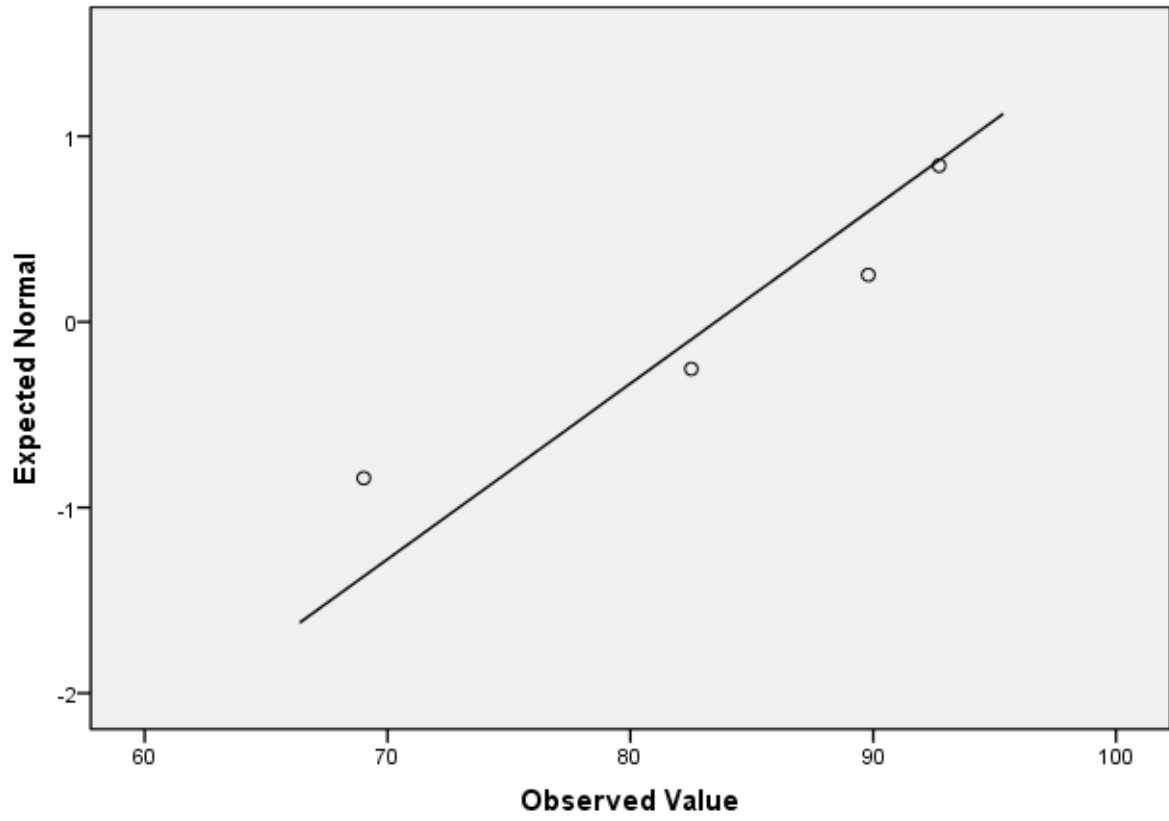
Normal Q-Q Plot of cUA
for group= 2

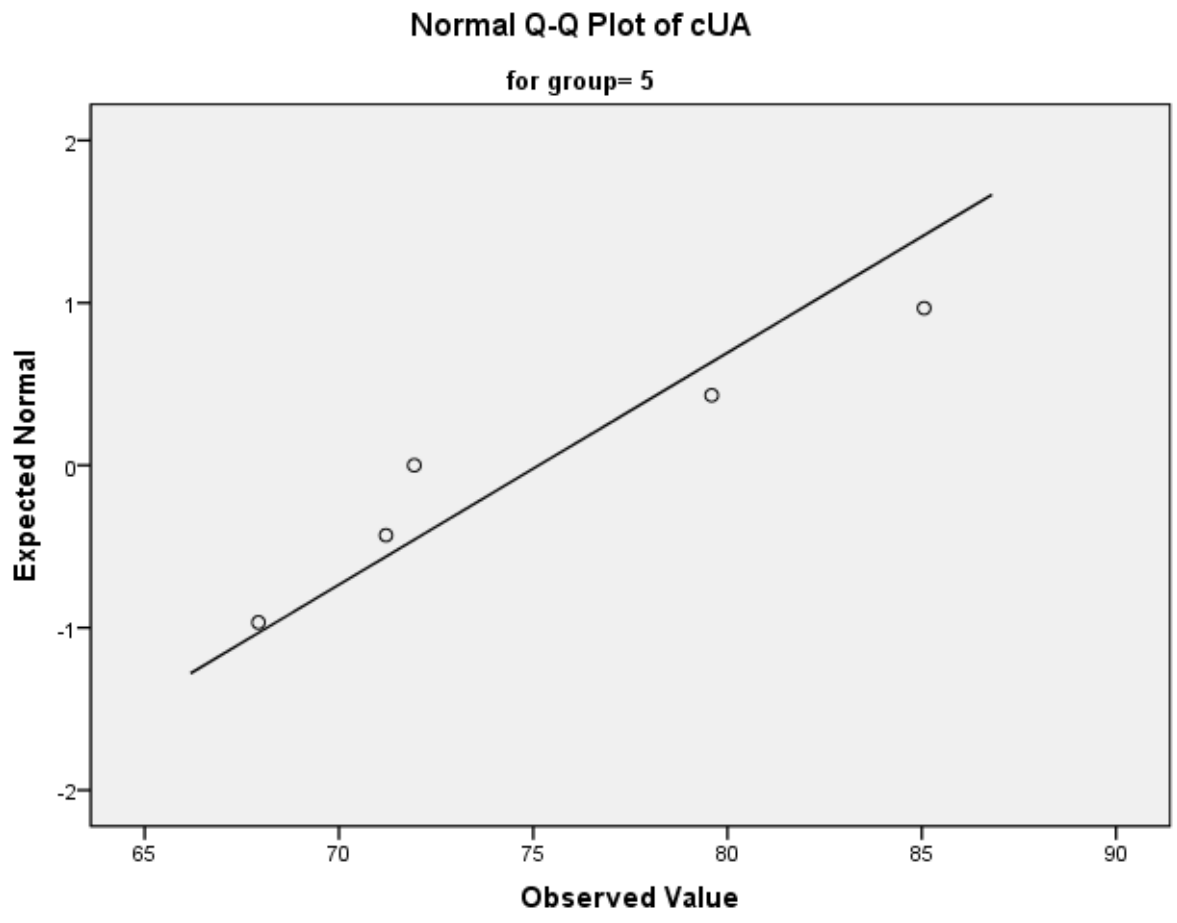


Normal Q-Q Plot of cUA
for group= 3



Normal Q-Q Plot of cUA
for group= 4

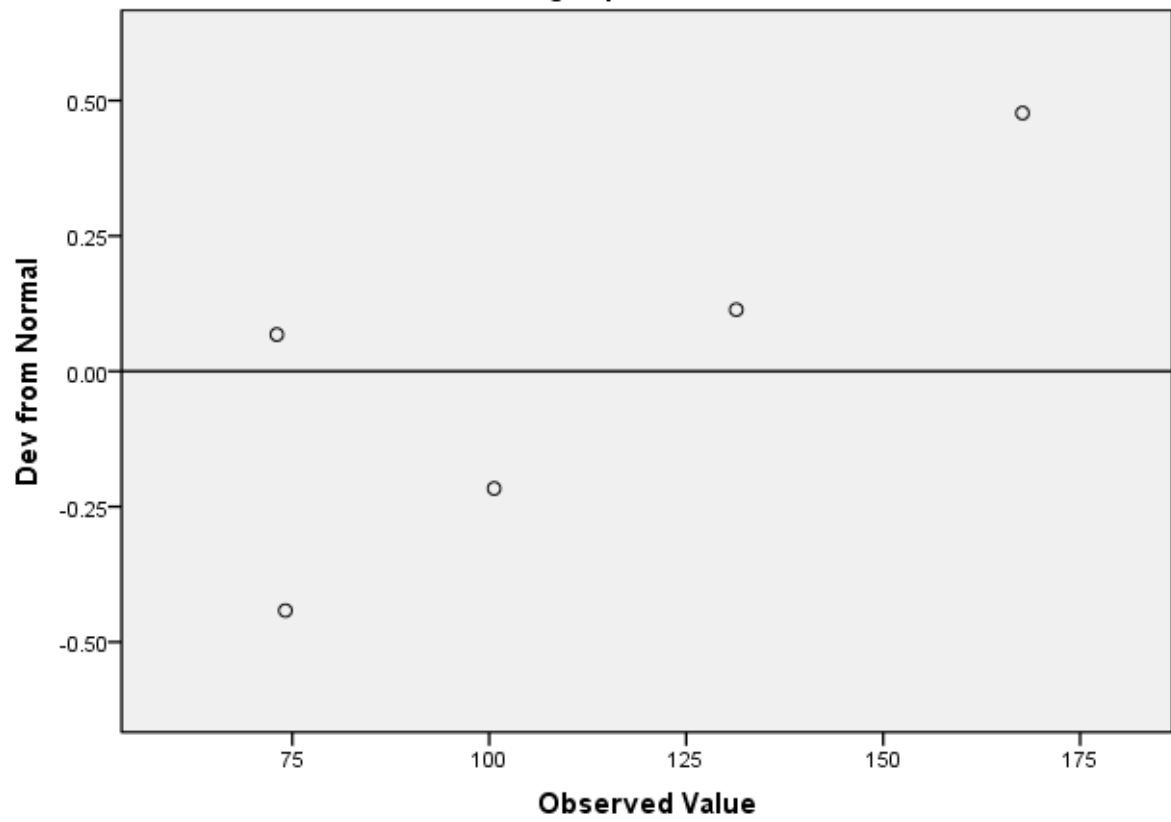




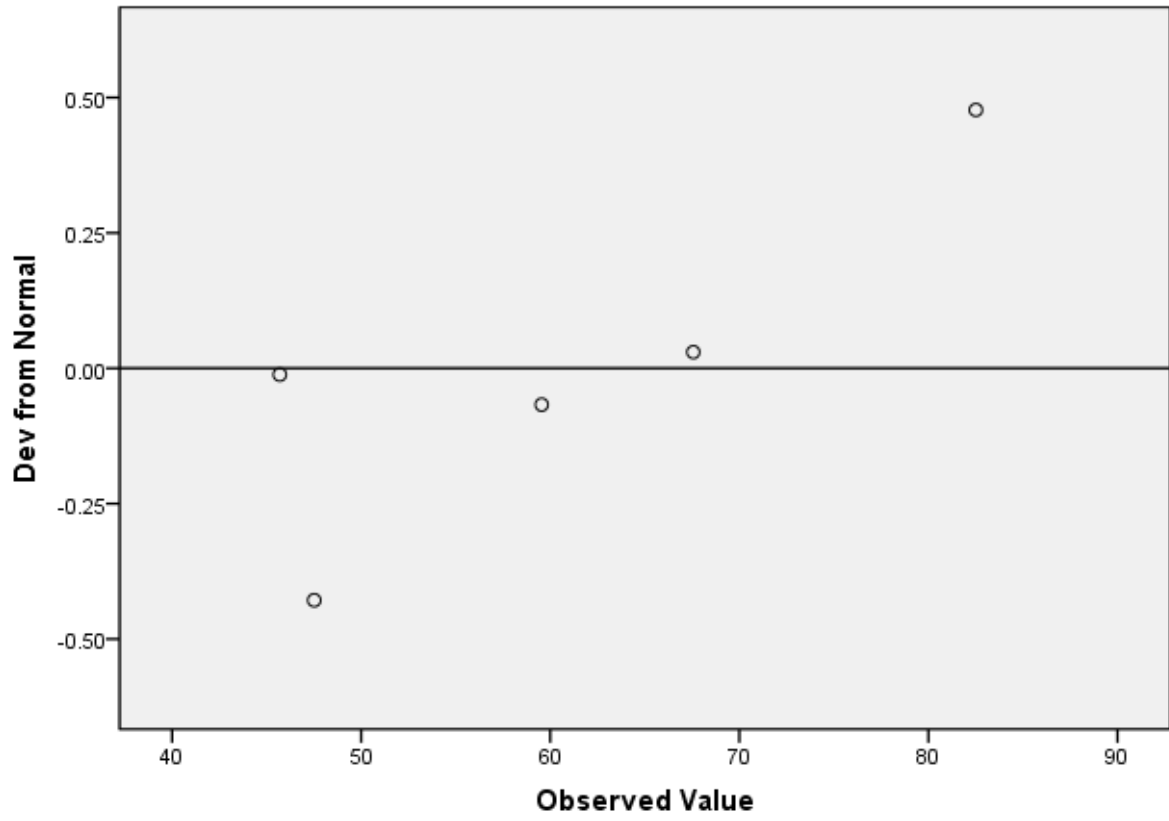
Detrended Normal Q-Q Plots

Detrended Normal Q-Q Plot of cUA

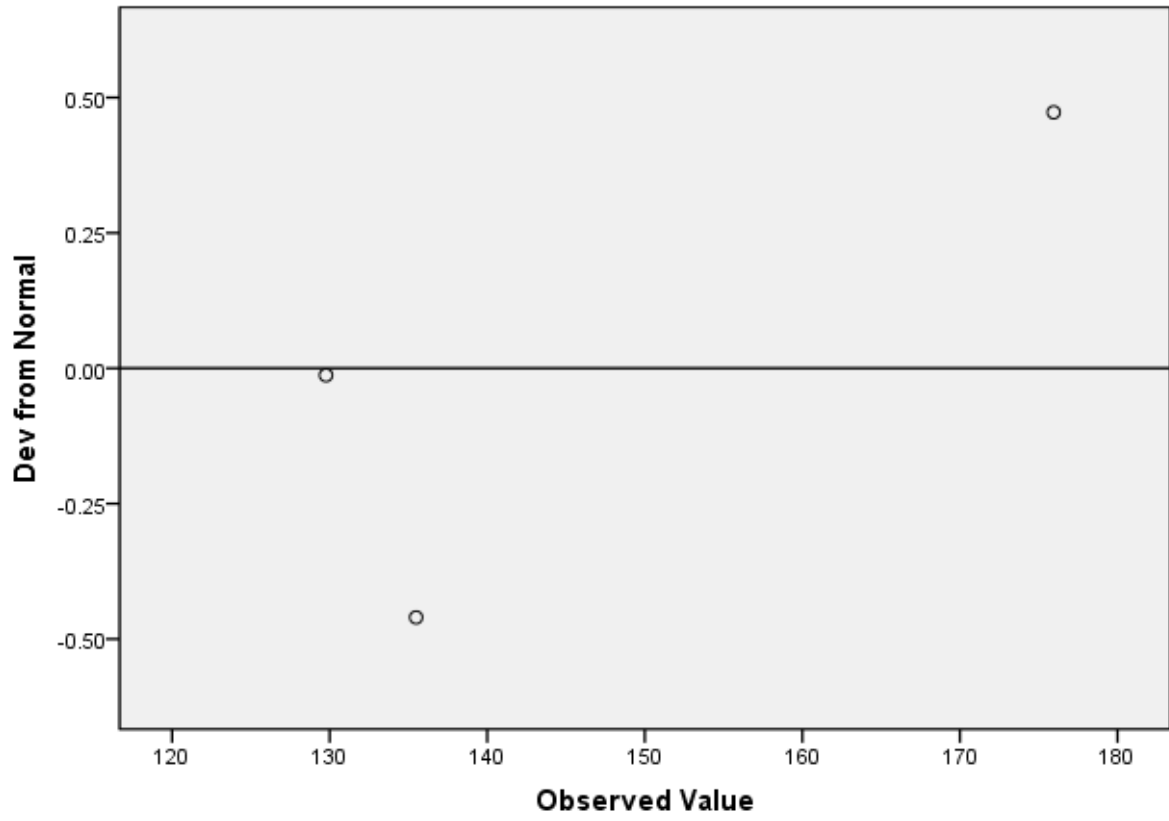
for group= 1



Detrended Normal Q-Q Plot of cUA
for group= 2

