```
GET
  FILE='C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
DESCRIPTIVES VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /SAVE
  /STATISTICS=MEAN STDDEV MIN MAX.
```

Descriptives

Notes

Output Created		15-SEP-2022 14:11:43
Comments		
Input	Data	C:\DBA\research paper,\German med paper\statistics\110 spss data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /SAVE /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
Variables Created or Modified	ZMDR1	Zscore(MDR1)
	ZMDR2	Zscore(MDR2)
	ZMDR3	Zscore(MDR3)
	ZMDR4	Zscore(MDR4)
	ZMDR5	Zscore(MDR5)
	ZMDR6	Zscore(MDR6)
	ZMDR7	Zscore(MDR7)
	ZMDR8	Zscore(MDR8)

ZMDR9	Zscore(MDR9)
ZMDR11	Zscore(MDR11)

```
[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav
```

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MDR1	110	1.0	5.0	4.067	.8690
MDR2	110	1.0	5.0	2.048	.7123
MDR3	110	1.0	5.0	2.400	.8727
MDR4	110	1.0	5.0	1.762	.6867
MDR5	110	1.0	5.0	2.476	.8781
MDR6	110	1.0	5.0	2.133	.8668
MDR7	110	1.0	5.0	1.619	.8479
MDR8	110	1.0	5.0	2.048	.6561
MDR9	110	1.0	5.0	3.029	1.2126
MDR11	110	1.0	5.0	2.019	.9998
Valid N (listwise)	110				

```
EXAMINE VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		15-SEP-2022 14:15:46
Comments		
Input	Data	C:\DBA\research paper,\German med paper\statistics\110 spss data.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>

	Split File	<none>
	N of Rows in Working Data File	110
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.
Syntax		EXAMINE VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /PLOT BOXPLOT STEMLEAF NPPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:04.52
	Elapsed Time	00:00:04.11

[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss data.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
MDR1	110	100.0%	0	0.0%	110	100.0%
MDR2	110	100.0%	0	0.0%	110	100.0%
MDR3	110	100.0%	0	0.0%	110	100.0%
MDR4	110	100.0%	0	0.0%	110	100.0%
MDR5	110	100.0%	0	0.0%	110	100.0%
MDR6	110	100.0%	0	0.0%	110	100.0%
MDR7	110	100.0%	0	0.0%	110	100.0%
MDR8	110	100.0%	0	0.0%	110	100.0%
MDR9	110	100.0%	0	0.0%	110	100.0%
MDR11	110	100.0%	0	0.0%	110	100.0%

Descriptives

			Statistic	Std. Error
MDR1	Mean		4.067	.0848
	95% Confidence Interval for Mean	Lower Bound	3.898	
		Upper Bound	4.235	
	5% Trimmed Mean		4.161	
	Median		4.000	
	Variance		.755	
	Std. Deviation		.8690	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		1.0	
	Skewness		-1.565	.236
	Kurtosis		3.500	.467
MDR2	Mean		2.048	.0695
	95% Confidence Interval for Mean	Lower Bound	1.910	
		Upper Bound	2.185	
	5% Trimmed Mean		1.987	
	Median		2.000	
	Variance		.507	
	Std. Deviation		.7123	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		.0	
	Skewness		1.396	.236
	Kurtosis		3.817	.467
MDR3	Mean		2.400	.0852
	95% Confidence Interval for Mean	Lower Bound	2.231	
		Upper Bound	2.569	
	5% Trimmed Mean		2.378	
	Median		2.000	
	Variance		.762	
	Std. Deviation		.8727	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		1.0	
	Skewness		.535	.236

	Kurtosis		-.009	.467
	Mean		1.762	.0670
	95% Confidence Interval for	Lower Bound	1.629	
	Mean	Upper Bound	1.895	
	5% Trimmed Mean		1.704	
	Median		2.000	
	Variance		.472	
MDR4	Std. Deviation		.6867	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		1.0	
	Skewness		1.255	.236
	Kurtosis		4.306	.467
	Mean		2.476	.0857
	95% Confidence Interval for	Lower Bound	2.306	
	Mean	Upper Bound	2.646	
	5% Trimmed Mean		2.452	
	Median		2.000	
	Variance		.771	
MDR5	Std. Deviation		.8781	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		1.0	
	Skewness		.378	.236
	Kurtosis		.197	.467
	Mean		2.133	.0846
	95% Confidence Interval for	Lower Bound	1.966	
	Mean	Upper Bound	2.301	
	5% Trimmed Mean		2.061	
	Median		2.000	
	Variance		.751	
MDR6	Std. Deviation		.8668	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		.0	
	Skewness		1.453	.236
	Kurtosis		2.690	.467
	Mean		1.619	.0827
MDR7	95% Confidence Interval for	Lower Bound	1.455	
	Mean	Upper Bound	1.783	

	5% Trimmed Mean		1.503	
	Median		1.000	
	Variance		.719	
	Std. Deviation		.8479	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		1.0	
	Skewness		1.886	.236
	Kurtosis		4.429	.467
	Mean		2.048	.0640
	95% Confidence Interval for	Lower Bound	1.921	
	Mean	Upper Bound	2.175	
	5% Trimmed Mean		2.021	
	Median		2.000	
	Variance		.430	
MDR8	Std. Deviation		.6561	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		.0	
	Skewness		.993	.236
	Kurtosis		3.672	.467
	Mean		3.029	.1183
	95% Confidence Interval for	Lower Bound	2.794	
	Mean	Upper Bound	3.263	
	5% Trimmed Mean		3.032	
	Median		3.000	
	Variance		1.470	
MDR9	Std. Deviation		1.2126	
	Minimum		1.0	
	Maximum		5.0	
	Range		4.0	
	Interquartile Range		2.0	
	Skewness		-.319	.236
	Kurtosis		-.983	.467
	Mean		2.019	.0976
	95% Confidence Interval for	Lower Bound	1.826	
	Mean	Upper Bound	2.213	
MDR11	5% Trimmed Mean		1.934	
	Median		2.000	
	Variance		1.000	

Std. Deviation	.9998	
Minimum	1.0	
Maximum	5.0	
Range	4.0	
Interquartile Range	1.0	
Skewness	1.138	.236
Kurtosis	1.060	.467

Tests of Normality

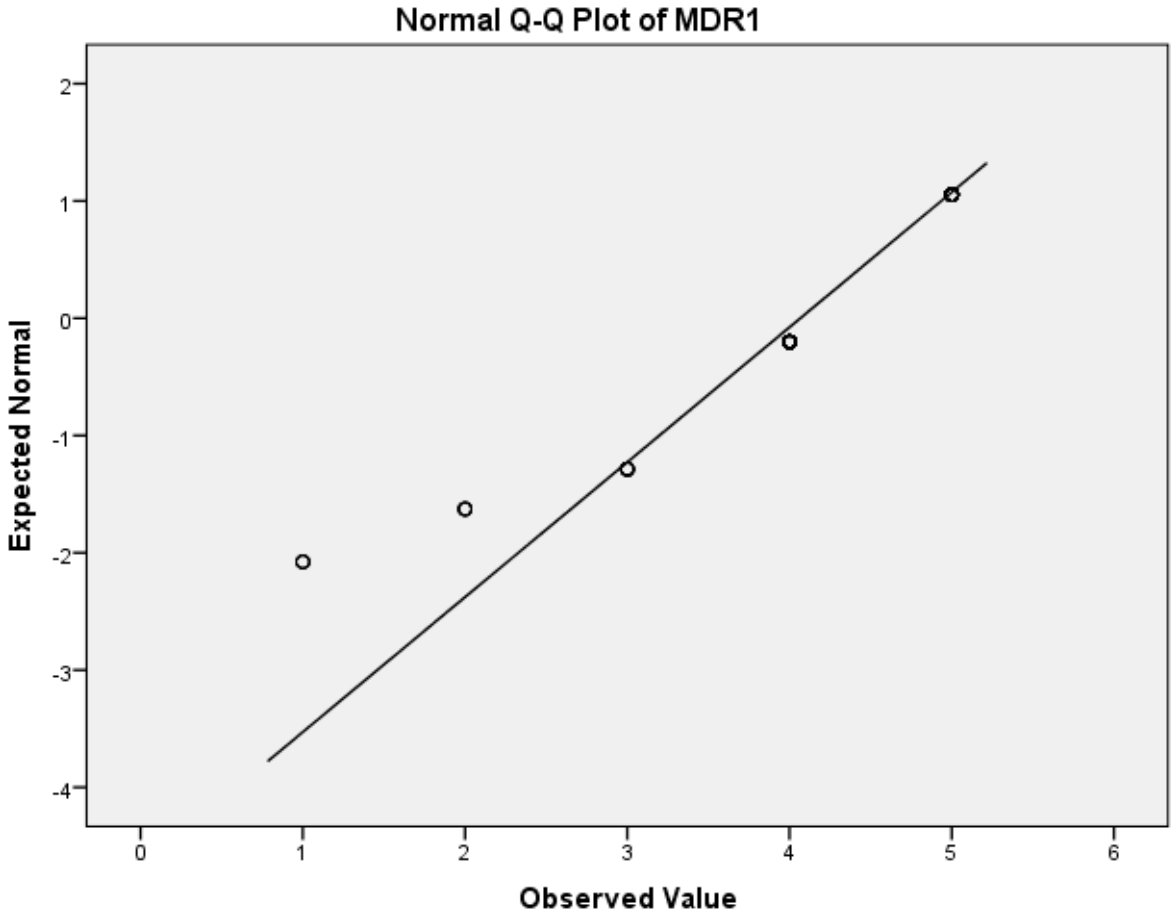
	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
MDR1	.346	110	.000	.731	110	.000
MDR2	.393	110	.000	.697	110	.000
MDR3	.296	110	.000	.859	110	.000
MDR4	.293	110	.000	.730	110	.000
MDR5	.240	110	.000	.879	110	.000
MDR6	.390	110	.000	.725	110	.000
MDR7	.301	110	.000	.689	110	.000
MDR8	.358	110	.000	.744	110	.000
MDR9	.227	110	.000	.887	110	.000
MDR11	.298	110	.000	.808	110	.000

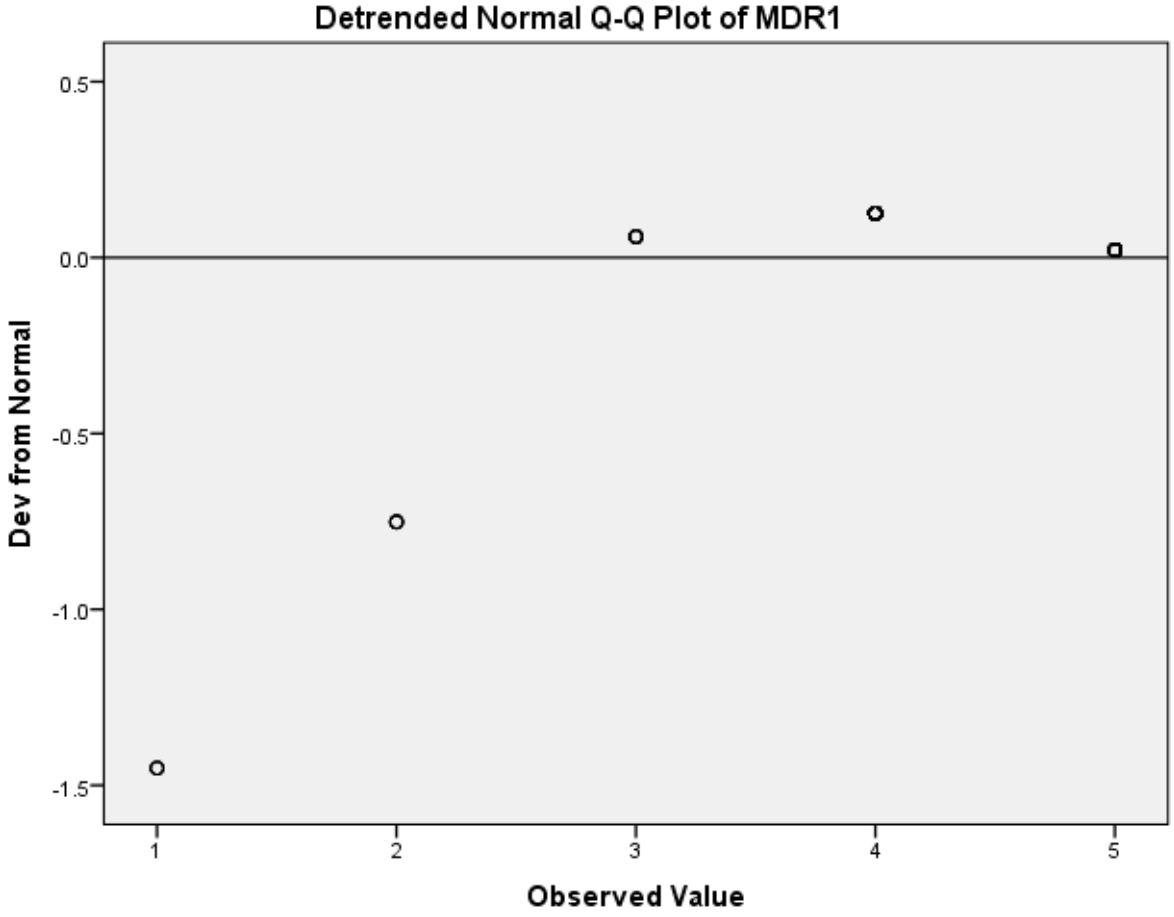
a. Lilliefors Significance Correction

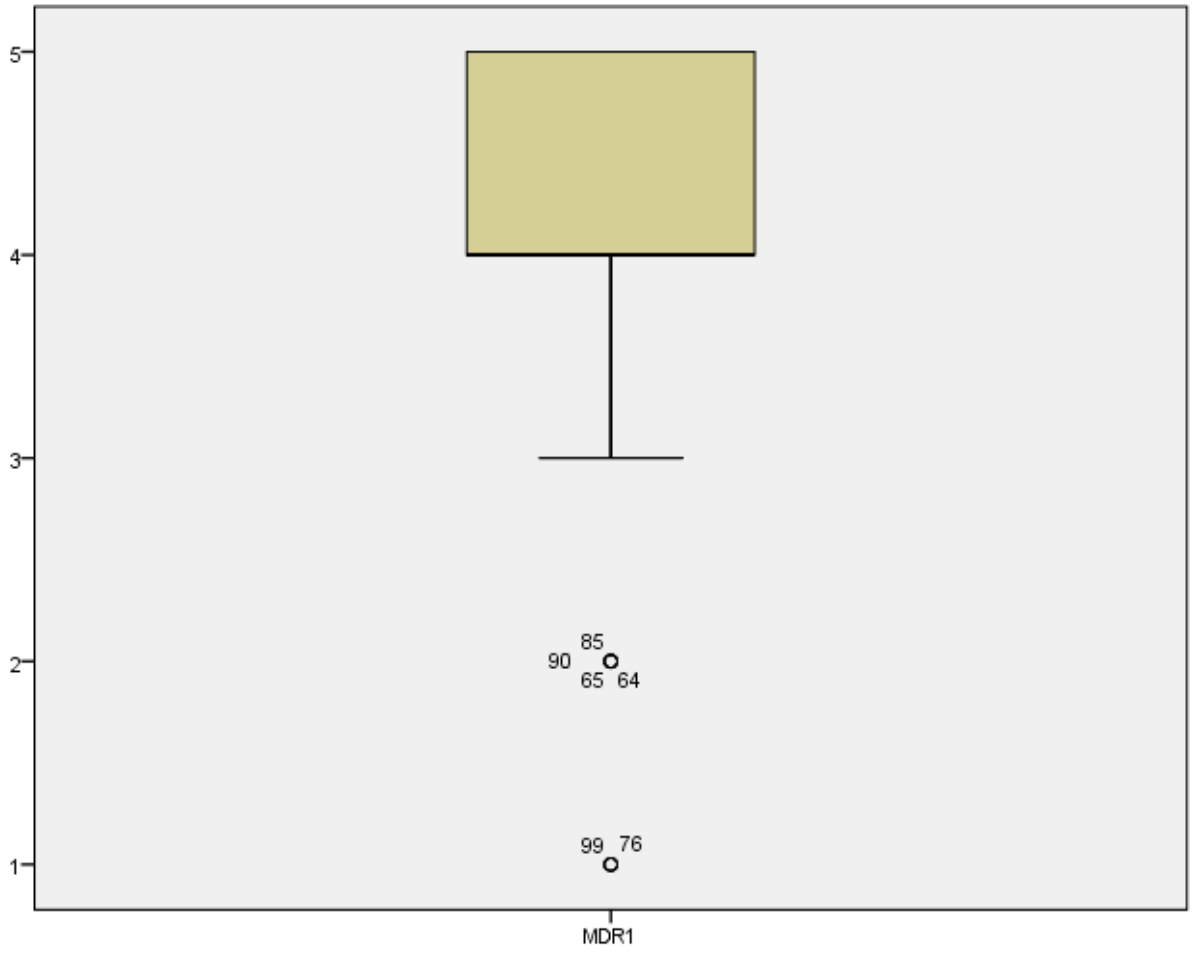
MDR1

```
MDR1 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     7.00 Extremes    (=<2.0)
     6.00        3 .  000000
      .00        3 .
      .00        3 .
      .00        3 .
      .00        3 .
    62.00        4 .
00000000000000000000000000000000000000000000000000000000000000
      .00        4 .
      .00        4 .
      .00        4 .
      .00        4 .
```

```
   30.00        5 .  00000000000000000000000000000

Stem width:       1.0
Each leaf:       1 case(s)
```

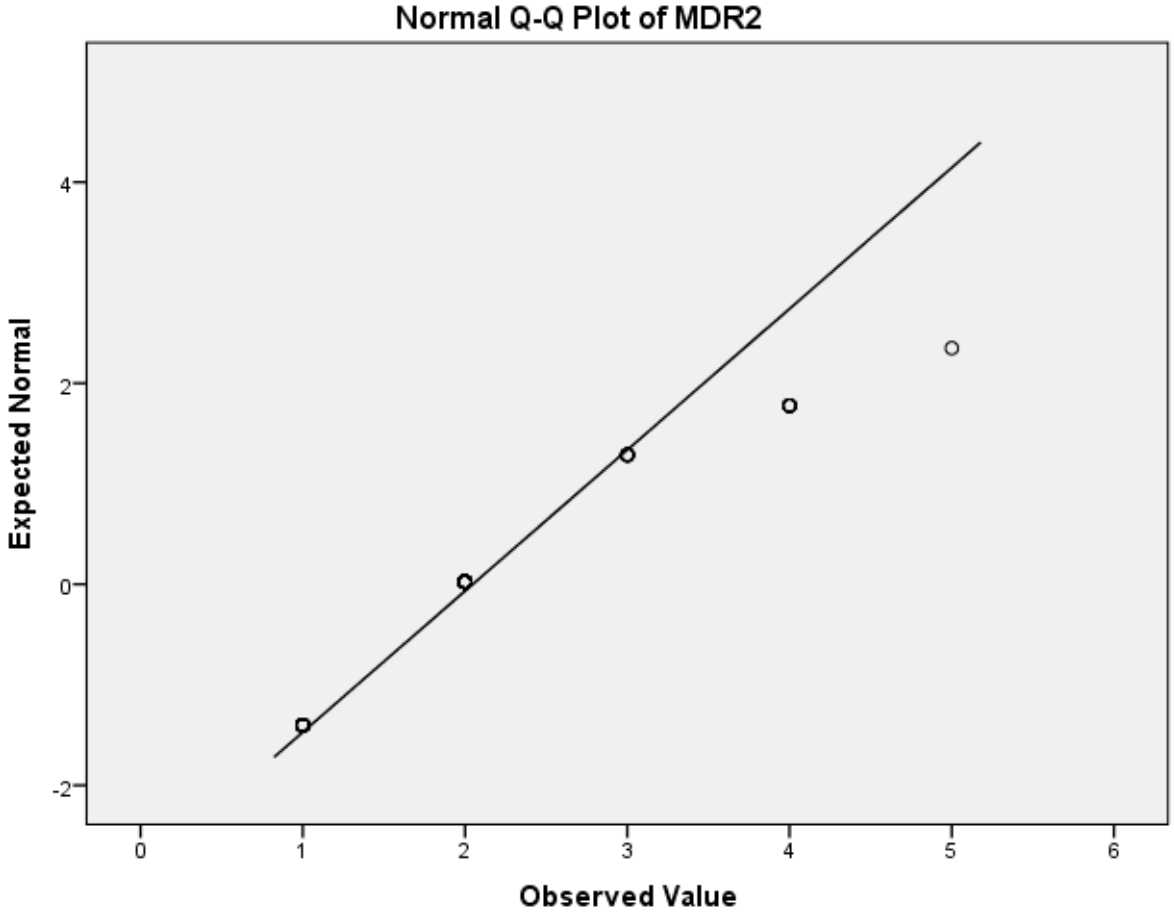


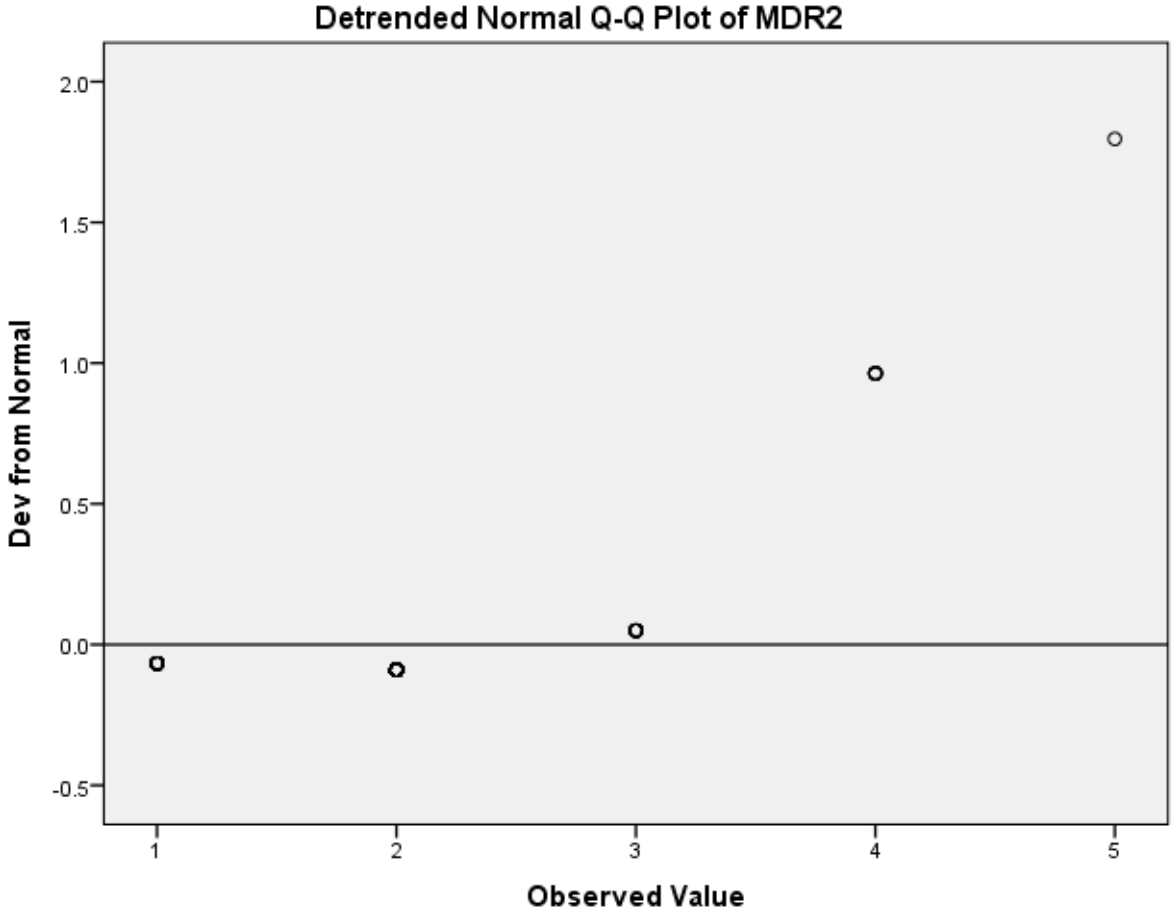

Detrended Normal Q-Q Plot of MDR1
Dev from Normal
0.5
0.0
-0.5
-1.0
-1.5
1
2
3
4
5
Observed Value

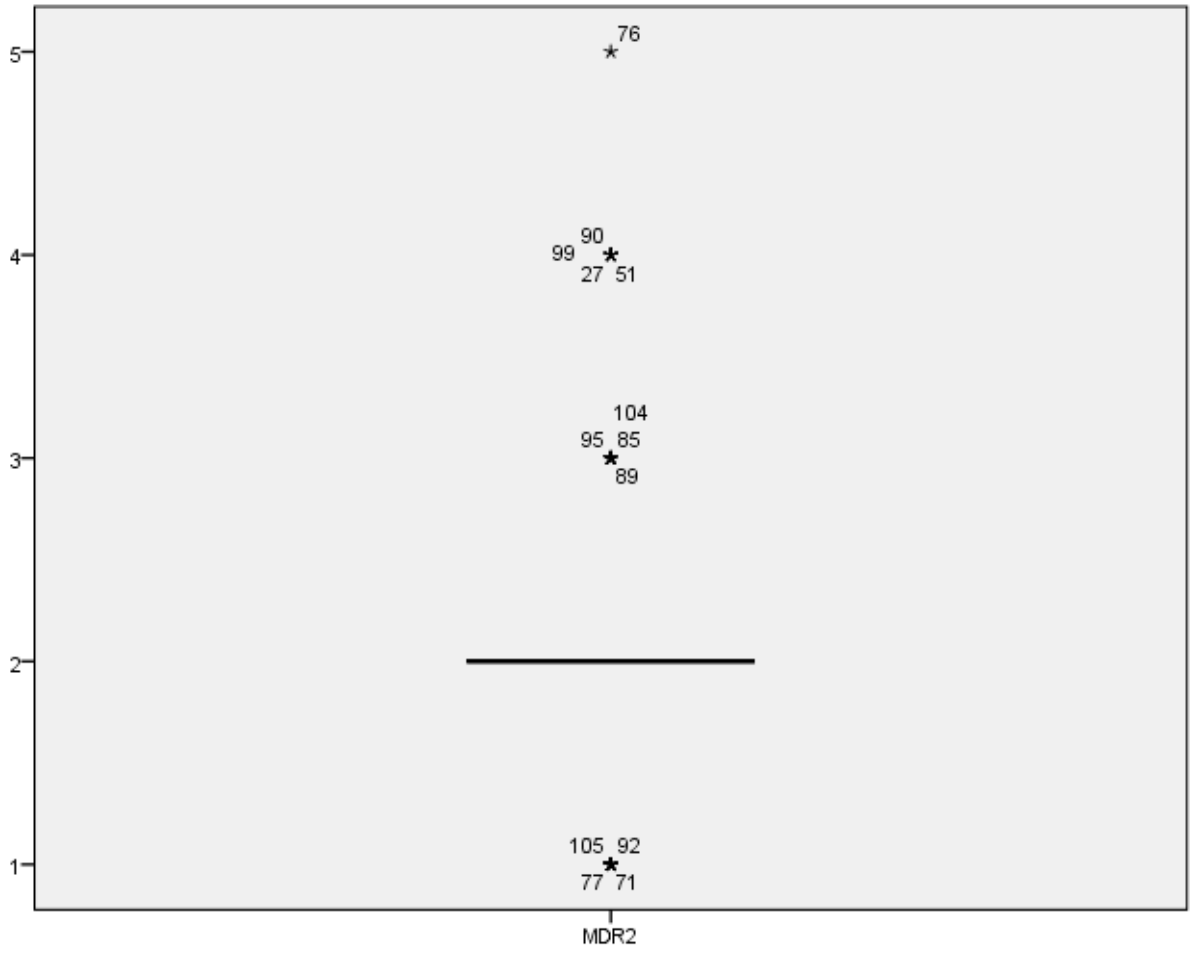


MDR2

```
MDR2 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    16.00 Extremes    (=<1)
      .00        0 .
    75.00        0 .
222222222222222222222222222222222222222222222222222222222222222222222222222
    14.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR2
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6

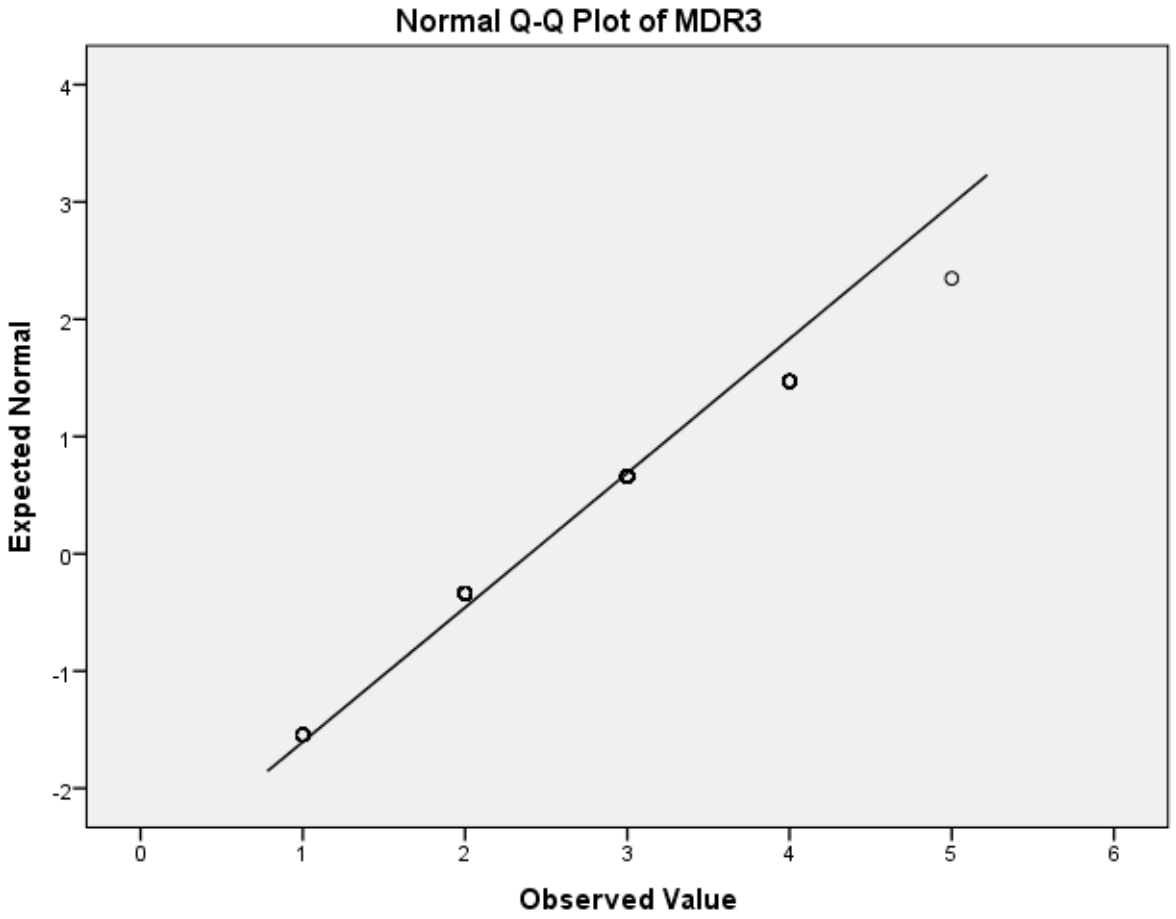

Detrended Normal Q-Q Plot of MDR2
Dev from Normal
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

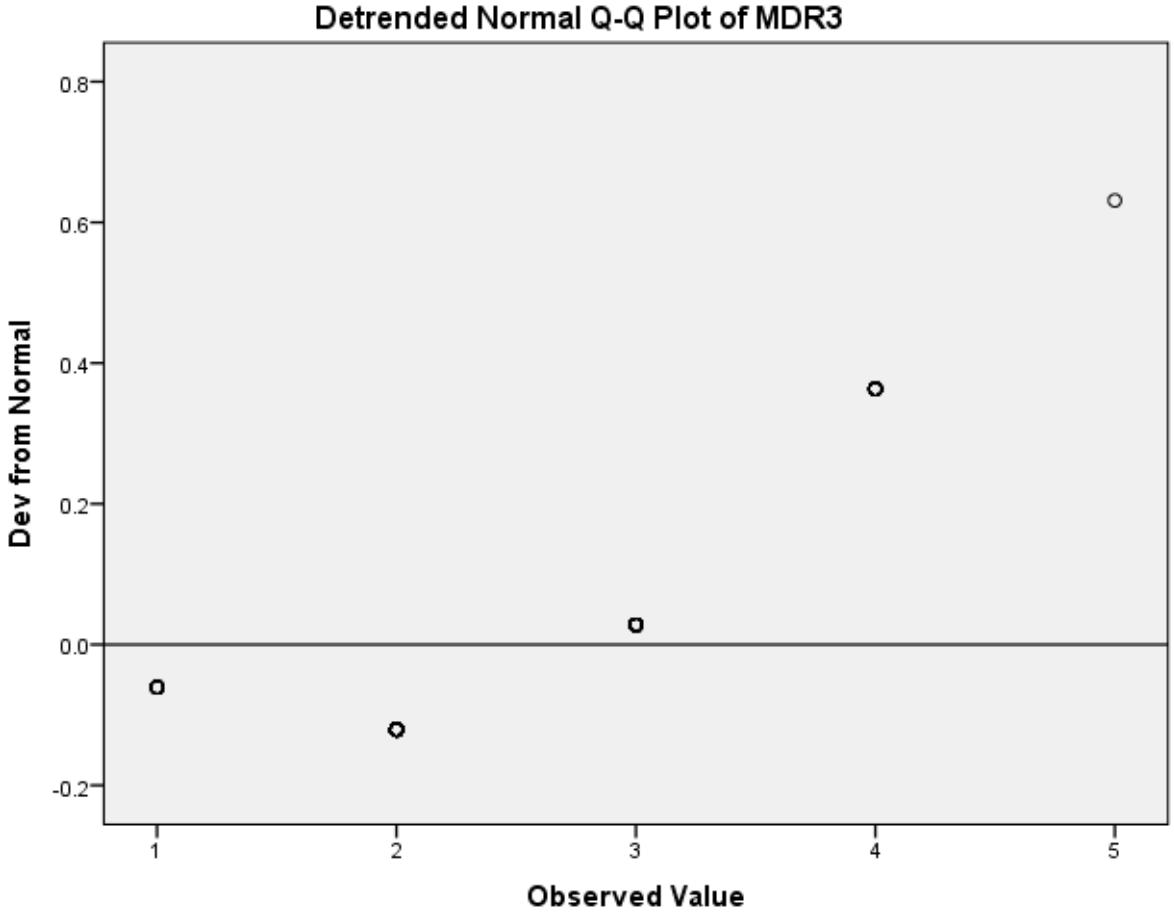


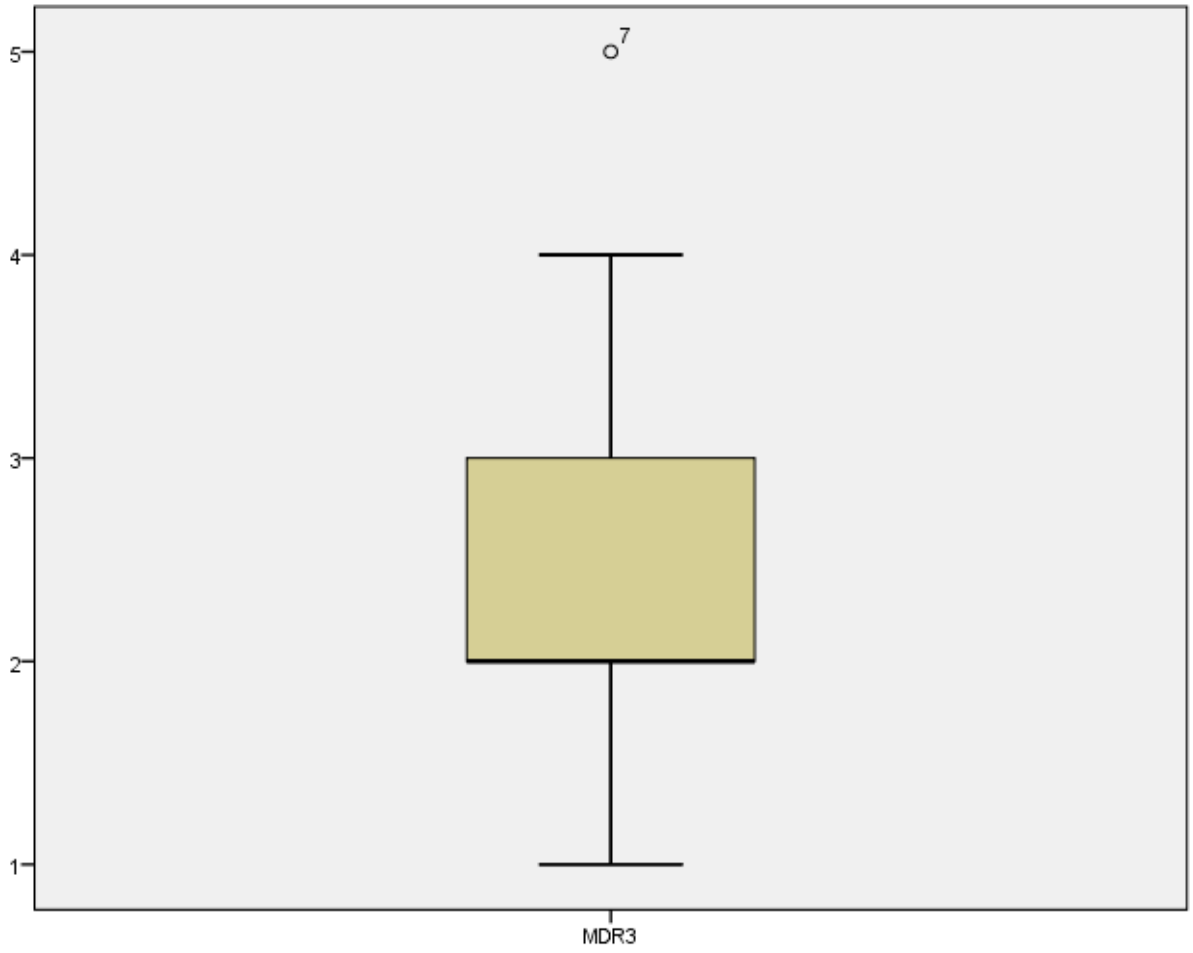
MDR3

```
MDR3 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    12.00        1 .  000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    53.00        2 .  00000000000000000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
    27.00        3 .  000000000000000000000000000
      .00        3 .
      .00        3 .
      .00        3 .
      .00        3 .
```

```
   12.00        4 .  000000000000
    1.00 Extremes    (>=5.0)

Stem width:       1.0
Each leaf:       1 case(s)
```



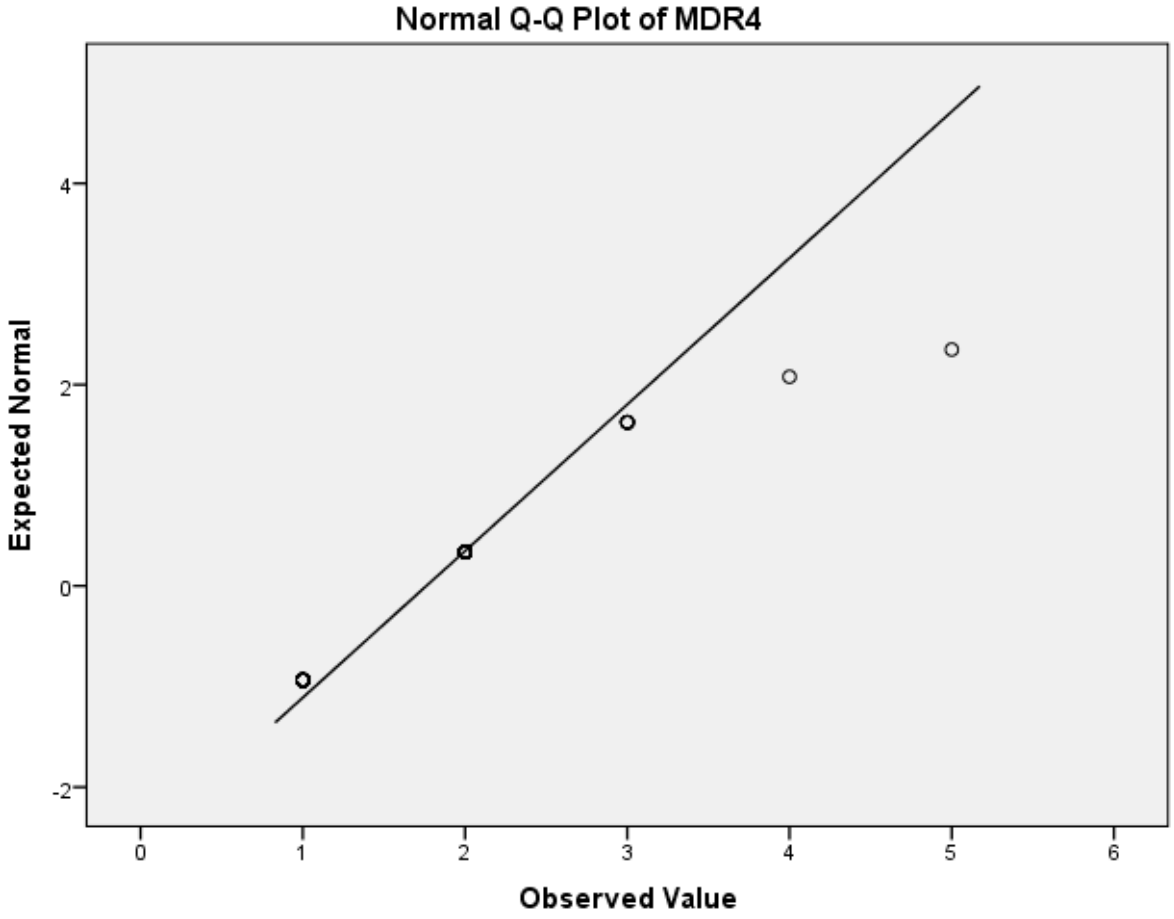

Detrended Normal Q-Q Plot of MDR3
Dev from Normal
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

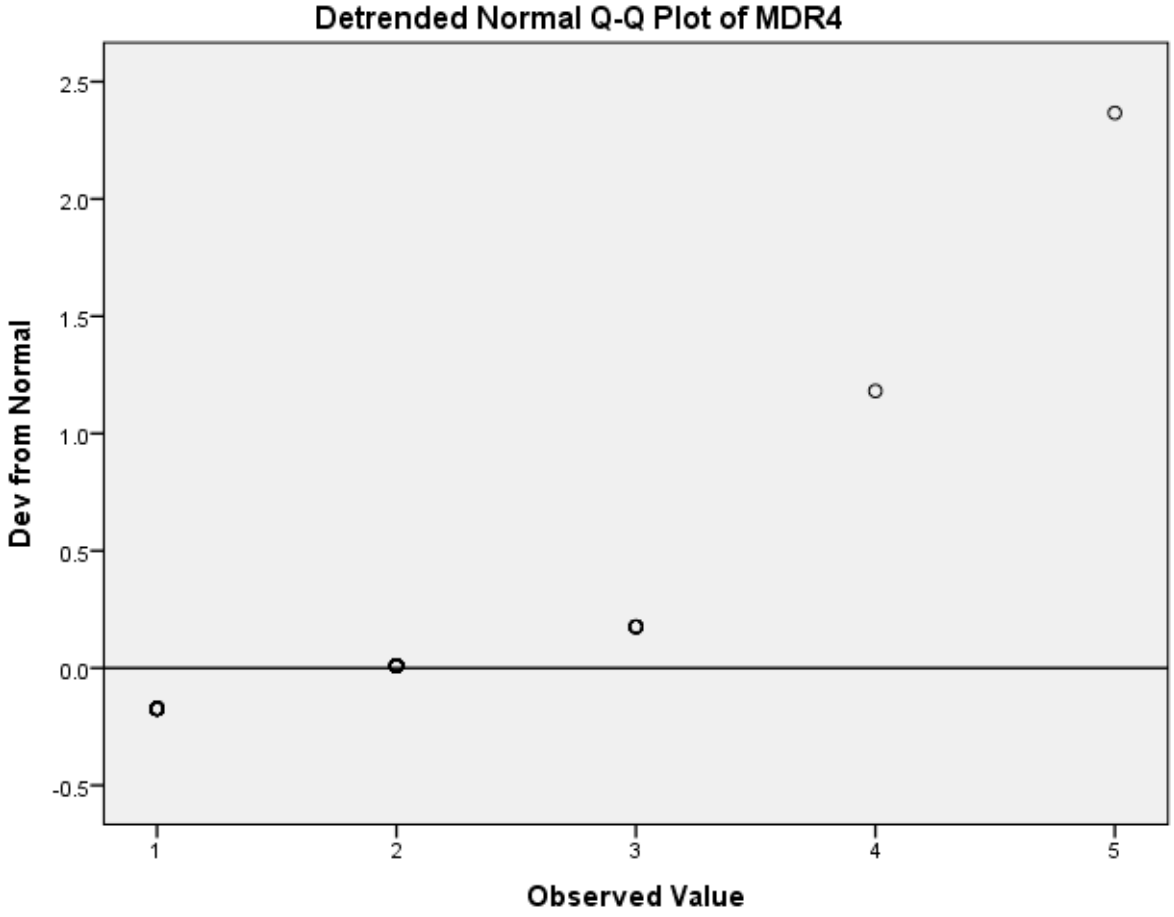


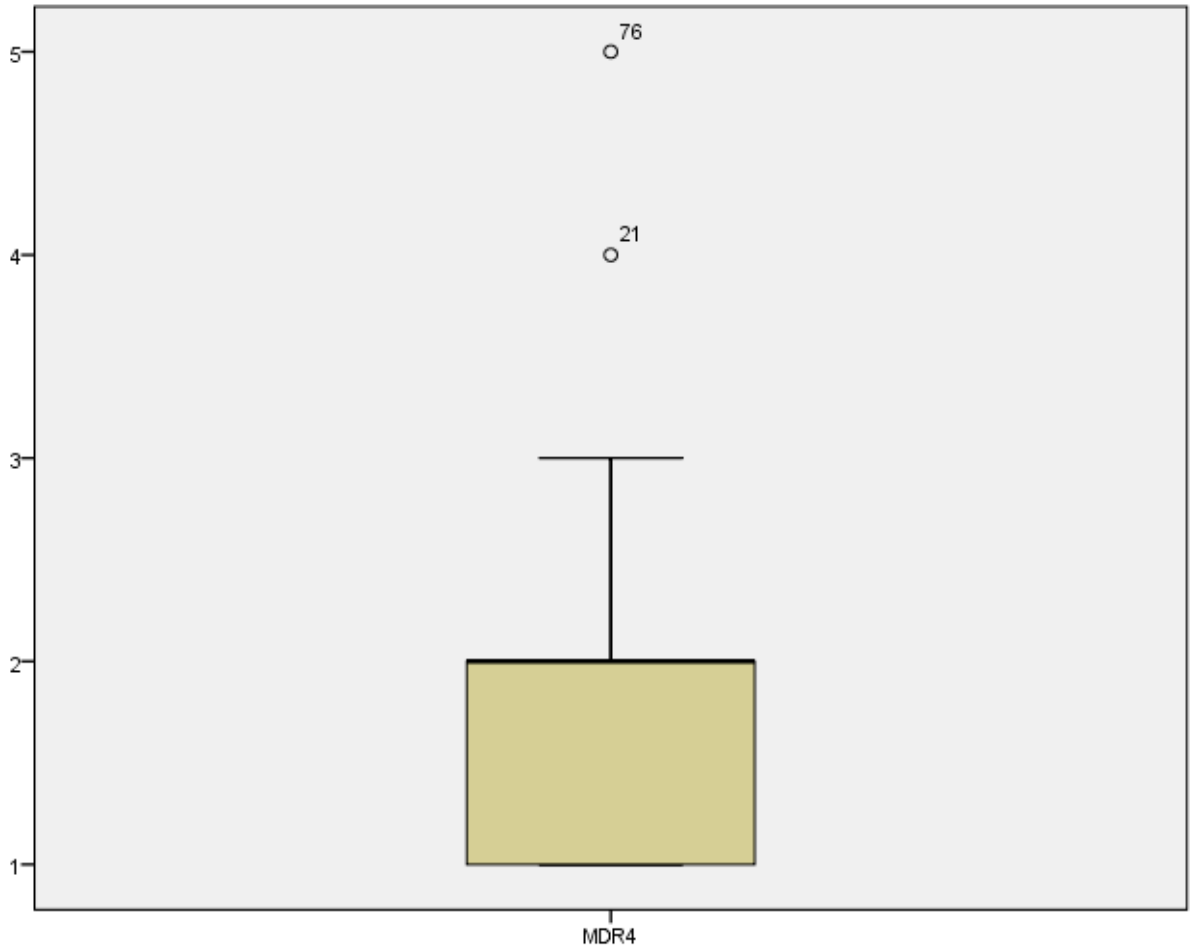
MDR4

```
MDR4 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    36.00        1 .  000000000000000000000000000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    61.00        2 .
0000000000000000000000000000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
     6.00        3 .  000000
     2.00 Extremes    (>=4.0)

 Stem width:       1.0
```

Each leaf: 1 case(s)



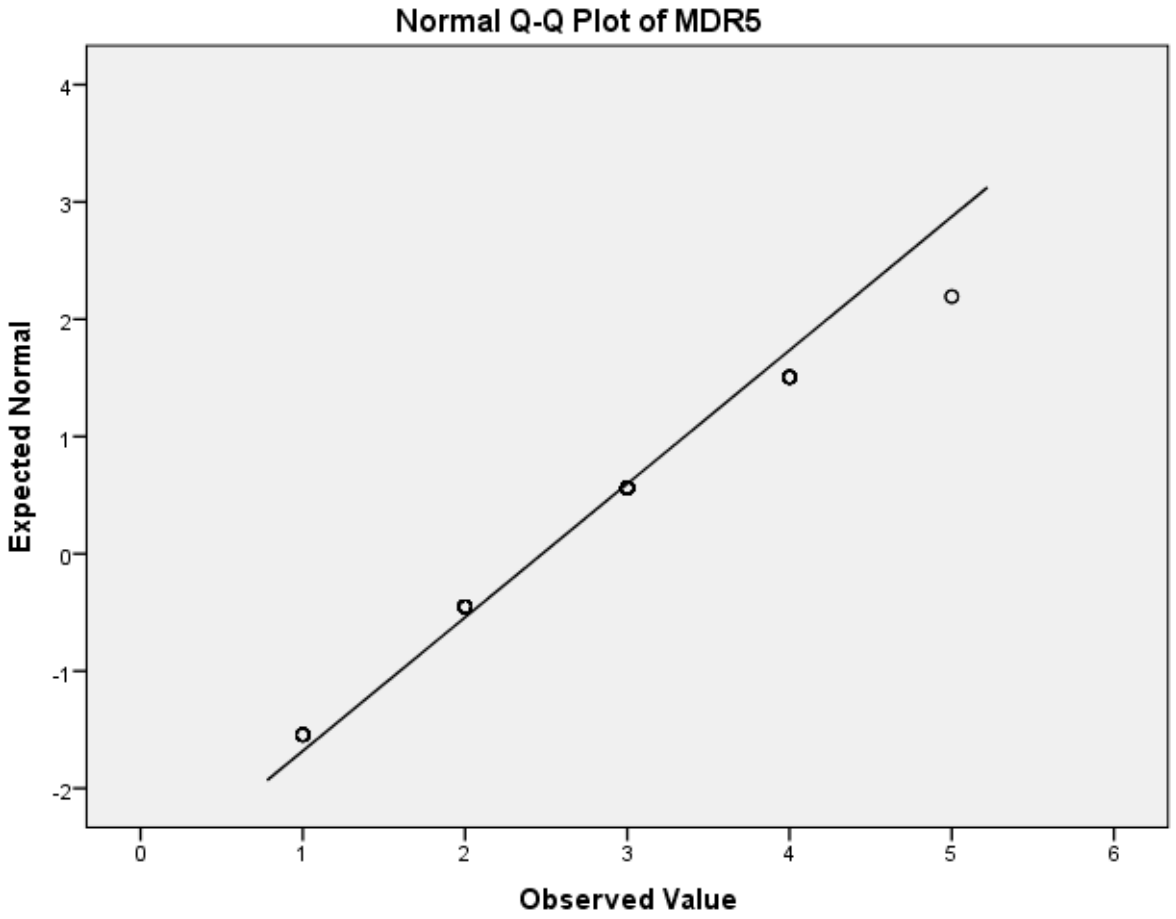

Detrended Normal Q-Q Plot of MDR4
Dev from Normal
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

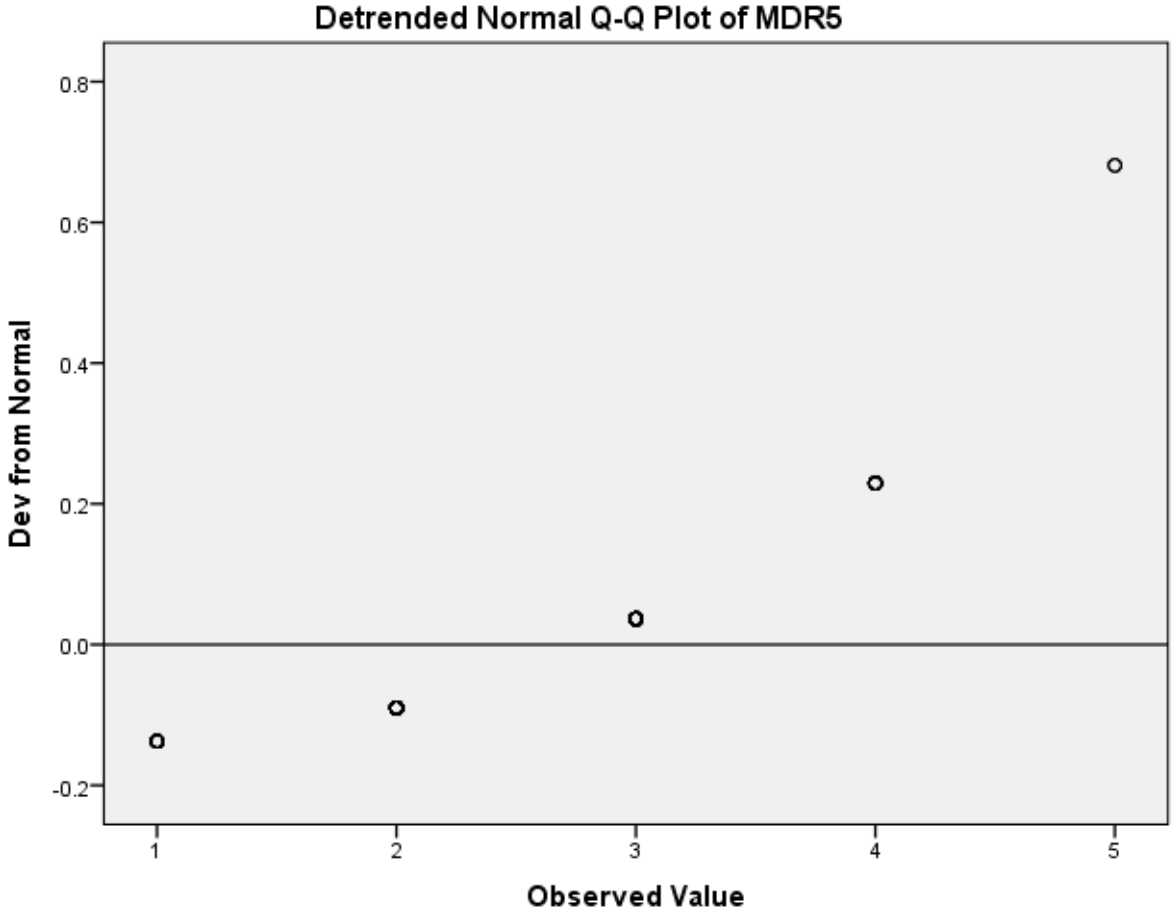


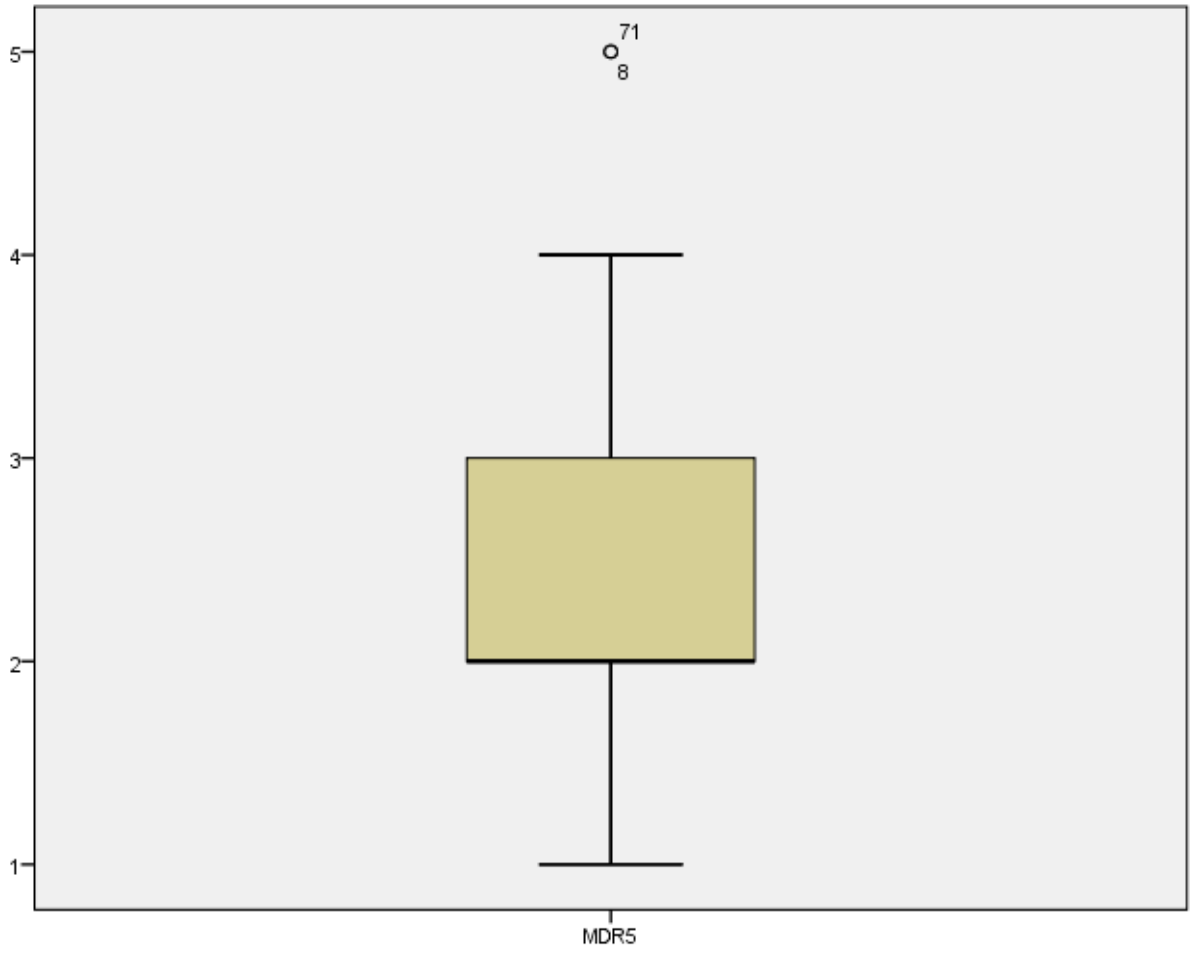
MDR5

```
MDR5 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    12.00        1 .  000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    44.00        2 .  00000000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
    38.00        3 .  00000000000000000000000000000000000000
      .00        3 .
      .00        3 .
      .00        3 .
      .00        3 .
```

```
    9.00        4 .  000000000
    2.00 Extremes    (>=5.0)

Stem width:       1.0
Each leaf:       1 case(s)
```

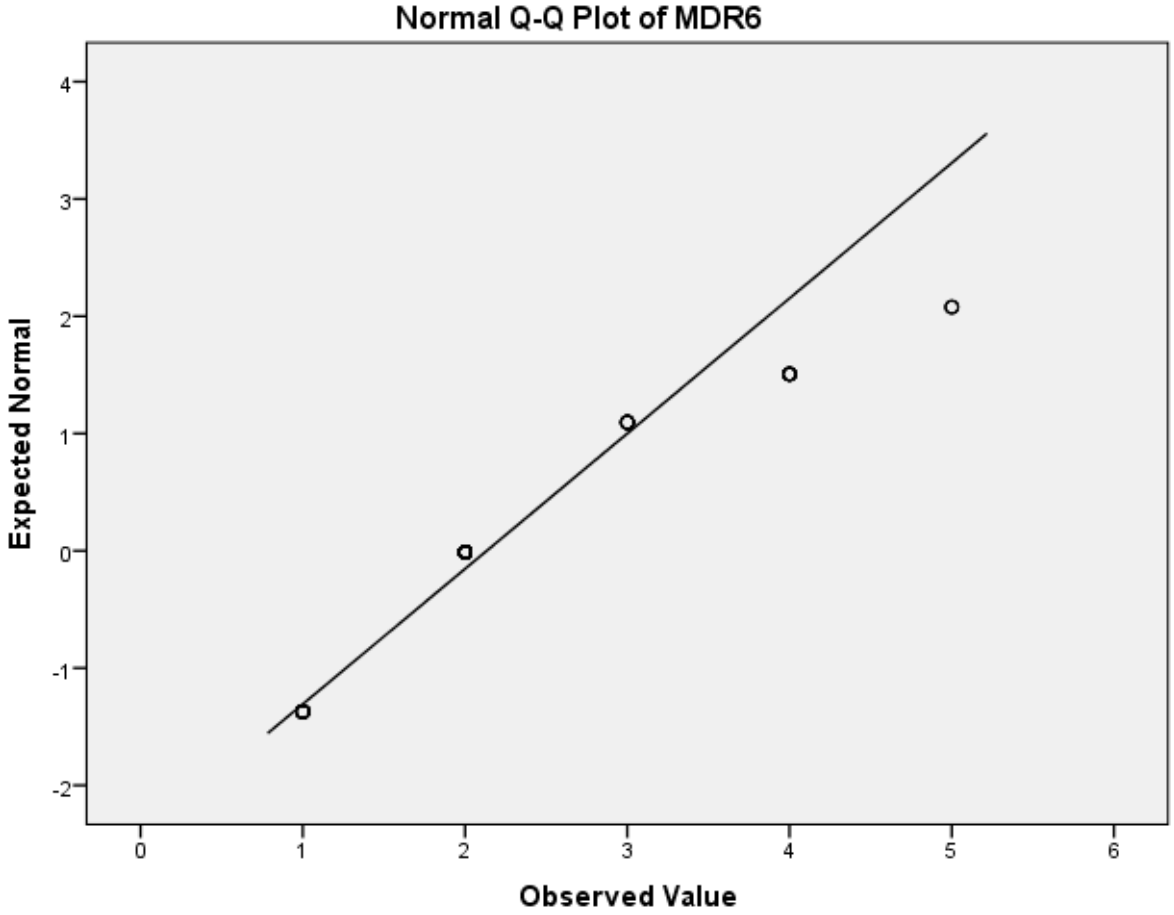


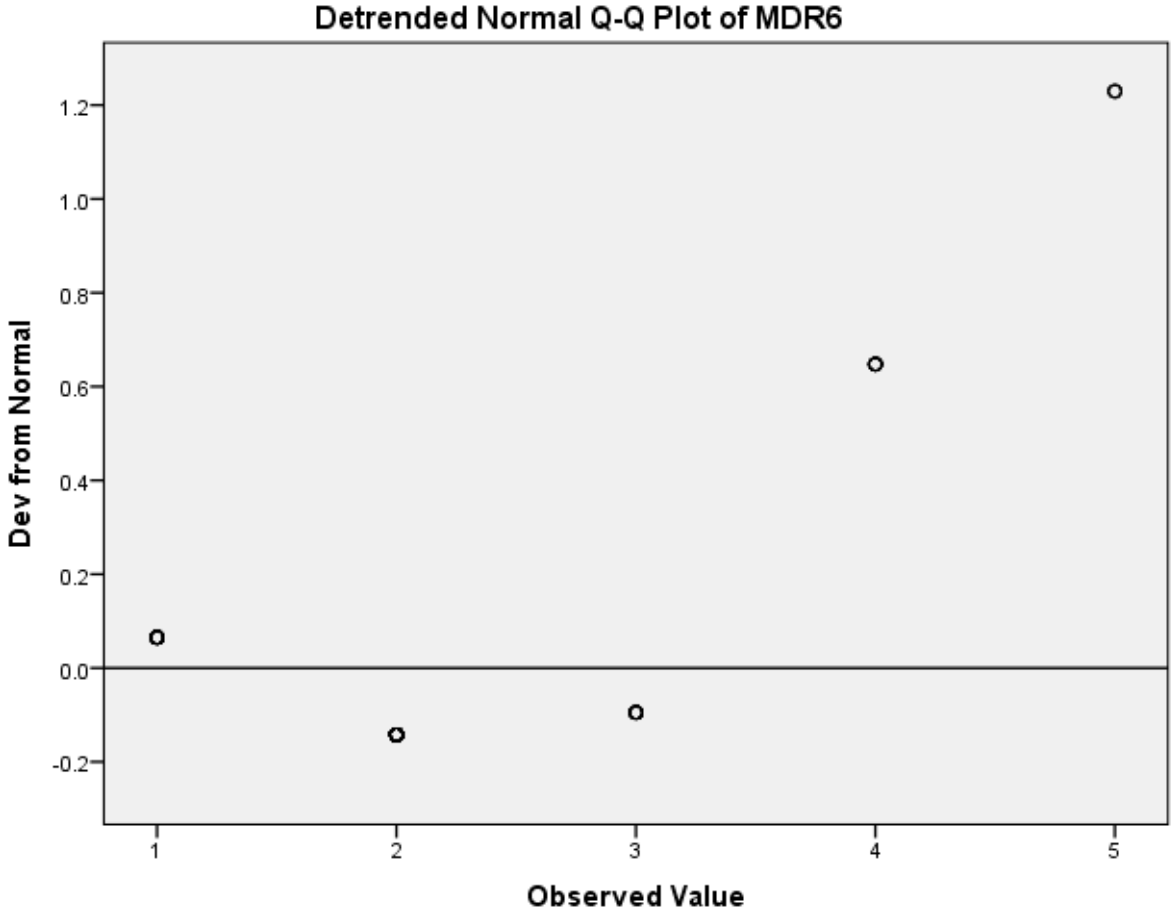

Detrended Normal Q-Q Plot of MDR5
Dev from Normal
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

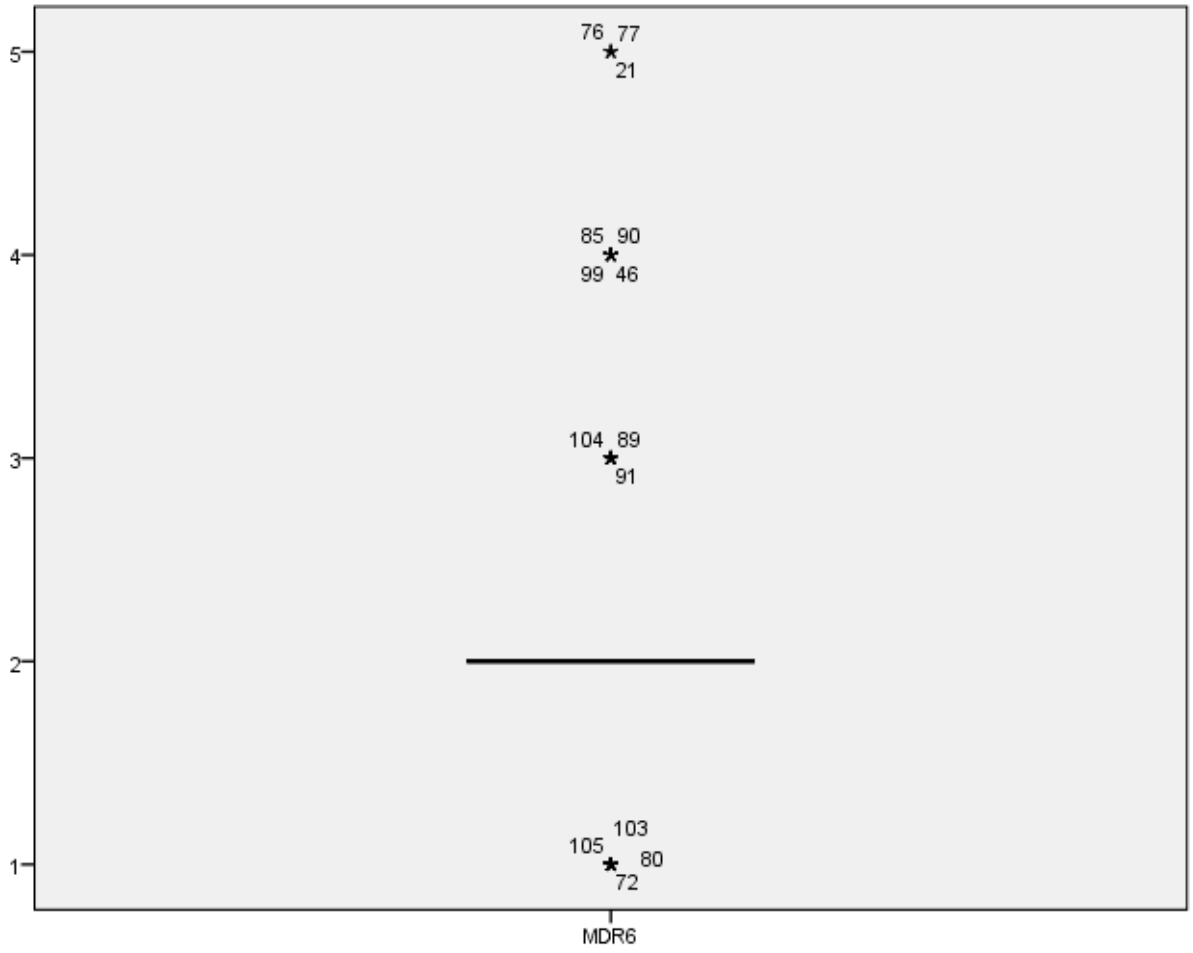


MDR6

```
MDR6 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    17.00 Extremes    (=<1)
      .00        0 .
    70.00        0 .
22222222222222222222222222222222222222222222222222222222222222222222
    18.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR6
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6

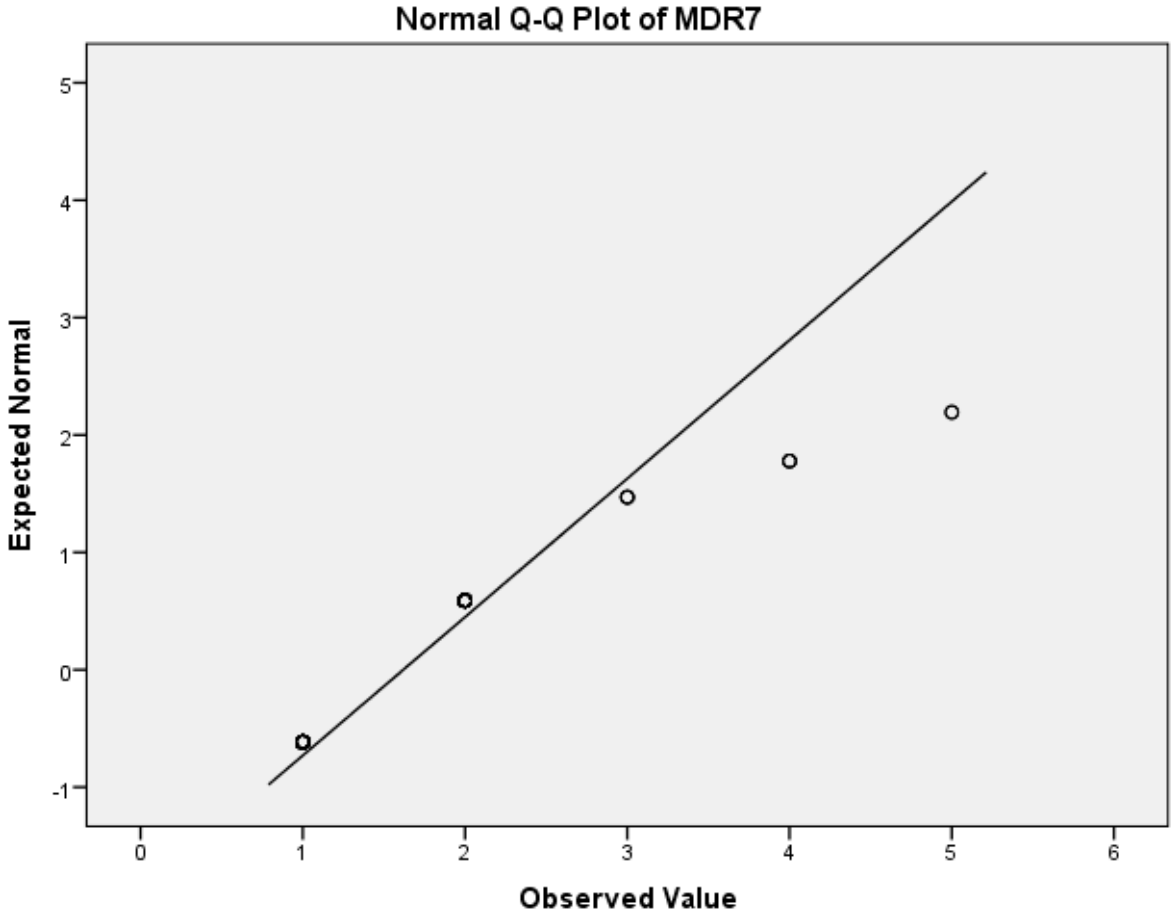

Detrended Normal Q-Q Plot of MDR6
Dev from Normal
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

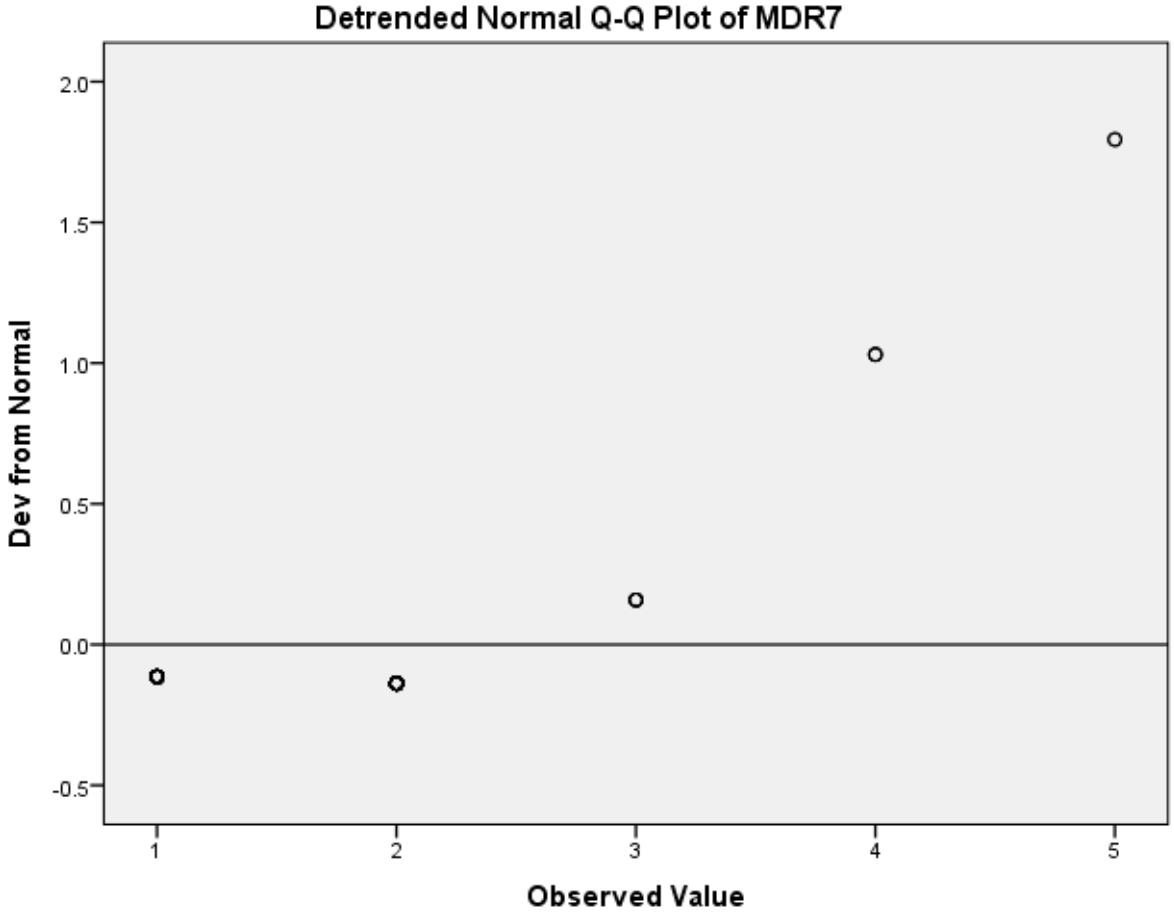


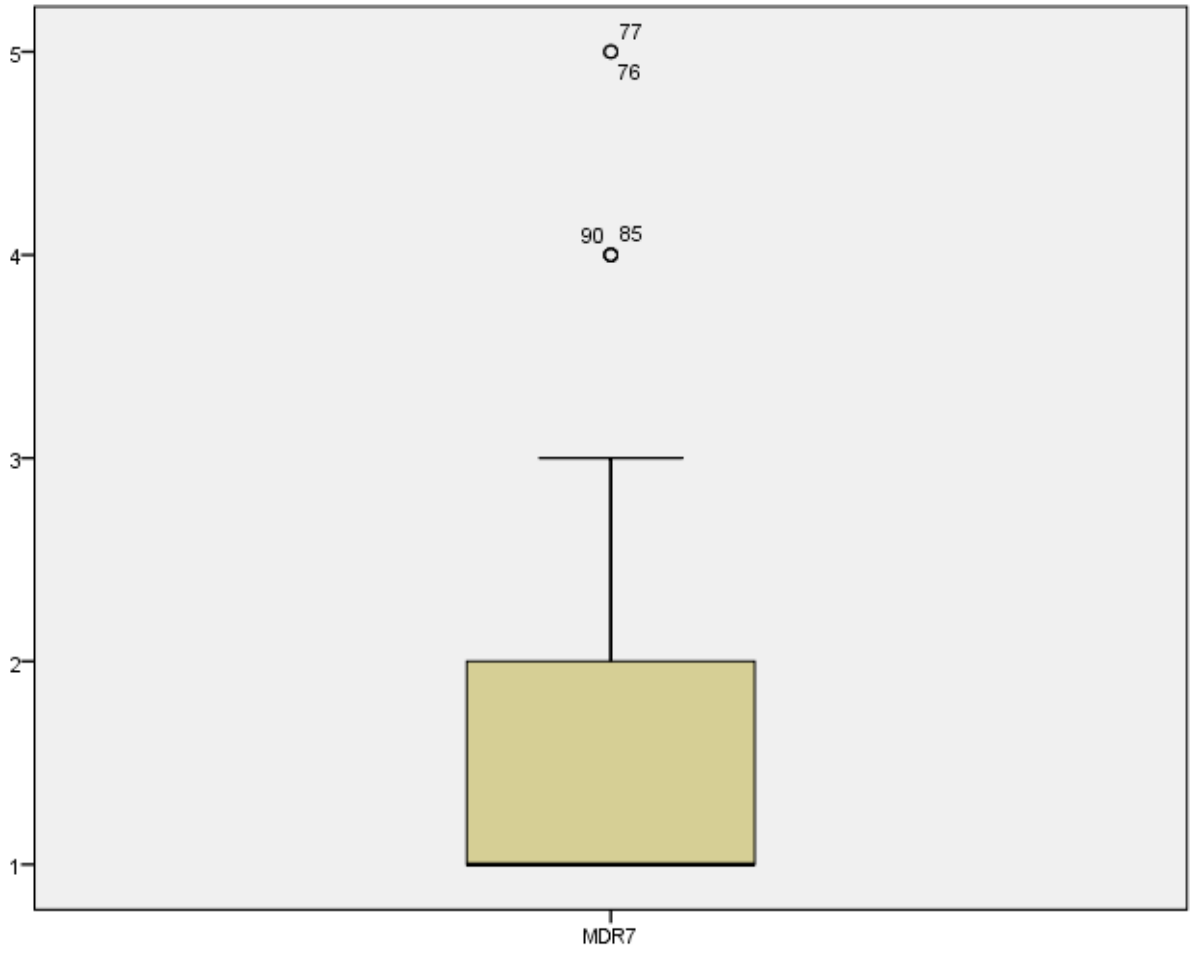
MDR7

```
MDR7 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    56.00        1 .
00000000000000000000000000000000000000000000000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    40.00        2 .  0000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
     4.00        3 .  0000
     5.00 Extremes    (>=4.0)

 Stem width:       1.0
```

Each leaf: 1 case(s)

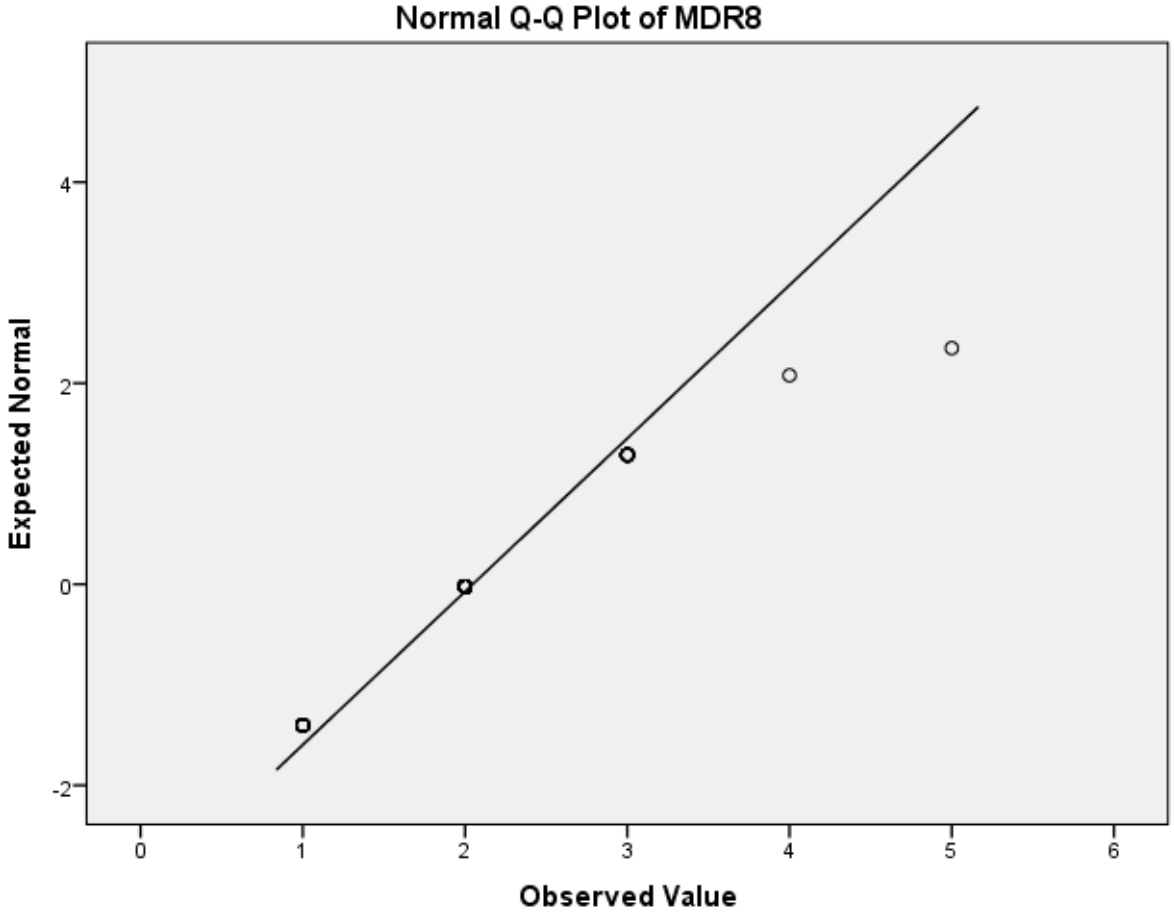


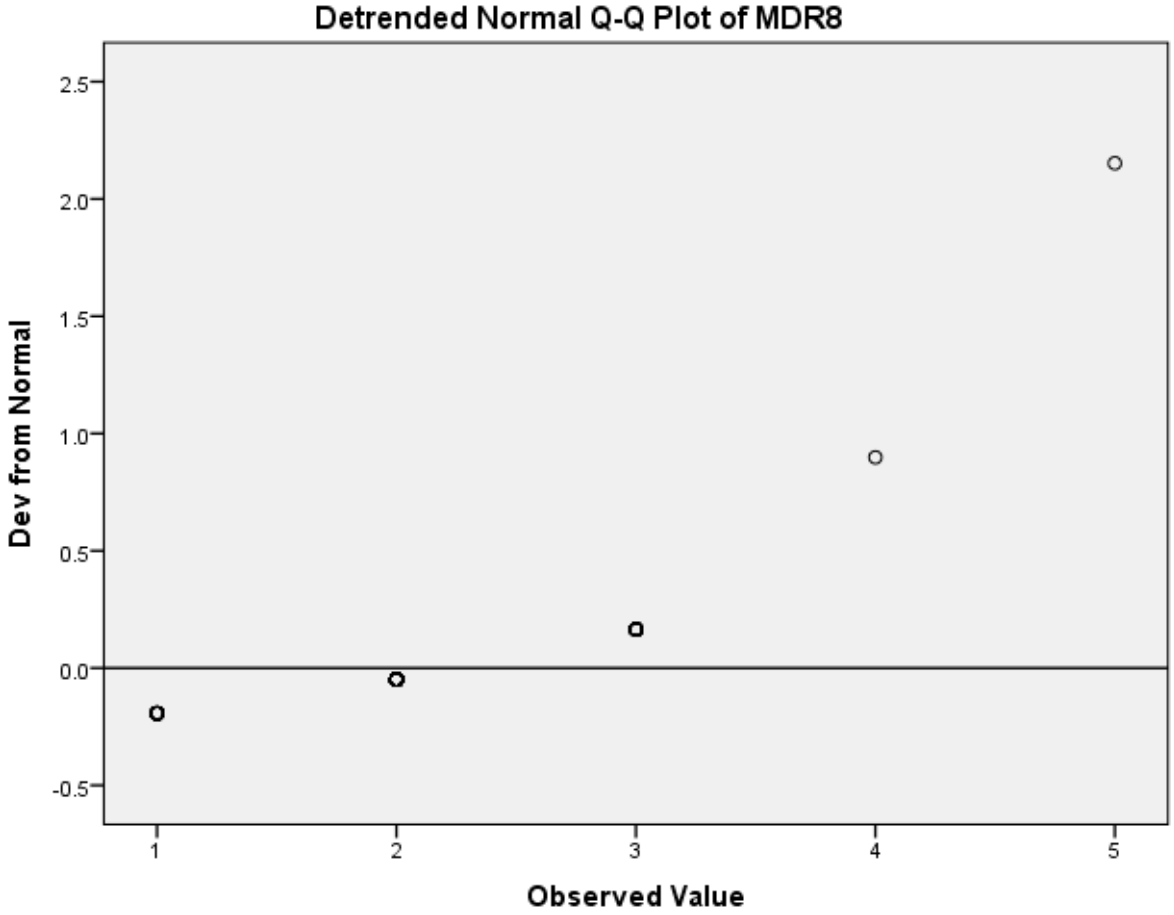

Detrended Normal Q-Q Plot of MDR7
Dev from Normal
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

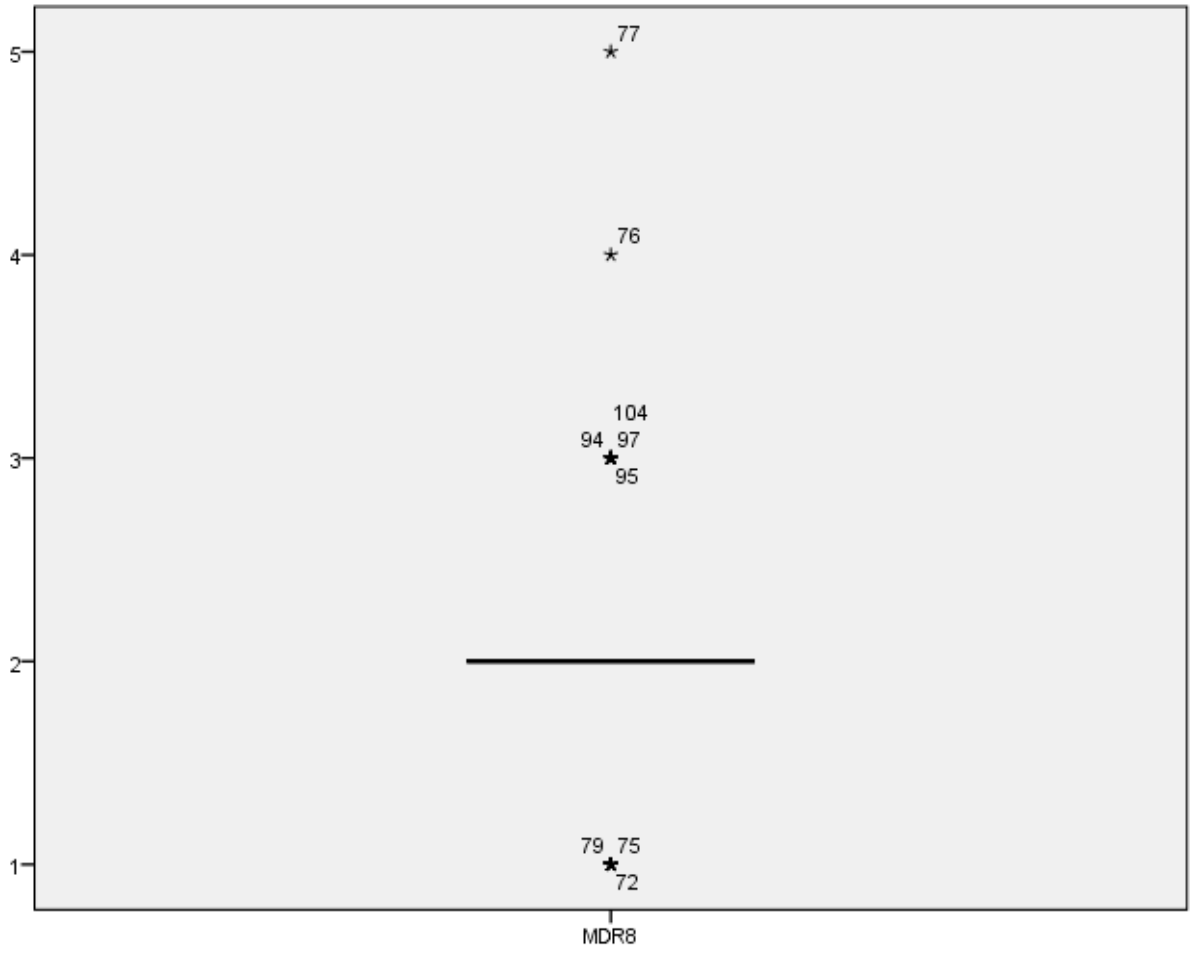


MDR8

```
MDR8 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    16.00 Extremes    (=<1)
      .00        0 .
    71.00        0 .
22222222222222222222222222222222222222222222222222222222222222222222
    18.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```

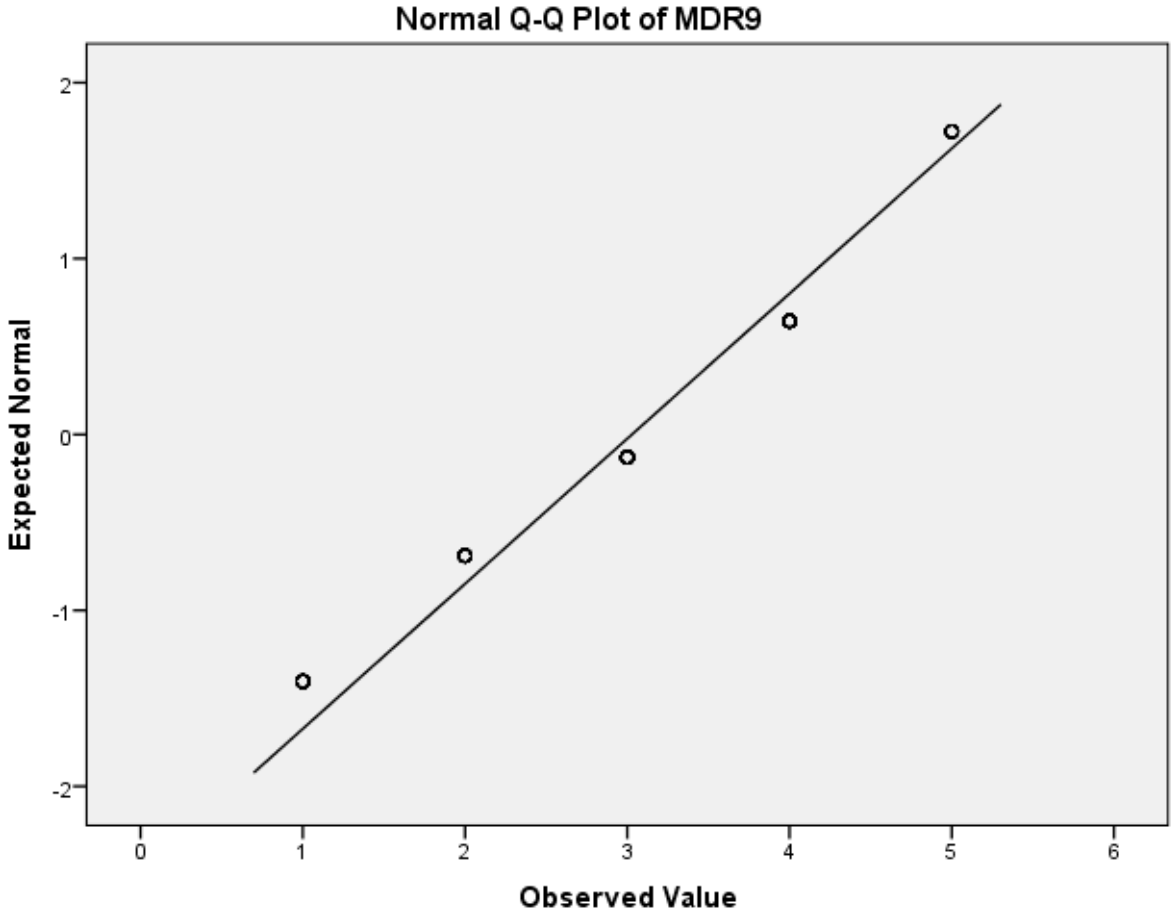

Normal Q-Q Plot of MDR8
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6

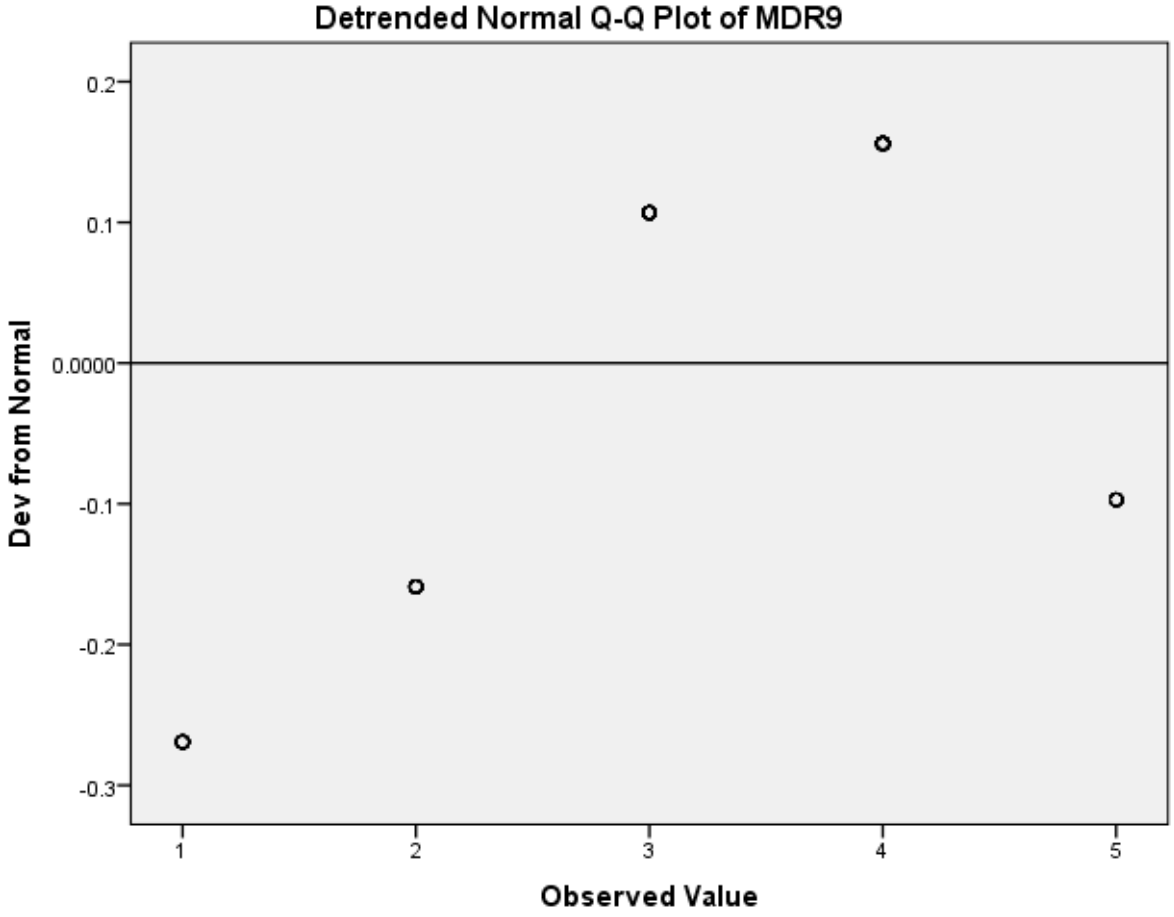

Detrended Normal Q-Q Plot of MDR8
Dev from Normal
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

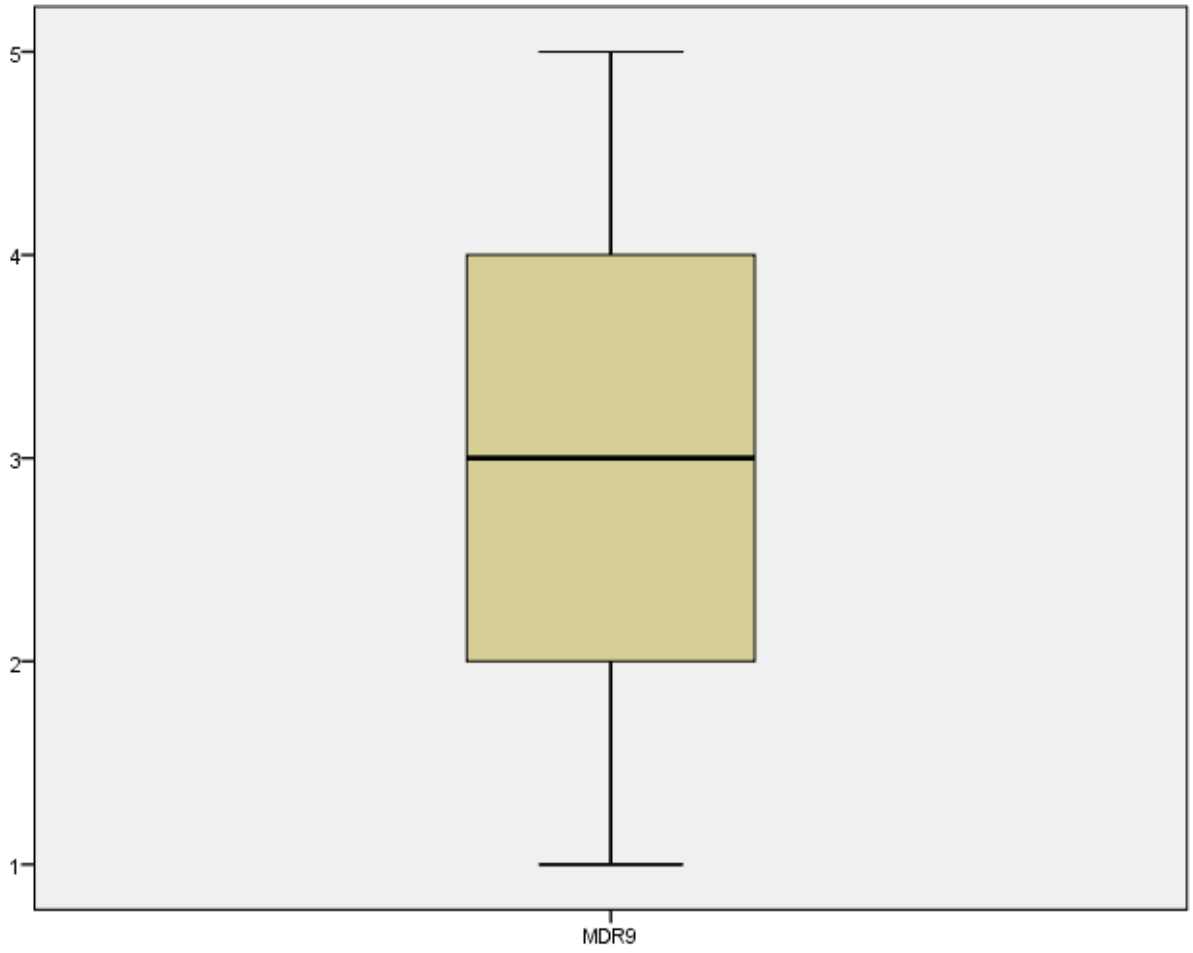


MDR9

```
MDR9 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    16.00        1 .  0000000000000000
      .00        1 .
    19.00        2 .  0000000000000000000
      .00        2 .
    24.00        3 .  000000000000000000000000
      .00        3 .
    38.00        4 .  00000000000000000000000000000000000000
      .00        4 .
     8.00        5 .  00000000

 Stem width:      1.0
 Each leaf:       1 case(s)
```