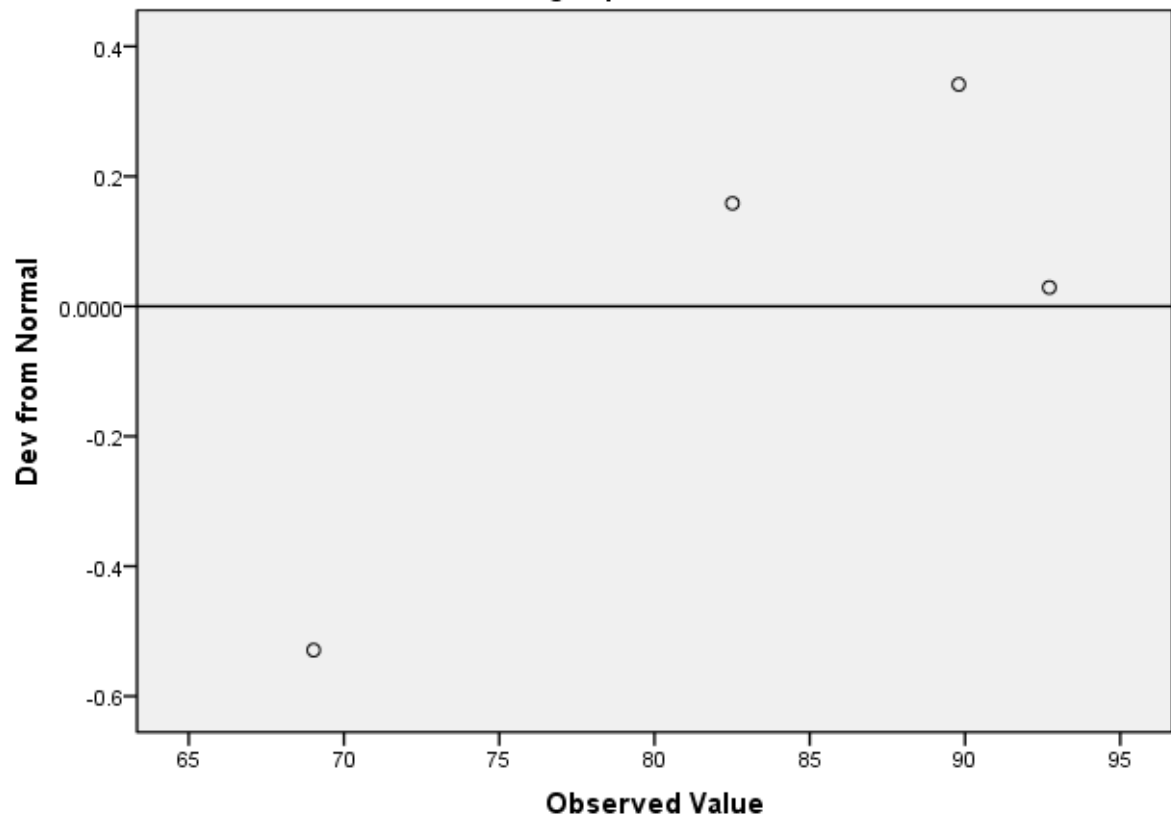


Detrended Normal Q-Q Plot of cUA
for group= 3

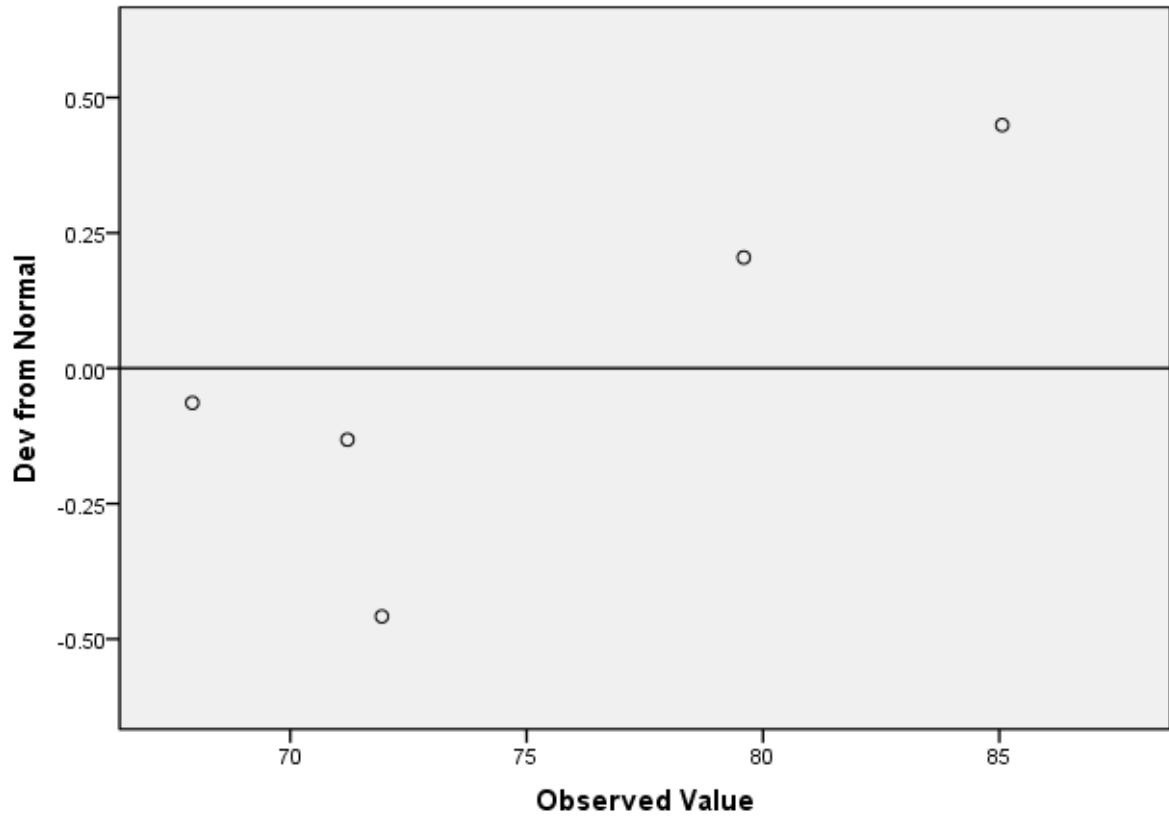


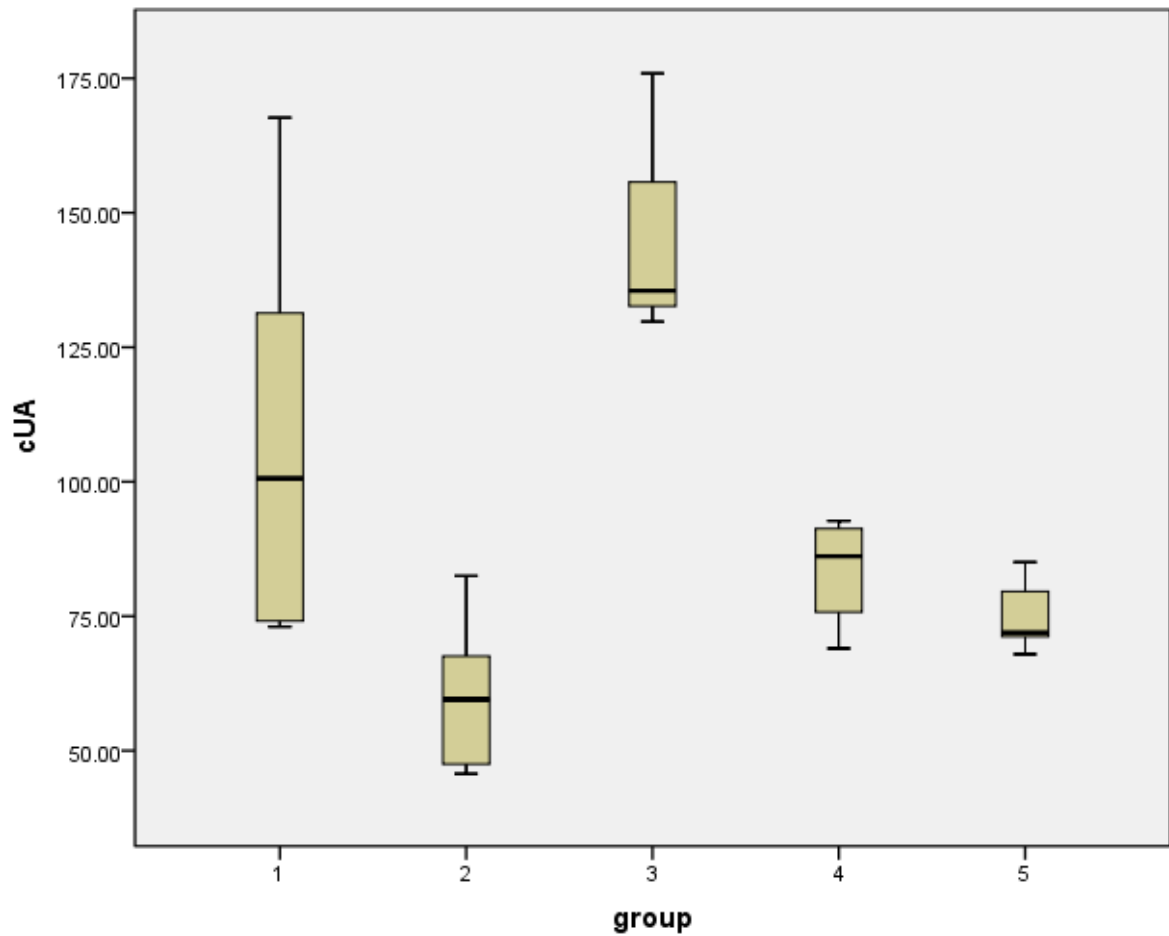
Detrended Normal Q-Q Plot of cUA

for group= 4



Detrended Normal Q-Q Plot of cUA
for group= 5





ONEWAY cUA BY group
 /STATISTICS HOMOGENEITY
 /MISSING ANALYSIS.

Oneway

Notes

Output Created	01-NOV-2017 19:56:12	
Comments		
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		<none>