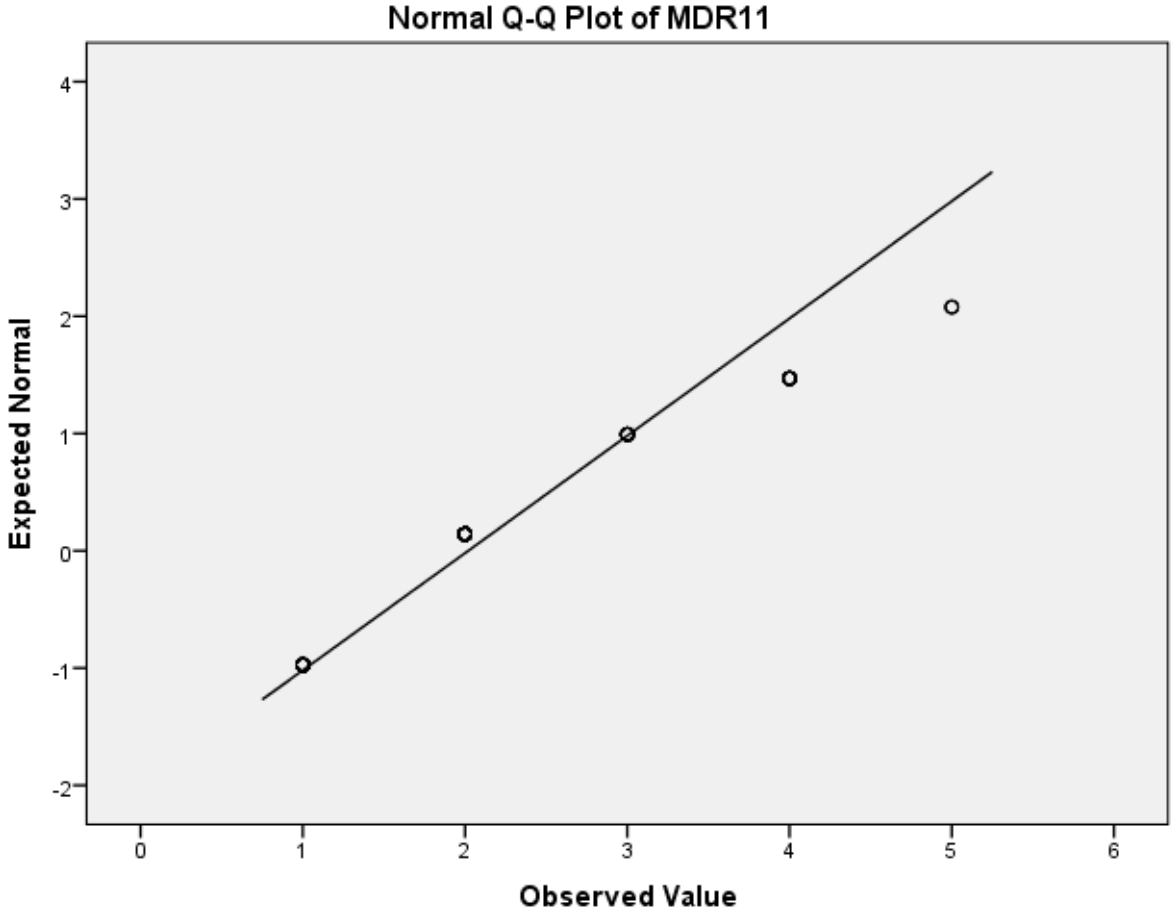

Normal Q-Q Plot of MDR9
Expected Normal
Observed Value
2
1
0
-1
-2
0
1
2
3
4
5
6

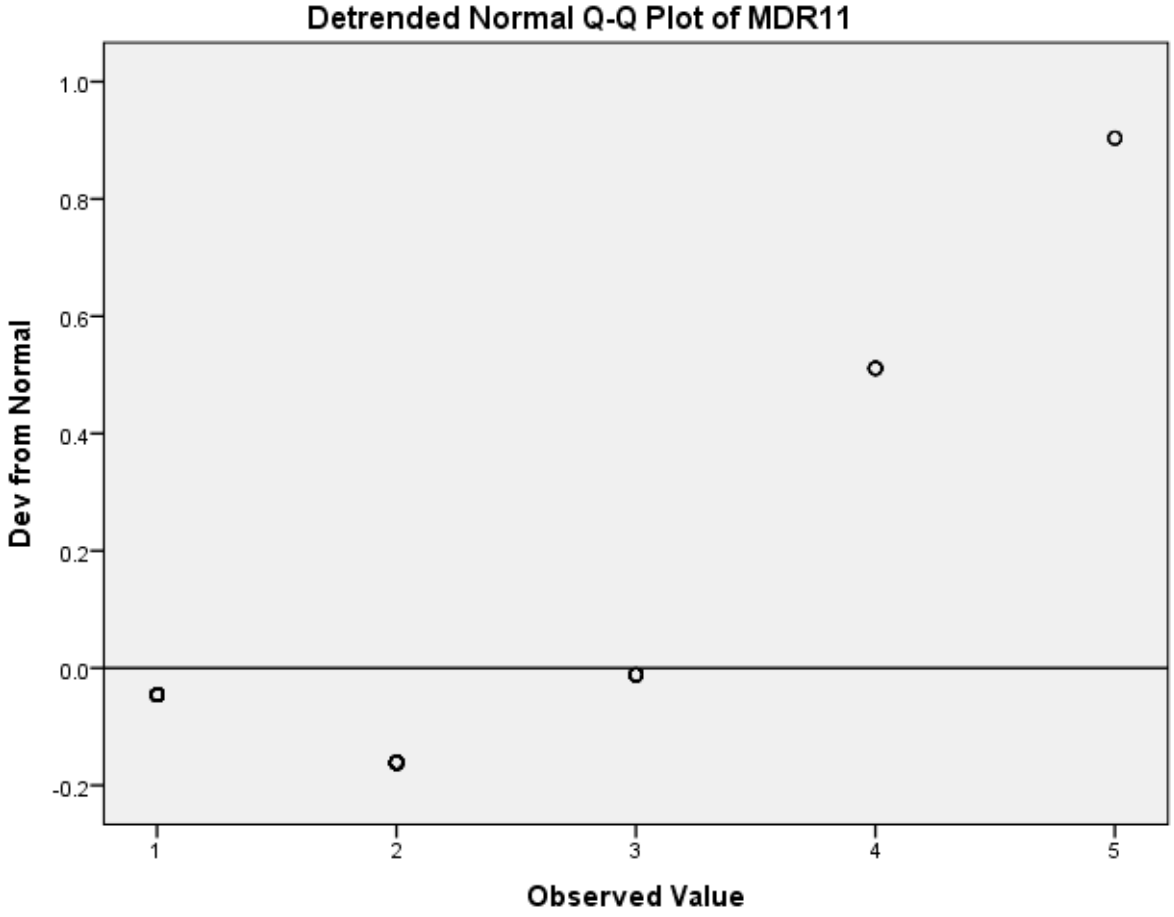

Detrended Normal Q-Q Plot of MDR9
Dev from Normal
0.2
0.1
0.0000
-0.1
-0.2
-0.3
1
2
3
4
5
Observed Value

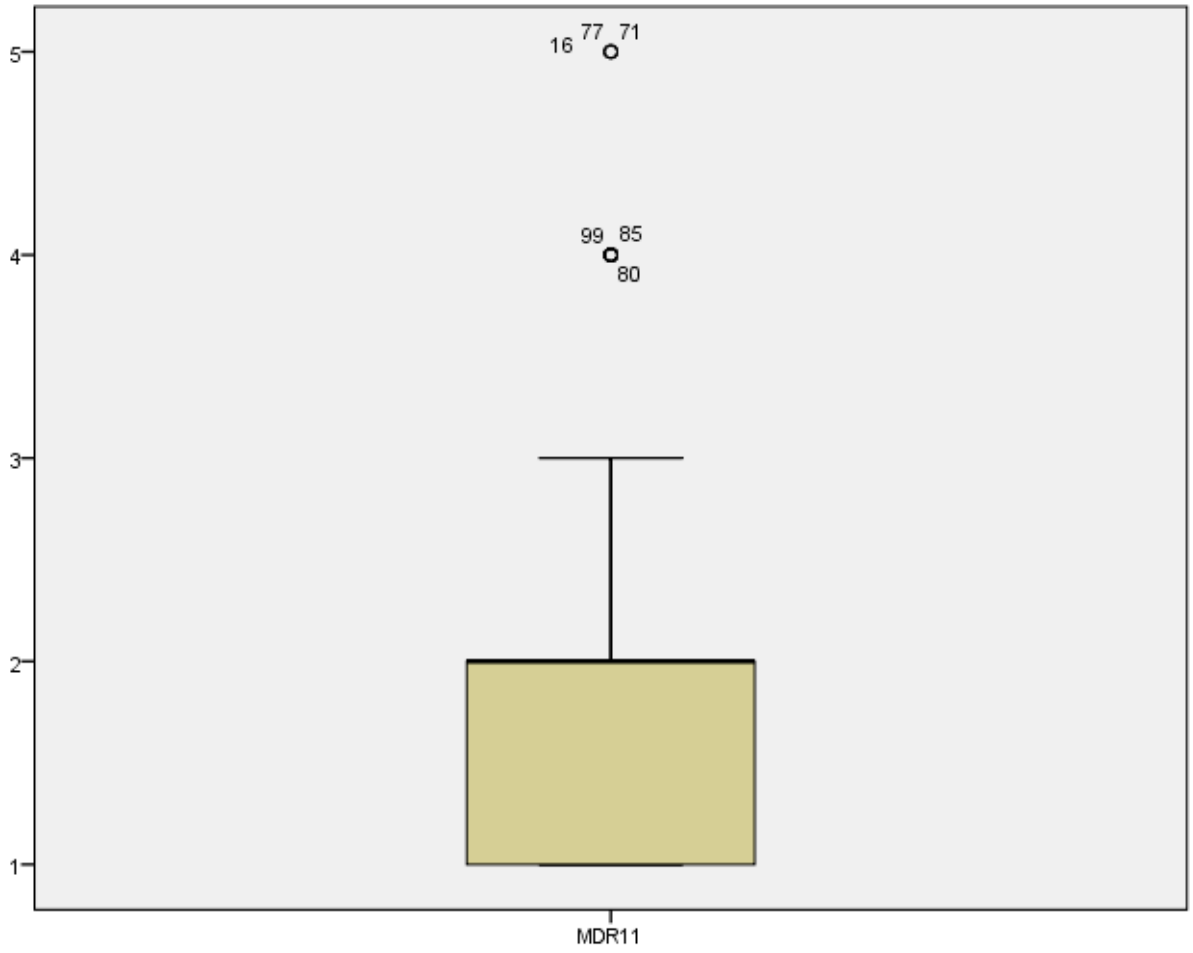


MDR11

```
MDR11 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    34.00        1 .  0000000000000000000000000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    49.00        2 .  0000000000000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
    11.00        3 .  00000000000
    11.00 Extremes    (>=4.0)

 Stem width:       1.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR11
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR11
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value




```
EXAMINE VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
  /COMPARE GROUPS
  /STATISTICS EXTREME
  /MISSING REPORT
  /NOTOTAL.
```

Explore

Notes

Output Created		15-SEP-2022 14:17:38
Comments		
Input	Data	C:\DBA\research paper,\German med paper\statistics\110 spss data.sav
	Active Dataset	DataSet1
	Filter	<none>

	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing. User-defined and system missing values for factors are treated as valid data.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT /COMPARE GROUPS /STATISTICS EXTREME /MISSING REPORT /NOTOTAL.
Resources	Processor Time	00:00:03.28
	Elapsed Time	00:00:03.28

```
[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav
```

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
MDR1	110	100.0%	0	0.0%	110	100.0%
MDR2	110	100.0%	0	0.0%	110	100.0%
MDR3	110	100.0%	0	0.0%	110	100.0%
MDR4	110	100.0%	0	0.0%	110	100.0%
MDR5	110	100.0%	0	0.0%	110	100.0%
MDR6	110	100.0%	0	0.0%	110	100.0%
MDR7	110	100.0%	0	0.0%	110	100.0%
MDR8	110	100.0%	0	0.0%	110	100.0%
MDR9	110	100.0%	0	0.0%	110	100.0%

MDR11	110	100.0%	0	0.0%	110	100.0%

Extreme Values

			Case Number	Value
MDR1	Highest	1	2	5.0
		2	5	5.0
		3	6	5.0
		4	7	5.0
		5	8	5.0[a]
	Lowest	1	99	1.0
		2	77	1.0
		3	76	1.0
		4	90	2.0
		5	85	2.0[b]
MDR2	Highest	1	76	5.0
		2	21	4.0
		3	27	4.0
		4	51	4.0
		5	90	4.0[c]
	Lowest	1	110	1.0
		2	92	1.0
		3	77	1.0
		4	71	1.0
		5	64	1.0[d]
MDR3	Highest	1	7	5.0
		2	9	4.0
		3	13	4.0
		4	15	4.0
		5	50	4.0[c]
	Lowest	1	103	1.0
		2	99	1.0
		3	77	1.0
		4	76	1.0
		5	72	1.0[d]
MDR4	Highest	1	76	5.0
		2	21	4.0
		3	43	3.0
		4	56	3.0
		5	63	3.0[e]
	Lowest	1	104	1.0

		2	102	1.0
		3	94	1.0
		4	93	1.0
		5	82	1.0[d]
		1	8	5.0
		2	71	5.0
	Highest	3	2	4.0
		4	7	4.0
		5	15	4.0[c]
MDR5		1	103	1.0
		2	99	1.0
	Lowest	3	82	1.0
		4	77	1.0
		5	76	1.0[d]
		1	21	5.0
		2	76	5.0
	Highest	3	77	5.0
		4	5	4.0
		5	27	4.0[c]
MDR6		1	110	1.0
		2	103	1.0
	Lowest	3	80	1.0
		4	72	1.0
		5	62	1.0[d]
		1	76	5.0
		2	77	5.0
	Highest	3	85	4.0
		4	90	4.0
		5	99	4.0
MDR7		1	110	1.0
		2	101	1.0
	Lowest	3	94	1.0
		4	92	1.0
		5	88	1.0[d]
		1	77	5.0
		2	76	4.0
	Highest	3	21	3.0
		4	32	3.0
MDR8		5	38	3.0[e]
		1	99	1.0
		2	79	1.0
	Lowest	3	75	1.0
		4	72	1.0

MDR9	Highest	5	61	1.0[d]
		1	16	5.0
		2	17	5.0
		3	18	5.0
		4	42	5.0
		5	68	5.0[a]
	Lowest	1	99	1.0
		2	90	1.0
		3	89	1.0
		4	85	1.0
		5	78	1.0[d]
MDR11	Highest	1	16	5.0
		2	71	5.0
		3	77	5.0
		4	2	4.0
		5	21	4.0[c]
	Lowest	1	110	1.0
		2	96	1.0
		3	87	1.0
		4	83	1.0
		5	76	1.0[d]

a. Only a partial list of cases with the value 5.0 are shown in the table of upper extremes.

b. Only a partial list of cases with the value 2.0 are shown in the table of lower extremes.

c. Only a partial list of cases with the value 4.0 are shown in the table of upper extremes.

d. Only a partial list of cases with the value 1.0 are shown in the table of lower extremes.

e. Only a partial list of cases with the value 3.0 are shown in the table of upper extremes.

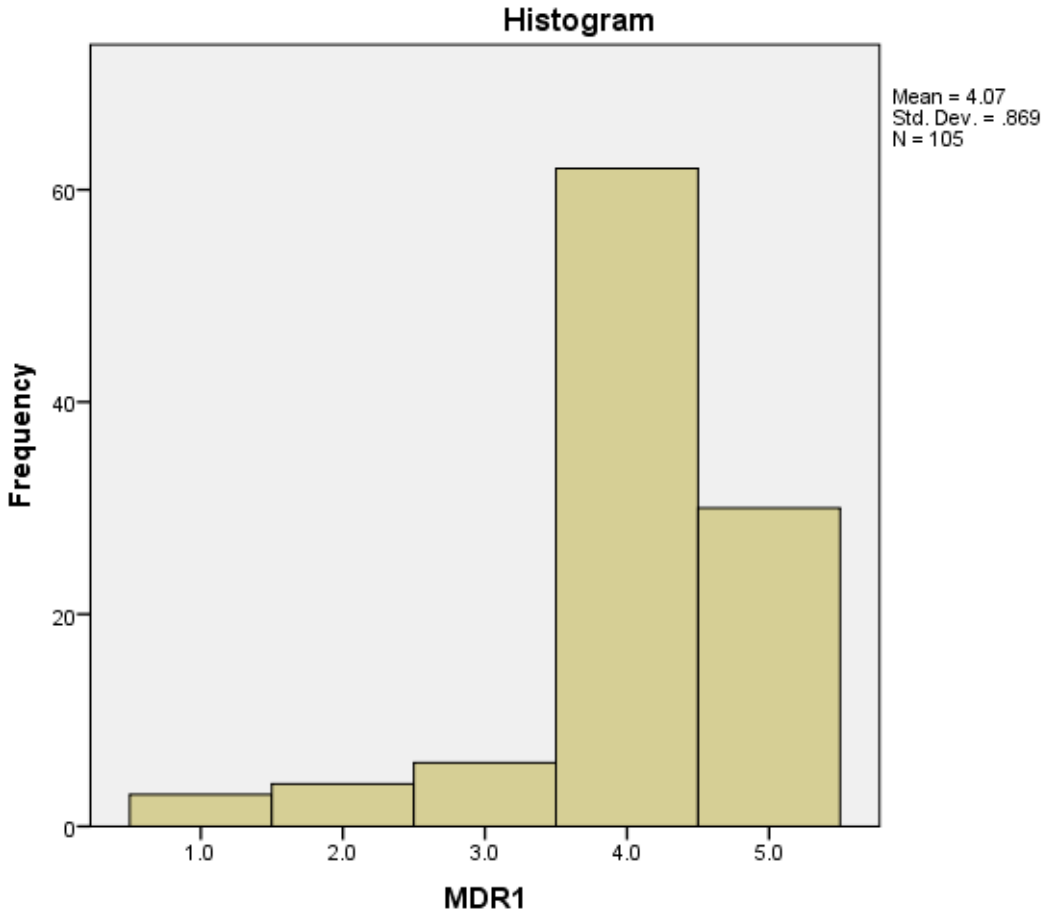
Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
MDR1	.346	110	.000	.731	110	.000
MDR2	.393	110	.000	.697	110	.000
MDR3	.296	110	.000	.859	110	.000
MDR4	.293	110	.000	.730	110	.000

MDR5	.240	110	.000	.879	110	.000
MDR6	.390	110	.000	.725	110	.000
MDR7	.301	110	.000	.689	110	.000
MDR8	.358	110	.000	.744	110	.000
MDR9	.227	110	.000	.887	110	.000
MDR11	.298	110	.000	.808	110	.000

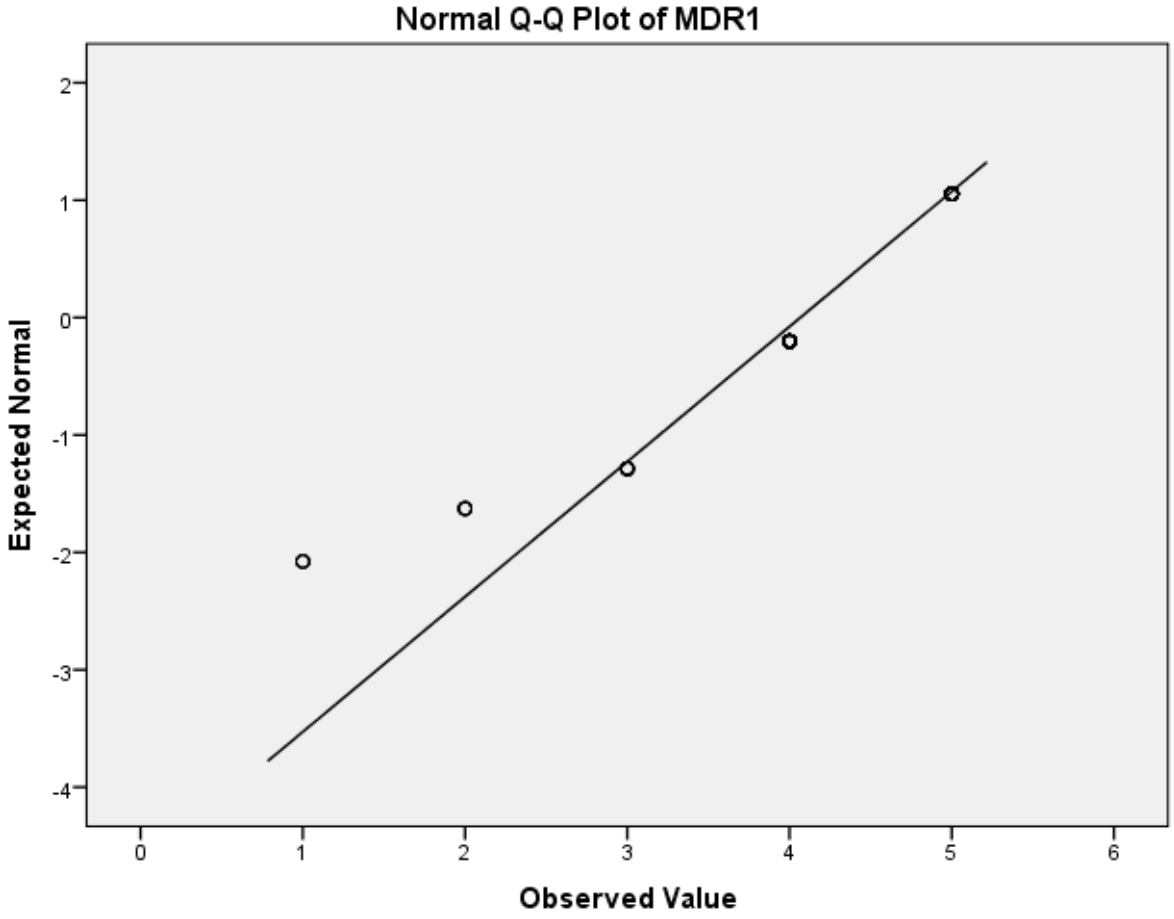
a. Lilliefors Significance Correction

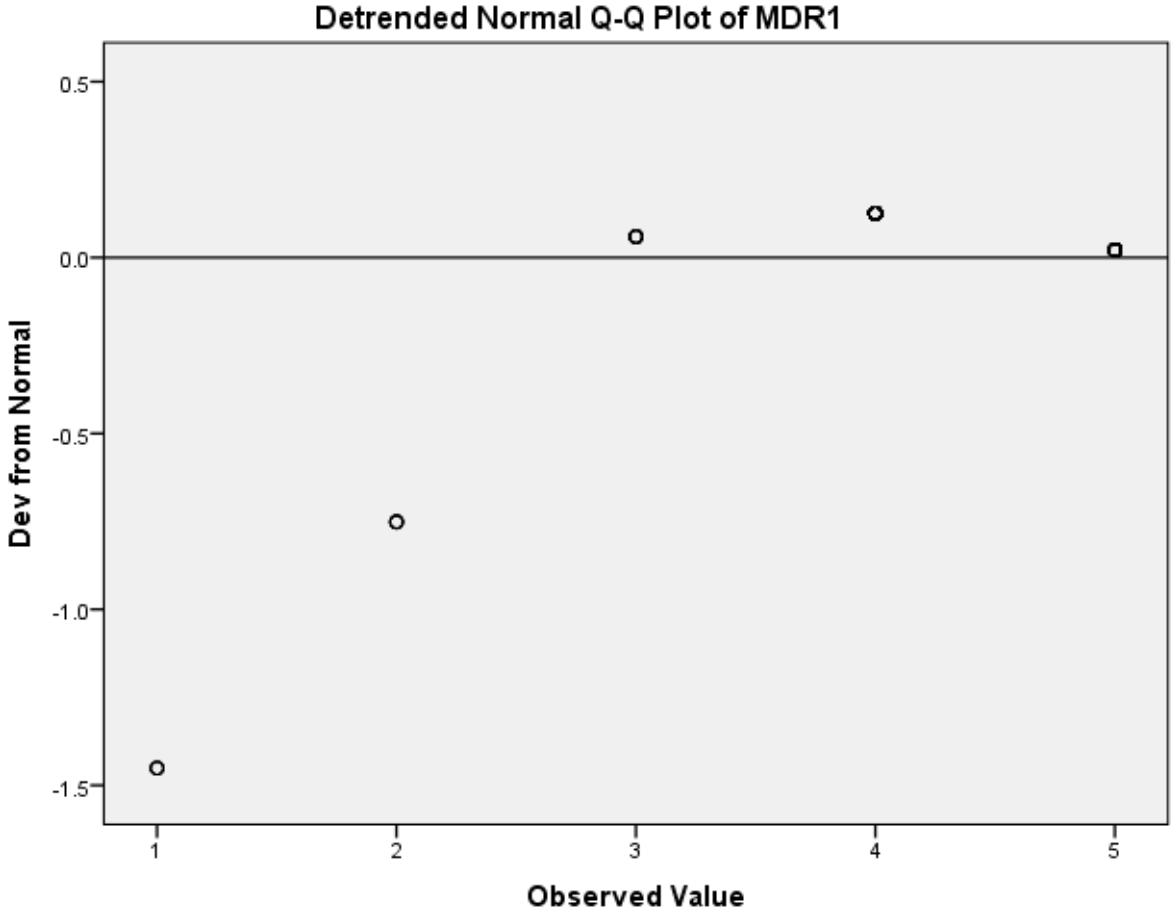
MDR1

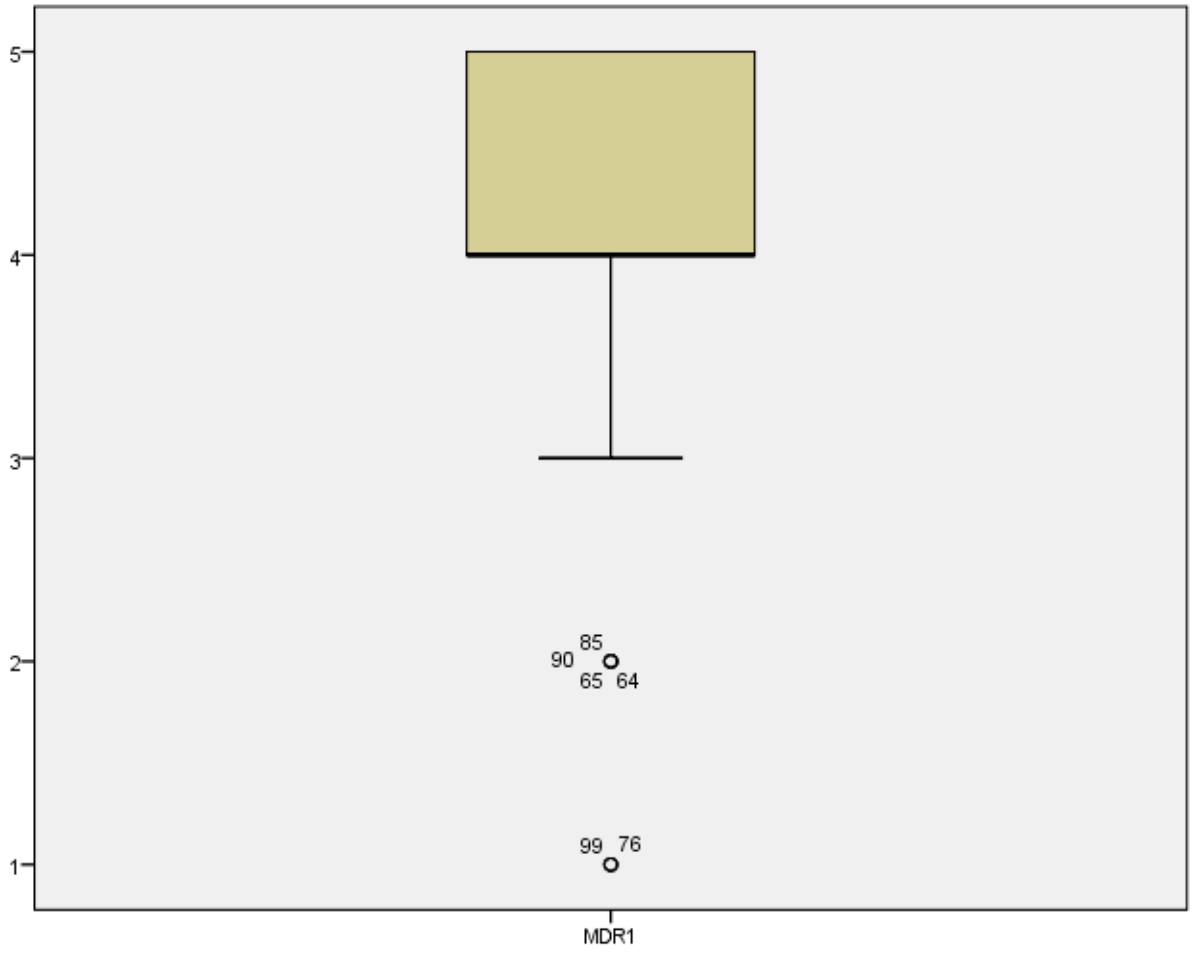



```
MDR1 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     7.00 Extremes    (=<2.0)
     6.00        3 .  000000
```

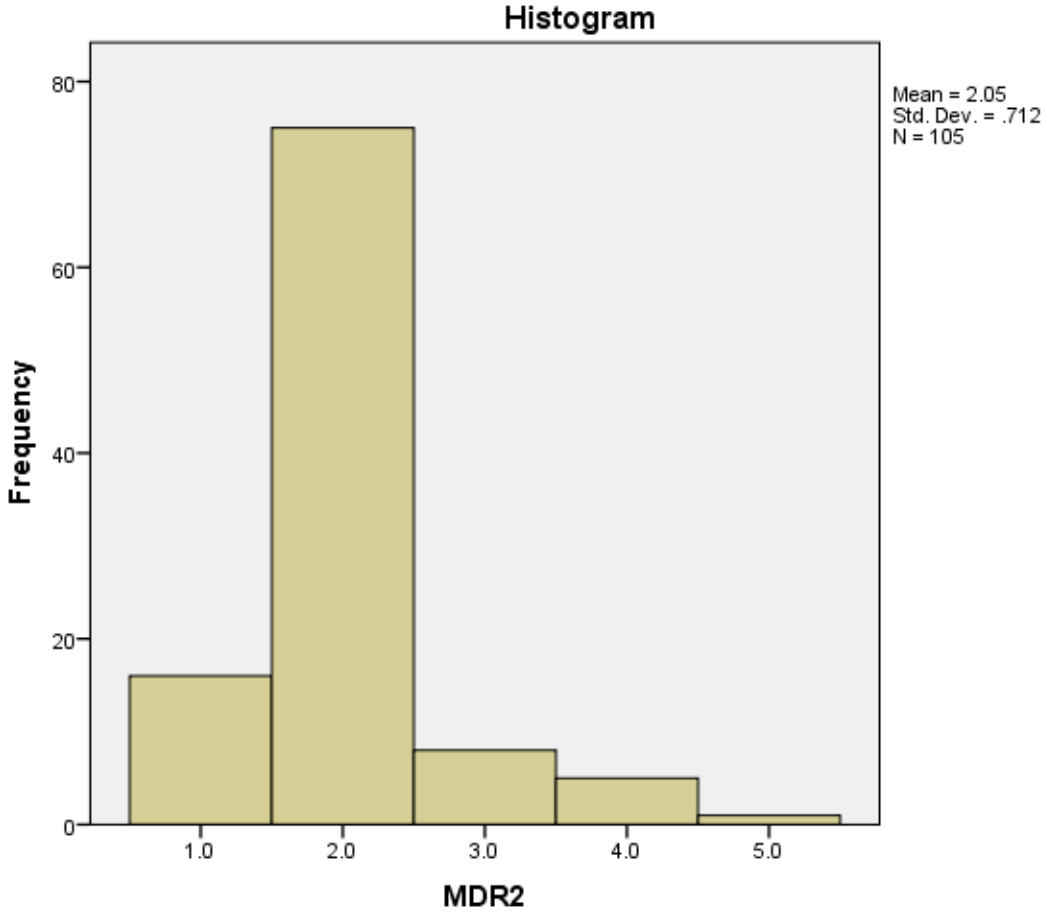
```
      .00         3 .
      .00         3 .
      .00         3 .
      .00         3 .
    62.00         4 .
000000000000000000000000000000000000000000000000000000000000000000000000
      .00         4 .
      .00         4 .
      .00         4 .
      .00         4 .
    30.00         5 .  00000000000000000000000000000

 Stem width:       1.0
 Each leaf:       1 case(s)
```



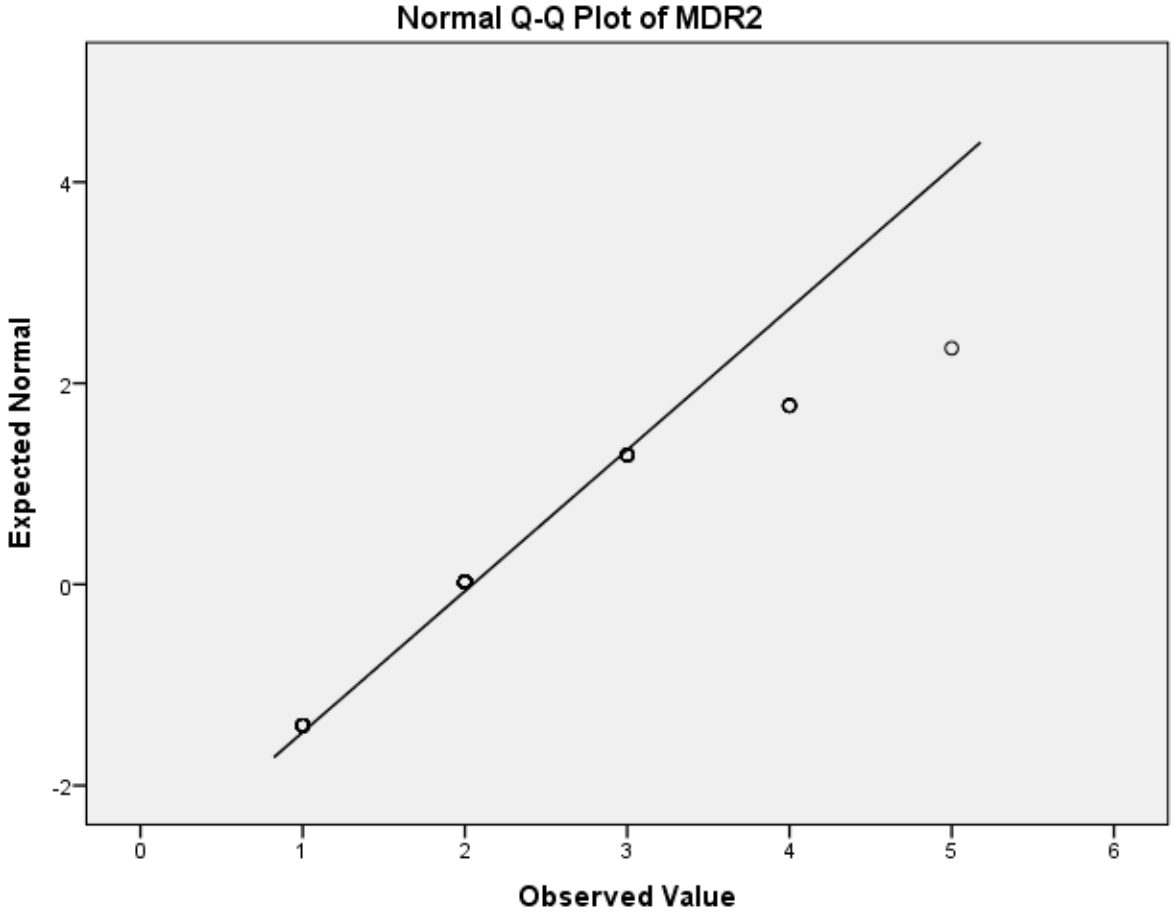

Detrended Normal Q-Q Plot of MDR1
Dev from Normal
0.5
0.0
-0.5
-1.0
-1.5
1
2
3
4
5
Observed Value

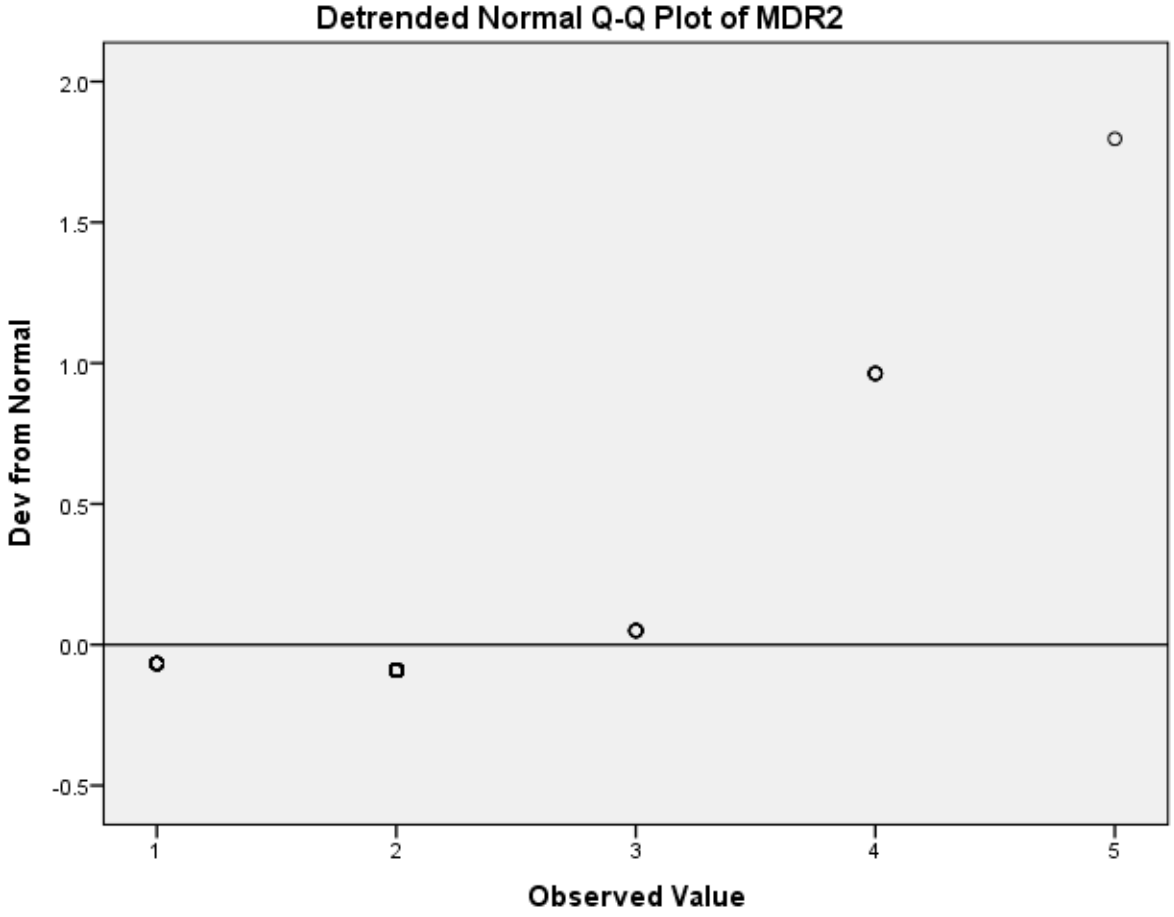


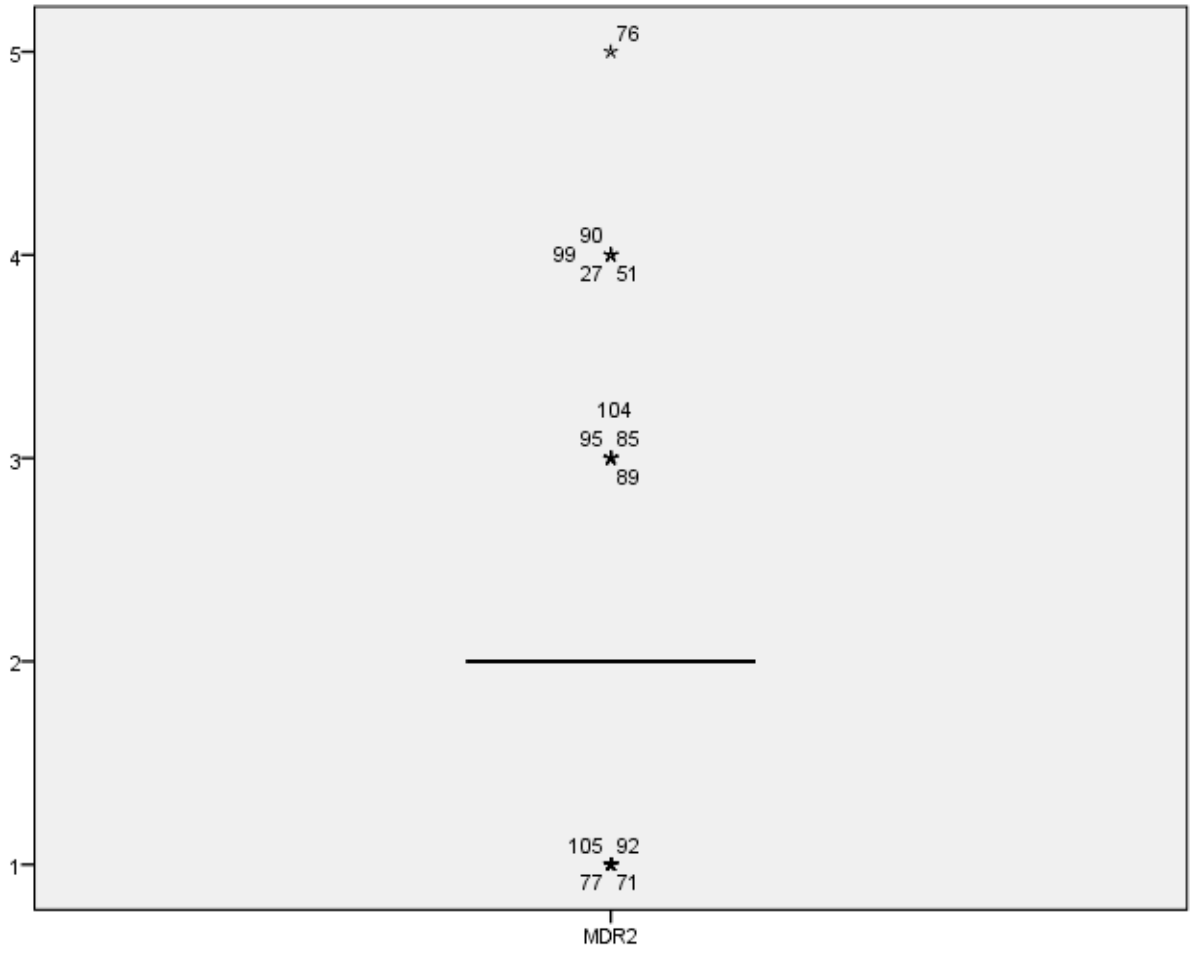
MDR2



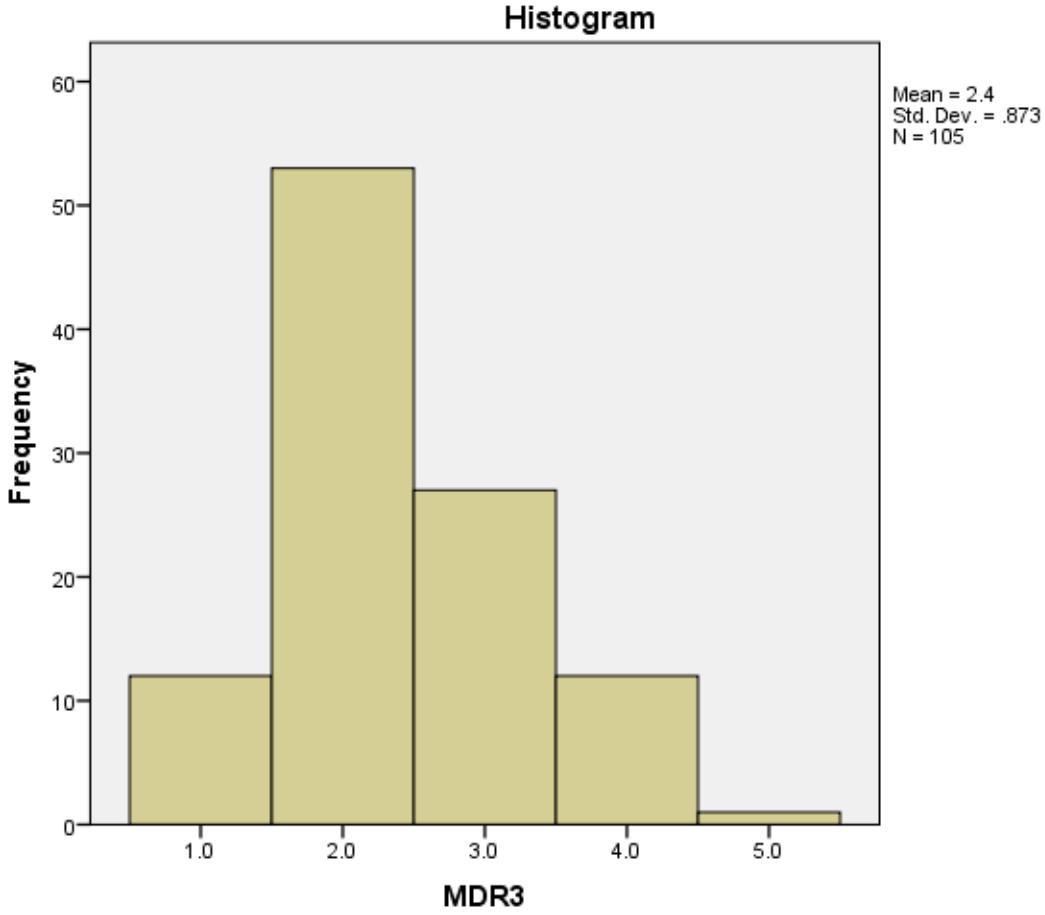

```
MDR2 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    16.00 Extremes    (=<1)
      .00         0 .
    75.00         0 .
22222222222222222222222222222222222222222222222222222222222222222222222222222
    14.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR2
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR2
Dev from Normal
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value



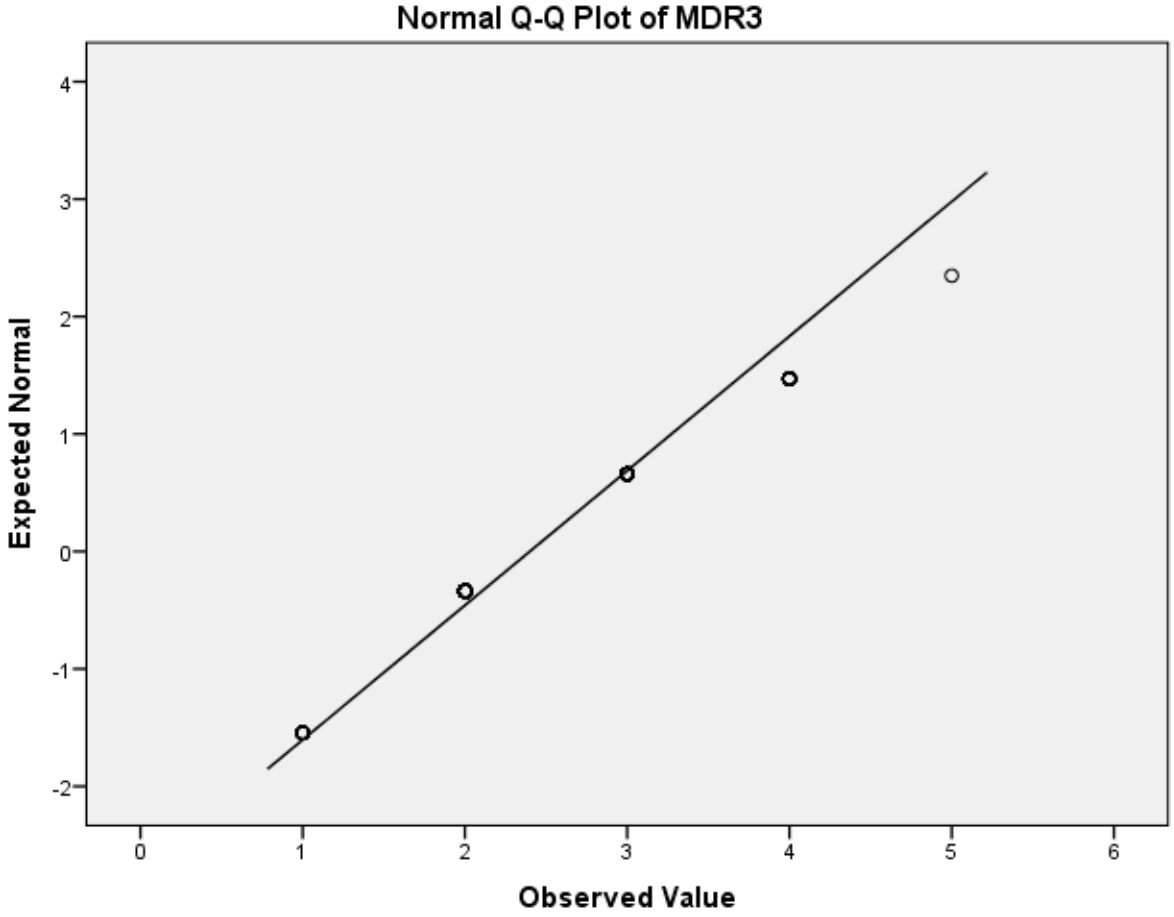
MDR3

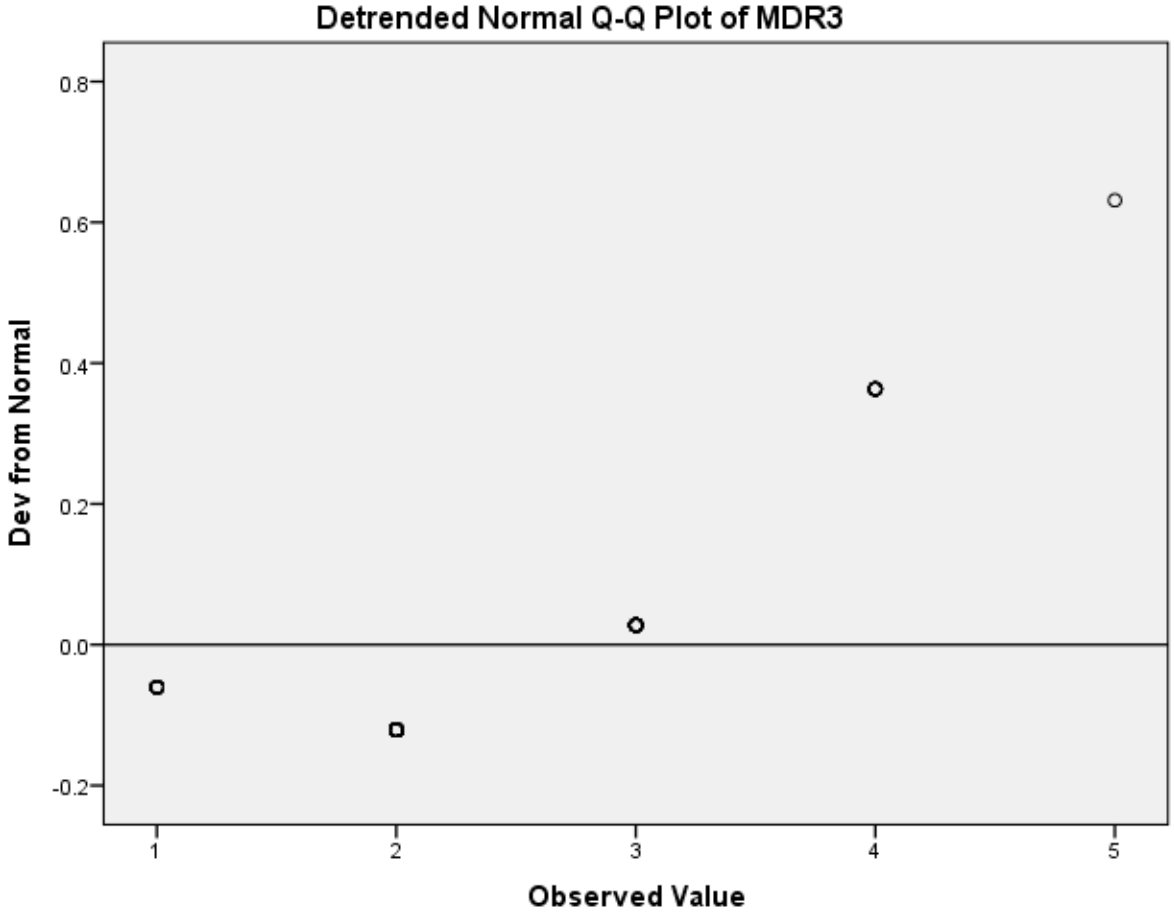


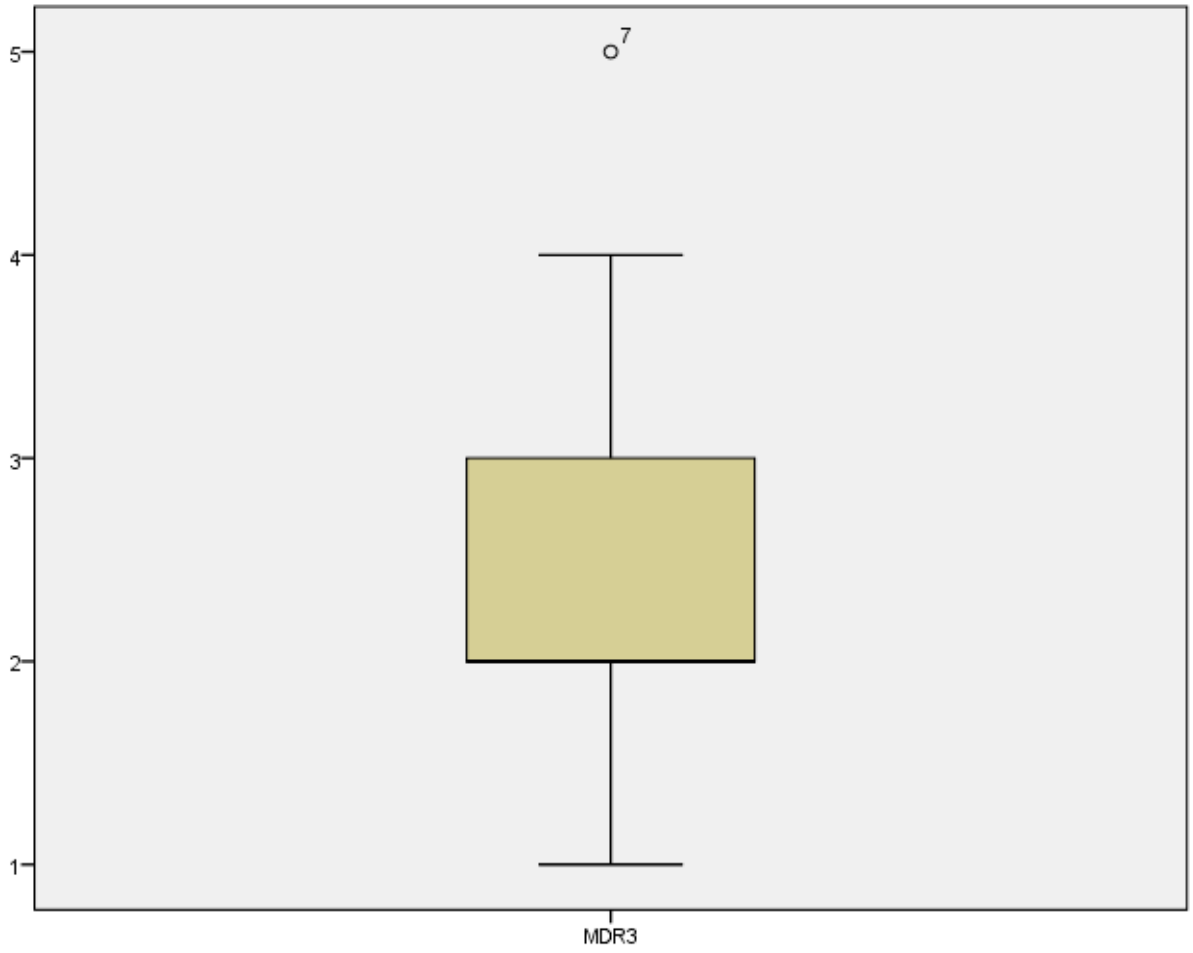
MDR3 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
12.00	1 .	000000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
53.00	2 .	00000000000000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
27.00	3 .	000000000000000000000000000
.00	3 .	
.00	3 .	
.00	3 .	
.00	3 .	
12.00	4 .	000000000000
1.00	Extremes	(>=5.0)

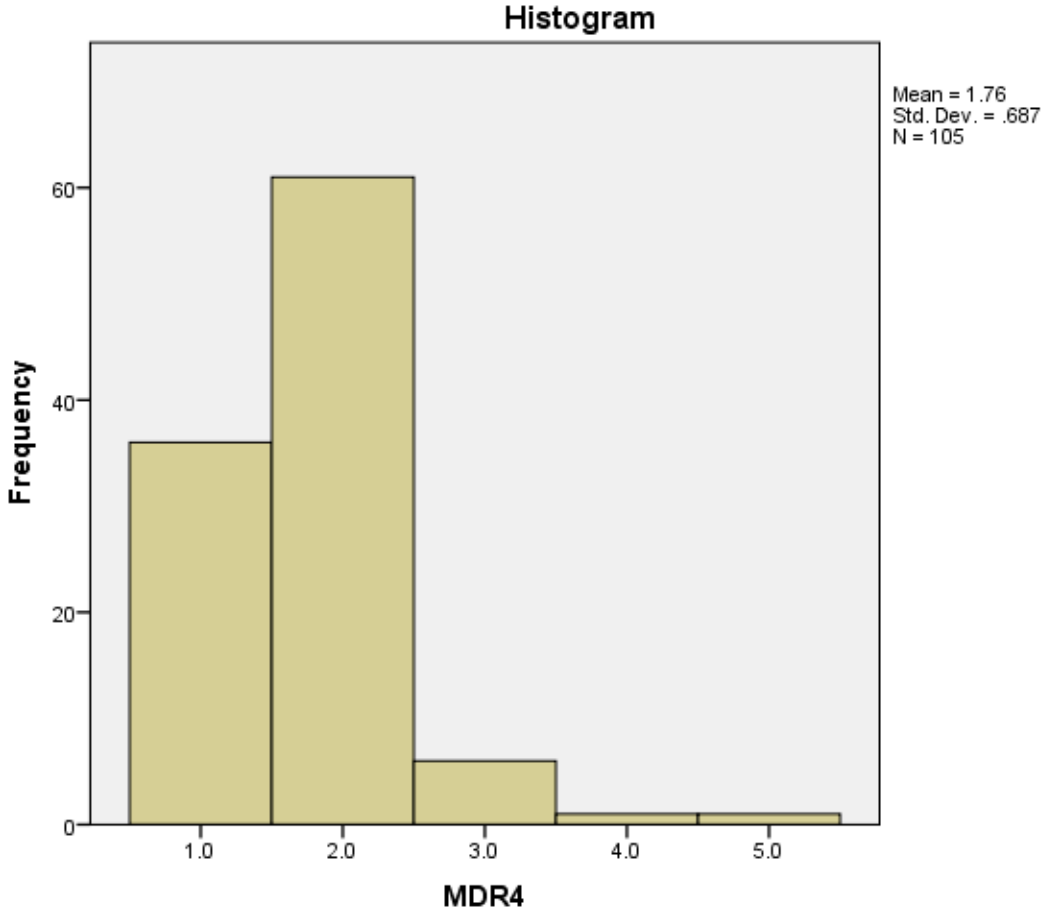
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of MDR3
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR3
Dev from Normal
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value



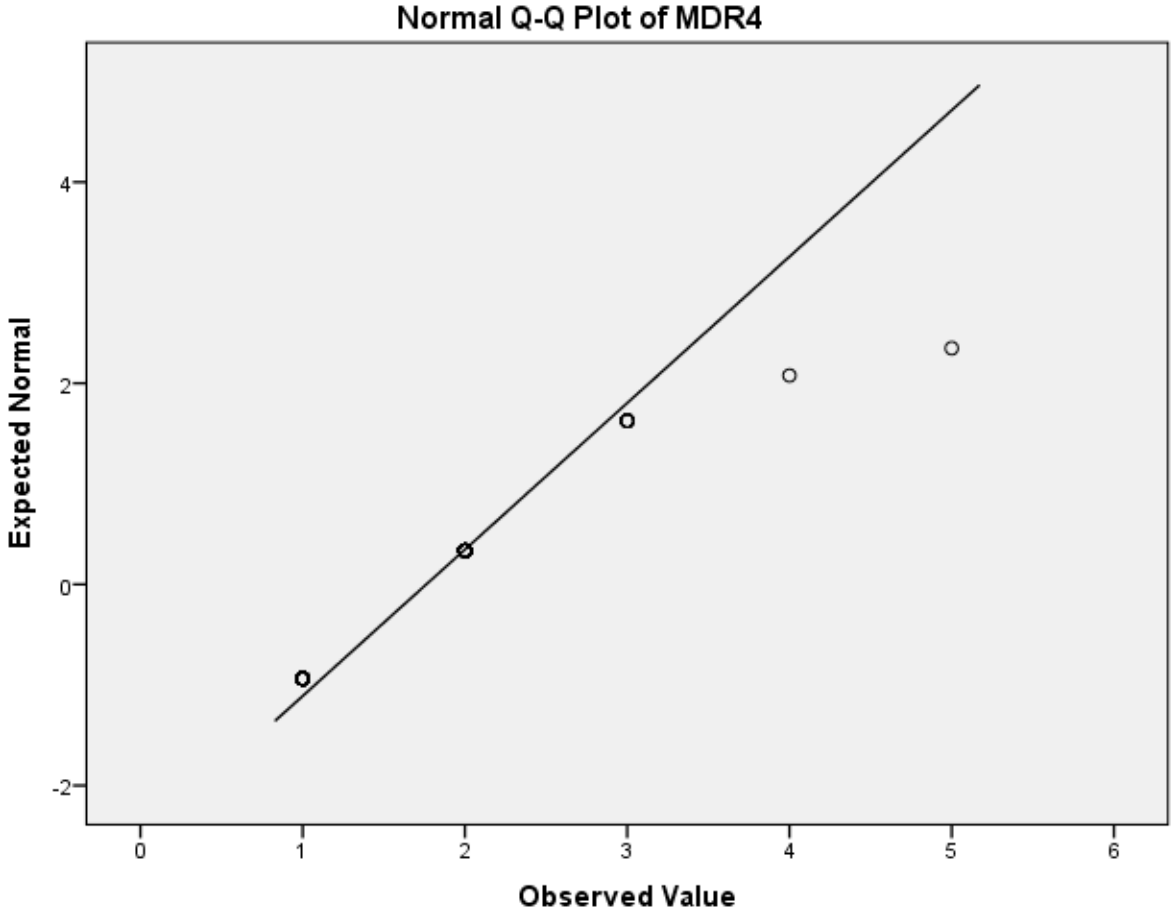
MDR4

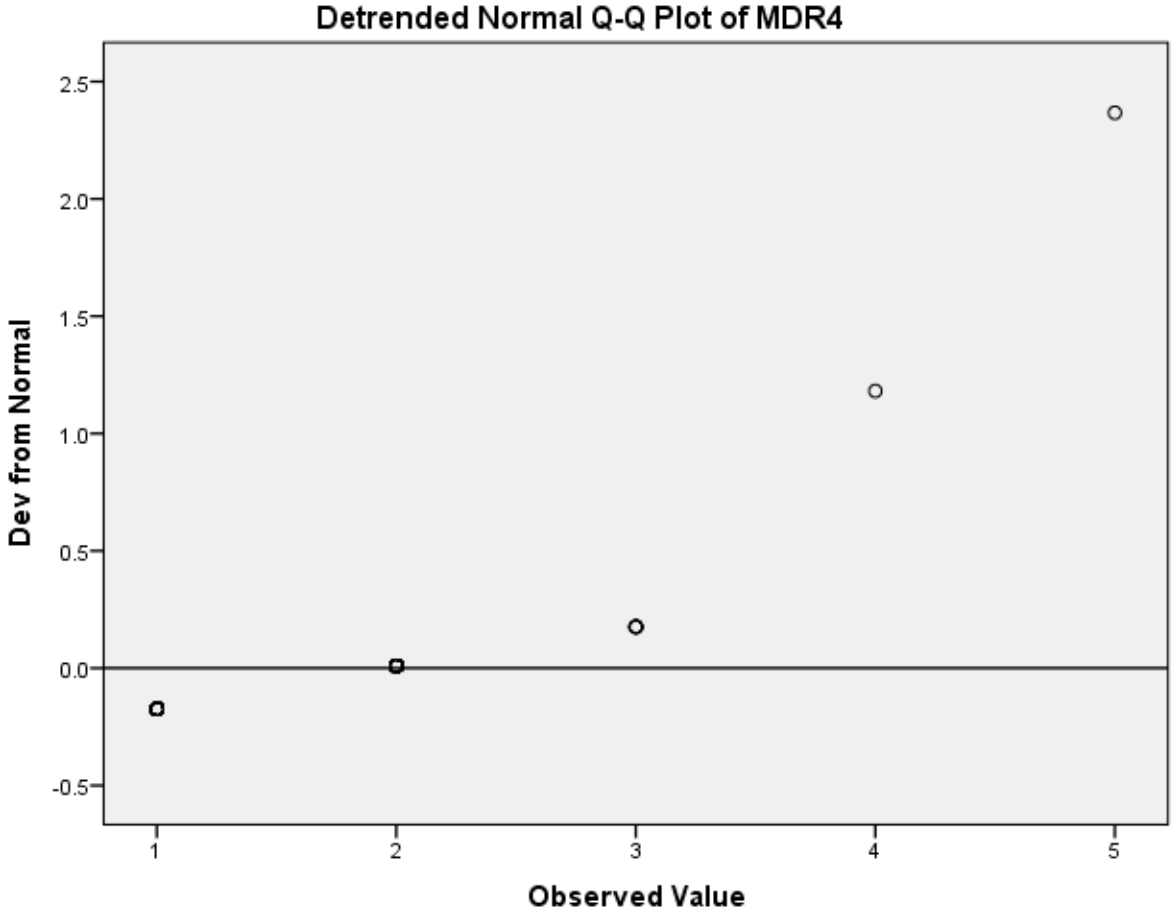


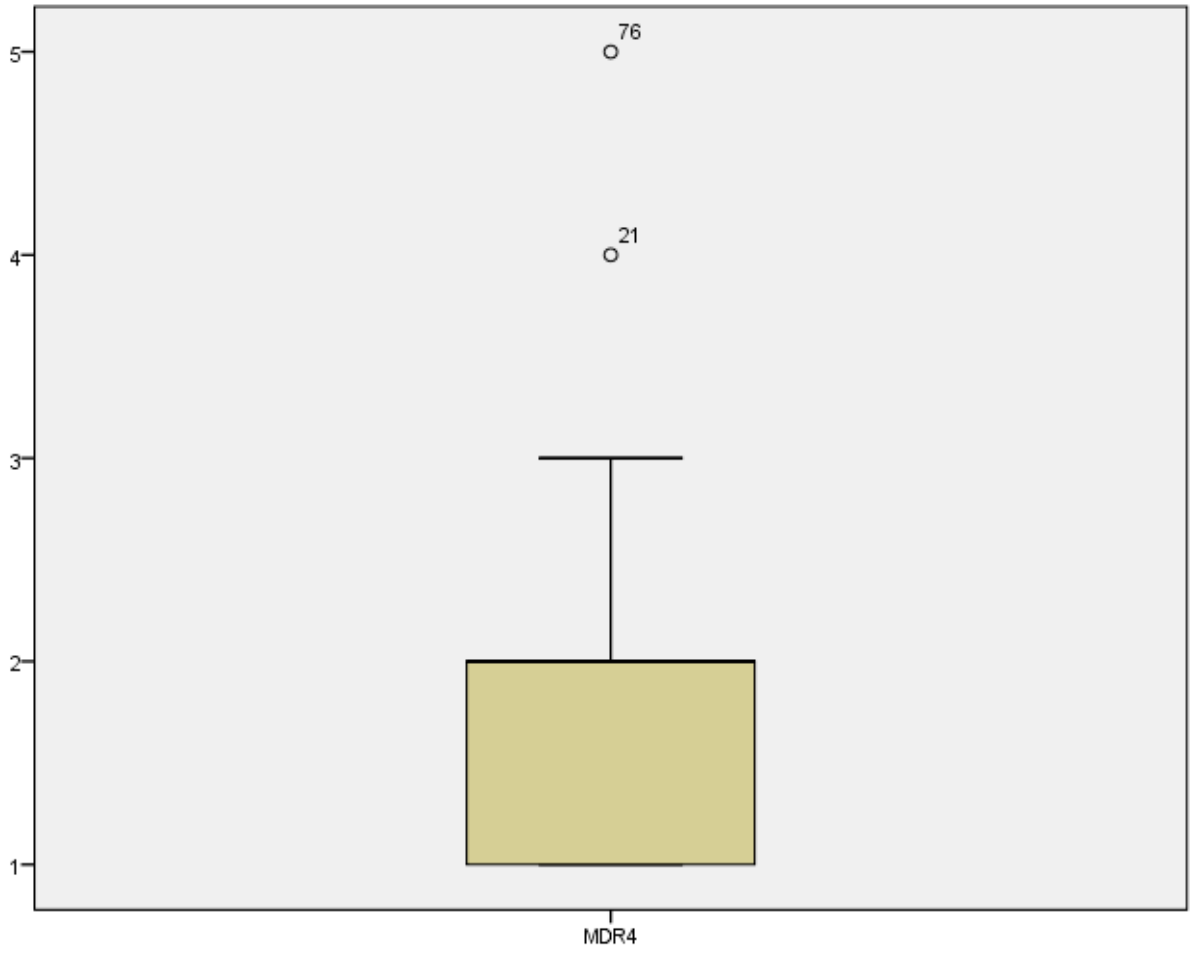
MDR4 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
36.00	1 .	000000000000000000000000000000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
61.00	2 .	0000000000000000000000000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
6.00	3 .	000000
2.00	Extremes	(>=4.0)

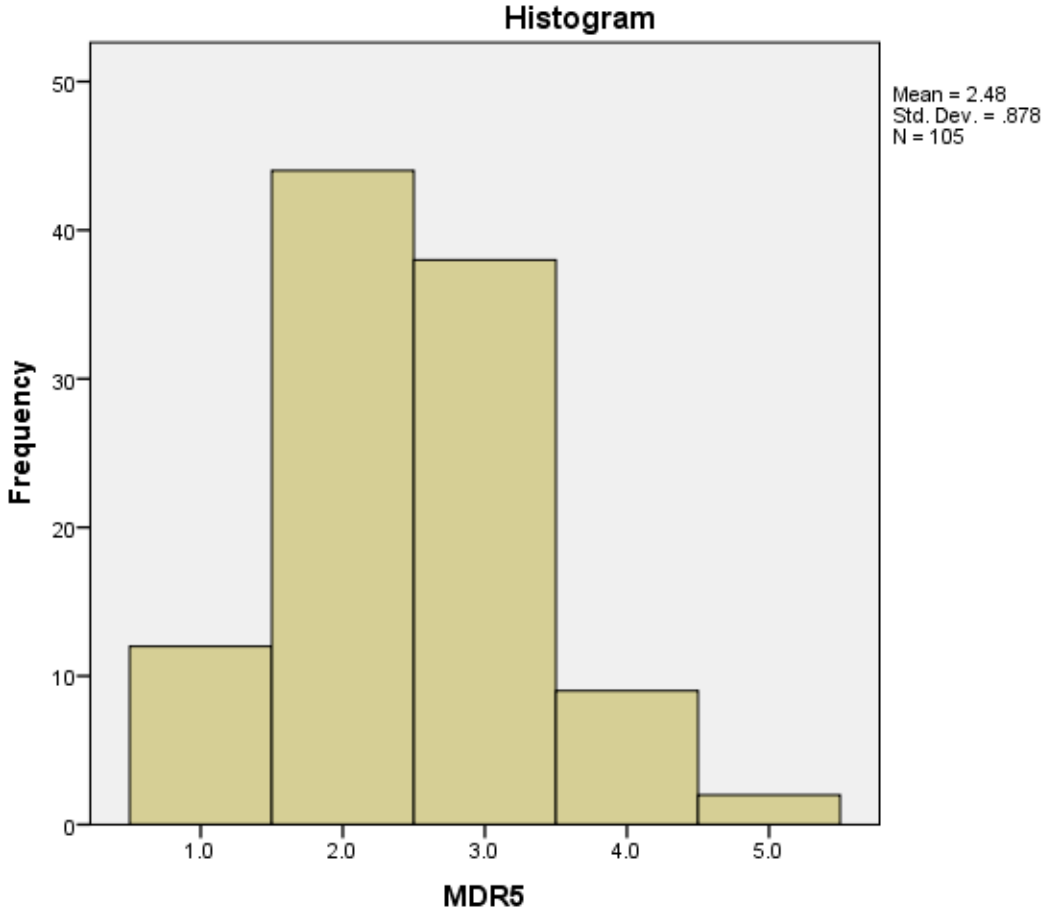
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of MDR4
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR4
Dev from Normal
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value



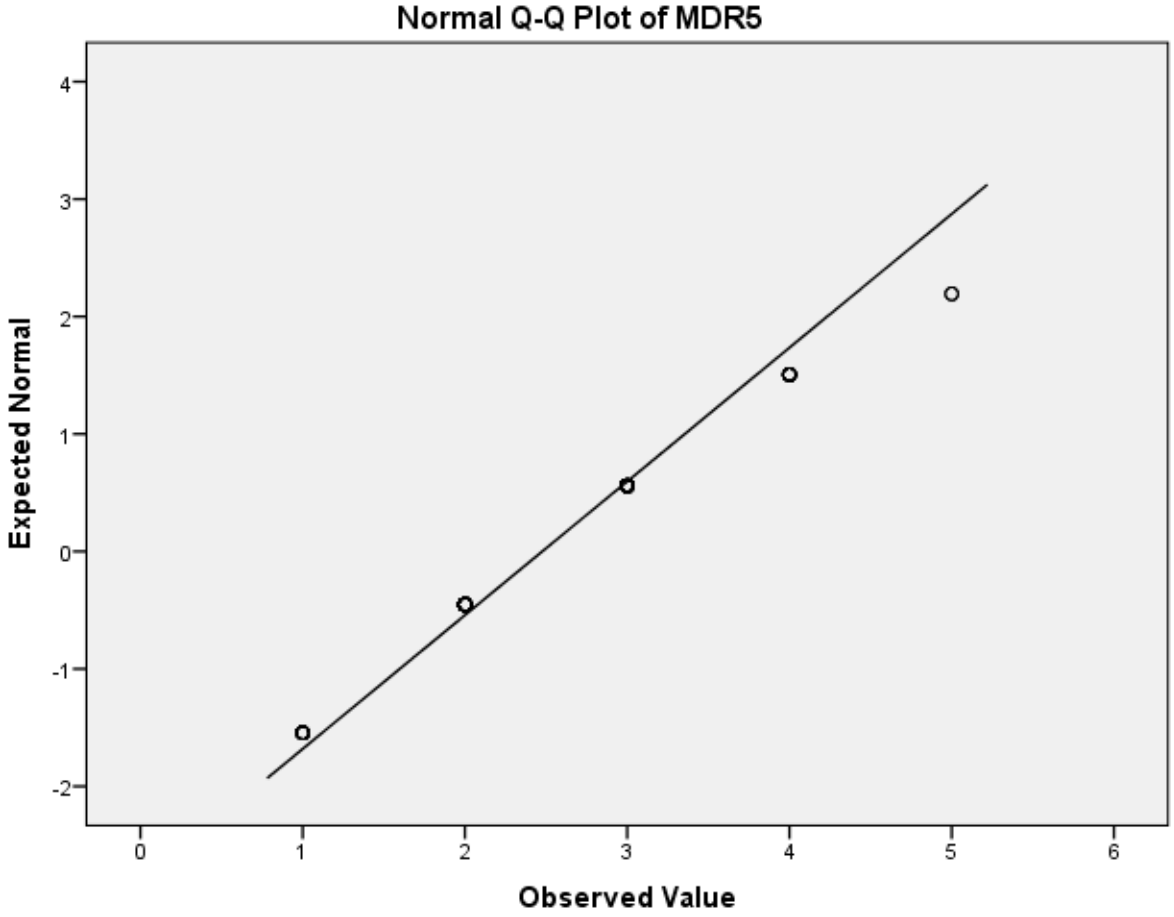
MDR5

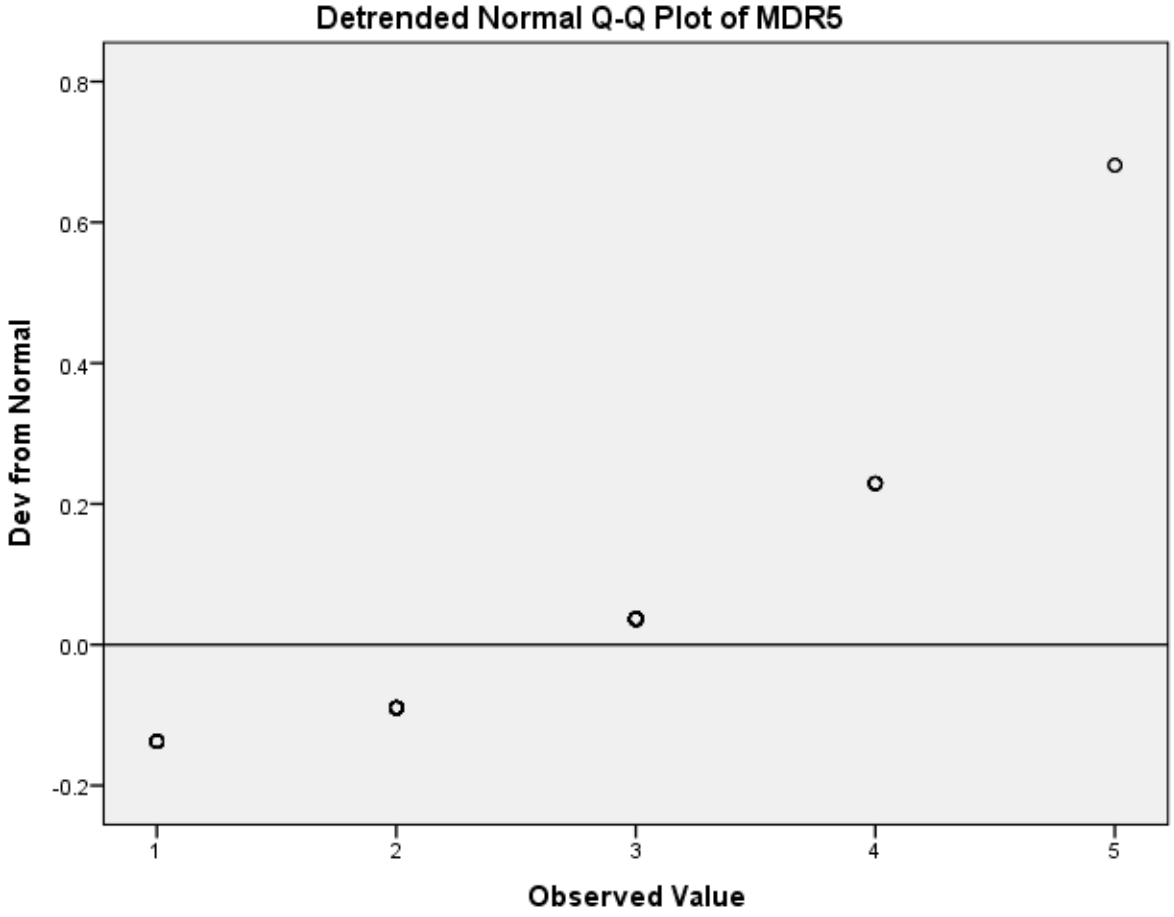


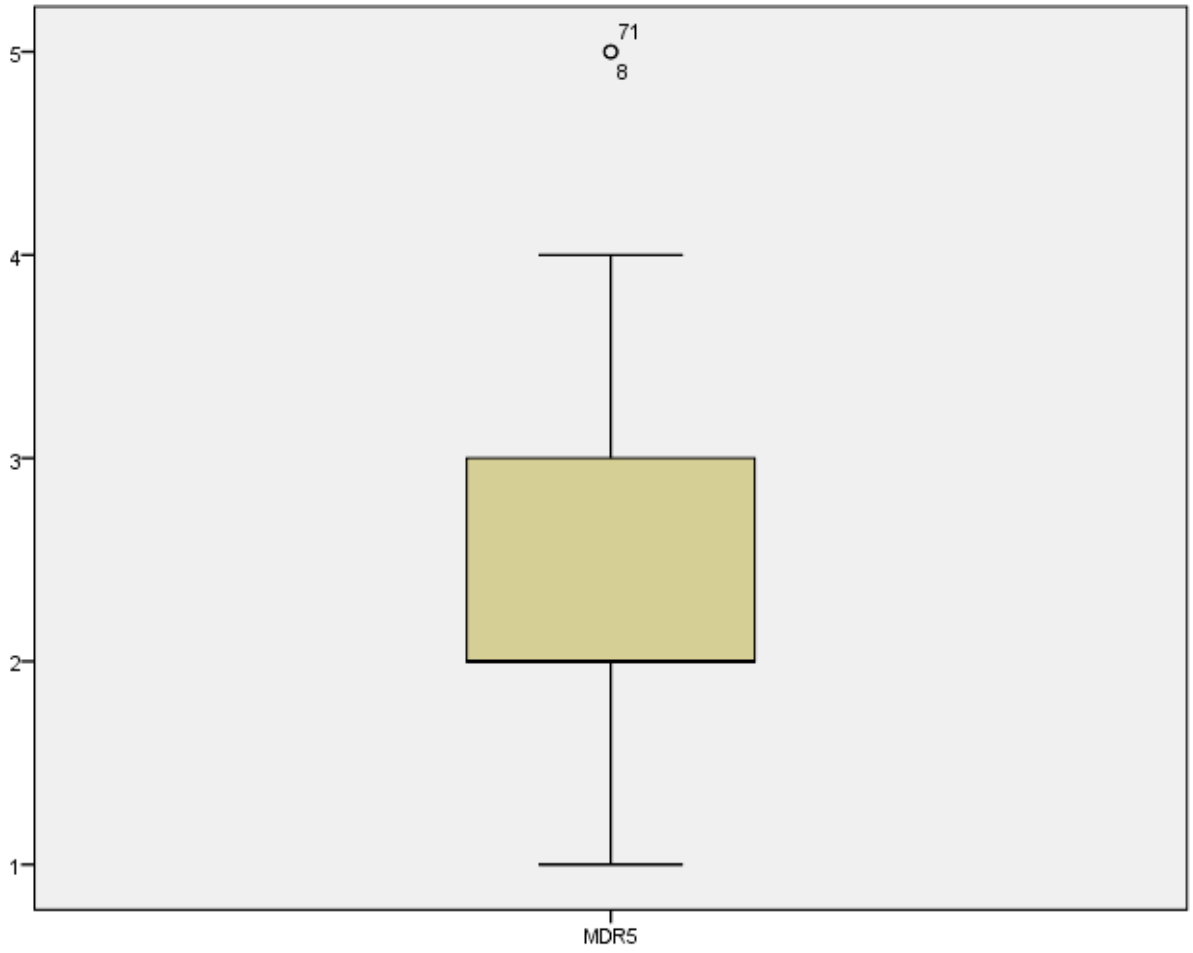
MDR5 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
12.00	1 .	000000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
44.00	2 .	00000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
38.00	3 .	00000000000000000000000000000000000000
.00	3 .	
.00	3 .	
.00	3 .	
.00	3 .	
9.00	4 .	000000000
2.00	Extremes	(>=5.0)

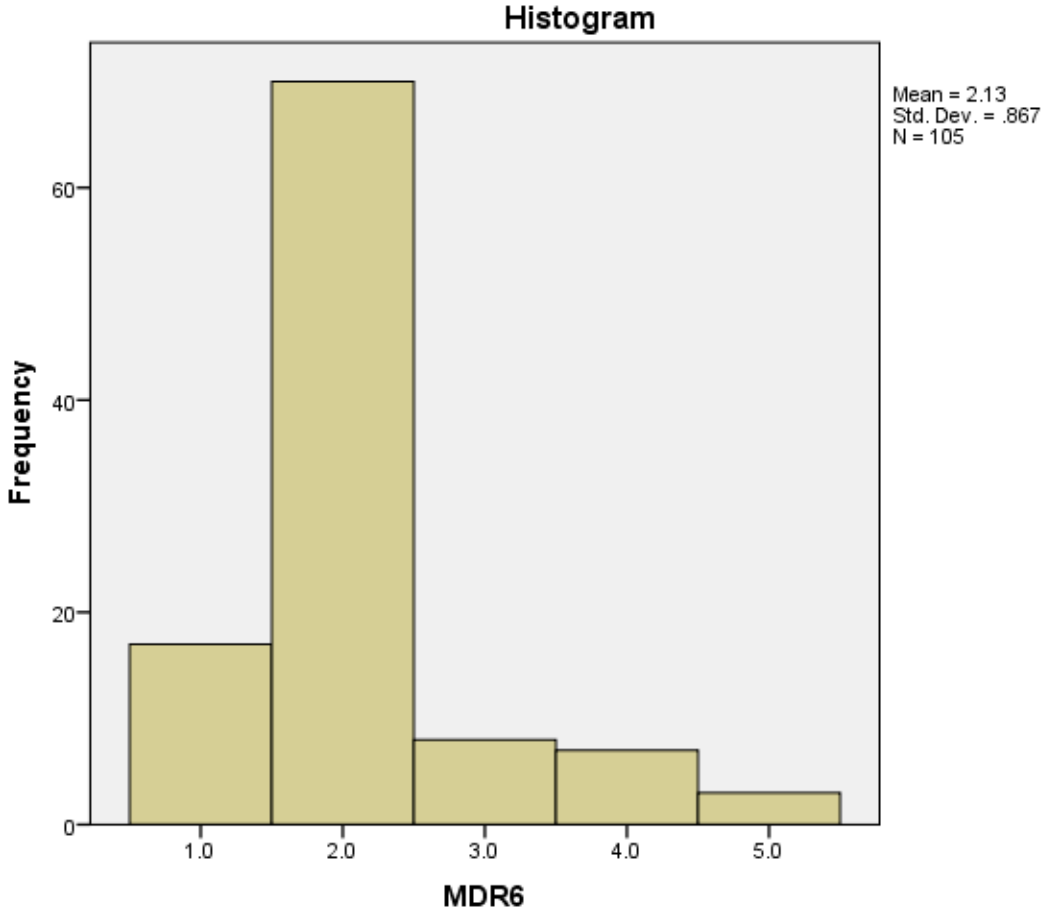
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of MDR5
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6

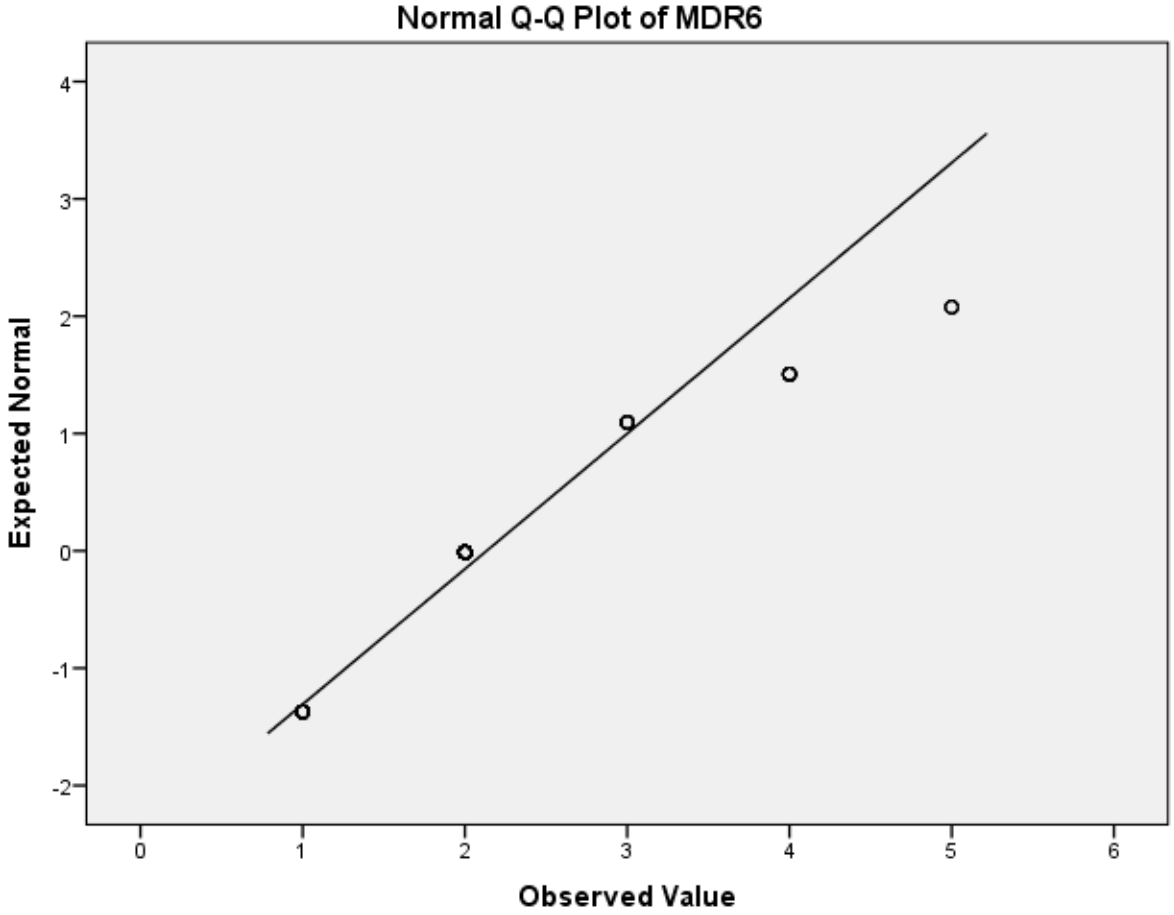

Detrended Normal Q-Q Plot of MDR5
Dev from Normal
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

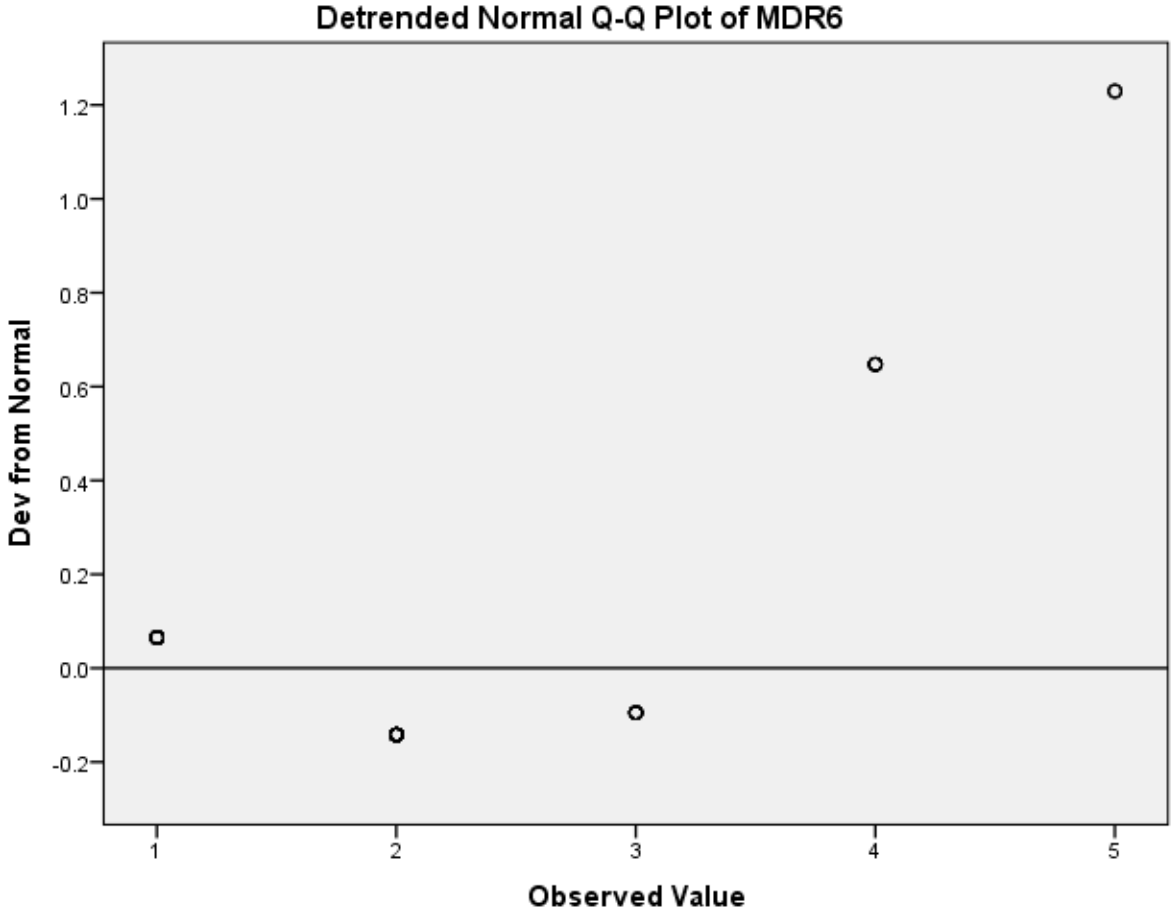


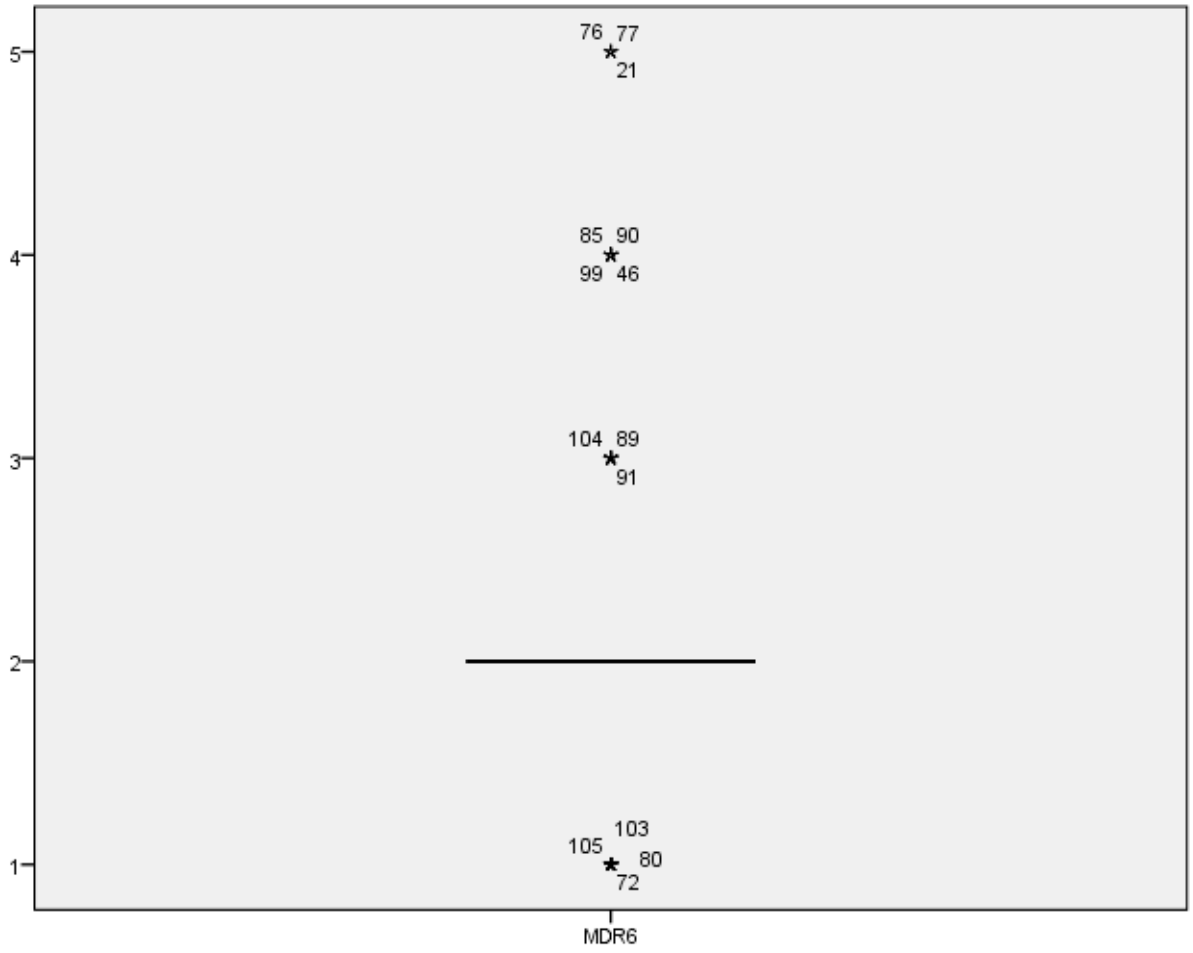
MDR6



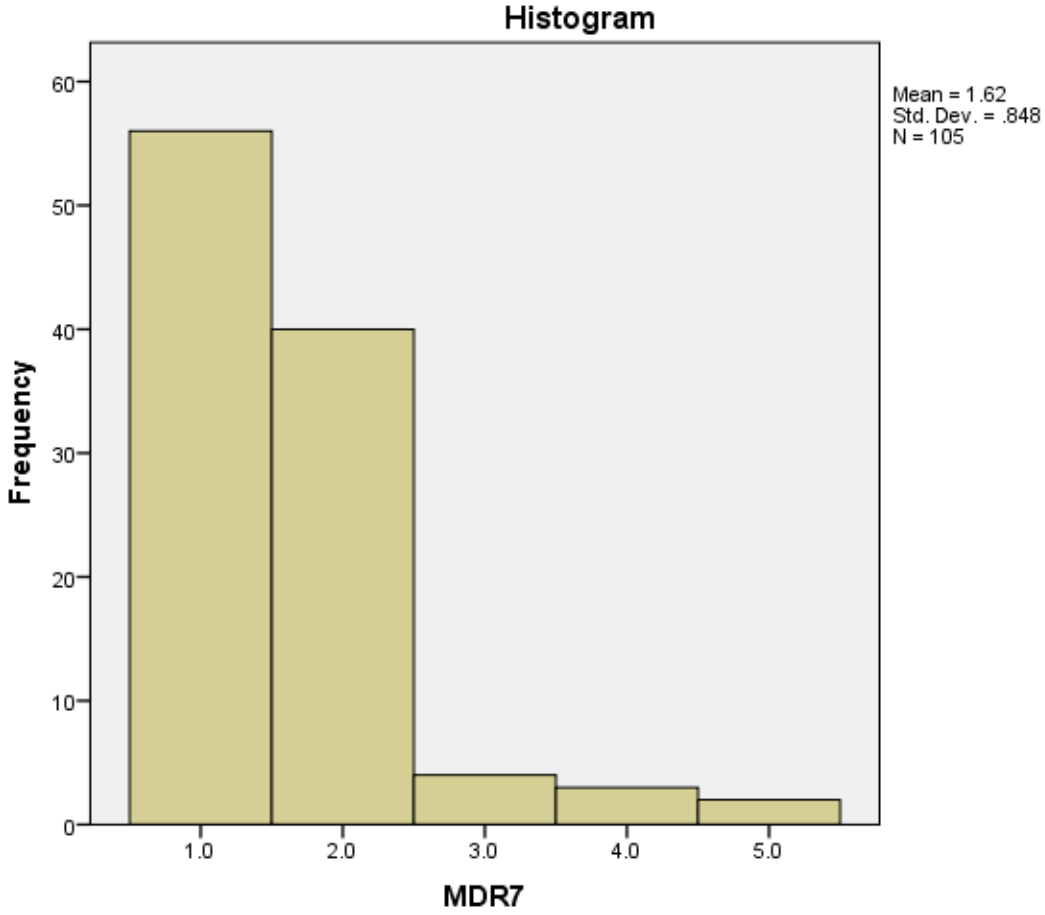

```
MDR6 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    17.00 Extremes    (=<1)
      .00         0 .
    70.00         0 .
22222222222222222222222222222222222222222222222222222222222222222222
    18.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR6
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6

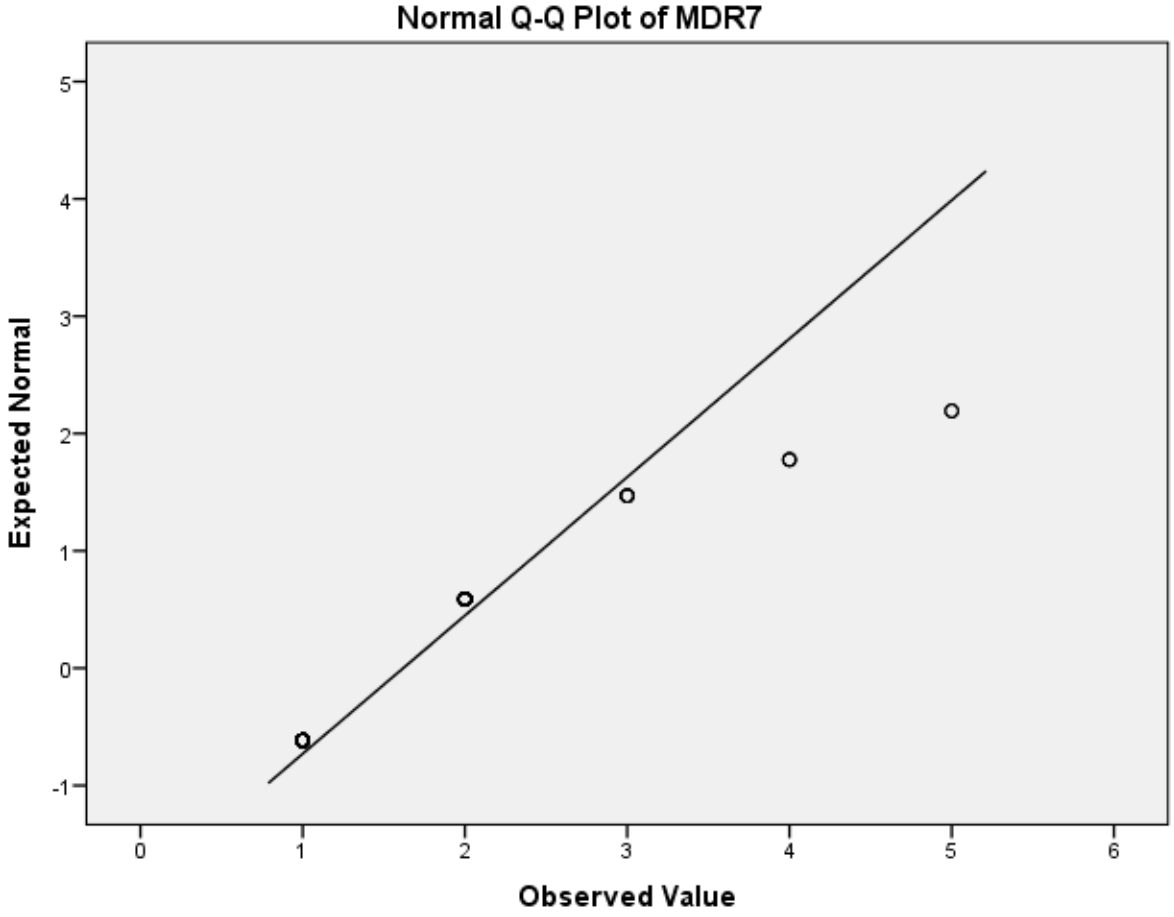

Detrended Normal Q-Q Plot of MDR6
Dev from Normal
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

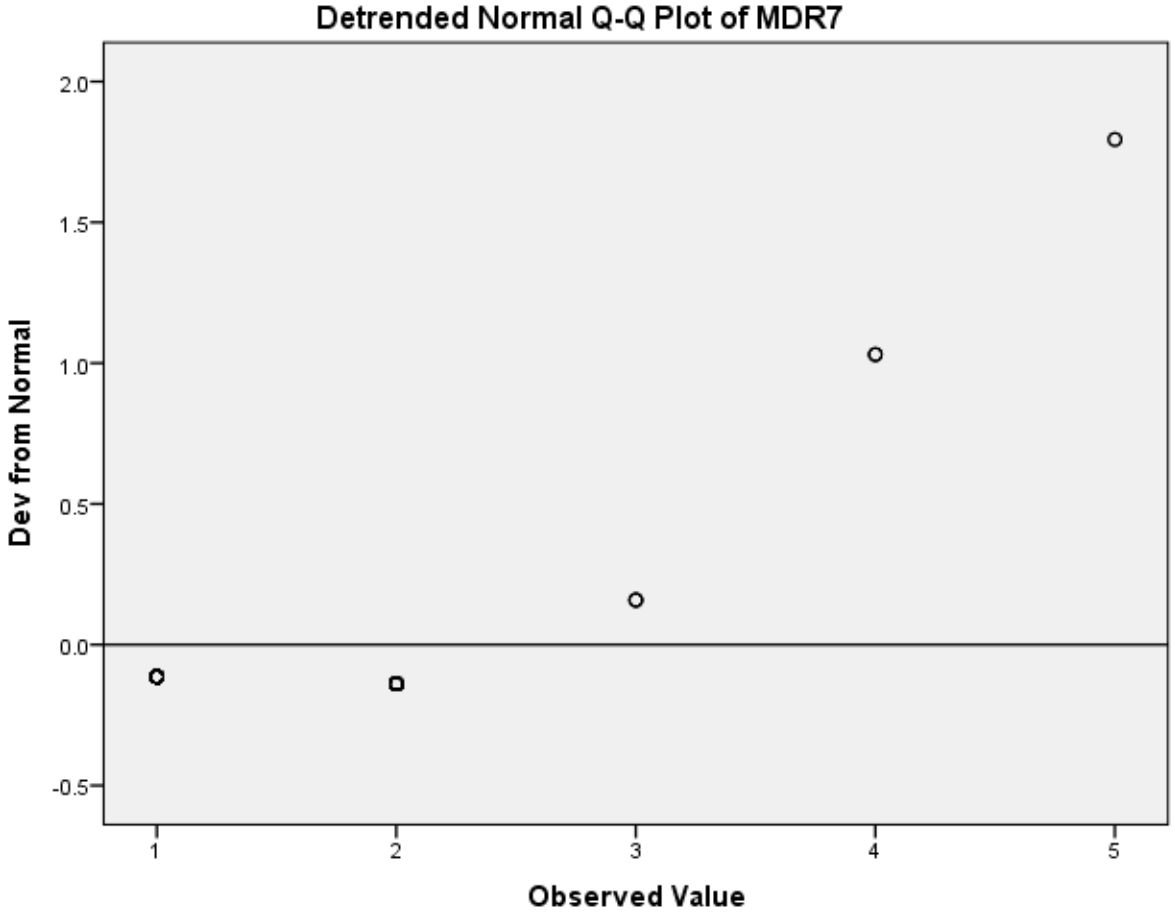


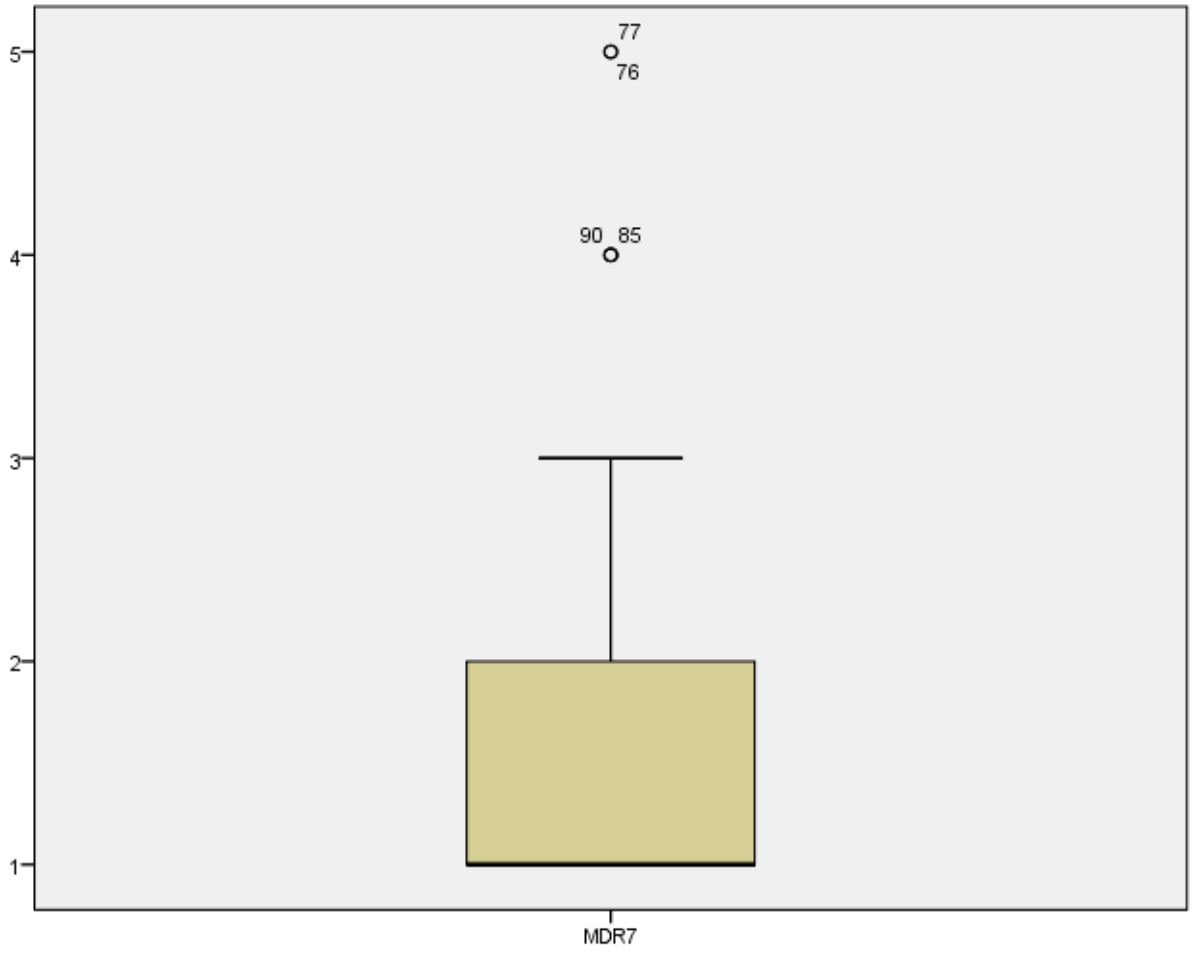
MDR7



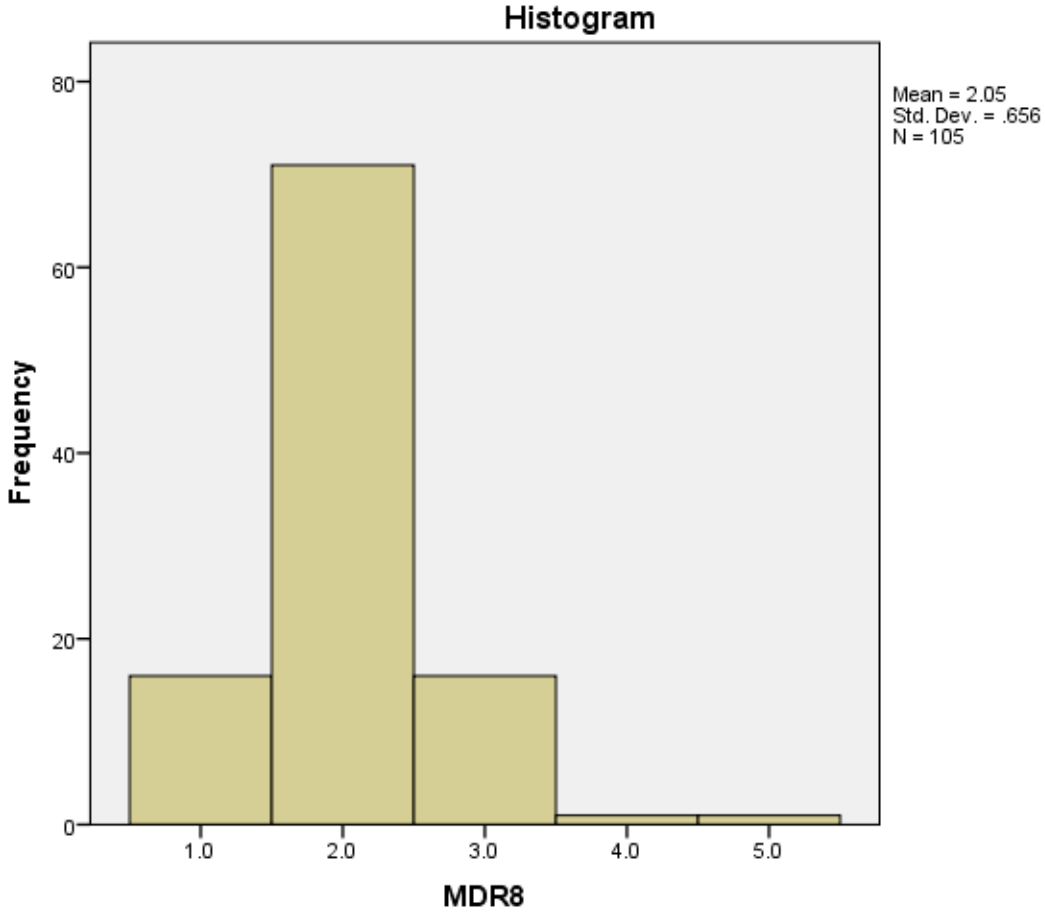