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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 cUA BY group /STATISTICS HOMOGENEITY /MISSING ANALYSIS.	
Resources	Processor Time		00:00:00.00
	Elapsed Time		00:00:00.01

[数据集1] C:\Users\Hao_Yu\Desktop\abcfspss.sav

Test of Homogeneity of Variances

cUA

Levene Statistic	df1	df2	Sig.
4.964	4	17	.008

ANOVA

cUA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17228.904	4	4307.226	7.920	.001
Within Groups	9245.880	17	543.875		
Total	26474.785	21			

*Nonparametric Tests: Independent Samples.

NPTESTS

/INDEPENDENT TEST (cUA) GROUP (group) KRUSKAL_WALLIS(COMPARE=STEPWISE)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

Nonparametric Tests

Notes

Output Created	01-NOV-2017 19:58:08
Comments	
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Syntax	NPTESTS /INDEPENDENT TEST (cUA) GROUP (group) KRUSKAL_WALLIS(COMPARE=STEP WISE) /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE /CRITERIA ALPHA=0.05 CILEVEL=95.
Resources	Processor Time 00:00:00.03 Elapsed Time 00:00:00.04

[数据集1] C:\Users\Hao_Yu\Desktop\abcfspss.sav

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of cUA is the same across categories of group.	Independent-Samples Kruskal-Wallis Test	.009	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

*Nonparametric Tests: Independent Samples.

NPTESTS

/INDEPENDENT TEST (cUA) GROUP (group) KRUSKAL_WALLIS(COMPARE=STEPWISE)

/MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE

/CRITERIA ALPHA=0.05 CILEVEL=95.

Notes

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Weight	<none>
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N of Rows in Working Data	22
File	
Syntax	NPTESTS /INDEPENDENT TEST (cUA) GROUP (group) KRUSKAL_WALLIS(COMPARE=STEP WISE) /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE /CRITERIA ALPHA=0.05 CILEVEL=95.
Resources	
Processor Time	00:00:00.06
Elapsed Time	00:00:00.04

Homogeneous Subsets based on cUA

		Subset		
		1	2	3
Sample ¹	2.000	4.500		
	5.000	9.000	9.000	
	4.000		12.375	12.375
	1.000		15.200	15.200
	3.000			20.000
Test Statistic		3.153	3.883	4.754
Sig. (2-sided test)		.076	.143	.093
Adjusted Sig. (2-sided test)		.179	.228	.150

Homogeneous subsets are based on asymptotic significances. The significance level is .05.

¹Each cell shows the sample average rank of cUA.