```
MDR7 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    56.00        1 .
00000000000000000000000000000000000000000000000000000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    40.00        2 .  0000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
     4.00        3 .  0000
     5.00 Extremes    (>=4.0)

 Stem width:       1.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR7
Expected Normal
Observed Value
5
4
3
2
1
0
-1
0
1
2
3
4
5
6

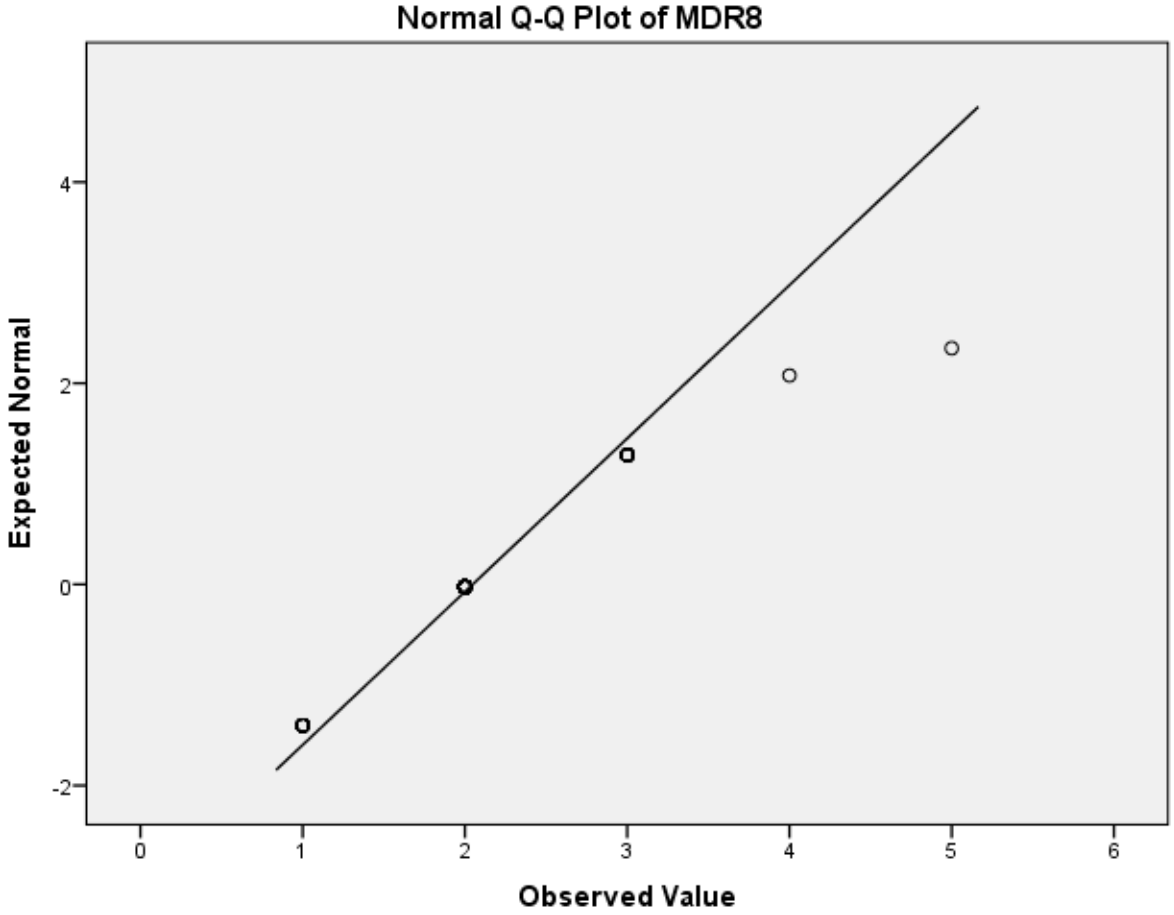

Detrended Normal Q-Q Plot of MDR7
Dev from Normal
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

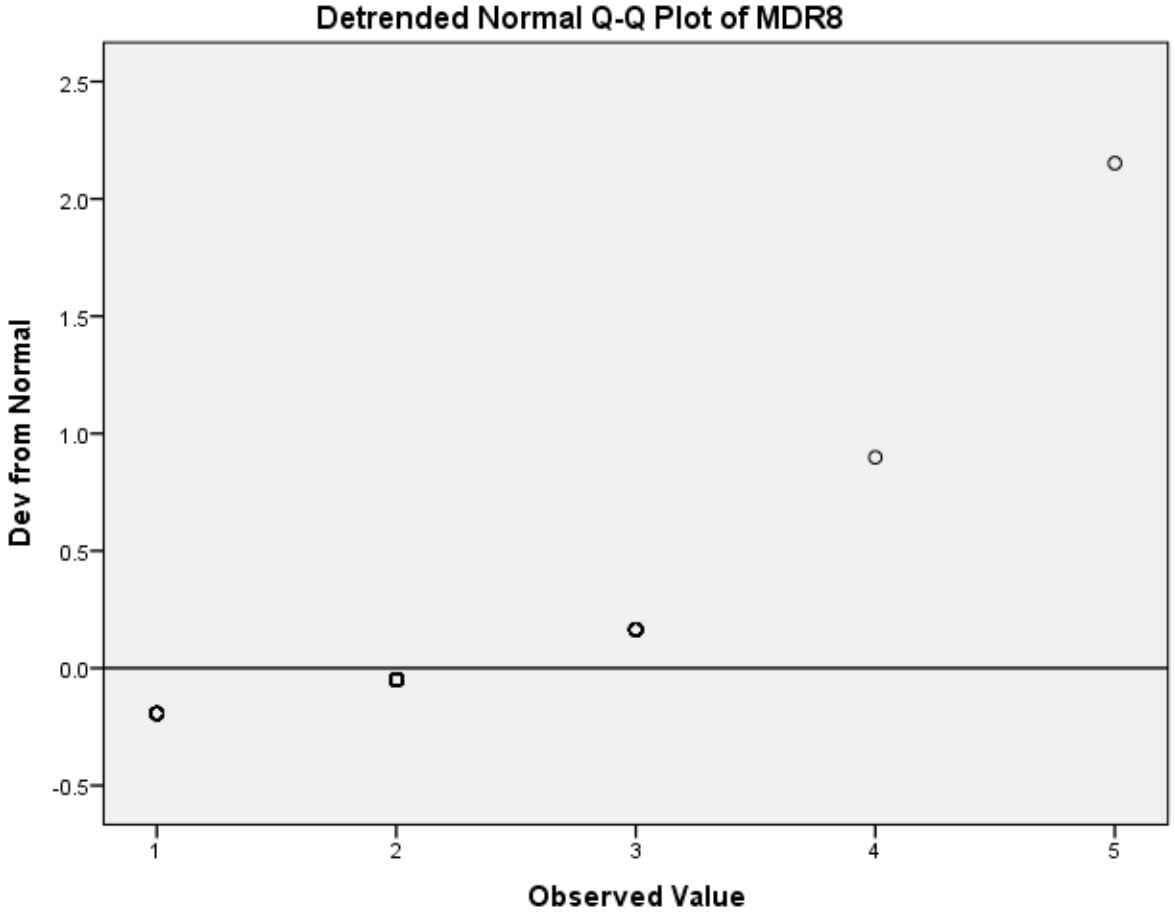


MDR8

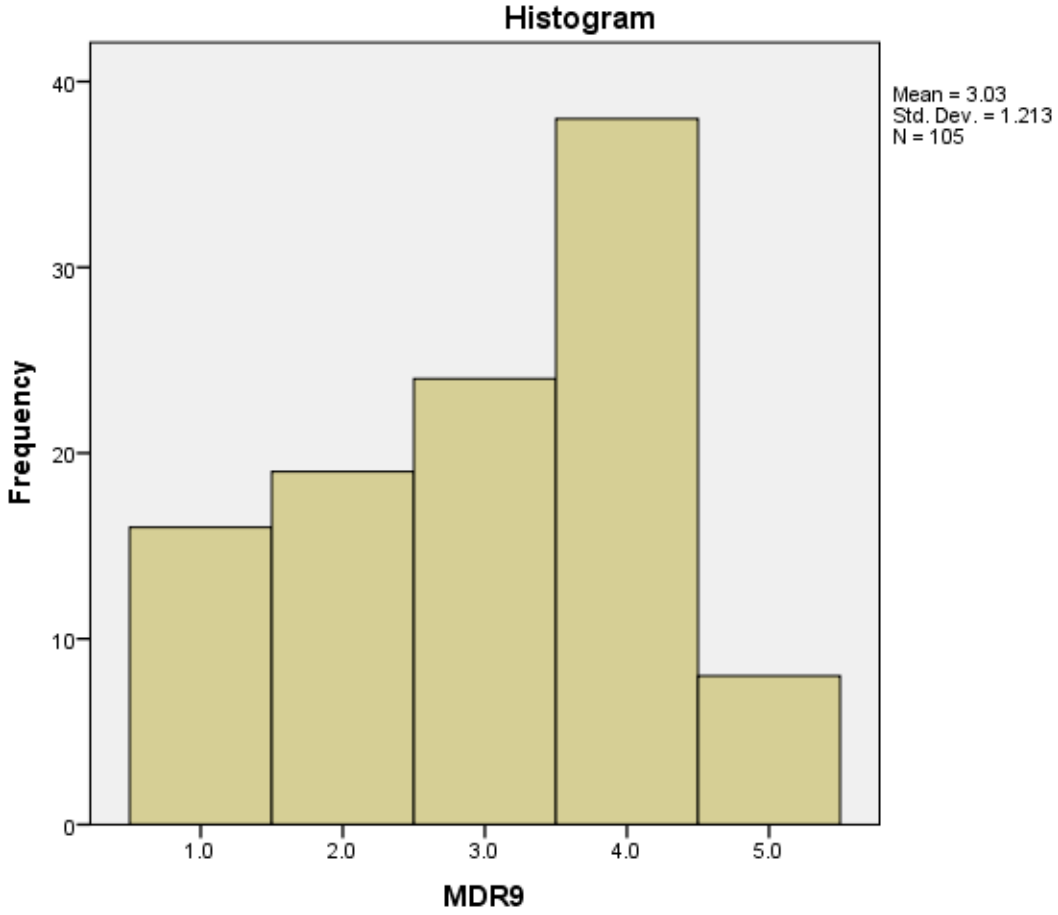



```
MDR8 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    16.00 Extremes    (=<1)
      .00         0 .
    71.00         0 .
22222222222222222222222222222222222222222222222222222222222222222222
    18.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of MDR8
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR8
Dev from Normal
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

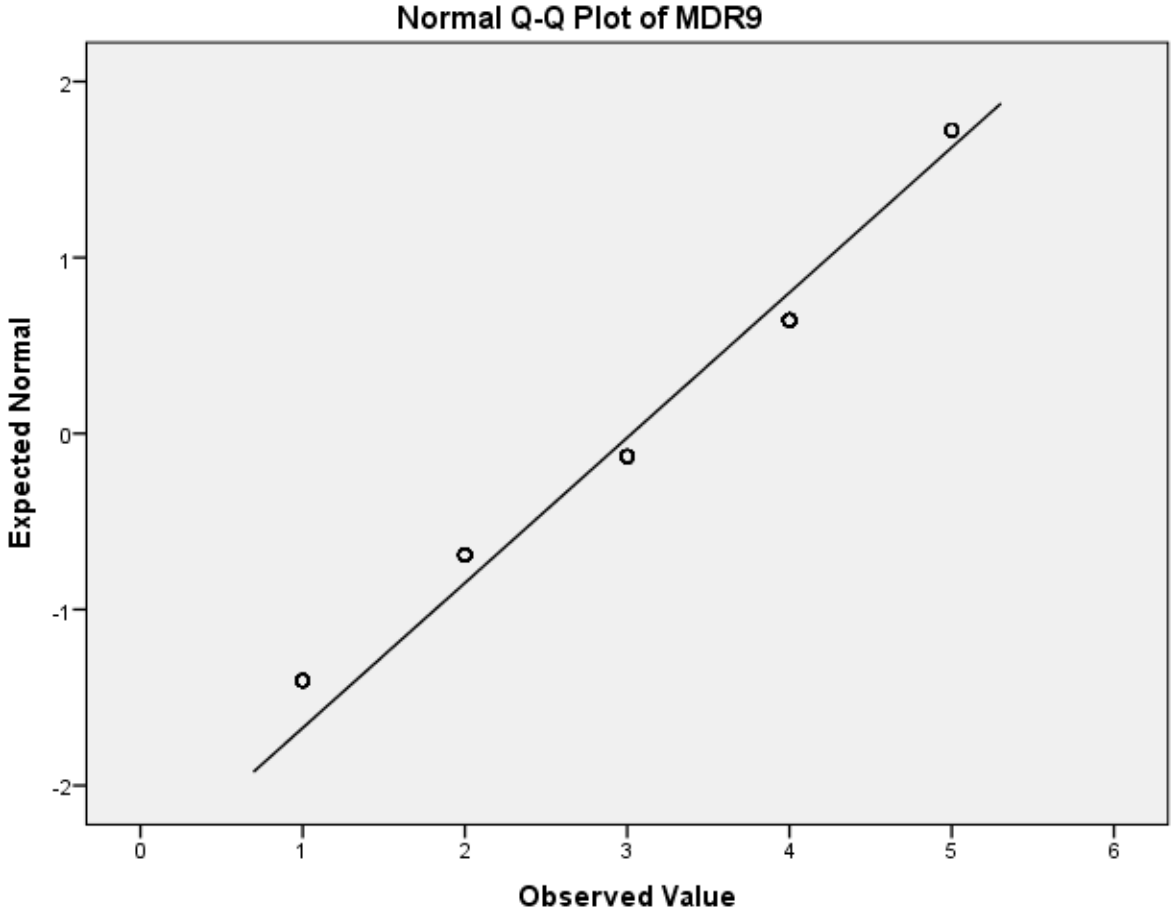
MDR9

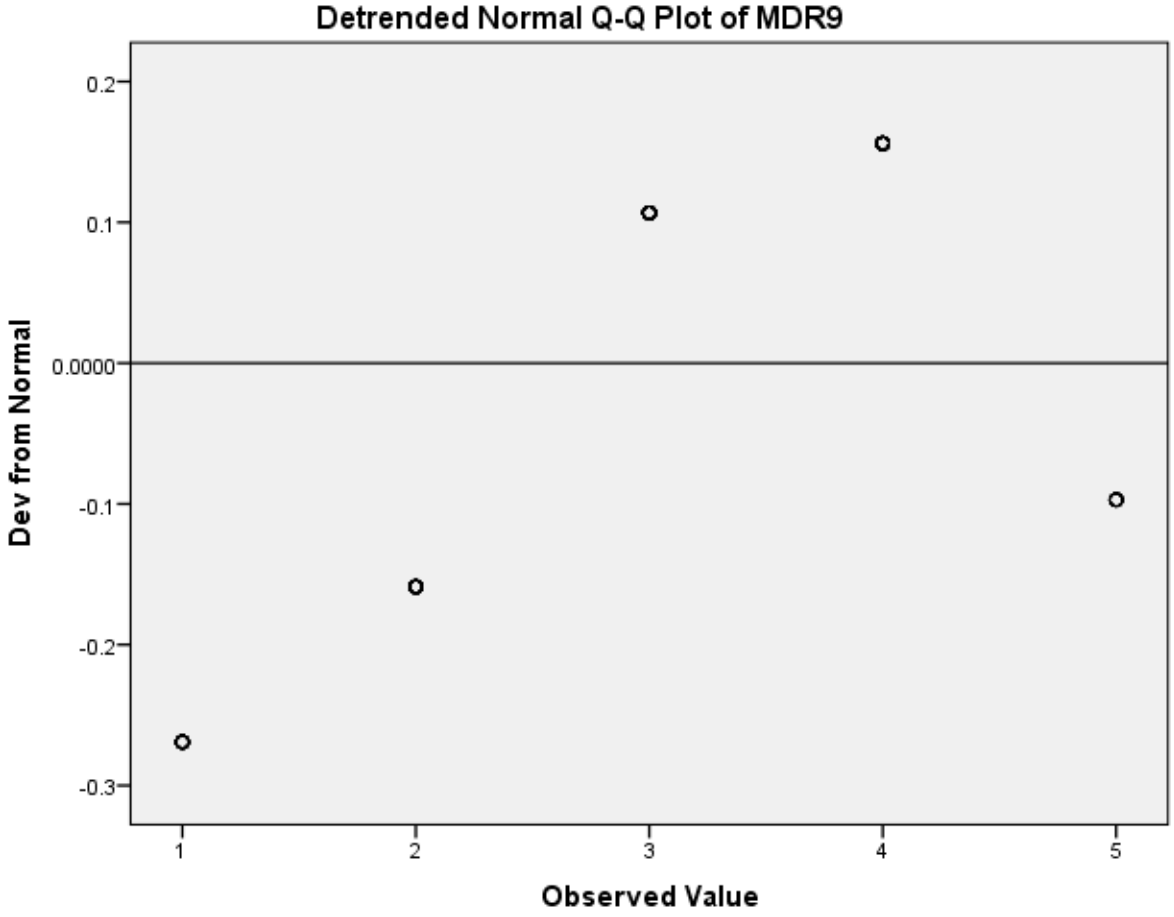


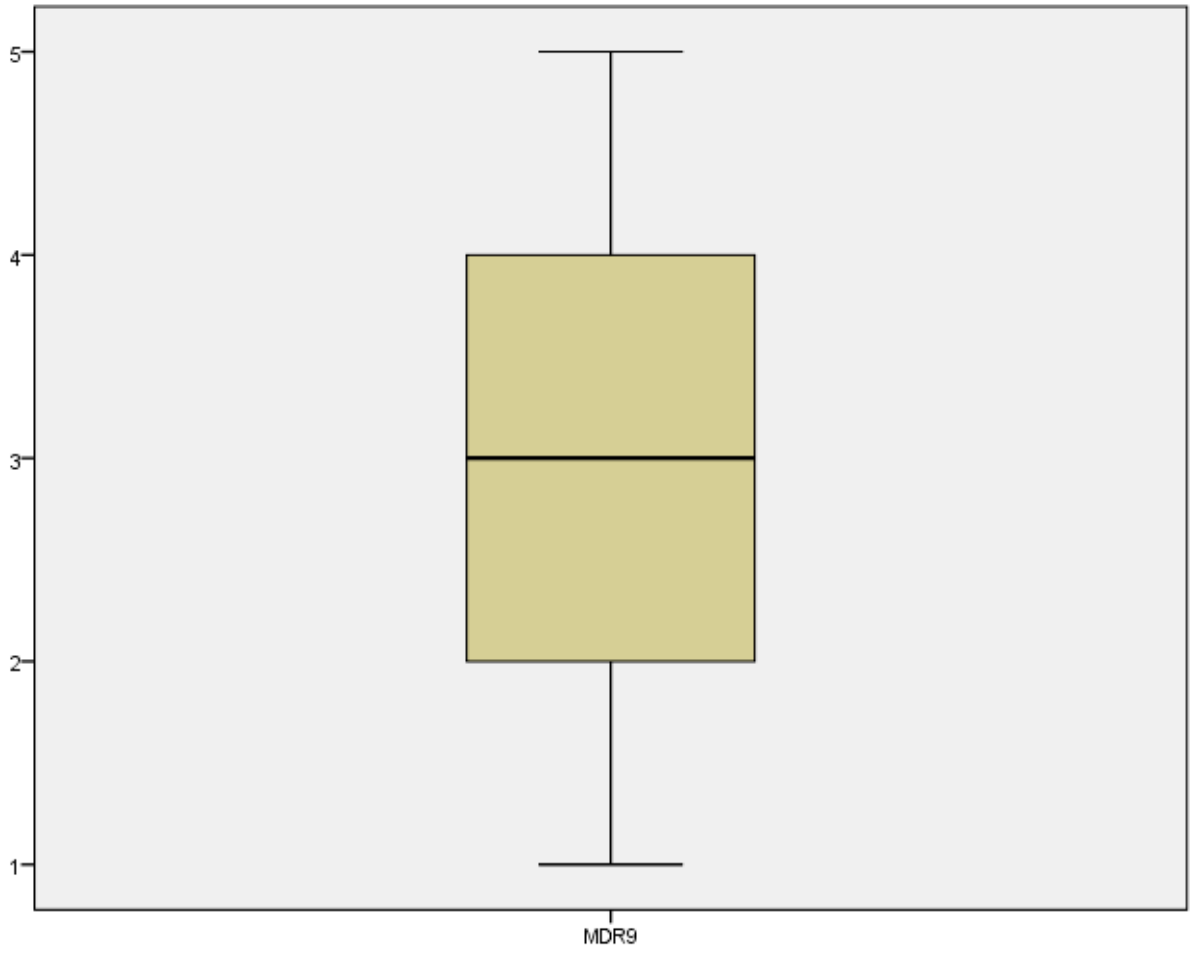
MDR9 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
16.00	1 .	0000000000000000
.00	1 .	
19.00	2 .	0000000000000000000
.00	2 .	
24.00	3 .	000000000000000000000000
.00	3 .	
38.00	4 .	00000000000000000000000000000000000000
.00	4 .	
8.00	5 .	00000000

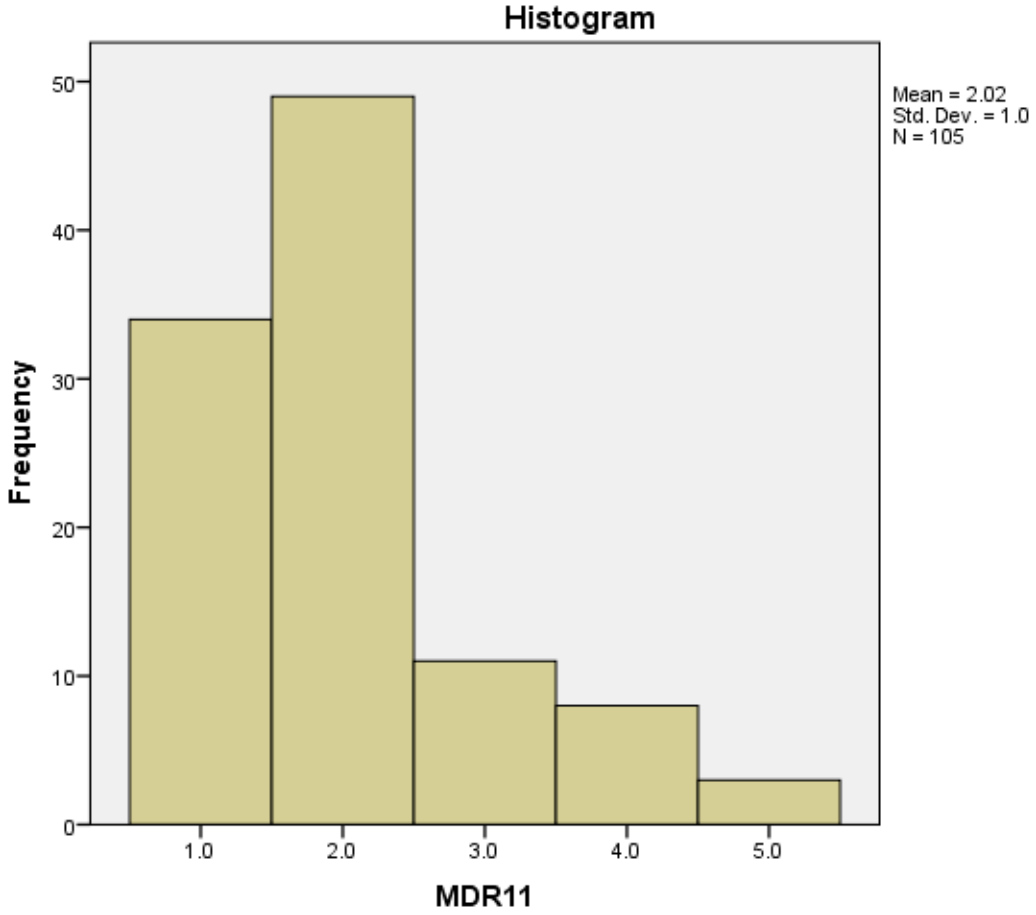
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of MDR9
Expected Normal
Observed Value
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR9
Dev from Normal
0.2
0.1
0.0000
-0.1
-0.2
-0.3
1
2
3
4
5
Observed Value



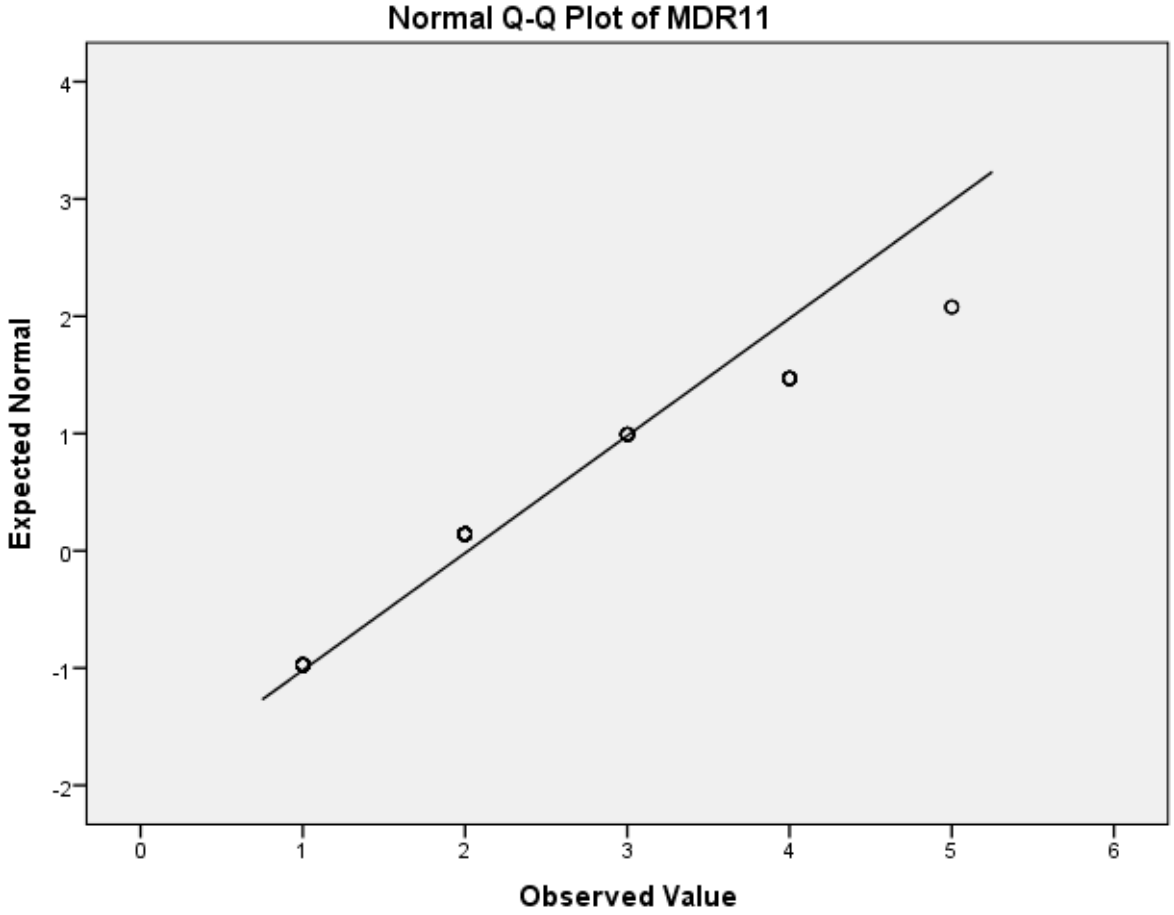
MDR11

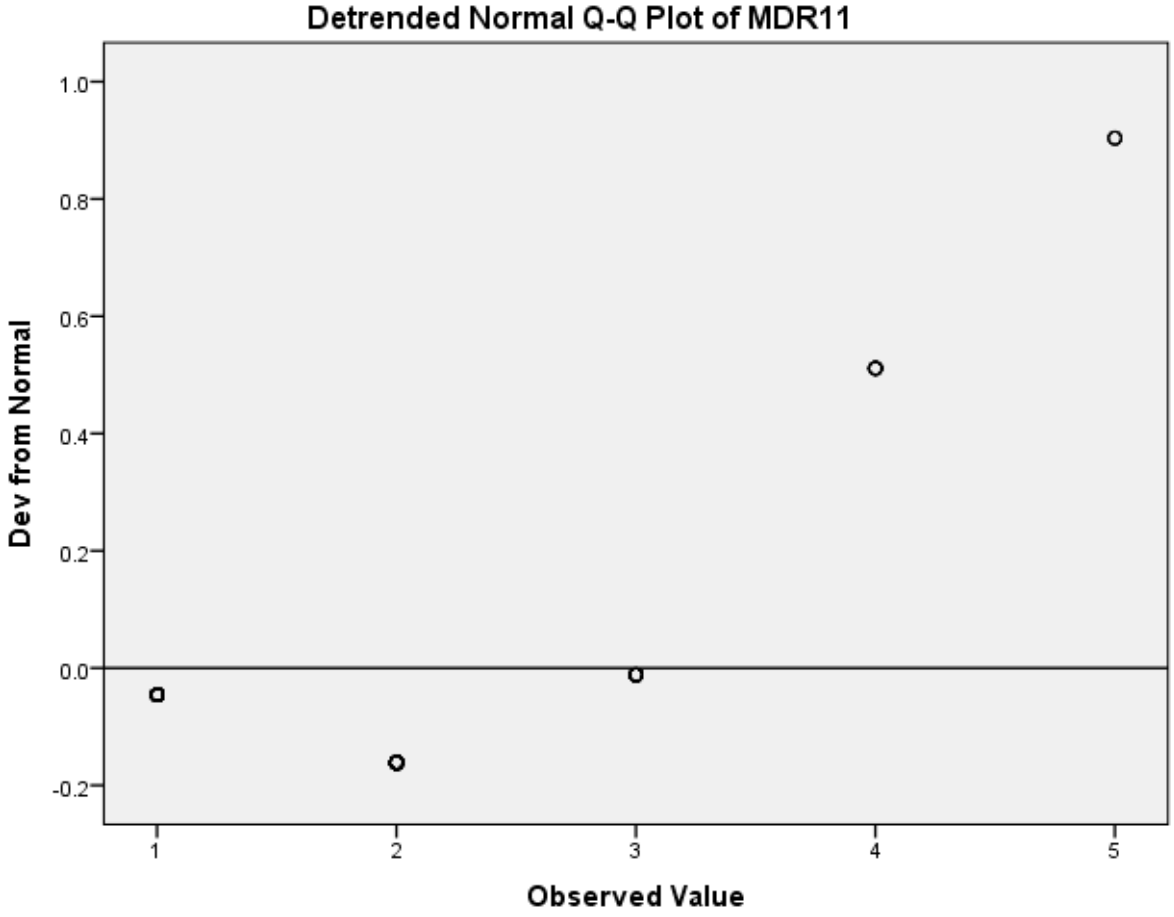


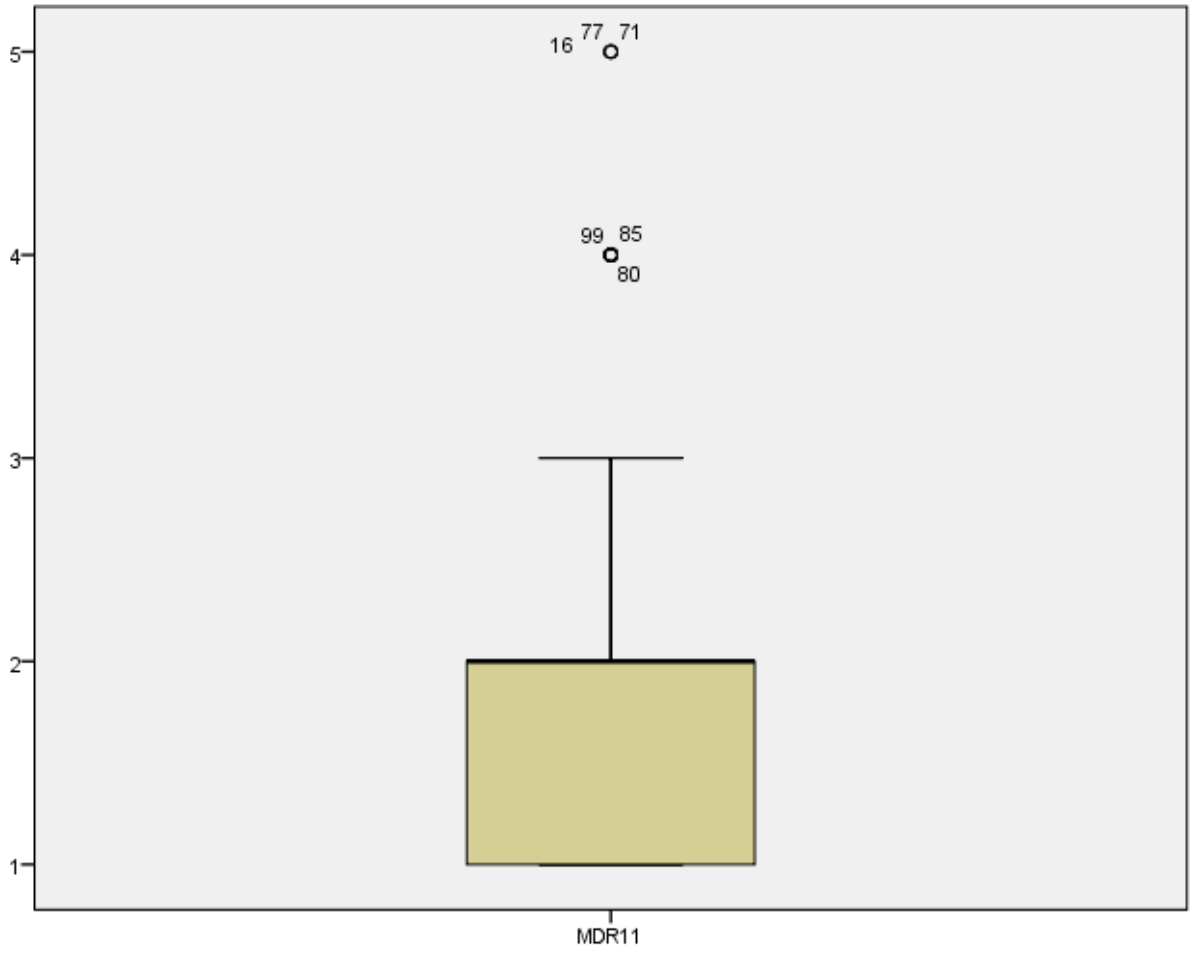
MDR11 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
34.00	1 .	0000000000000000000000000000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
49.00	2 .	0000000000000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
11.00	3 .	00000000000
11.00	Extremes	(>=4.0)

Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of MDR11
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of MDR11
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value




```
EXAMINE VARIABLES=SMEF1 SMEF2 SMEF3 SMEF4 SMEF5 SMEF6
  /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
  /COMPARE GROUPS
  /STATISTICS EXTREME
  /MISSING REPORT
  /NOTOTAL.
```

Explore

Notes

Output Created		15-SEP-2022 14:32:49
Comments		
Input	Data	C:\DBA\research paper,\German med paper\statistics\110 spss data.sav
	Active Dataset	DataSet1
	Filter	<none>

	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing. User-defined and system missing values for factors are treated as valid data.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=SMEF1 SMEF2 SMEF3 SMEF4 SMEF5 SMEF6 /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT /COMPARE GROUPS /STATISTICS EXTREME /MISSING REPORT /NOTOTAL.
Resources	Processor Time	00:00:02.03
	Elapsed Time	00:00:02.00

[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss data.sav

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
SMEF1	110	100.0%	0	0.0%	110	100.0%
SMEF2	110	100.0%	0	0.0%	110	100.0%
SMEF3	110	100.0%	0	0.0%	110	100.0%
SMEF4	110	100.0%	0	0.0%	110	100.0%
SMEF5	110	100.0%	0	0.0%	110	100.0%
SMEF6	110	100.0%	0	0.0%	110	100.0%

Extreme Values

			Case Number	Value
SMEF1	Highest	1	76	5.0
		2	77	5.0
		3	2	4.0
		4	57	4.0
		5	59	4.0[a]
	Lowest	1	96	1.0
		2	93	1.0
		3	42	1.0
		4	9	1.0
		5	7	1.0[b]
SMEF2	Highest	1	76	5.0
		2	77	5.0
		3	85	4.0
		4	21	3.0
		5	43	3.0[c]
	Lowest	1	110	1.0
		2	103	1.0
		3	96	1.0
		4	82	1.0
		5	81	1.0[b]
SMEF3	Highest	1	4	5.0
		2	1	4.0
		3	41	4.0
		4	51	4.0
		5	52	4.0[a]
	Lowest	1	102	1.0
		2	81	1.0
		3	72	1.0
		4	62	1.0
		5	33	1.0[b]
SMEF4	Highest	1	76	5.0
		2	77	5.0
		3	20	4.0
		4	21	4.0
		5	56	4.0[a]
	Lowest	1	103	1.0
		2	82	1.0
		3	81	1.0
		4	79	1.0
		5	75	1.0[b]
SMEF5	Highest	1	72	4.0

		2	85	4.0
		3	90	4.0
		4	99	4.0
		5	5	3.0[c]
		1	110	1.0
		2	93	1.0
	Lowest	3	75	1.0
		4	71	1.0
		5	53	1.0[b]
		1	4	5.0
		2	7	5.0
	Highest	3	13	5.0
		4	56	5.0
		5	74	5.0[d]
SMEF6		1	90	1.0
		2	85	1.0
	Lowest	3	77	1.0
		4	76	1.0
		5	72	1.0[b]

a. Only a partial list of cases with the value 4.0 are shown in the table of upper extremes.

b. Only a partial list of cases with the value 1.0 are shown in the table of lower extremes.

c. Only a partial list of cases with the value 3.0 are shown in the table of upper extremes.

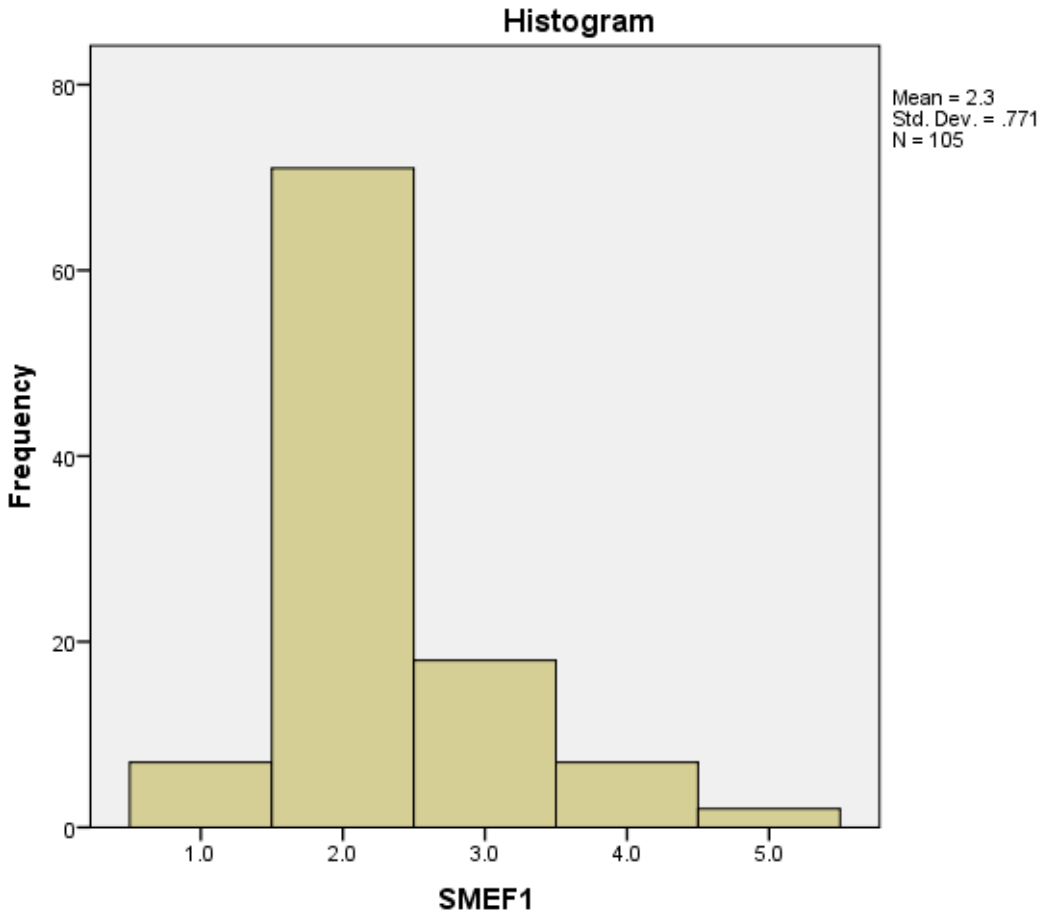
d. Only a partial list of cases with the value 5.0 are shown in the table of upper extremes.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
SMEF1	.392	110	.000	.730	110	.000
SMEF2	.315	110	.000	.732	110	.000
SMEF3	.282	110	.000	.850	110	.000
SMEF4	.343	110	.000	.795	110	.000
SMEF5	.365	110	.000	.757	110	.000
SMEF6	.178	110	.000	.911	110	.000

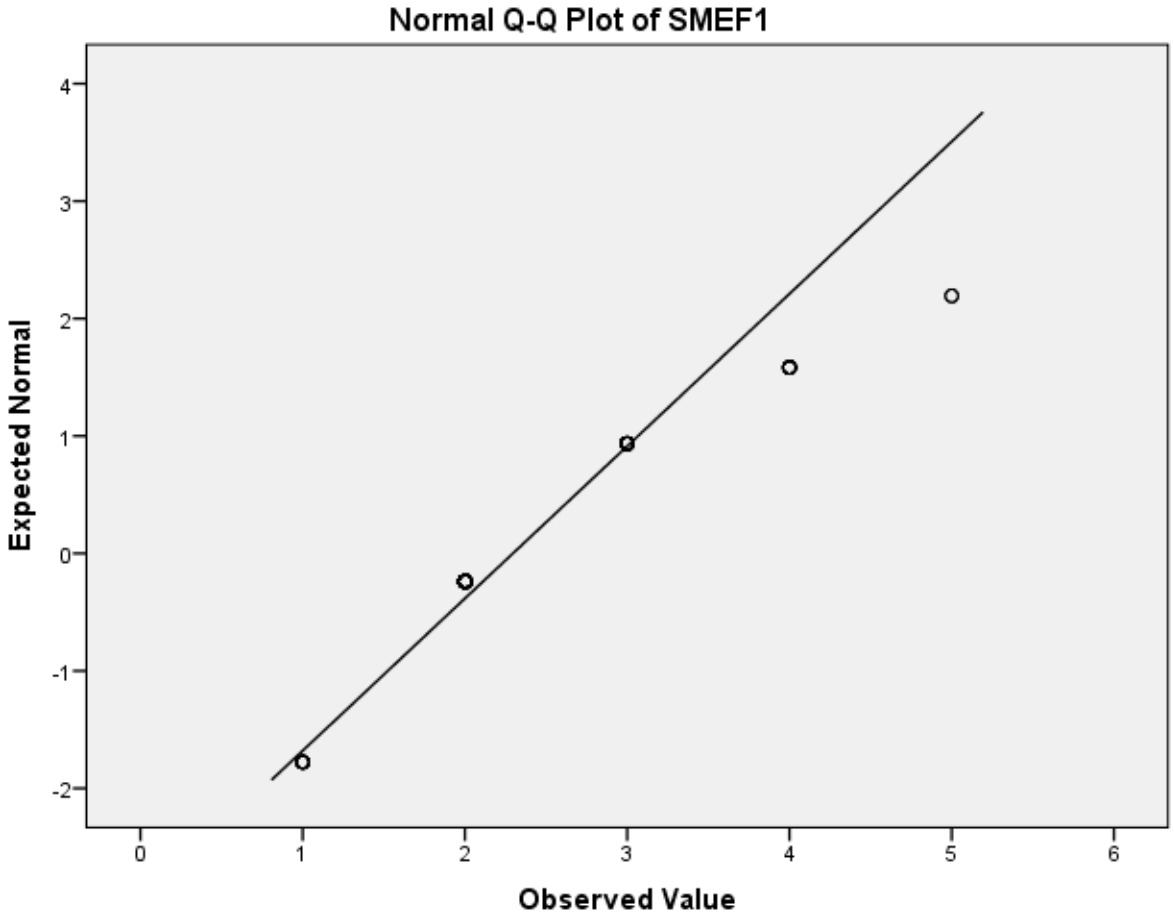
a. Lilliefors Significance Correction

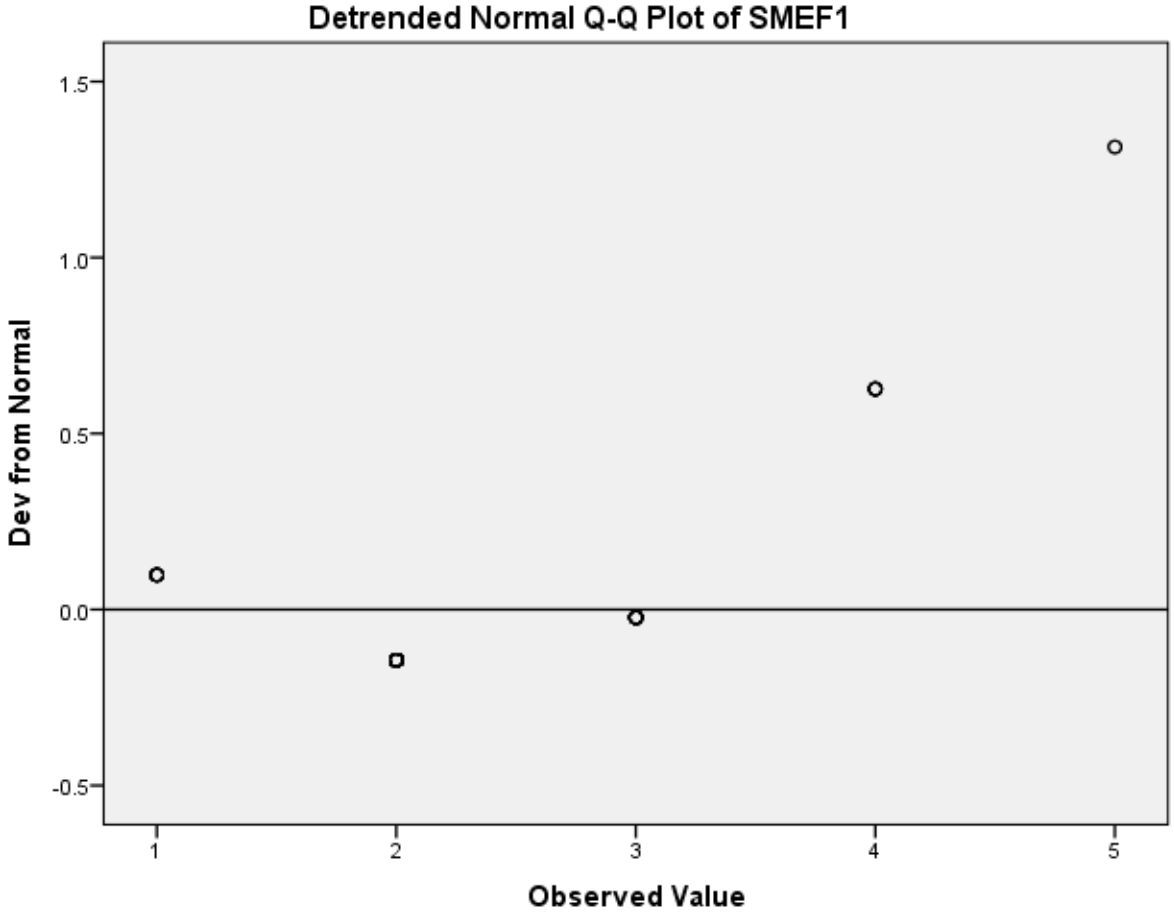
SMEF1

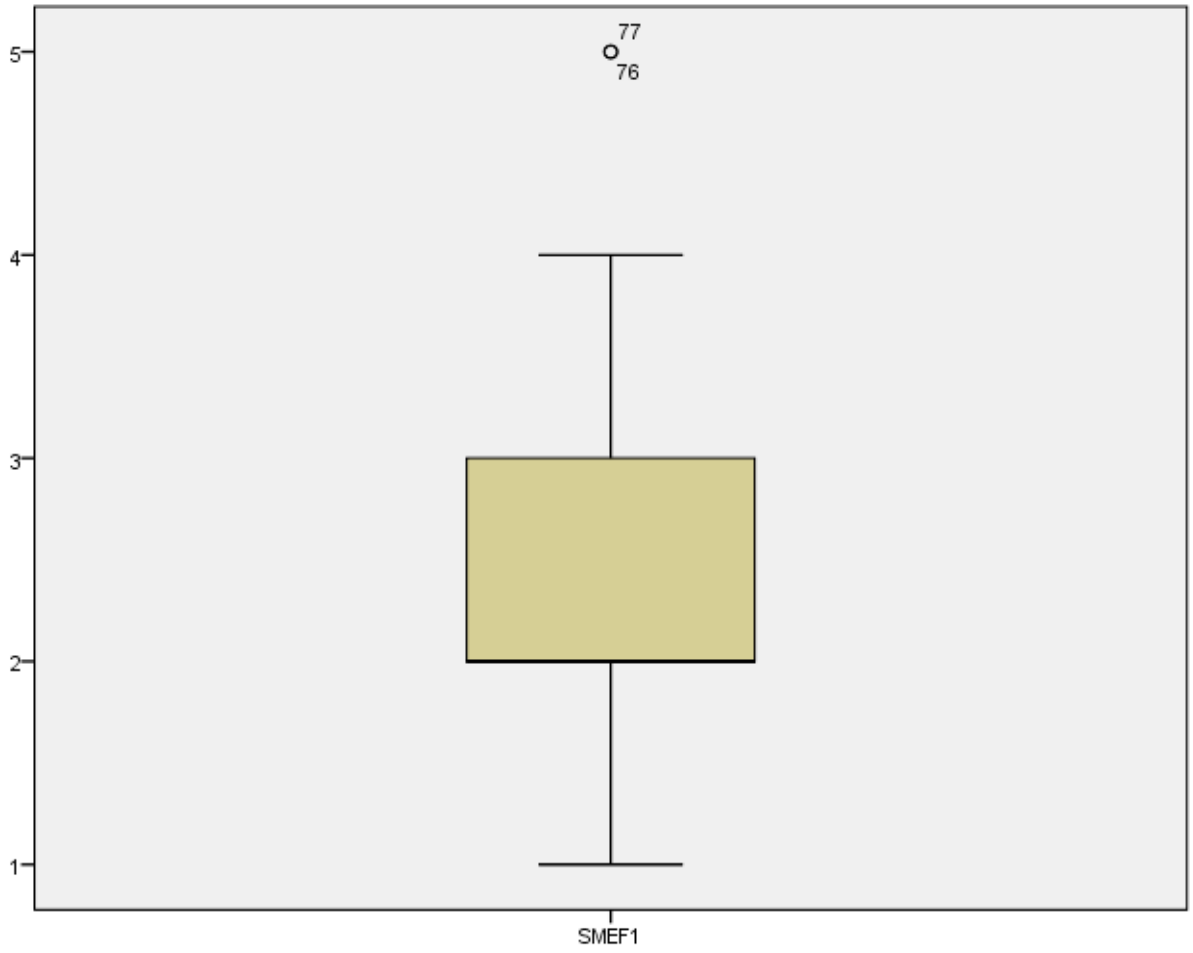



```
SMEF1 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     7.00        1 .  0000000
      .00        1 .
      .00        1 .
      .00        1 .
      .00        1 .
    71.00        2 .
00000000000000000000000000000000000000000000000000000000000000000000000000000000
      .00        2 .
      .00        2 .
      .00        2 .
      .00        2 .
    18.00        3 .  000000000000000000
      .00        3 .
```

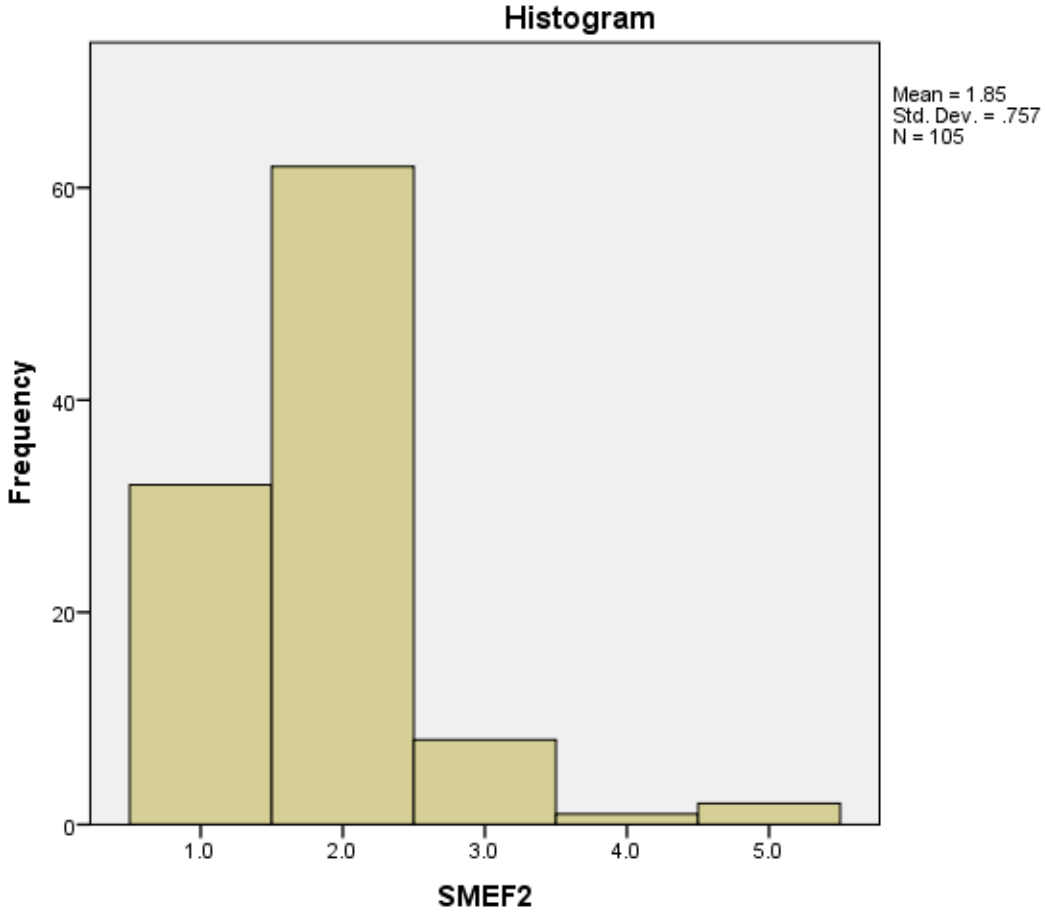
```
      .00         3 .
      .00         3 .
      .00         3 .
     7.00         4 .  0000000
     2.00 Extremes    (>=5.0)

Stem width:       1.0
Each leaf:       1 case(s)
```



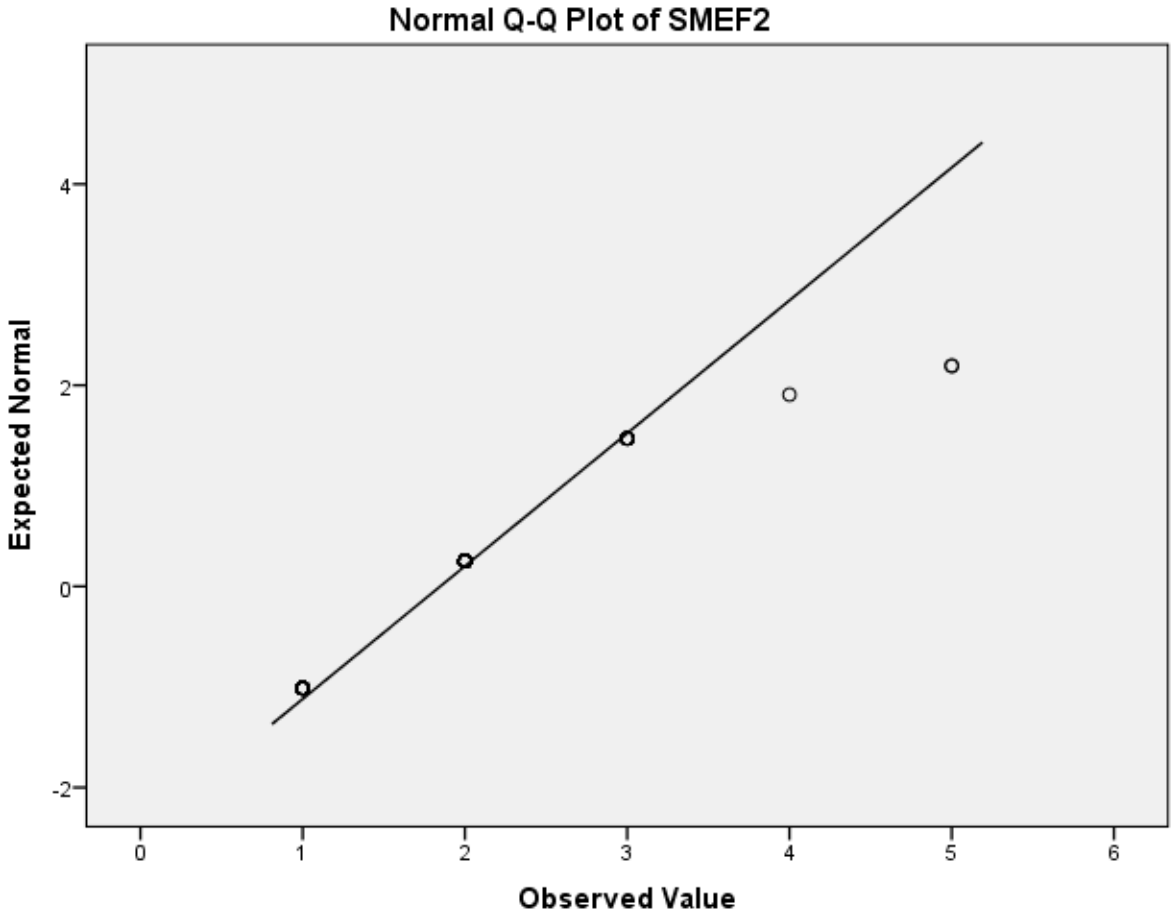

Detrended Normal Q-Q Plot of SMEF1
Dev from Normal
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value

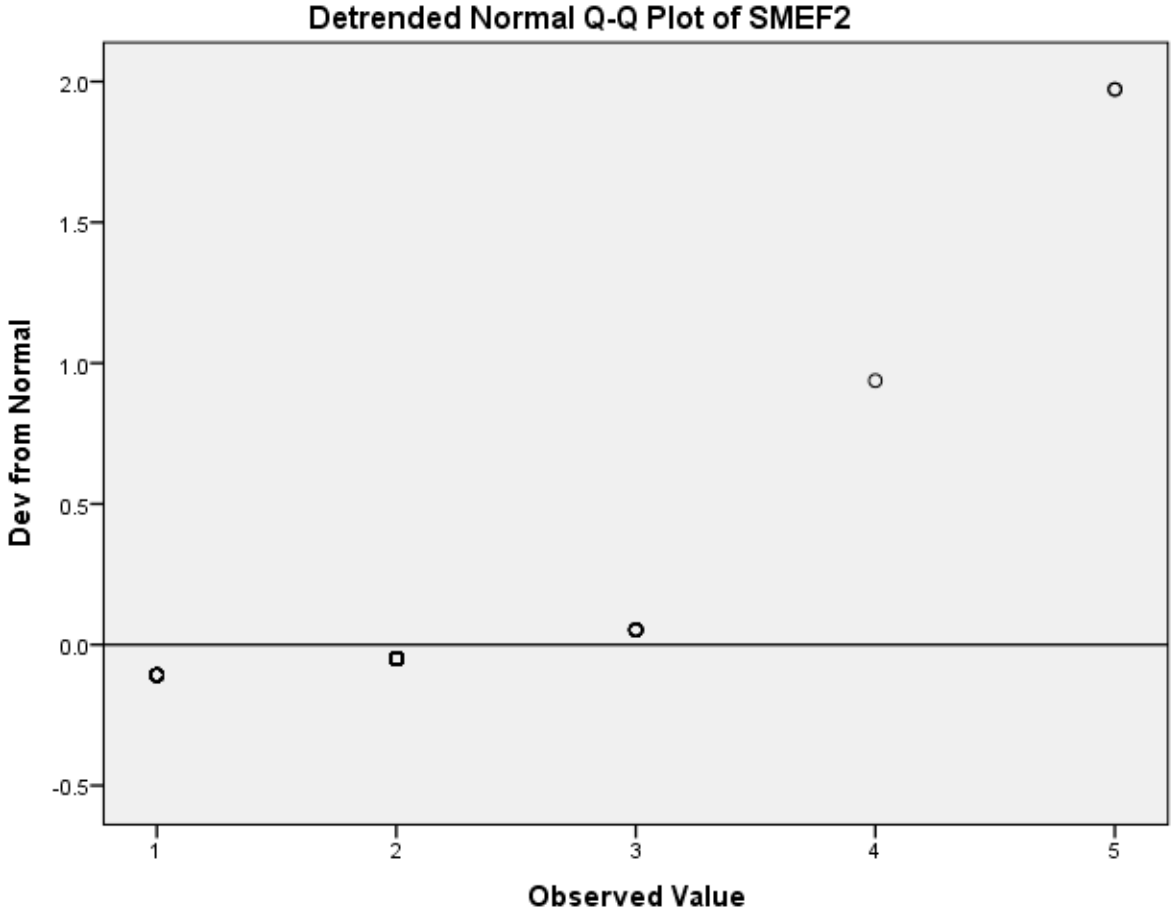


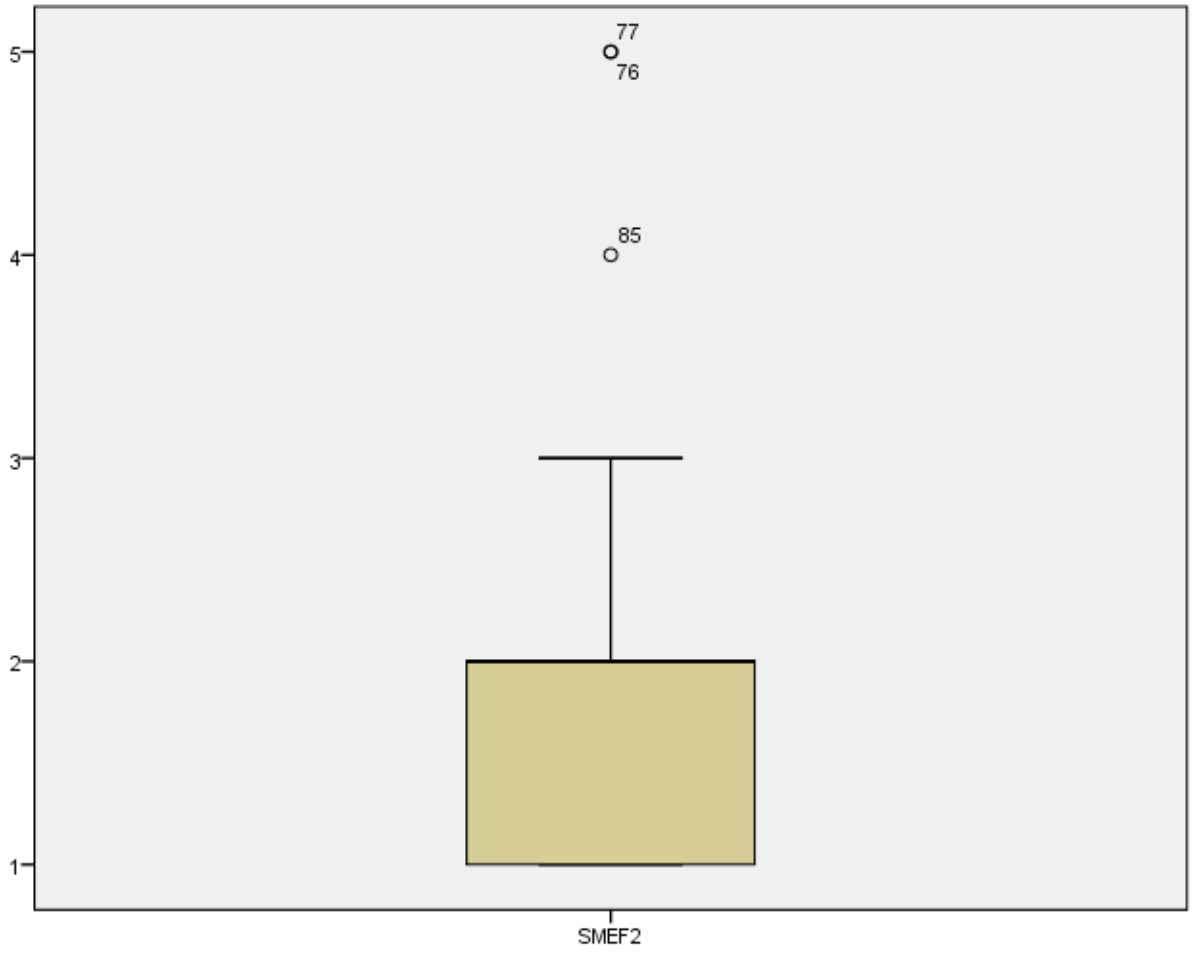
SMEF2



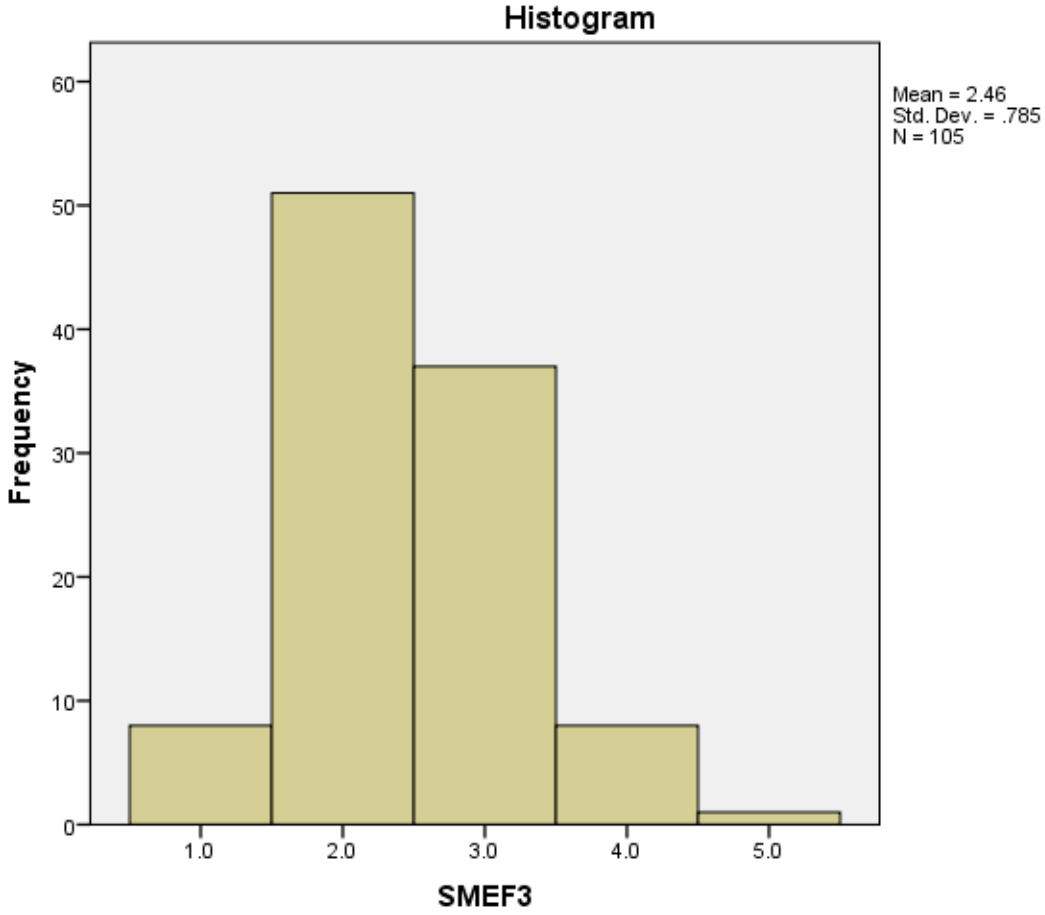

```
SMEF2 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    32.00         1 .  00000000000000000000000000000000
      .00         1 .
      .00         1 .
      .00         1 .
      .00         1 .
    62.00         2 .
00000000000000000000000000000000000000000000000000000000000000
      .00         2 .
      .00         2 .
      .00         2 .
      .00         2 .
     8.00         3 .  00000000
     3.00 Extremes    (>=4.0)

 Stem width:       1.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of SMEF2
Expected Normal
4
2
0
-2
0
1
2
3
4
5
6
Observed Value


Detrended Normal Q-Q Plot of SMEF2
Dev from Normal
2.0
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value



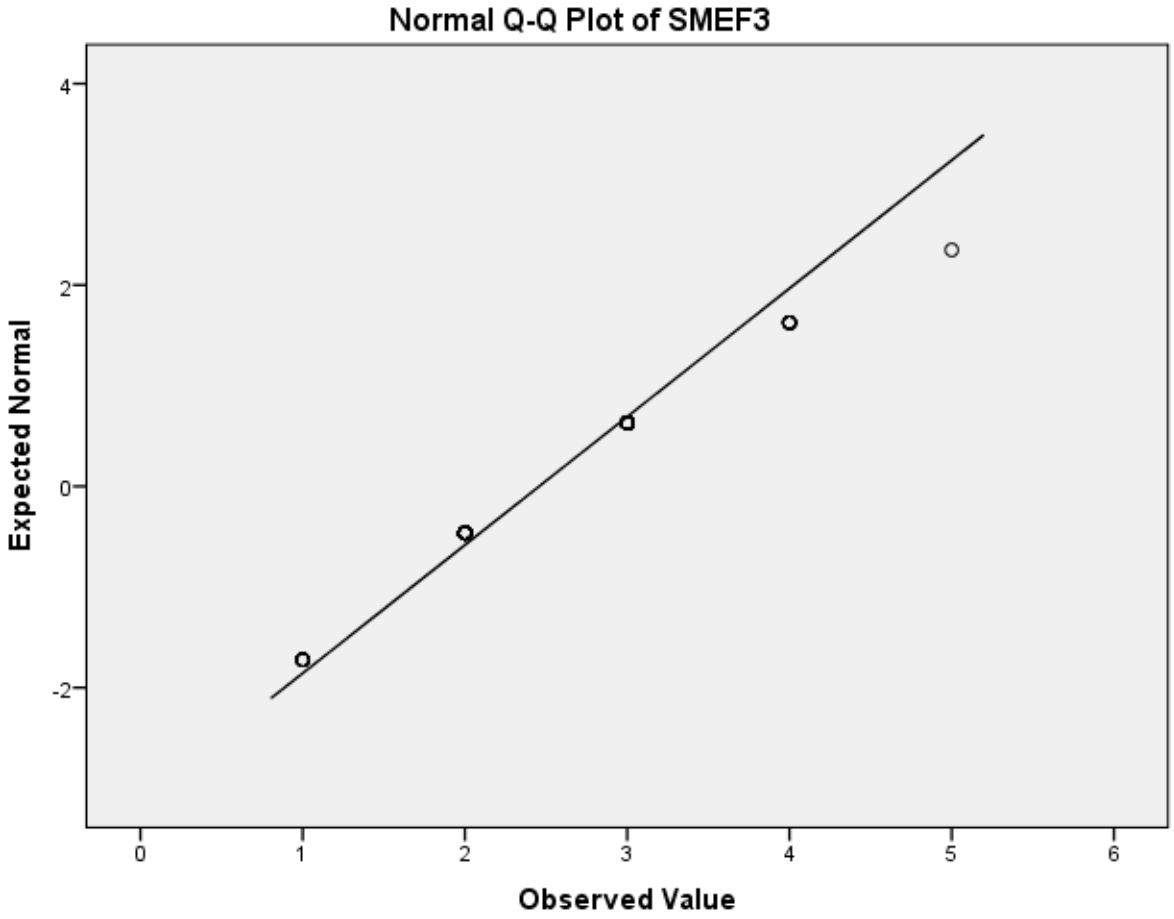
SMEF3

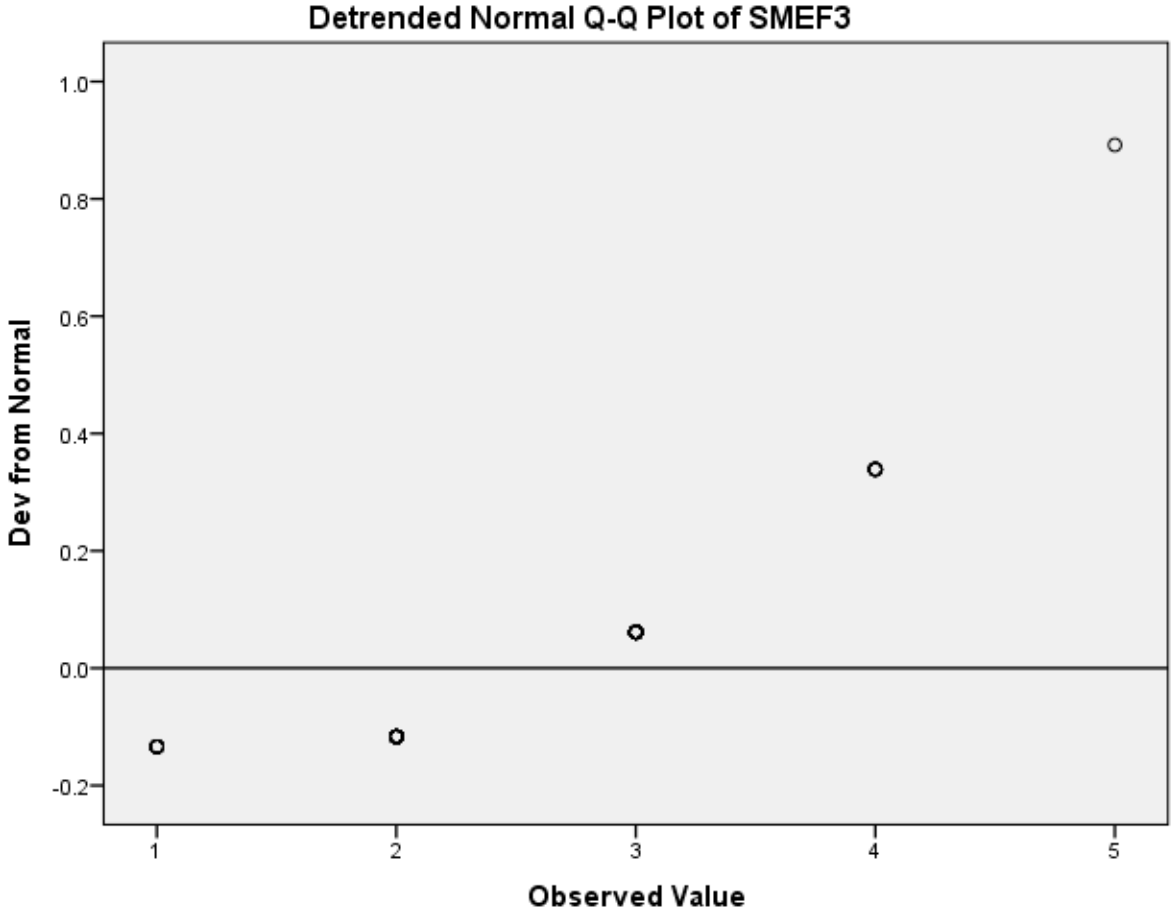


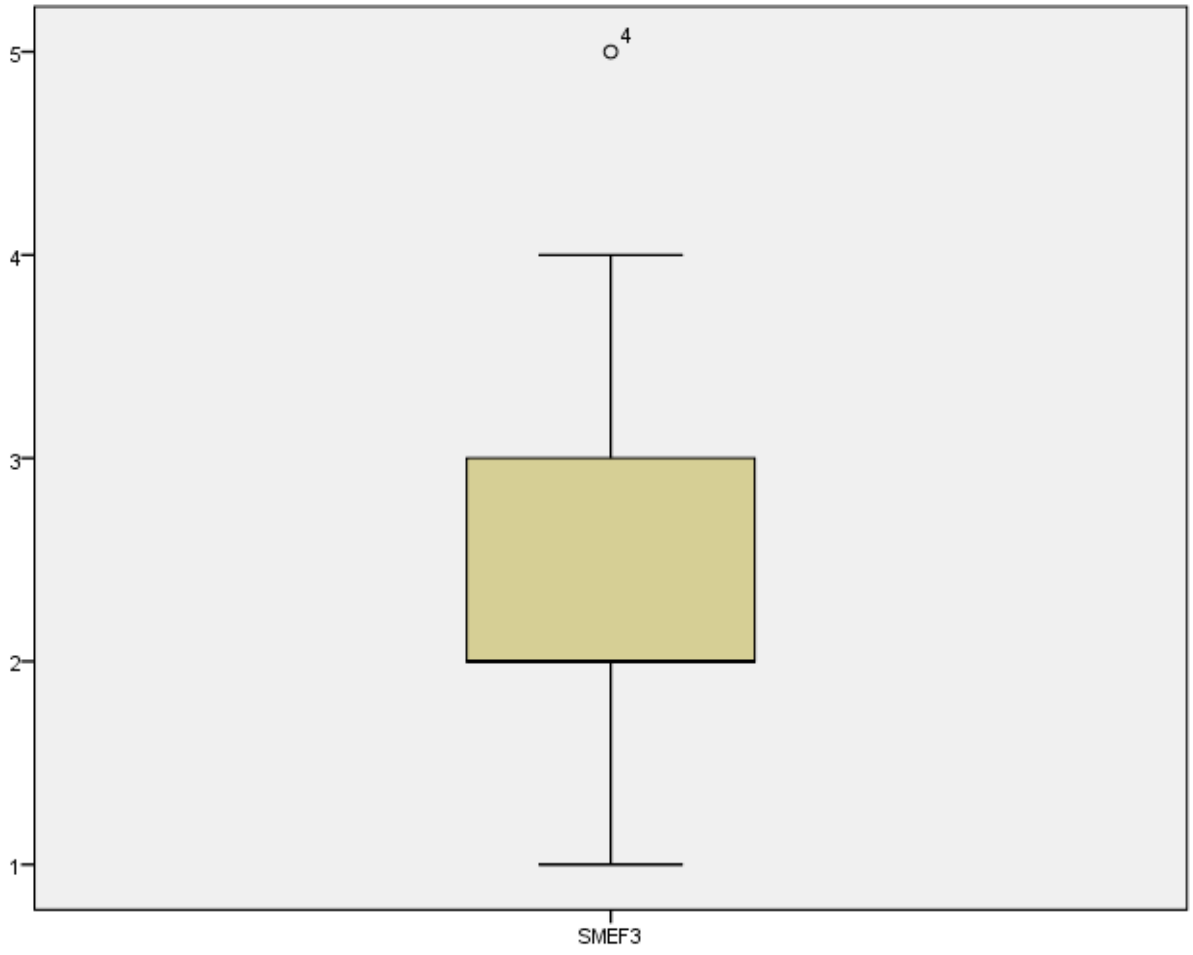
SMEF3 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
8.00	1 .	00000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
51.00	2 .	000000000000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
37.00	3 .	0000000000000000000000000000000000000
.00	3 .	
.00	3 .	
.00	3 .	
.00	3 .	
8.00	4 .	00000000
1.00	Extremes	(>=5.0)

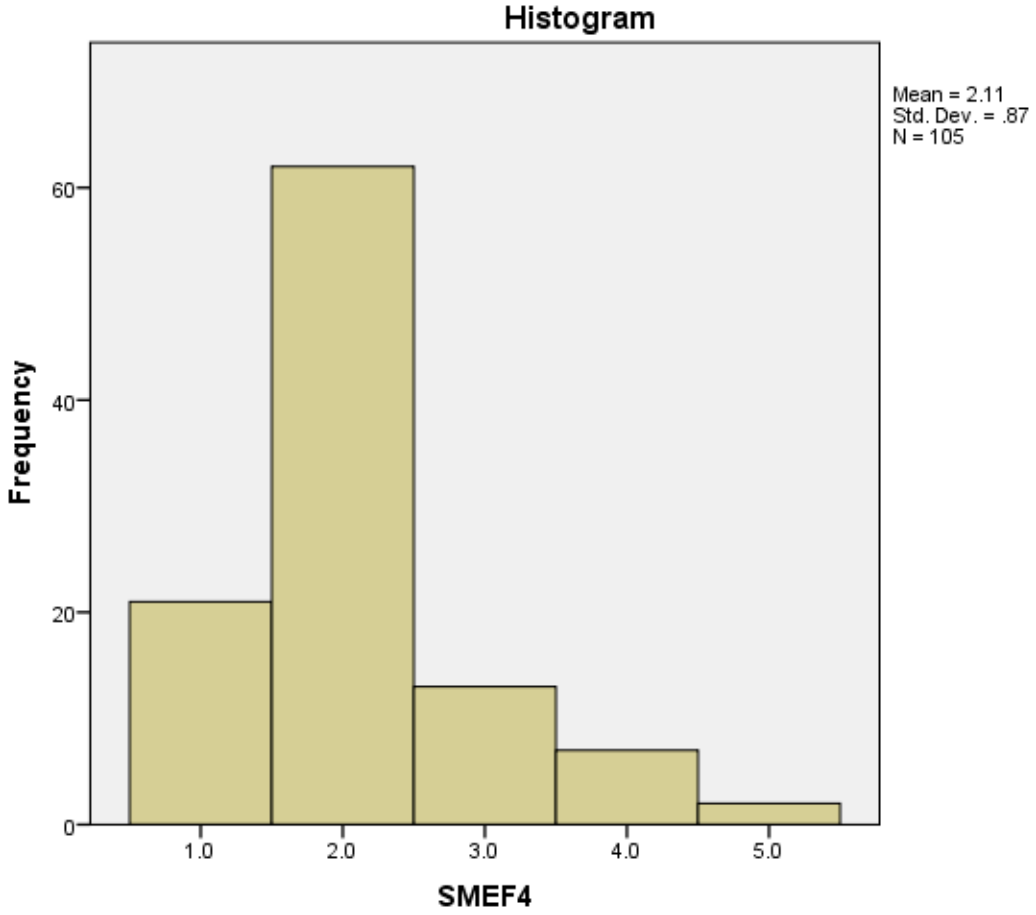
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEF3
Expected Normal
Observed Value
4
2
0
-2
0
1
2
3
4
5
6

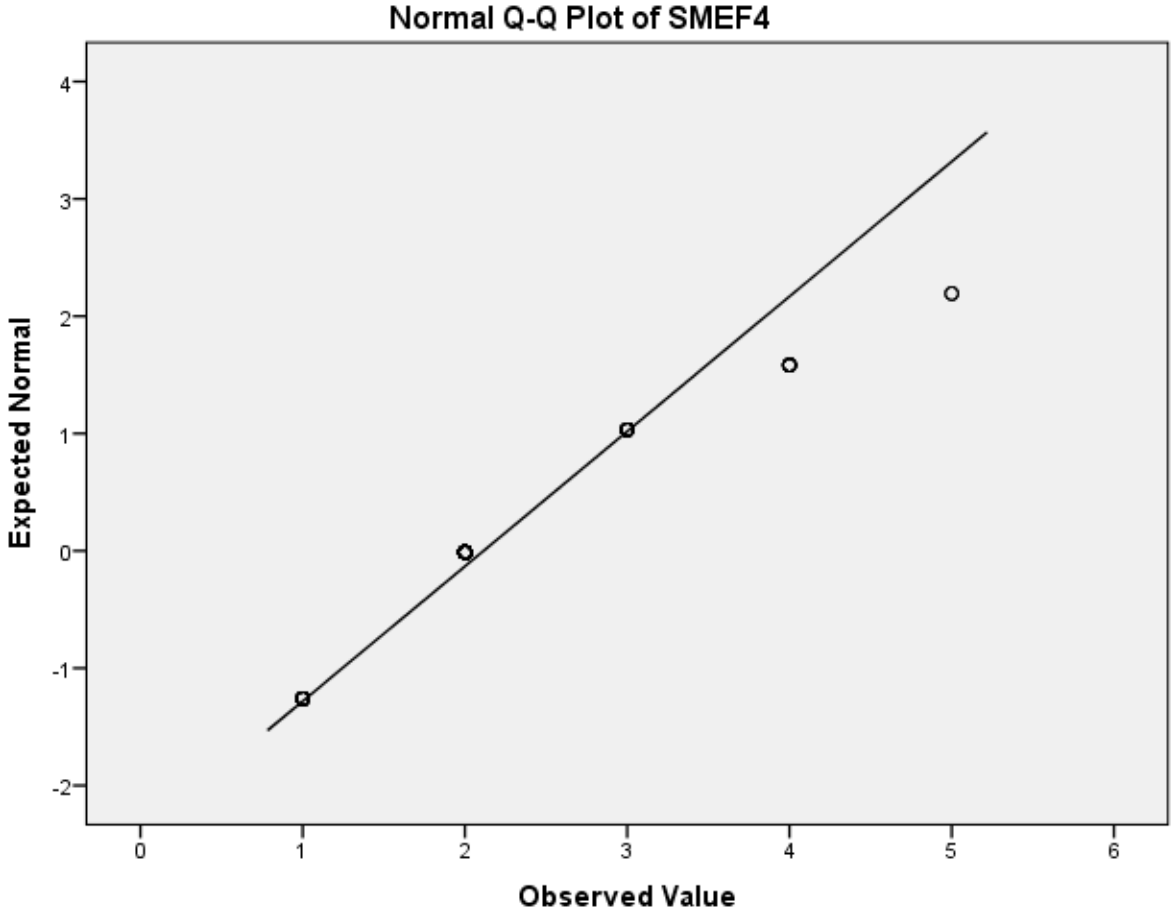

Detrended Normal Q-Q Plot of SMEF3
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

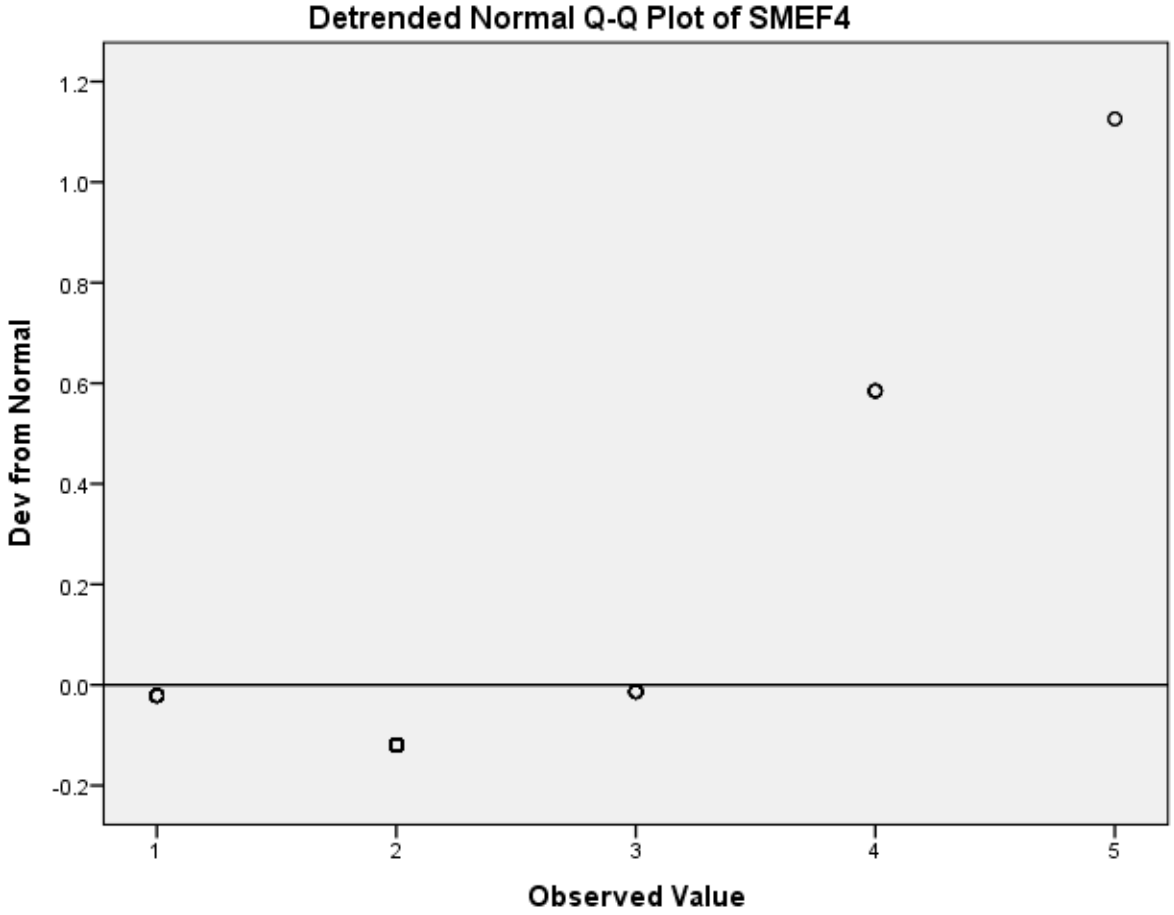


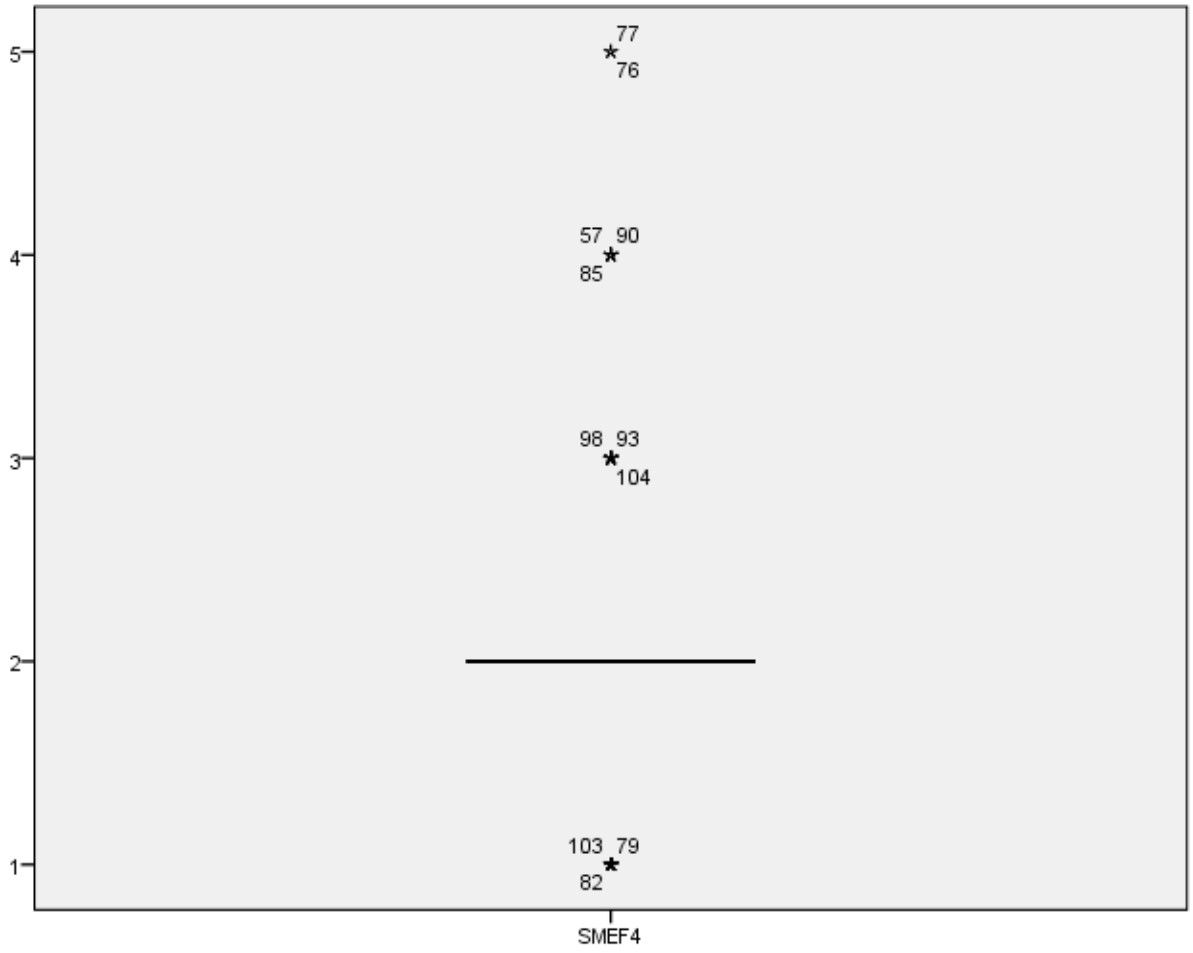
SMEF4



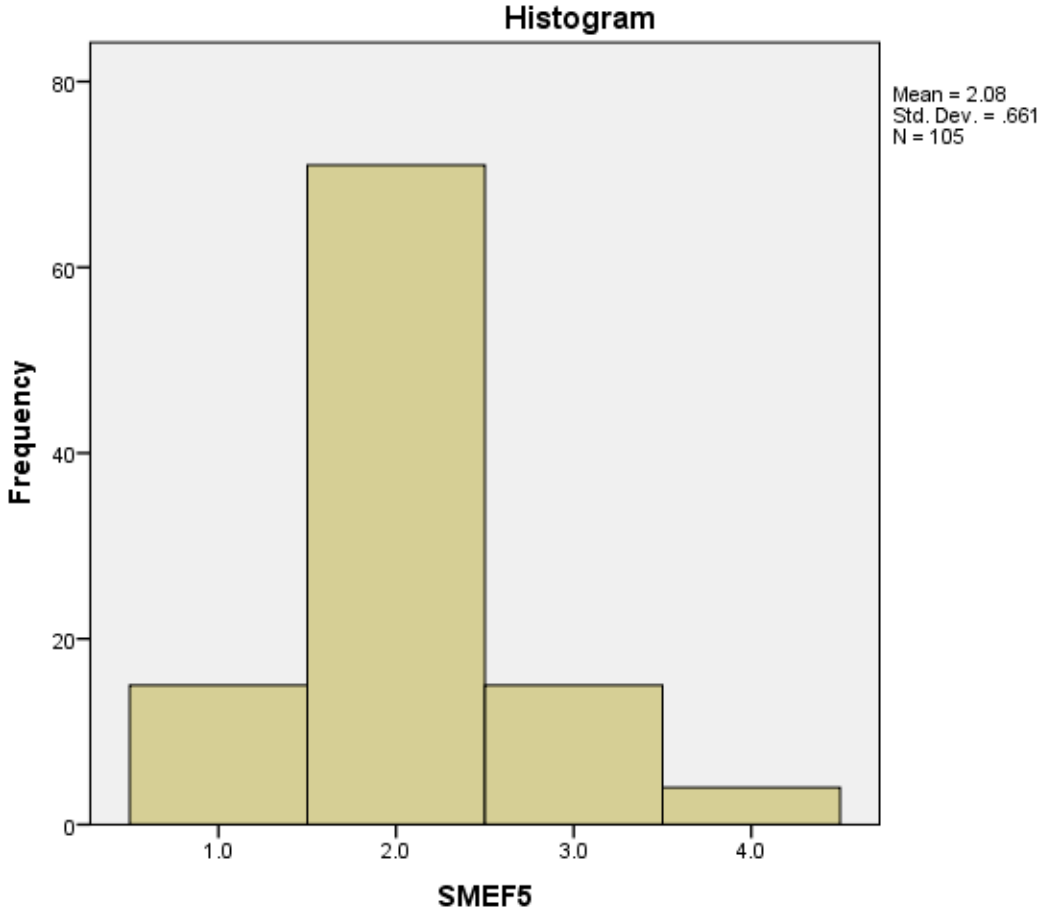

```
SMEF4 Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

    21.00 Extremes    (=<1)
      .00         0 .
    62.00         0 .
22222222222222222222222222222222222222222222222222222222222
    22.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of SMEF4
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEF4
Dev from Normal
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value

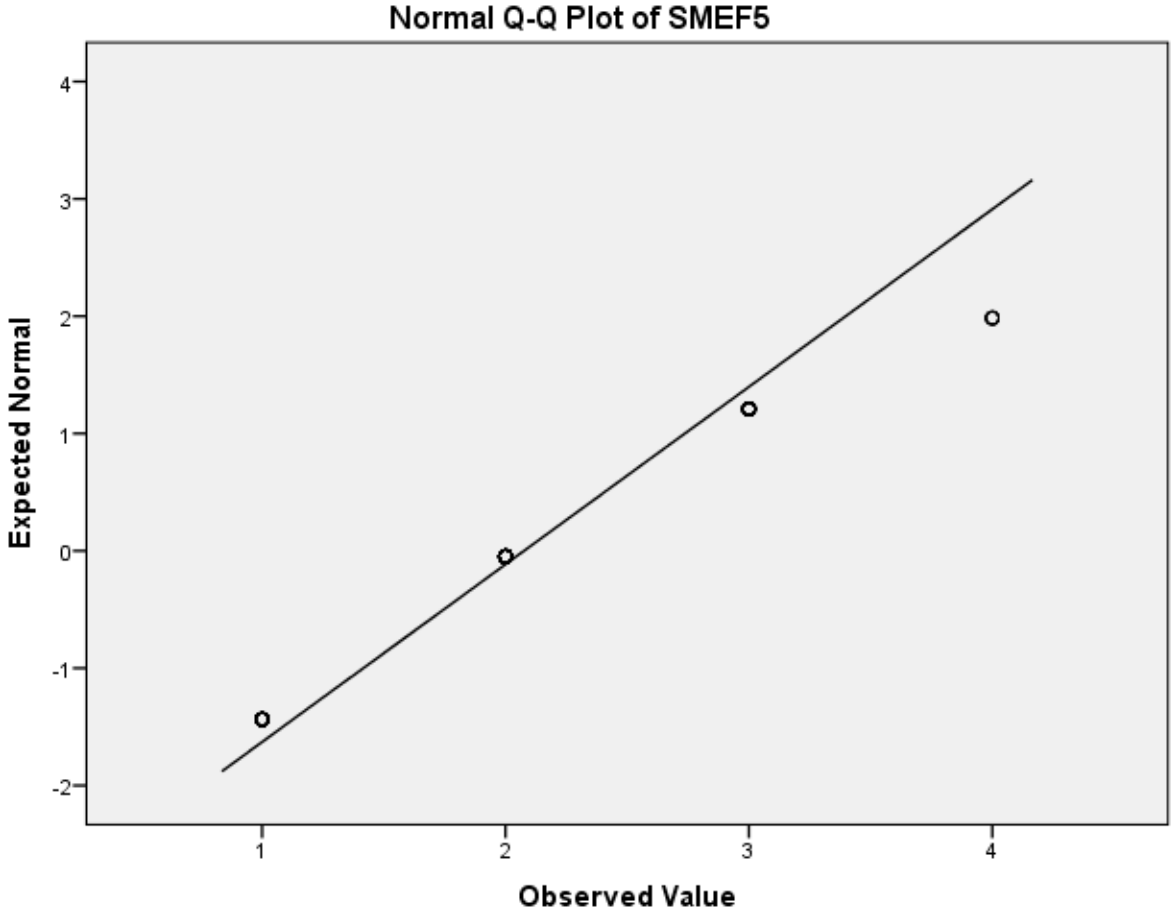


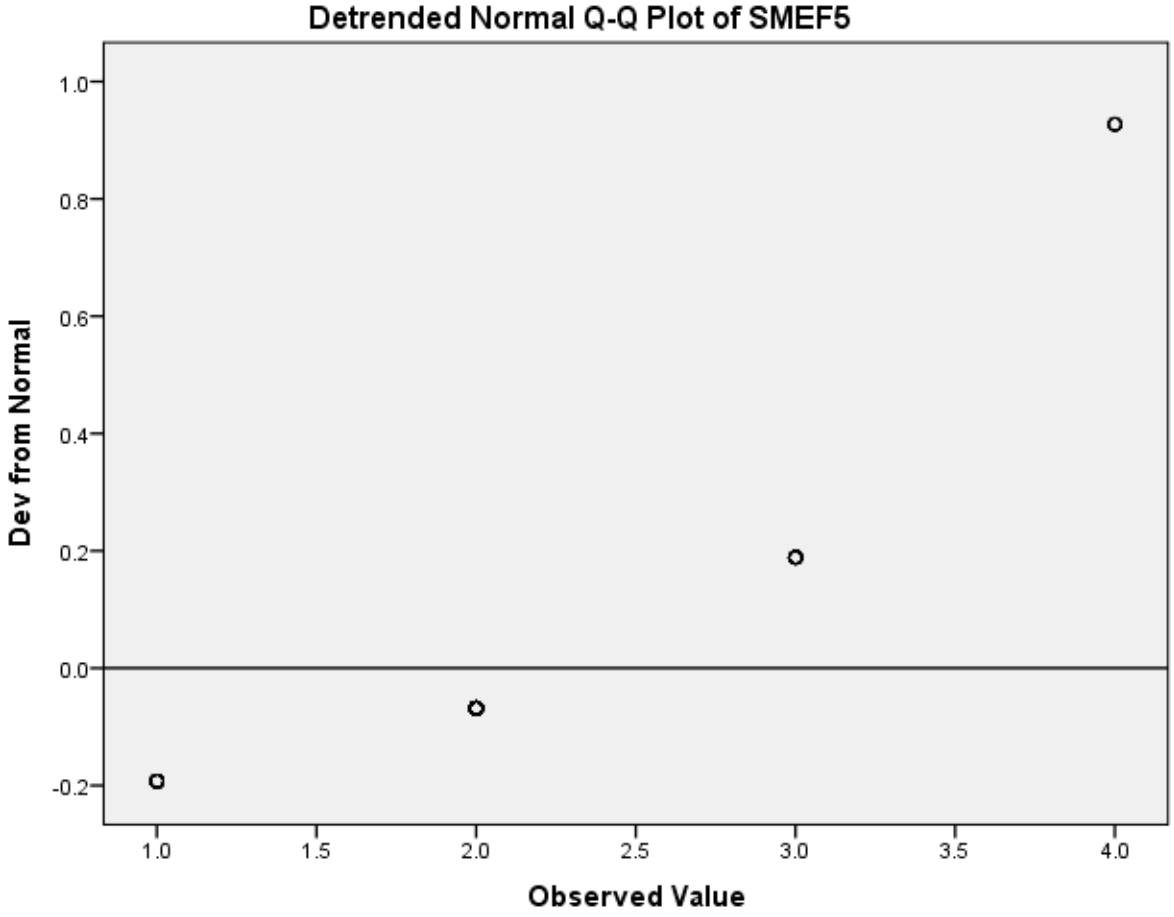
SMEF5

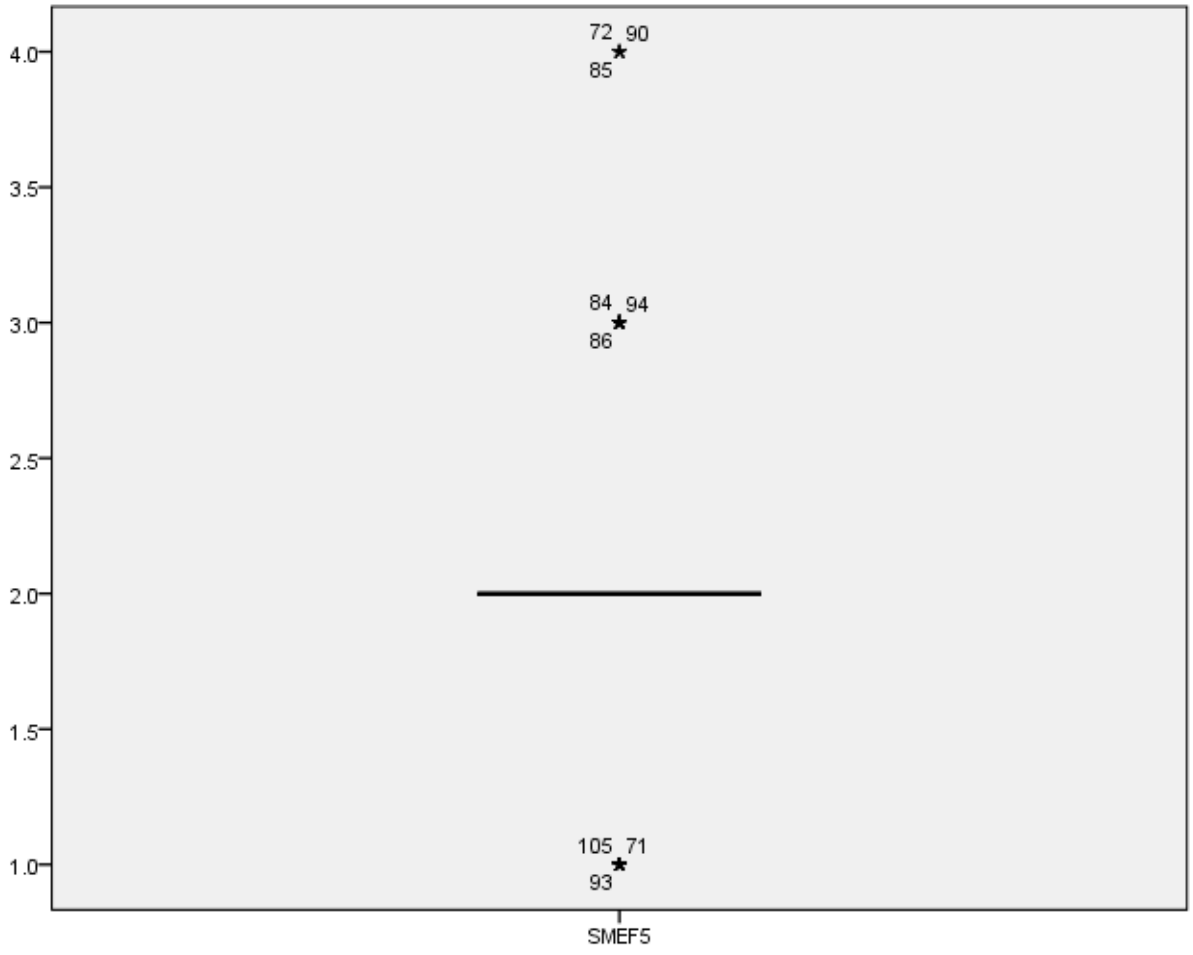


SMEF5 Stem-and-Leaf Plot

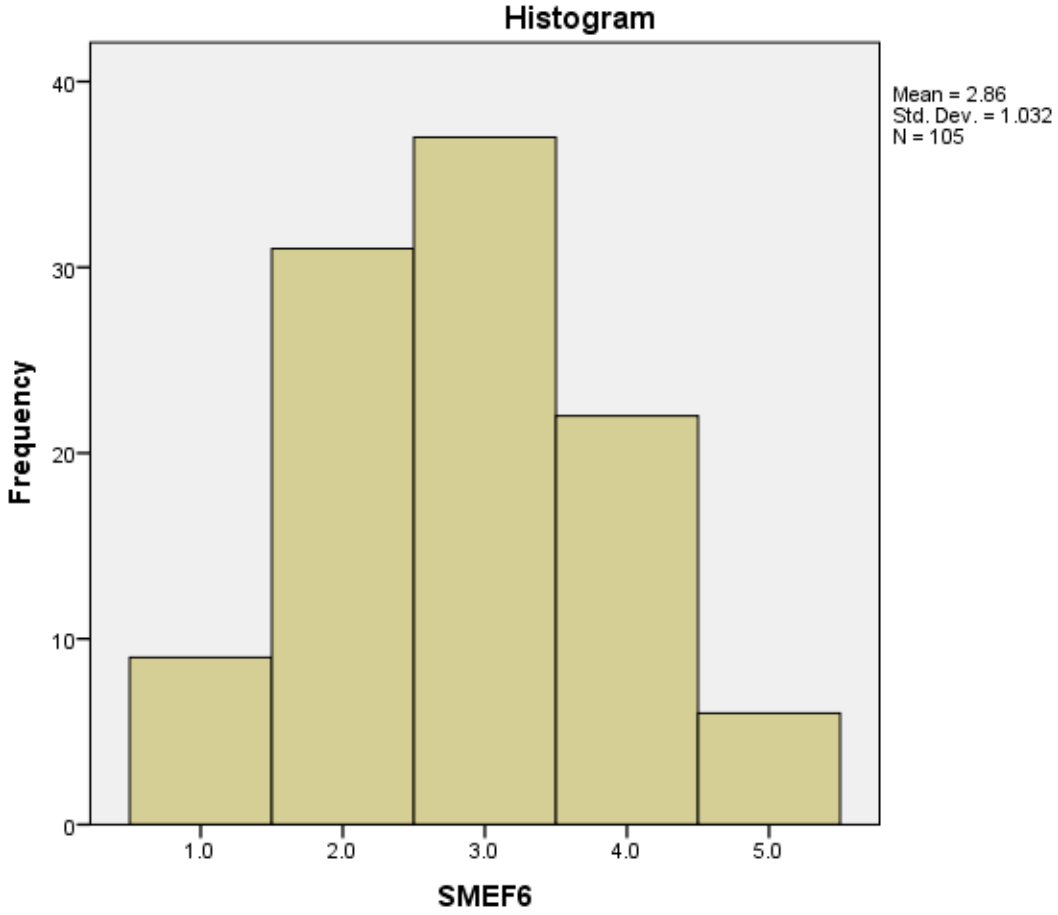
```
 Frequency    Stem &  Leaf

    15.00 Extremes    (=<1)
      .00         0 .
    71.00         0 .
22222222222222222222222222222222222222222222222222222222222222222222
    19.00 Extremes    (>=3)

 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of SMEF5
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
1
2
3
4


Detrended Normal Q-Q Plot of SMEF5
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Observed Value



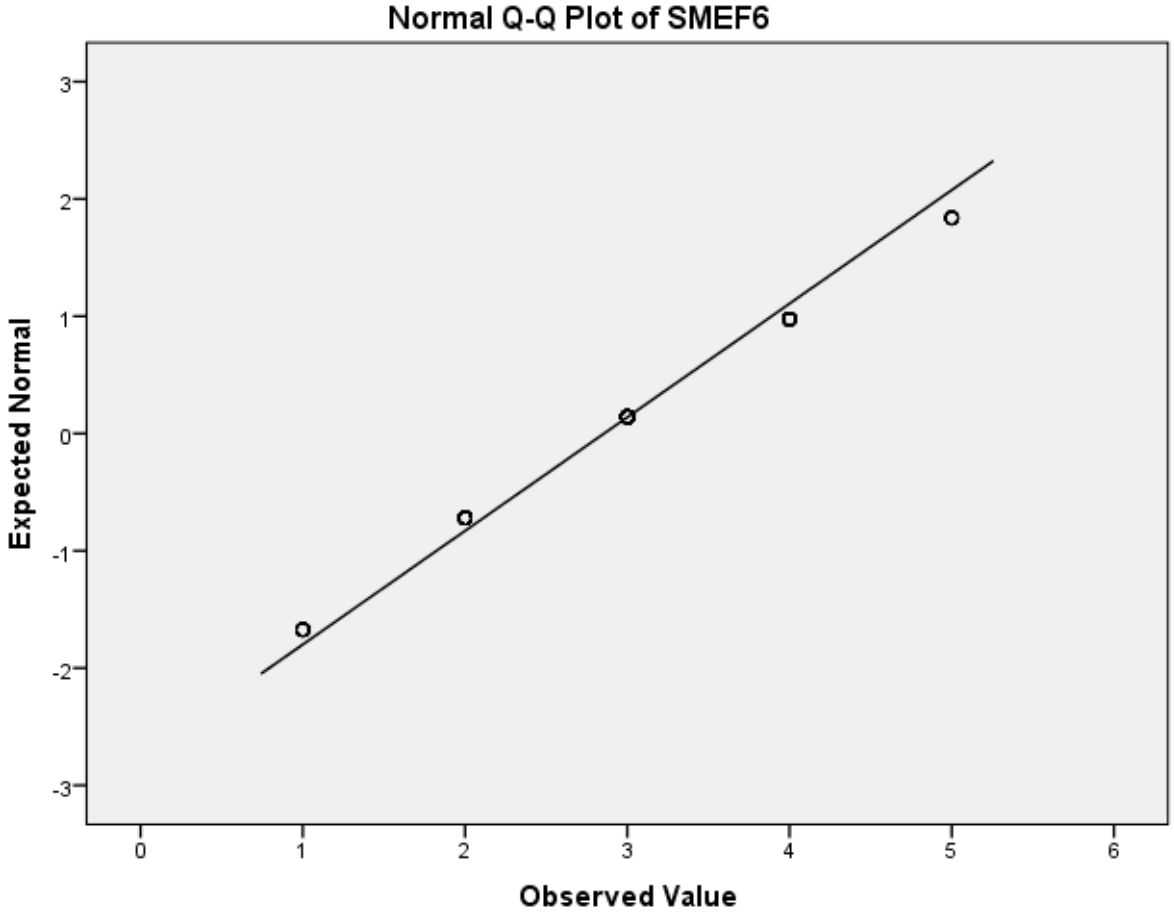
SMEF6

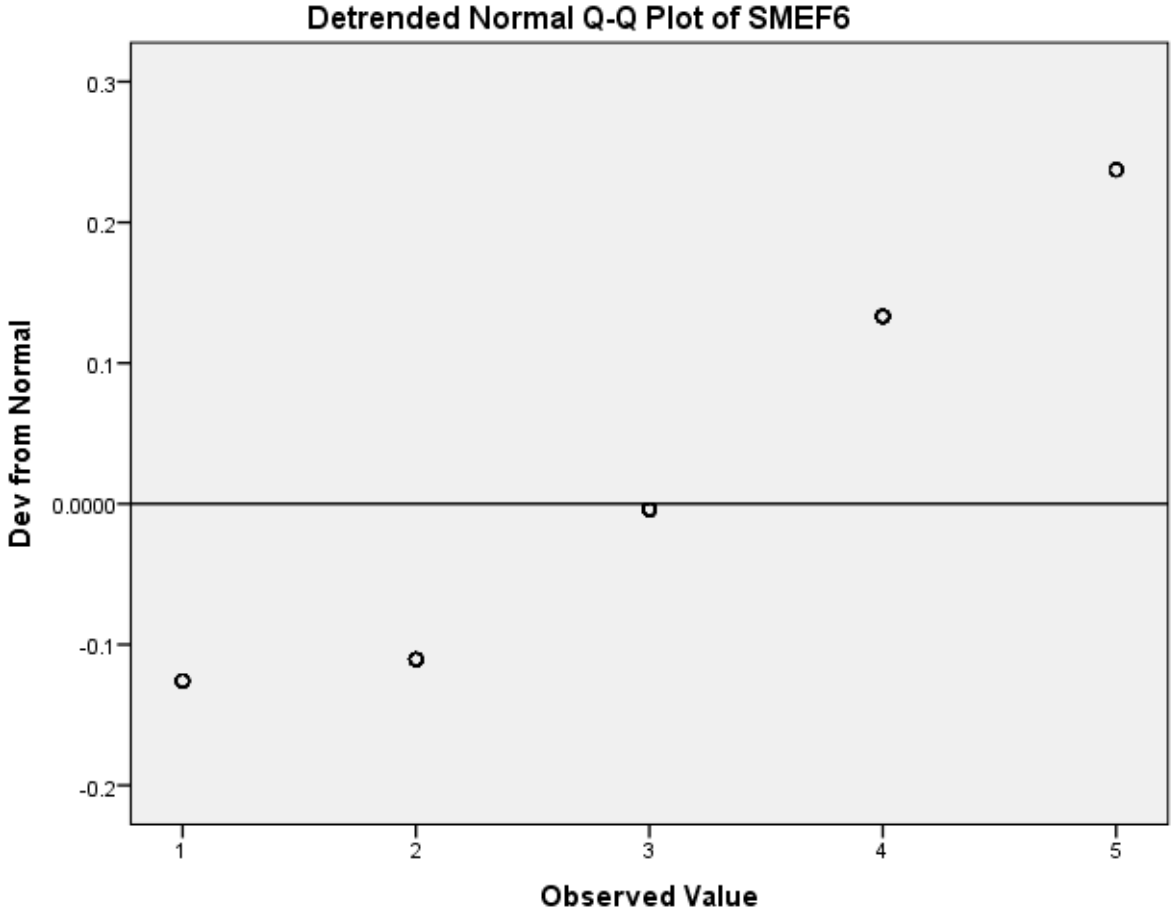


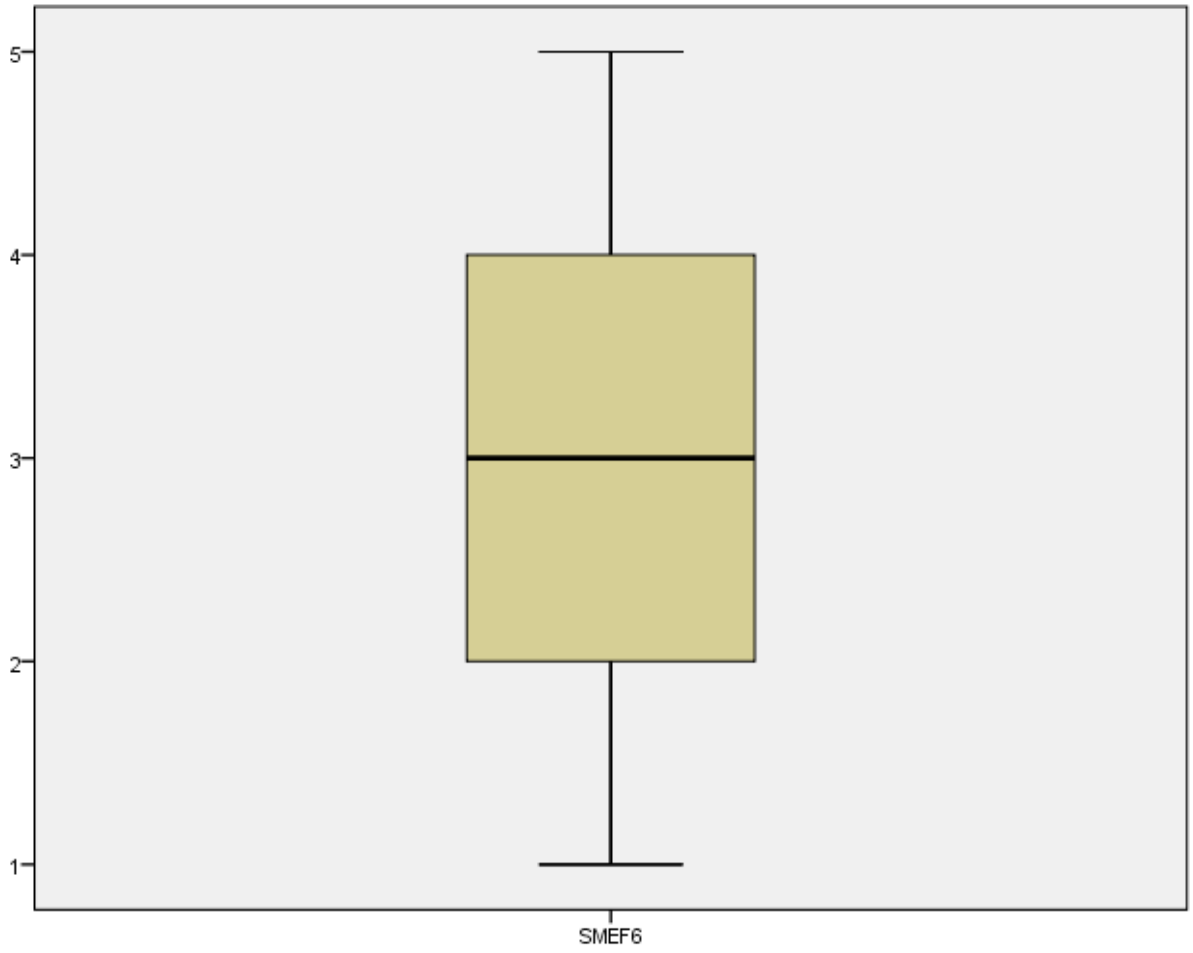
SMEF6 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
9.00	1 .	000000000
.00	1 .	
31.00	2 .	0000000000000000000000000000000
.00	2 .	
37.00	3 .	0000000000000000000000000000000000000
.00	3 .	
22.00	4 .	0000000000000000000000
.00	4 .	
6.00	5 .	000000

Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEF6
Expected Normal
Observed Value
3
2
1
0
-1
-2
-3
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEF6
Dev from Normal
0.3
0.2
0.1
0.0000
-0.1
-0.2
1
2
3
4
5
Observed Value




```
EXAMINE VARIABLES=SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8
  /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
  /COMPARE GROUPS
  /STATISTICS EXTREME
  /MISSING REPORT
  /NOTOTAL.
```

Explore

Notes

Output Created		15-SEP-2022 14:34:24
Comments		
Input	Data	C:\DBA\research paper,\German med paper\statistics\110 spss data.sav
	Active Dataset	DataSet1
	Filter	<none>

	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing. User-defined and system missing values for factors are treated as valid data.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8 /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT /COMPARE GROUPS /STATISTICS EXTREME /MISSING REPORT /NOTOTAL.
Resources	Processor Time	00:00:02.41
	Elapsed Time	00:00:02.35

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[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav
```

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
SMEP1	110	100.0%	0	0.0%	110	100.0%
SMEP2	110	100.0%	0	0.0%	110	100.0%
SMEP3	110	100.0%	0	0.0%	110	100.0%
SMEP5	110	100.0%	0	0.0%	110	100.0%
SMEP6	110	100.0%	0	0.0%	110	100.0%
SMEP7	110	100.0%	0	0.0%	110	100.0%
SMEP8	110	100.0%	0	0.0%	110	100.0%

Extreme Values

			Case Number	Value
SMEP1	Highest	1	76	5.0
		2	77	5.0
		3	13	4.0
		4	44	4.0
		5	85	4.0[a]
	Lowest	1	110	1.0
		2	103	1.0
		3	101	1.0
		4	100	1.0
		5	96	1.0[b]
SMEP2	Highest	1	76	5.0
		2	77	5.0
		3	57	4.0
		4	85	4.0
		5	99	4.0
	Lowest	1	110	1.0
		2	96	1.0
		3	83	1.0
		4	81	1.0
		5	79	1.0[b]
SMEP3	Highest	1	12	5.0
		2	28	5.0
		3	57	5.0
		4	75	5.0
		5	76	5.0[c]
	Lowest	1	13	1.0
		2	8	1.0
		3	5	1.0
		4	110	2.0
		5	104	2.0[d]
SMEP5	Highest	1	76	5.0
		2	77	5.0
		3	87	4.0
		4	90	4.0
		5	30	3.0[e]
	Lowest	1	110	1.0
		2	94	1.0
		3	85	1.0
		4	82	1.0
		5	81	1.0[b]

SMEP6	Highest	1	21	4.0
		2	26	4.0
		3	43	4.0
		4	55	4.0
		5	57	4.0[a]
	Lowest	1	110	1.0
		2	93	1.0
		3	72	1.0
		4	62	1.0
		5	56	1.0[b]
SMEP7	Highest	1	76	5.0
		2	77	5.0
		3	21	4.0
		4	41	4.0
		5	58	4.0[a]
	Lowest	1	83	1.0
		2	75	1.0
		3	71	1.0
		4	42	1.0
		5	39	1.0[b]
SMEP8	Highest	1	18	5.0
		2	22	5.0
		3	39	5.0
		4	42	5.0
		5	45	5.0[c]
	Lowest	1	110	1.0
		2	96	1.0
		3	90	1.0
		4	89	1.0
		5	85	1.0[b]

a. Only a partial list of cases with the value 4.0 are shown in the table of upper extremes.

b. Only a partial list of cases with the value 1.0 are shown in the table of lower extremes.

c. Only a partial list of cases with the value 5.0 are shown in the table of upper extremes.

d. Only a partial list of cases with the value 2.0 are shown in the table of lower extremes.

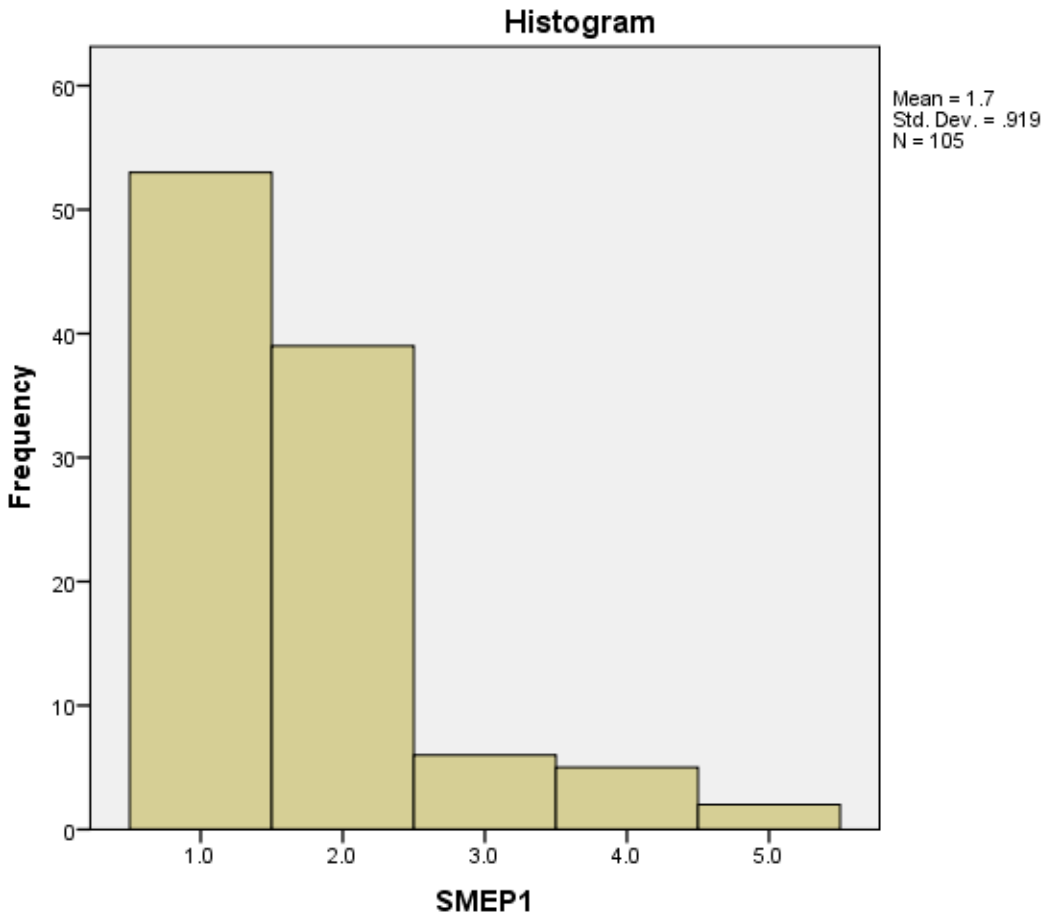
e. Only a partial list of cases with the value 3.0 are shown in the table of upper extremes.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
SMEP1	.283	110	.000	.727	110	.000
SMEP2	.338	110	.000	.776	110	.000
SMEP3	.225	110	.000	.873	110	.000
SMEP5	.283	110	.000	.801	110	.000
SMEP6	.250	110	.000	.858	110	.000
SMEP7	.309	110	.000	.844	110	.000
SMEP8	.252	110	.000	.875	110	.000

a. Lilliefors Significance Correction

SMEP1

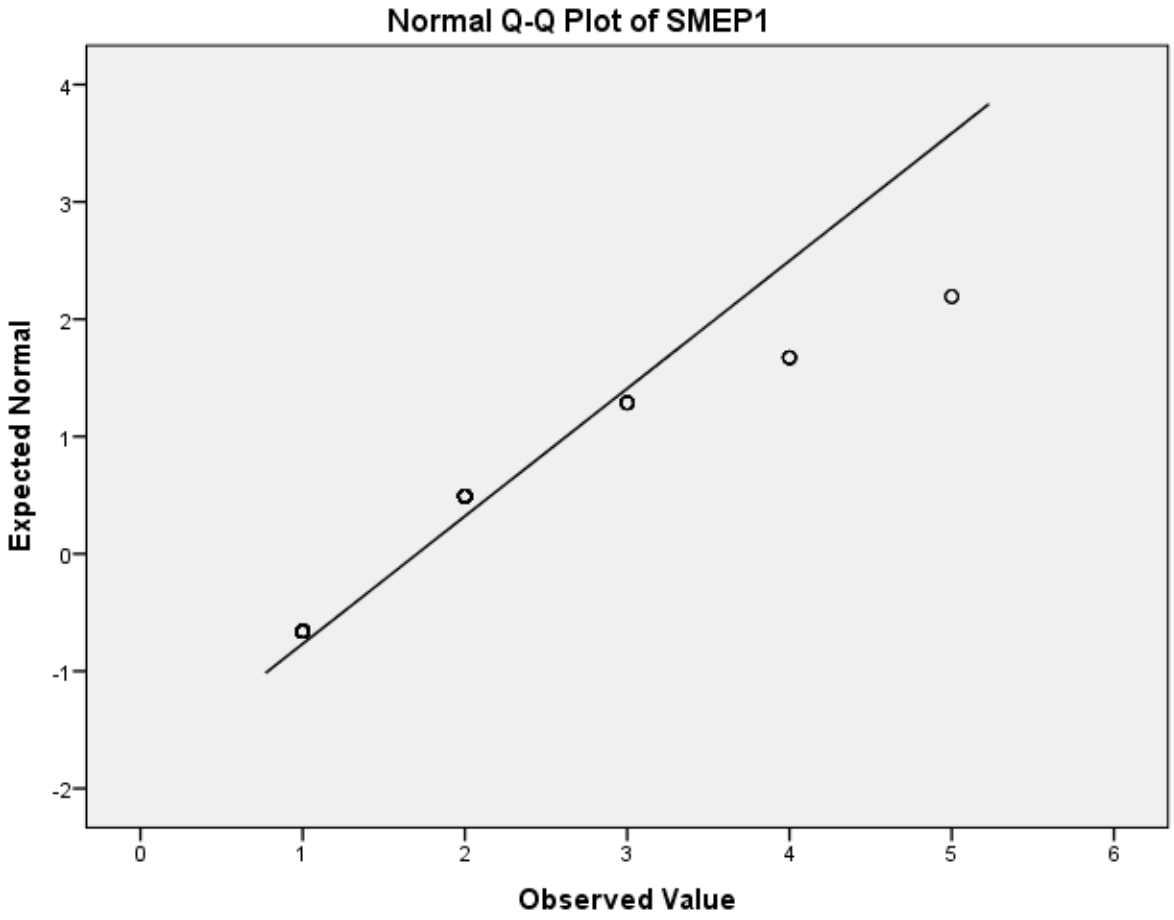


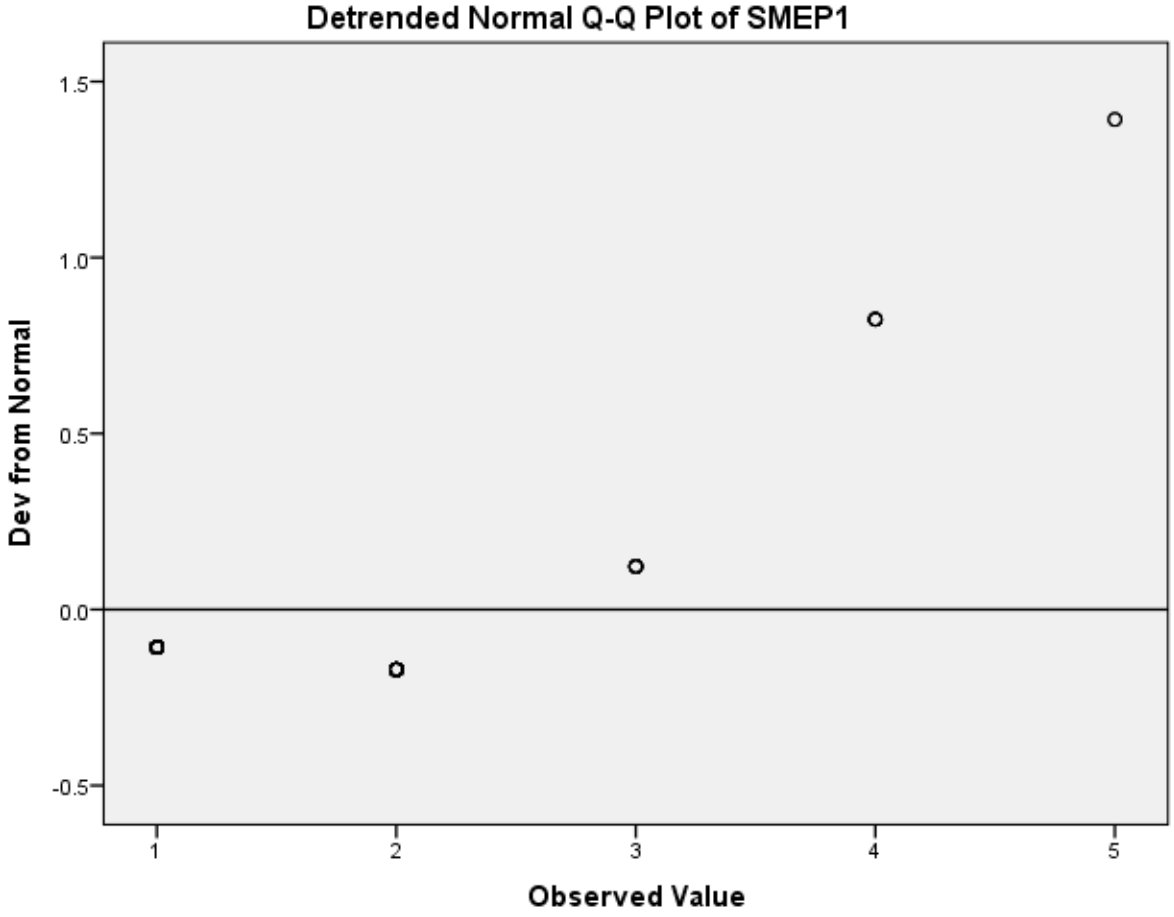
SMEP1 Stem-and-Leaf Plot

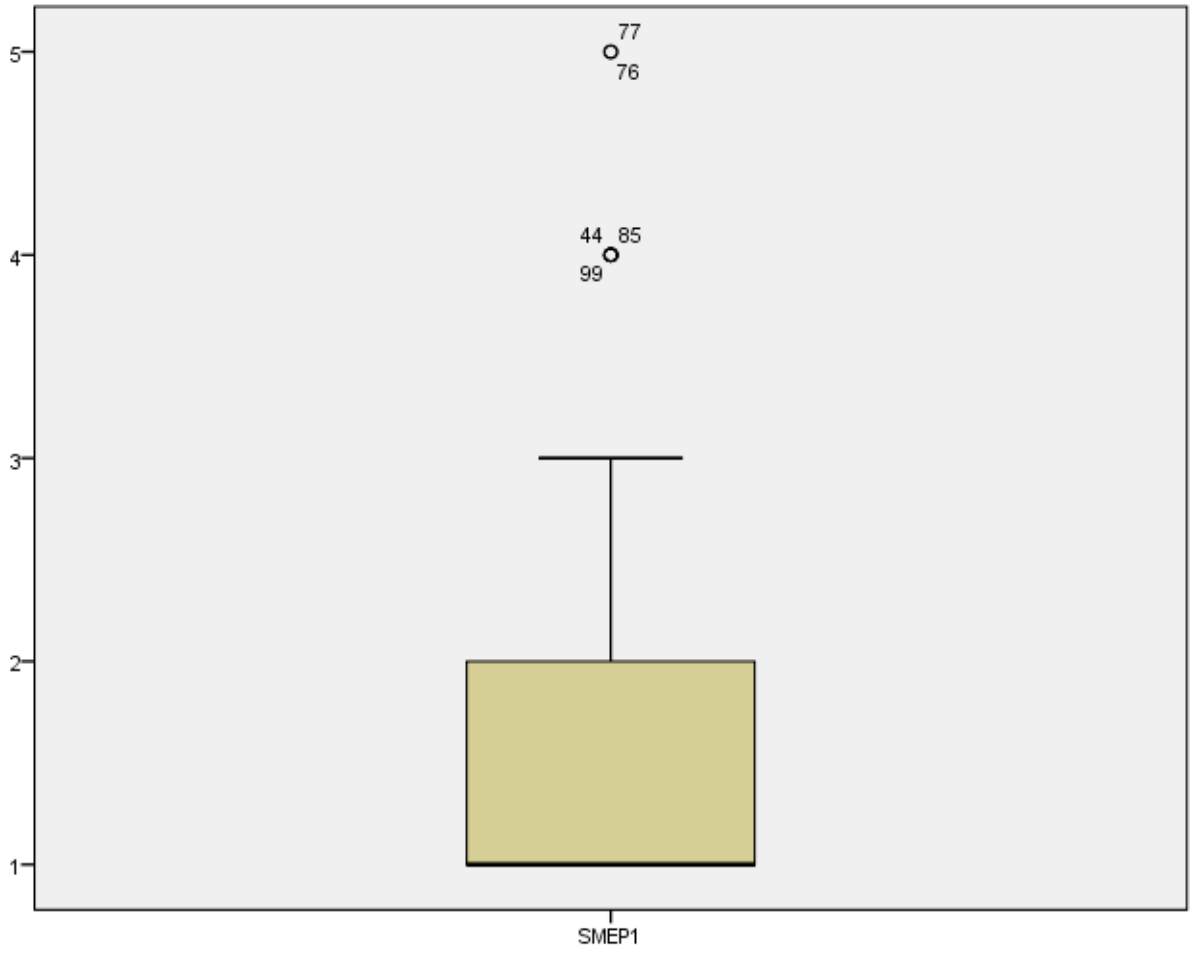
```
 Frequency    Stem &  Leaf

    53.00         1 .  00000000000000000000000000000000000000000000000000000
      .00         1 .
      .00         1 .
      .00         1 .
      .00         1 .
    39.00         2 .  000000000000000000000000000000000000000
      .00         2 .
      .00         2 .
      .00         2 .
      .00         2 .
     6.00         3 .  000000
     7.00 Extremes    (>=4.0)

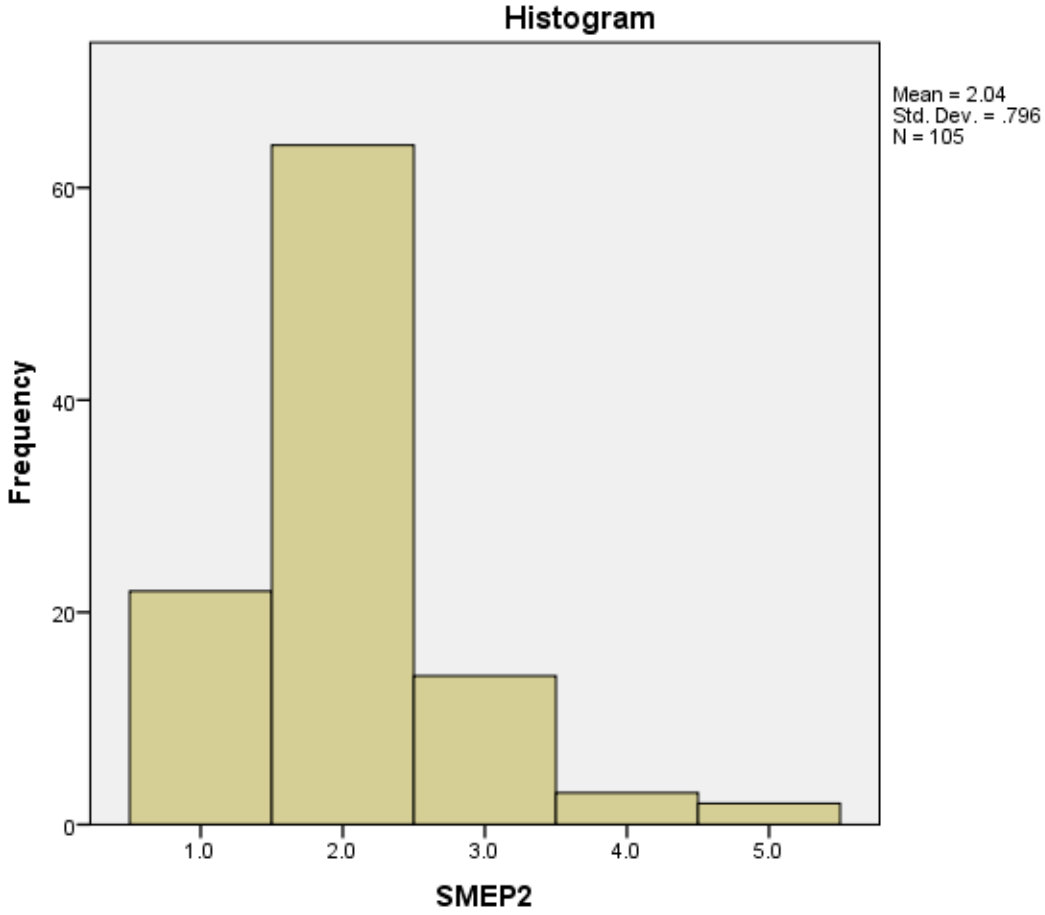
 Stem width:       1.0
 Each leaf:       1 case(s)
```




Detrended Normal Q-Q Plot of SMEP1
Dev from Normal
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value



SMEP2

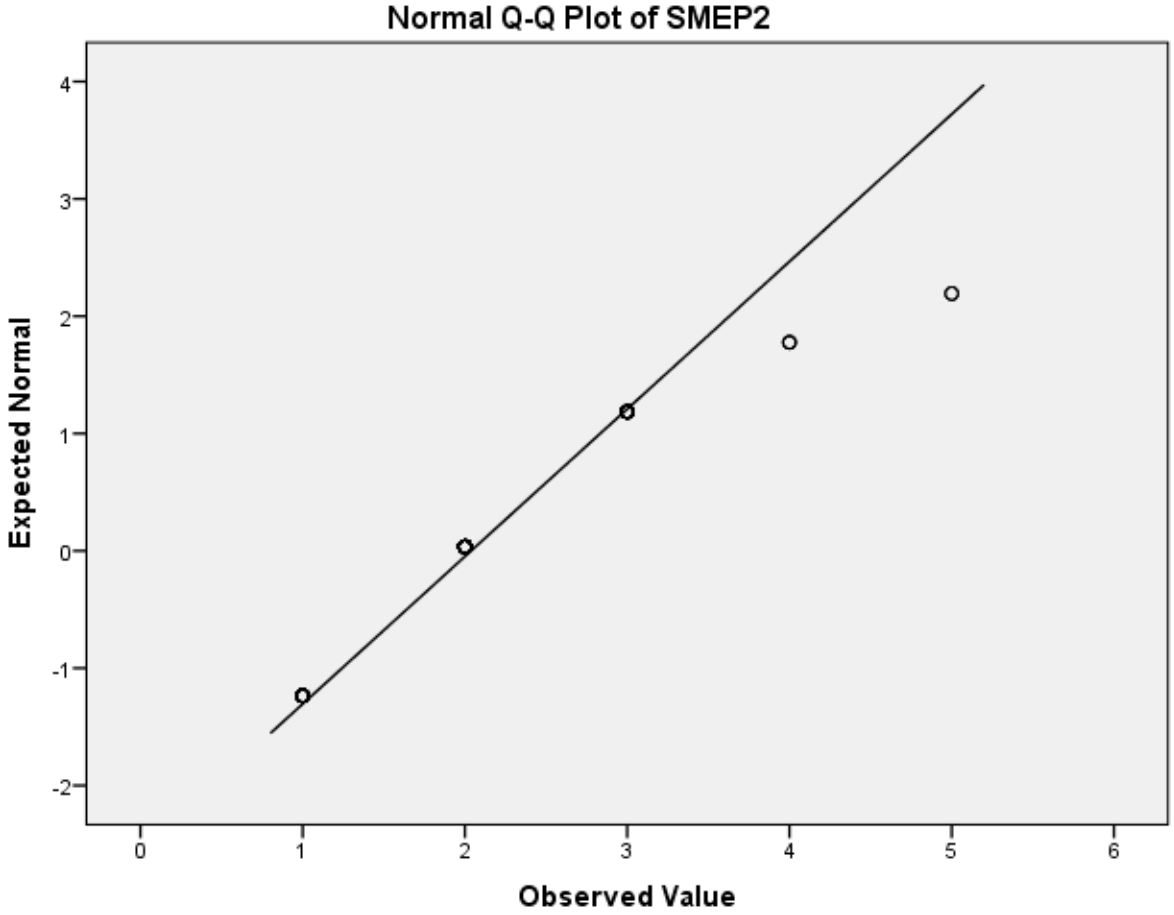


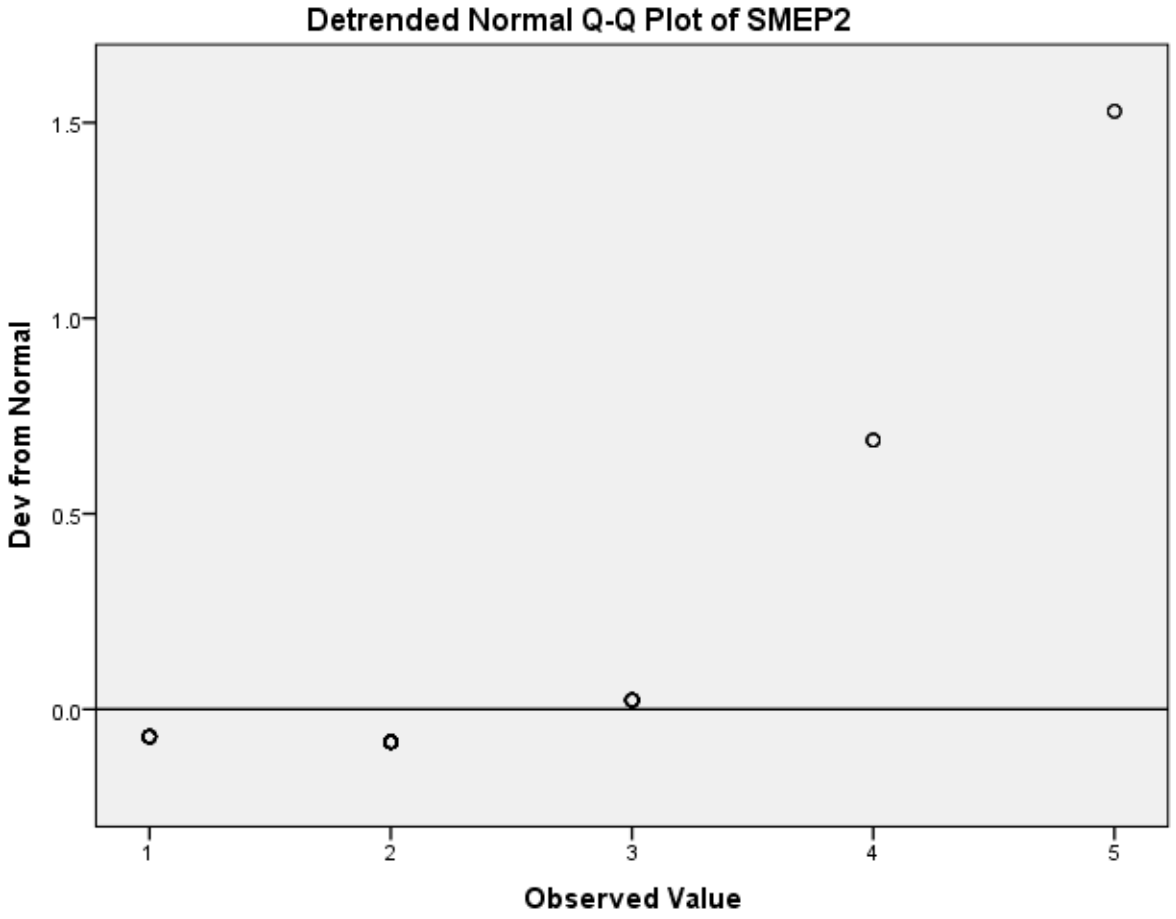

```
SMEP2 Stem-and-Leaf Plot

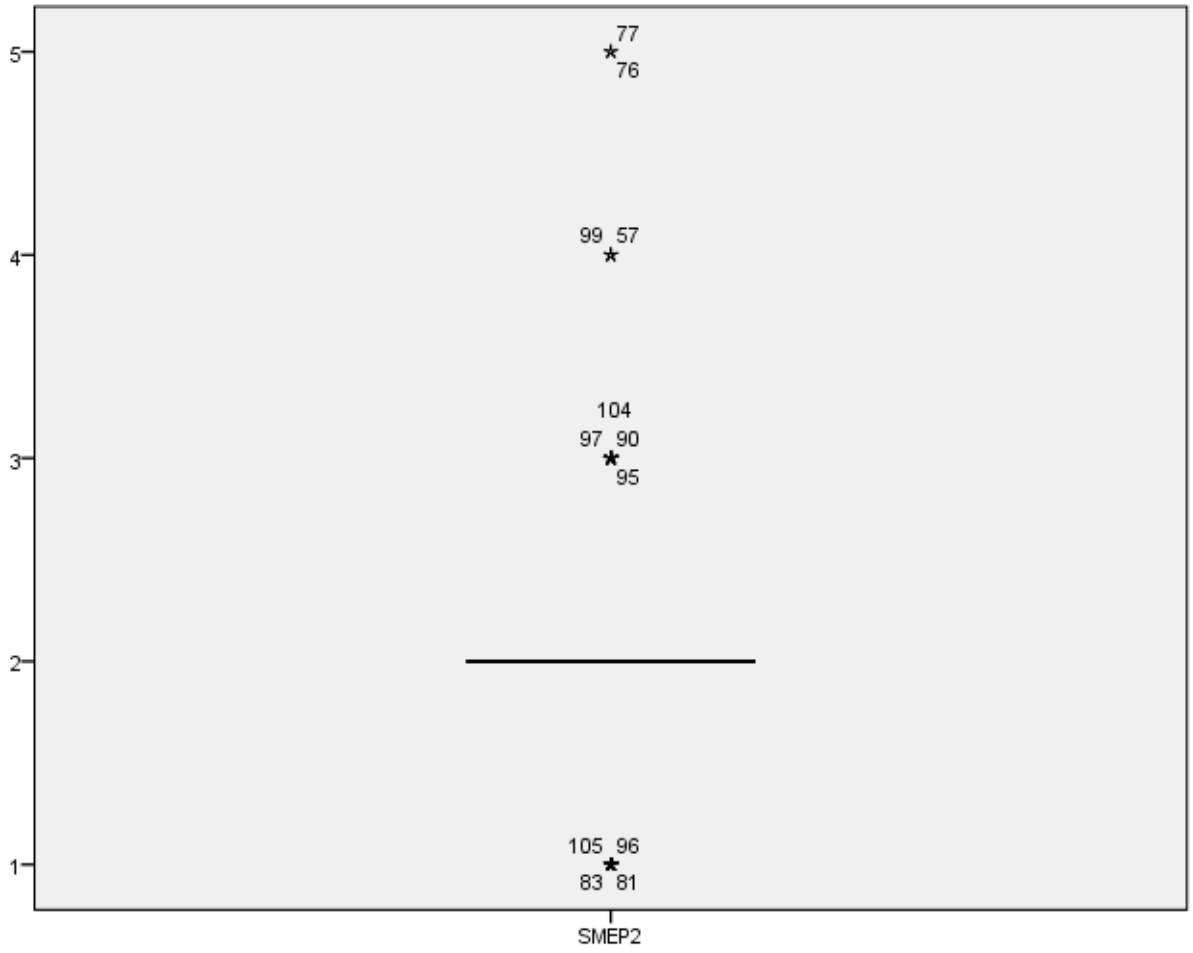
 Frequency    Stem &  Leaf

    22.00 Extremes    (=<1)
      .00         0 .
    64.00         0 .
22222222222222222222222222222222222222222222222222222222222222222
    19.00 Extremes    (>=3)

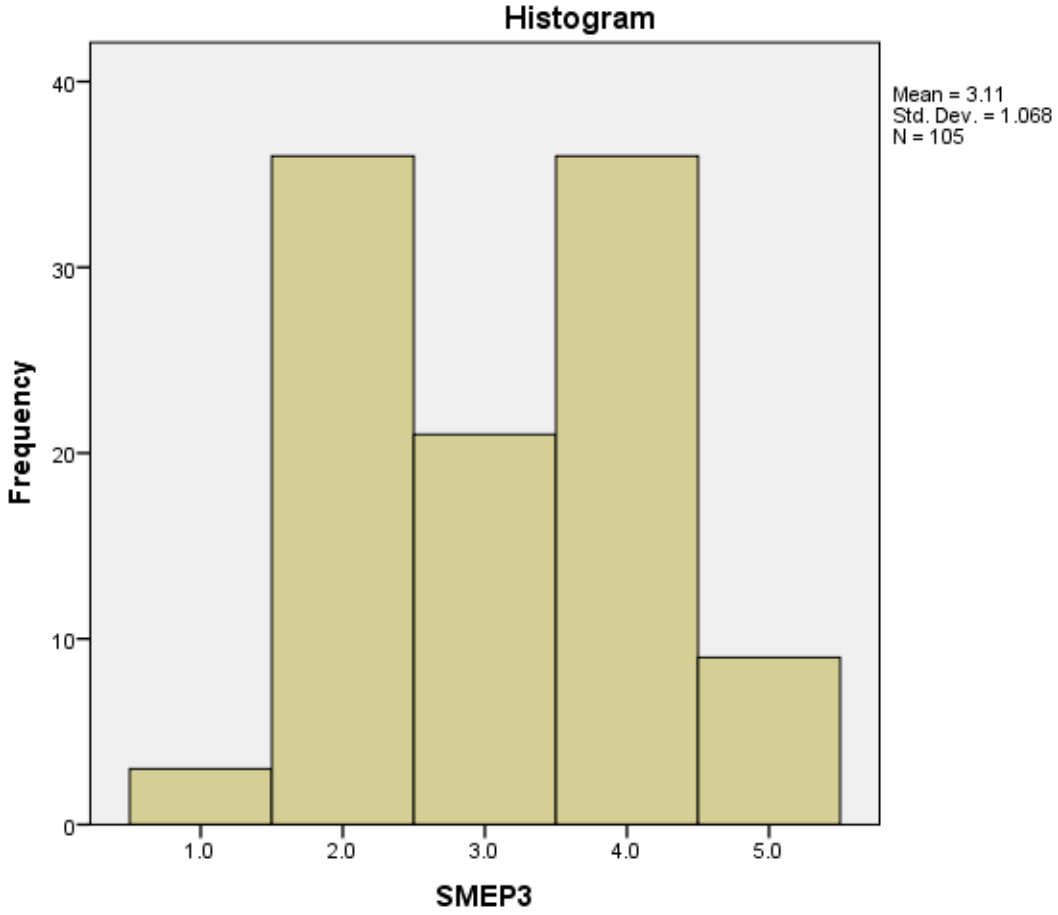
 Stem width:      10.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of SMEP2
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEP2
Dev from Normal
1.5
1.0
0.5
0.0
1
2
3
4
5
Observed Value



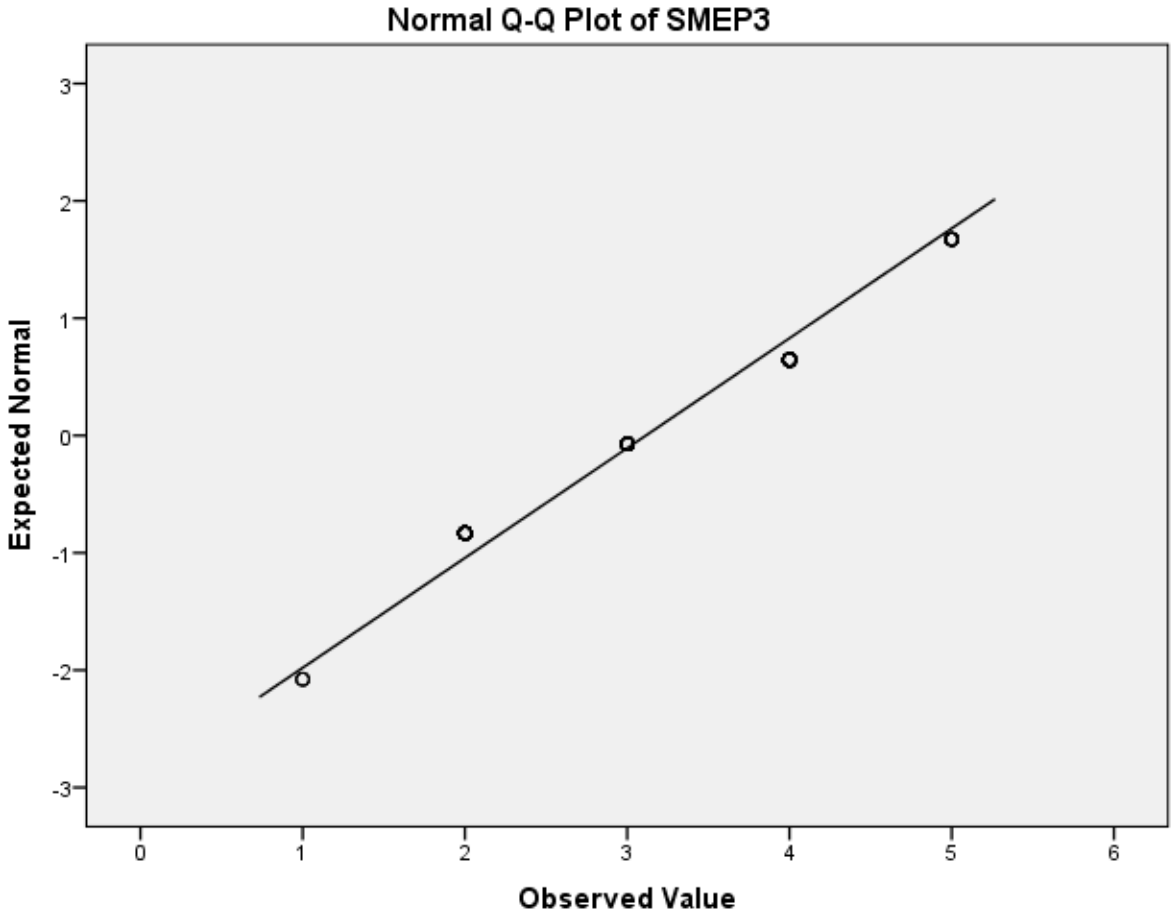
SMEP3

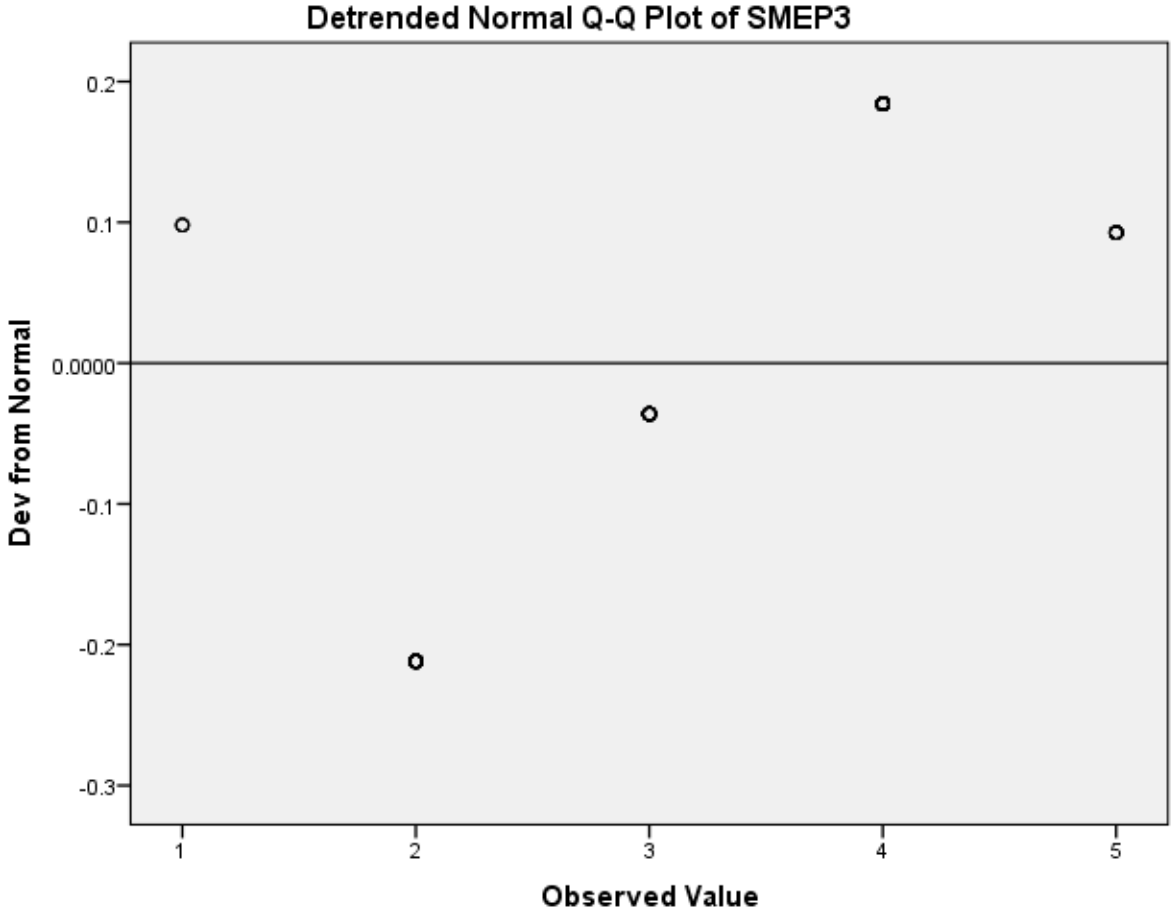


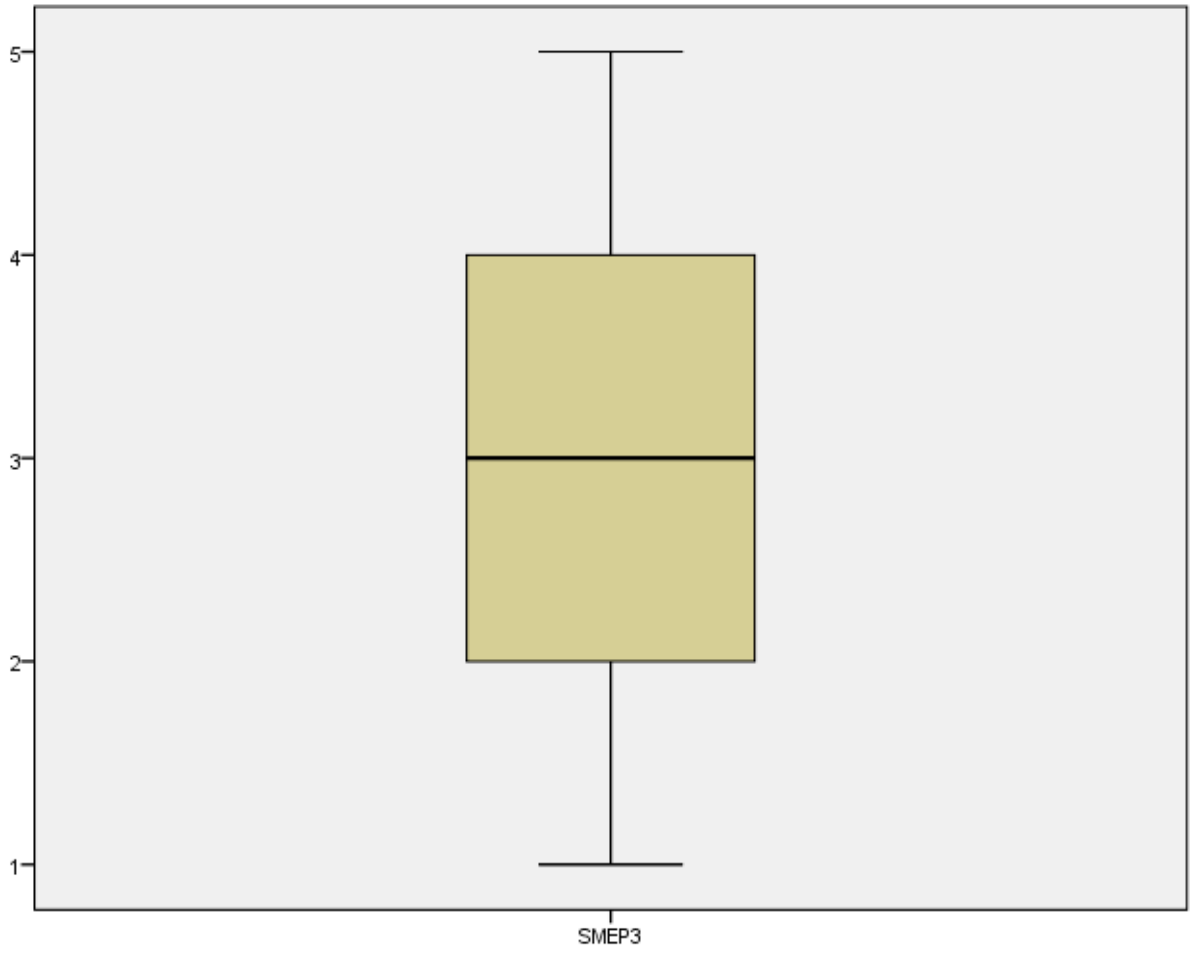
SMEP3 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
3.00	1 .	000
.00	1 .	
36.00	2 .	000000000000000000000000000000000000
.00	2 .	
21.00	3 .	000000000000000000000
.00	3 .	
36.00	4 .	000000000000000000000000000000000000
.00	4 .	
9.00	5 .	000000000

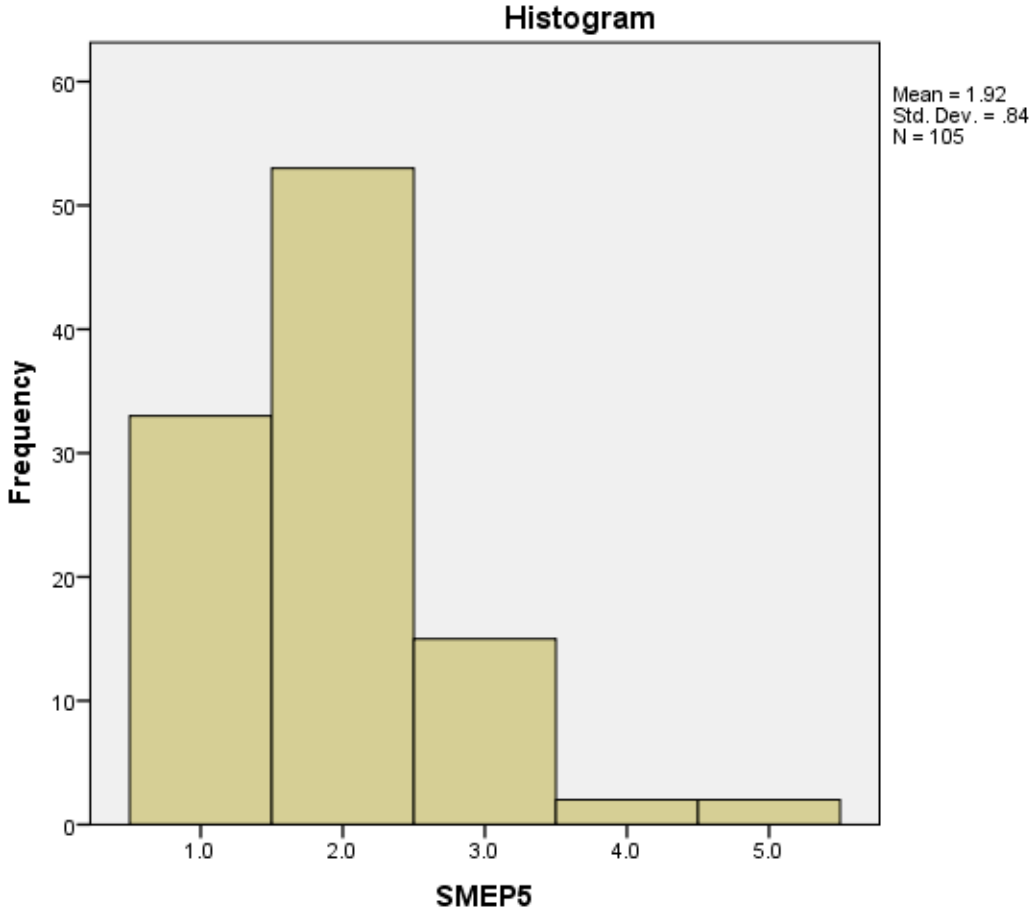
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEP3
Expected Normal
Observed Value
3
2
1
0
-1
-2
-3
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEP3
Dev from Normal
0.2
0.1
0.0000
-0.1
-0.2
-0.3
1
2
3
4
5
Observed Value



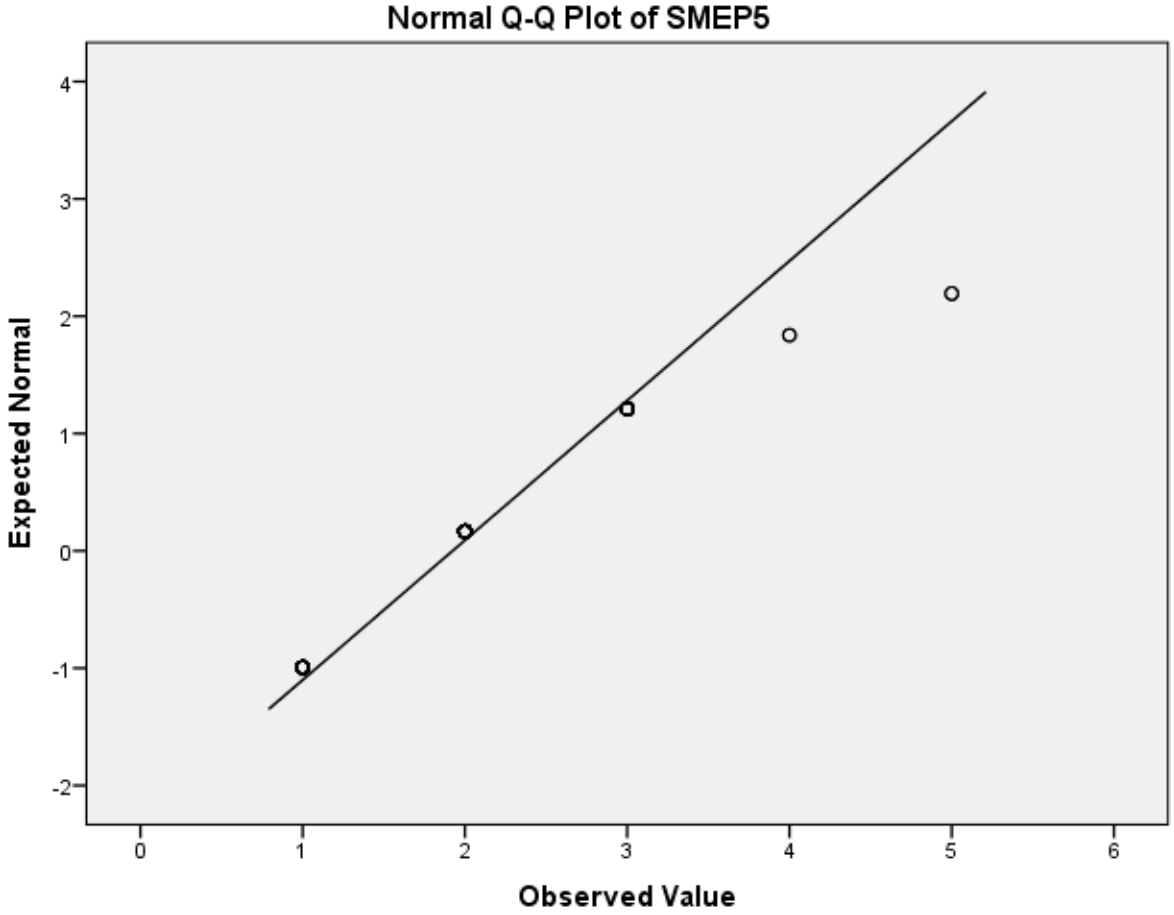
SMEP5

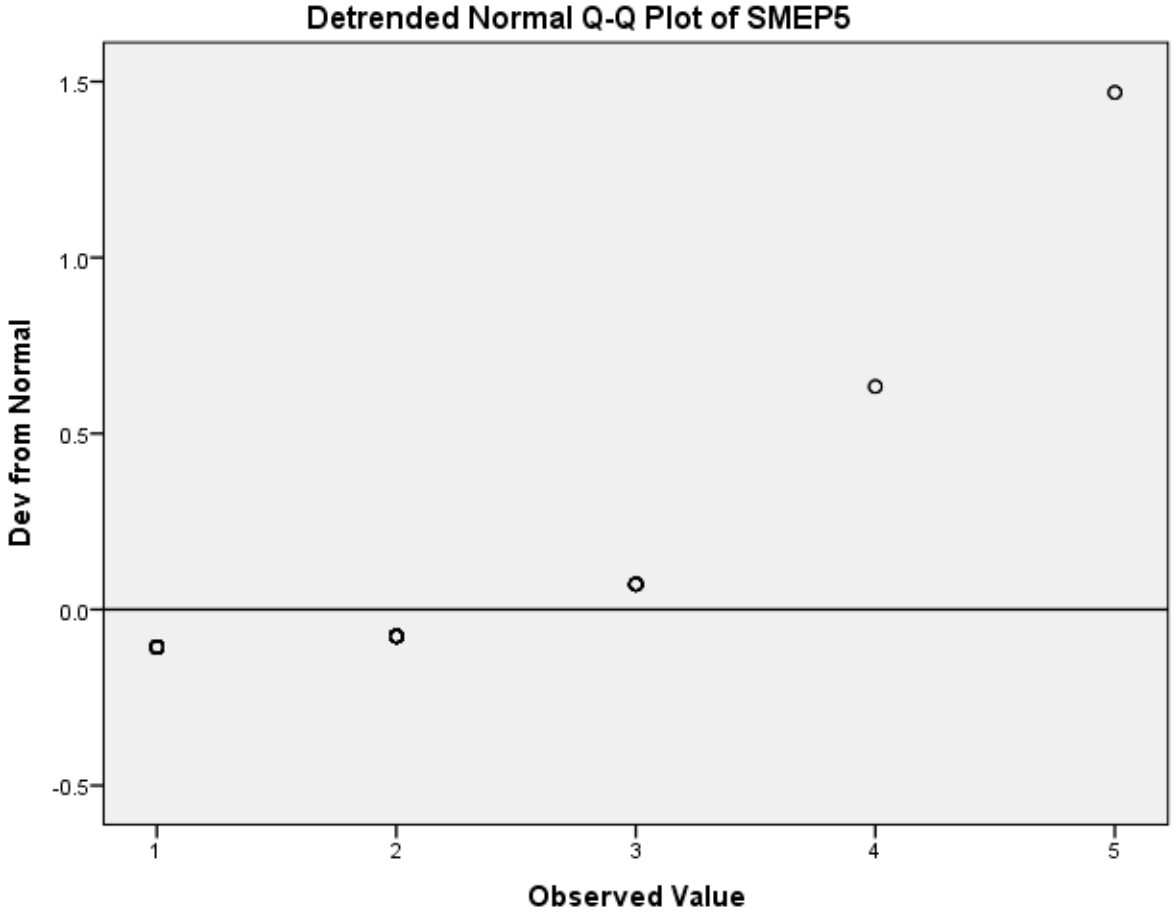


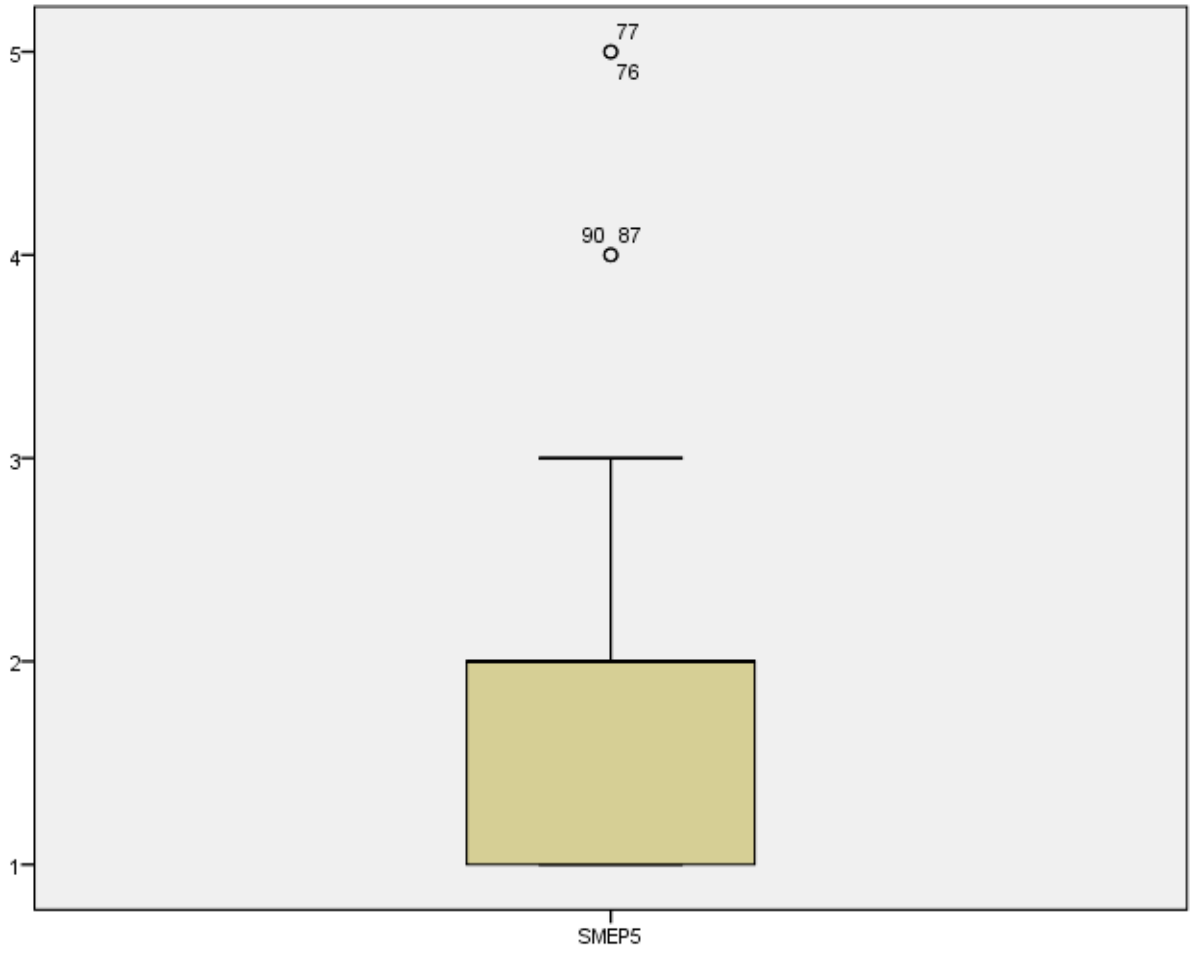
SMEP5 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
33.00	1 .	000000000000000000000000000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
53.00	2 .	00000000000000000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
15.00	3 .	000000000000000
4.00	Extremes	(>=4.0)

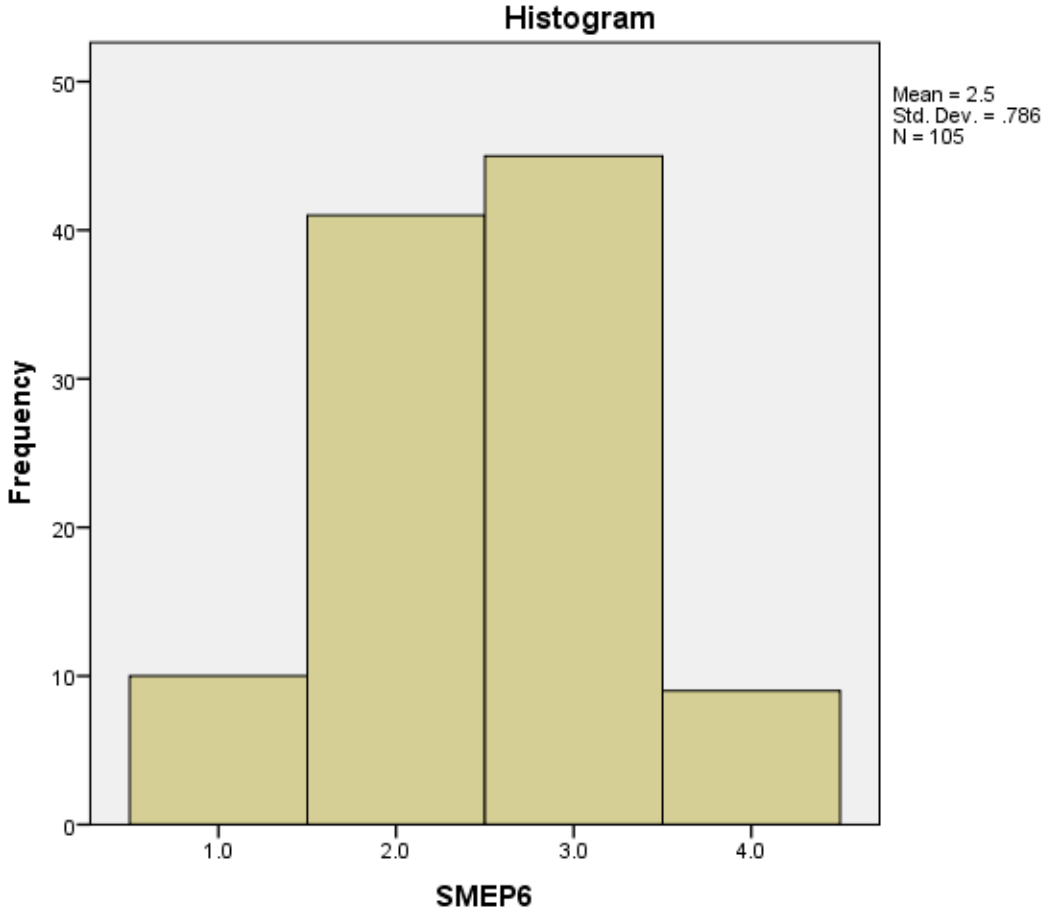
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEP5
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEP5
Dev from Normal
1.5
1.0
0.5
0.0
-0.5
1
2
3
4
5
Observed Value



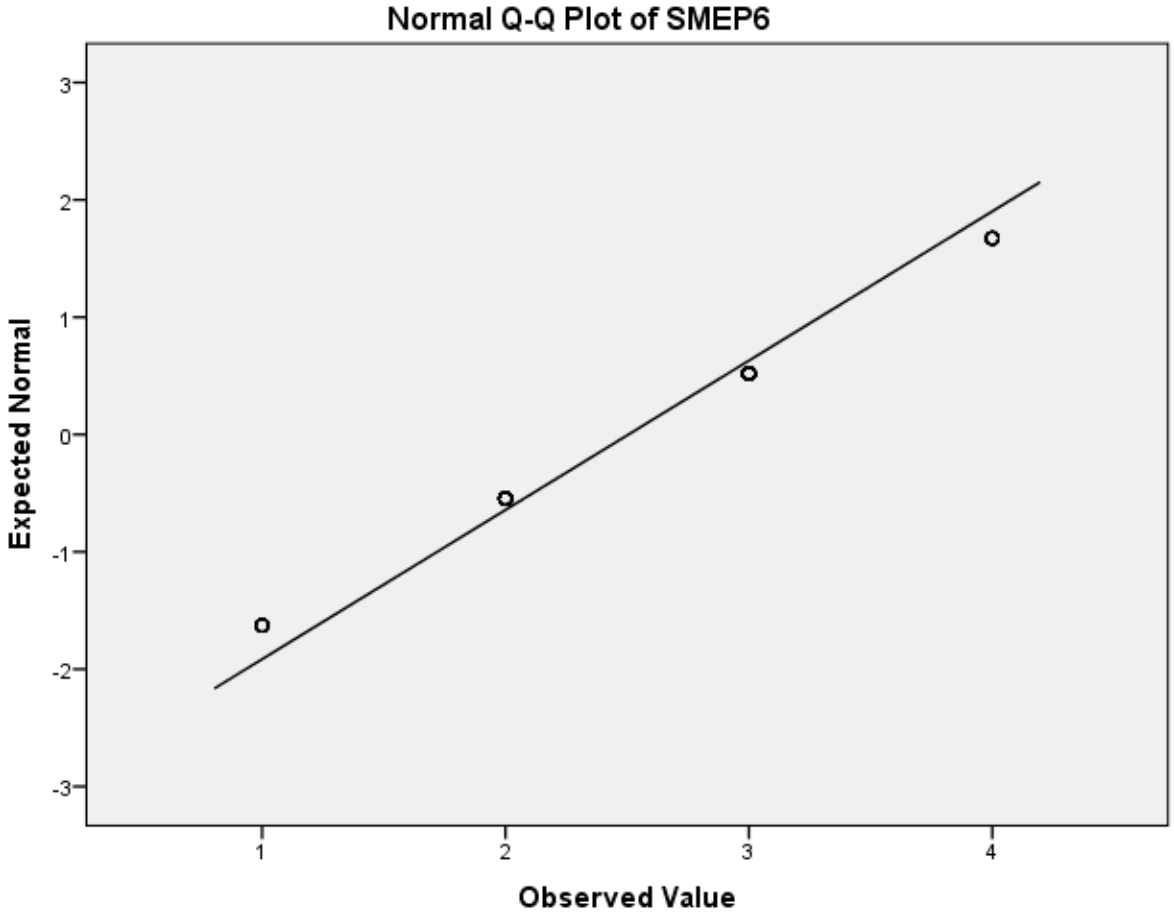
SMEP6

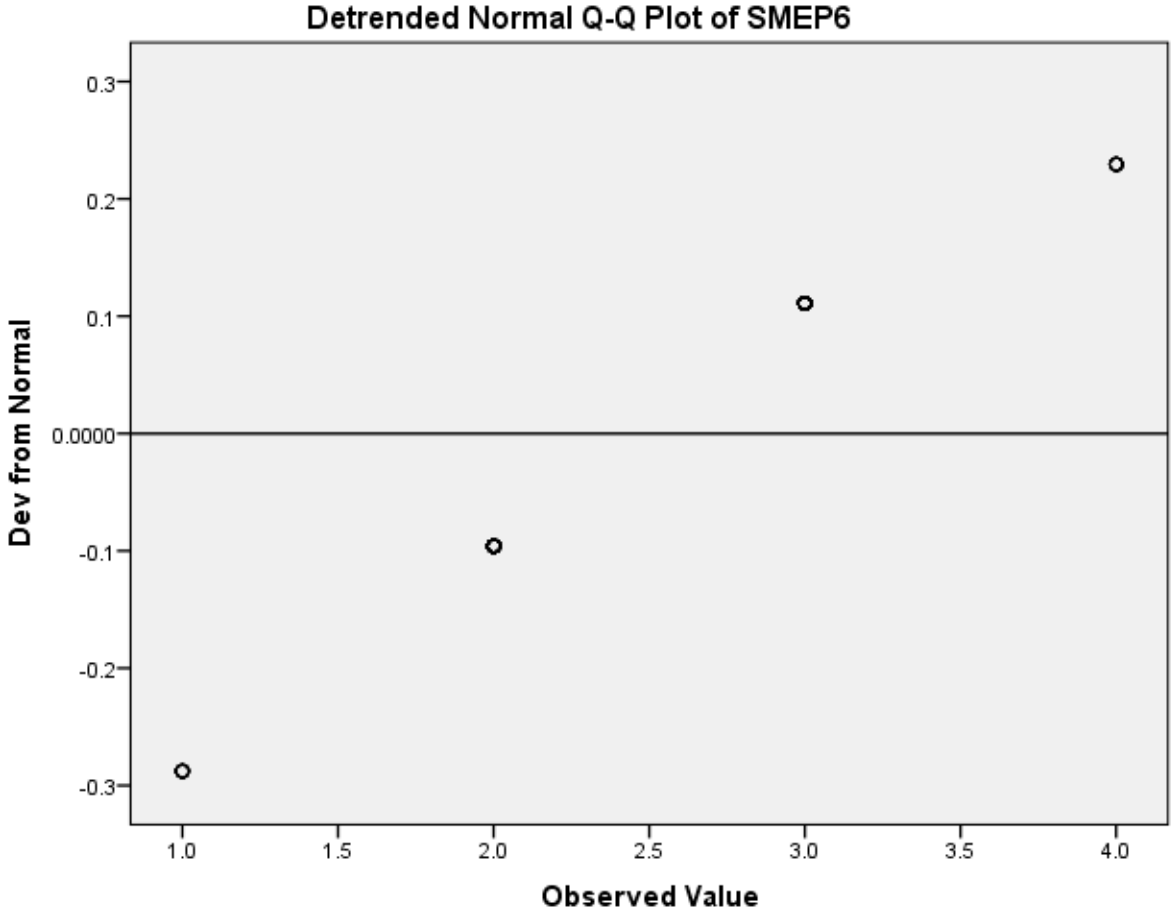


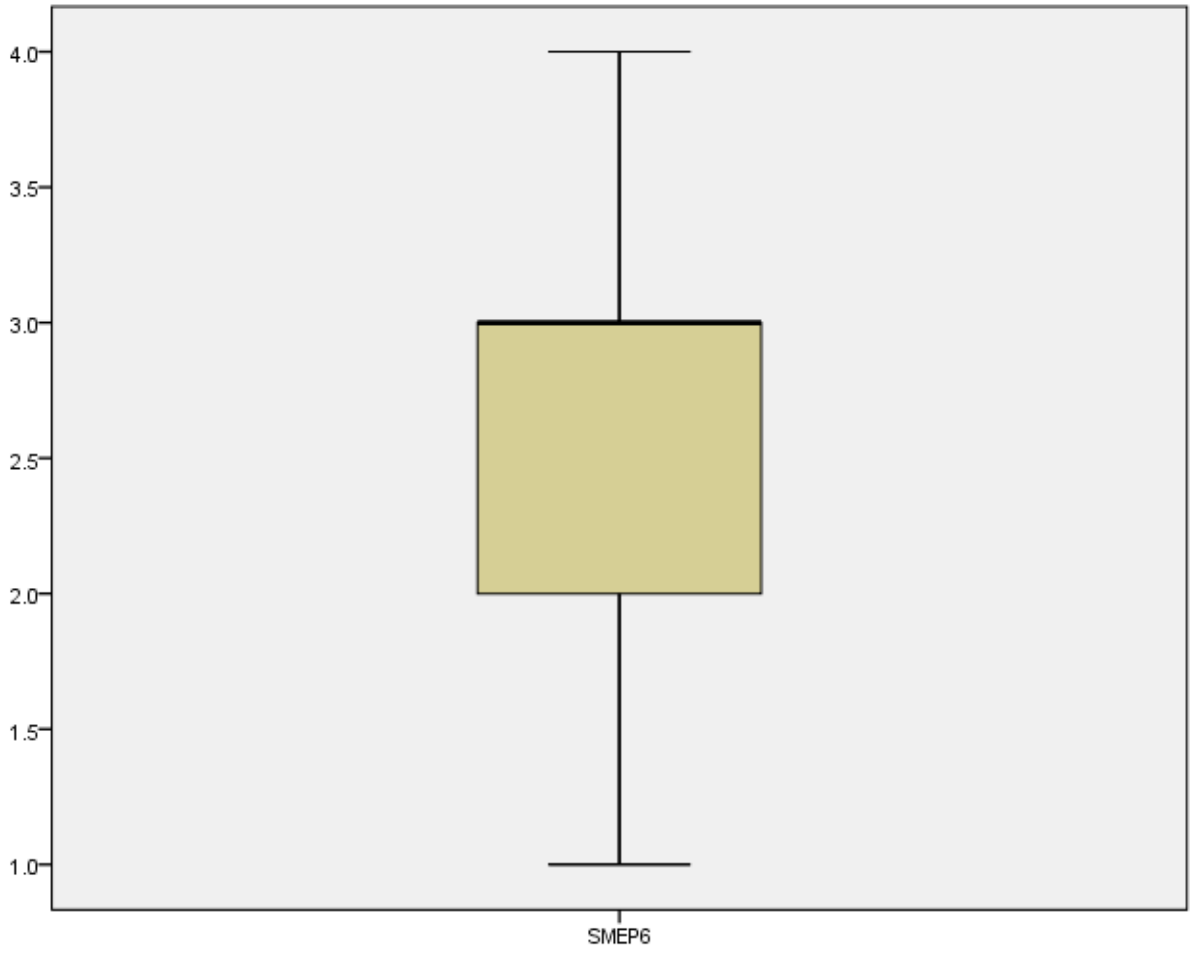
SMEP6 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
10.00	1 .	0000000000
.00	1 .	
.00	1 .	
.00	1 .	
.00	1 .	
41.00	2 .	00000000000000000000000000000000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
45.00	3 .	000000000000000000000000000000000000000000000
.00	3 .	
.00	3 .	
.00	3 .	
.00	3 .	
9.00	4 .	000000000

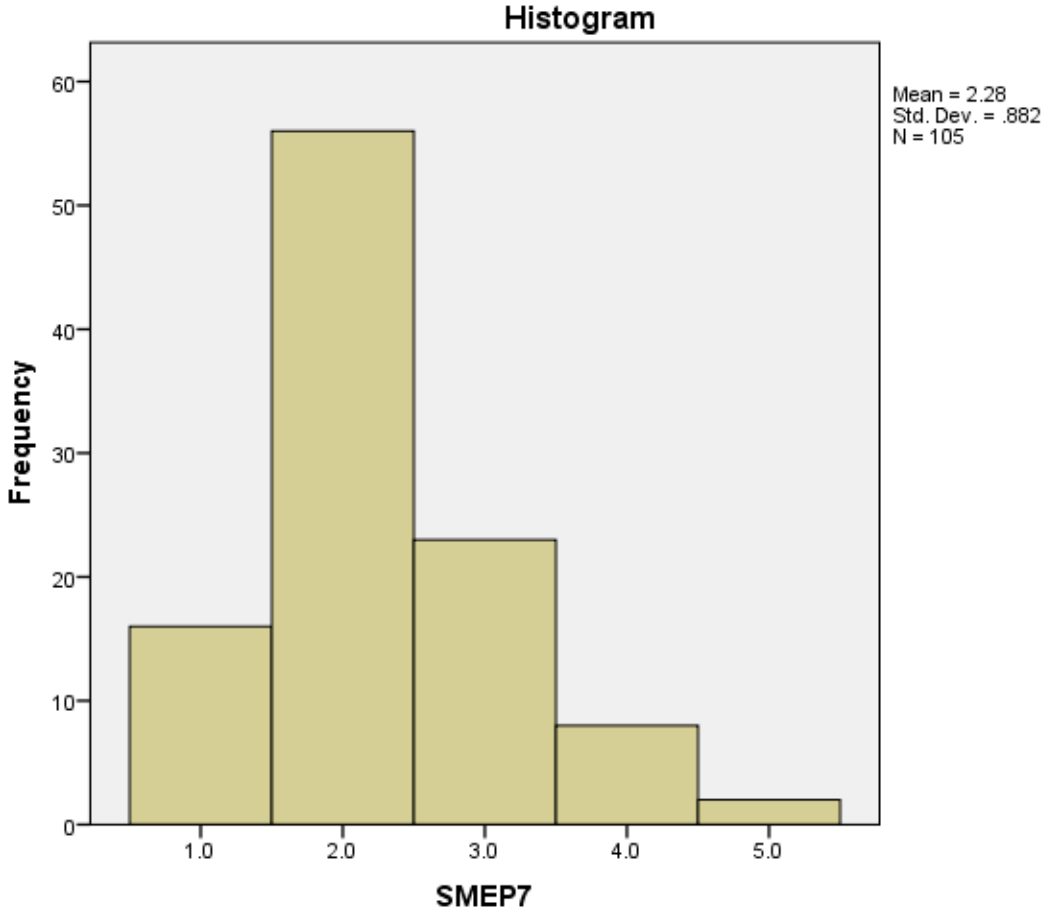
Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEP6
Expected Normal
3
2
1
0
-1
-2
-3
1
2
3
4
Observed Value


Detrended Normal Q-Q Plot of SMEP6
Dev from Normal
0.3
0.2
0.1
0.0000
-0.1
-0.2
-0.3
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Observed Value



SMEP7

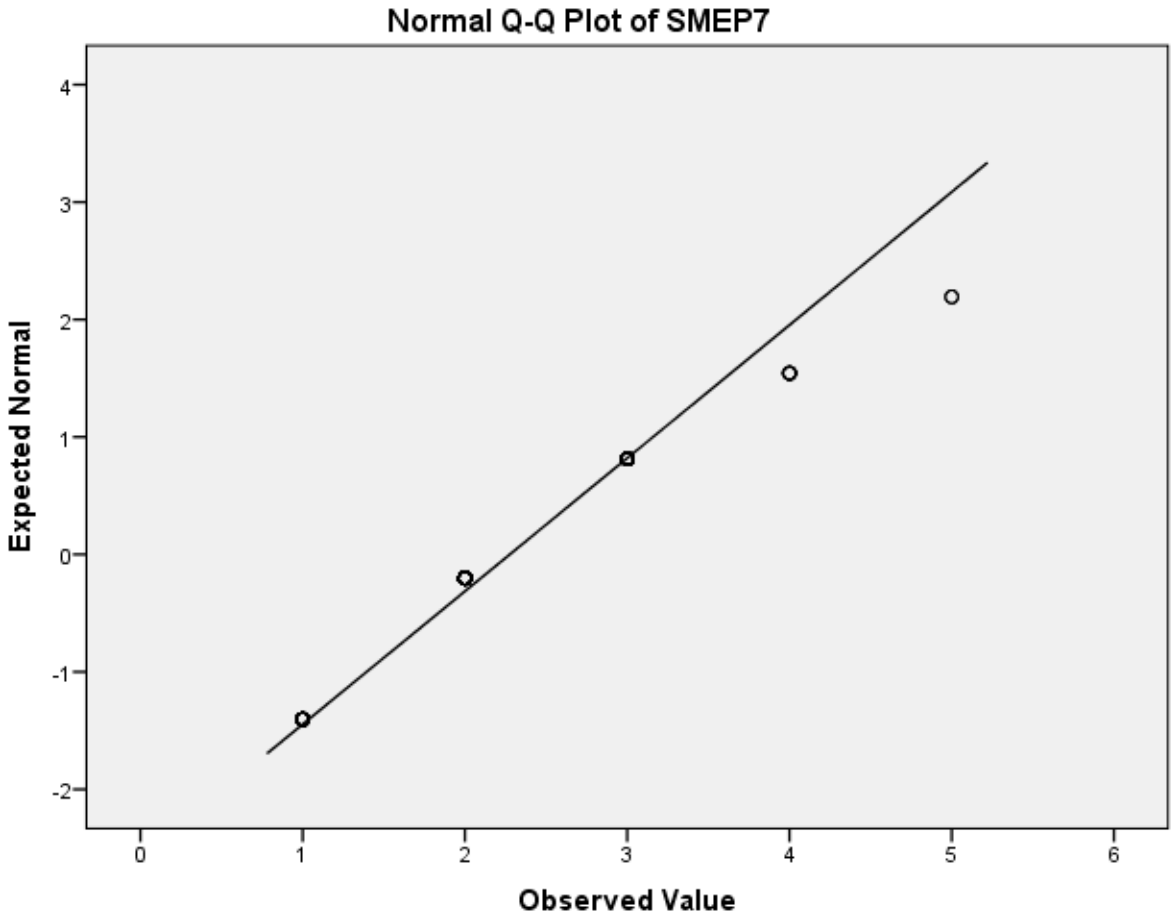


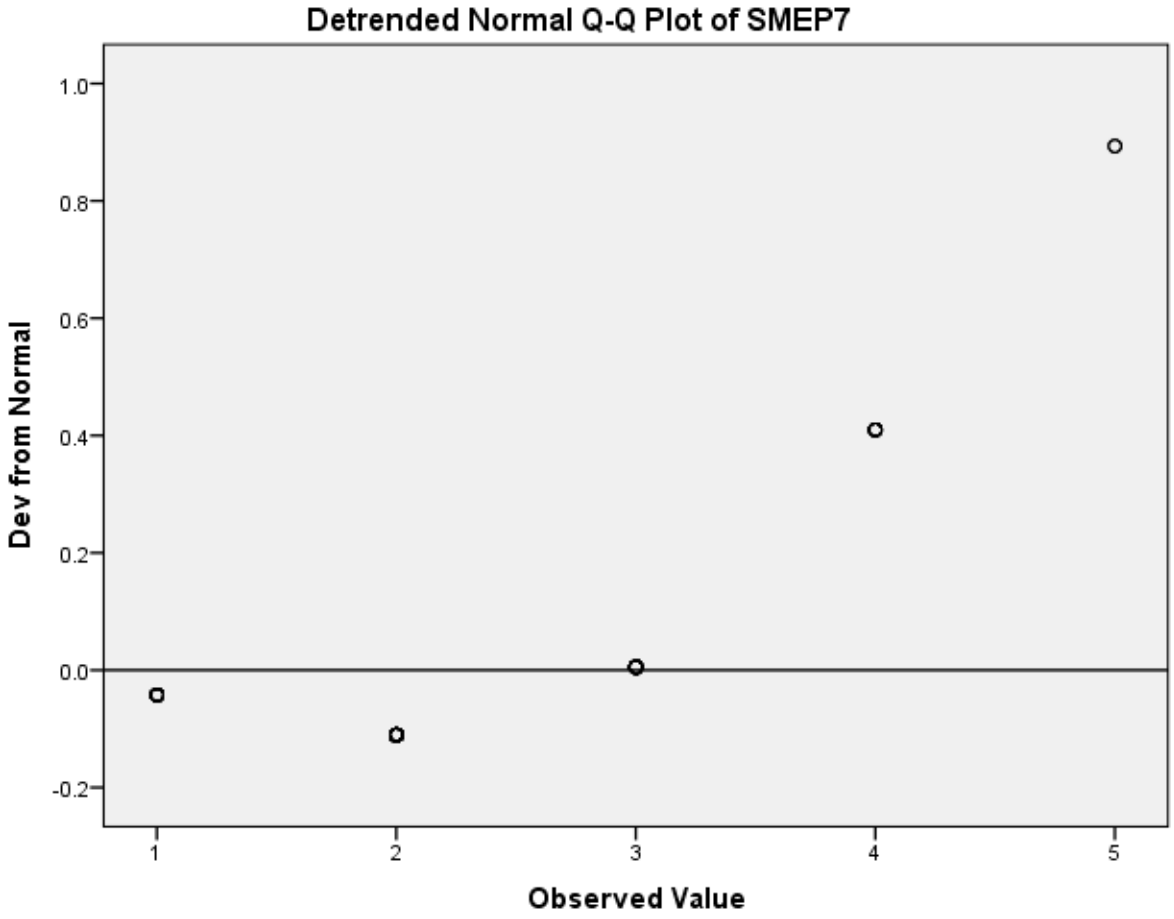
SMEP7 Stem-and-Leaf Plot

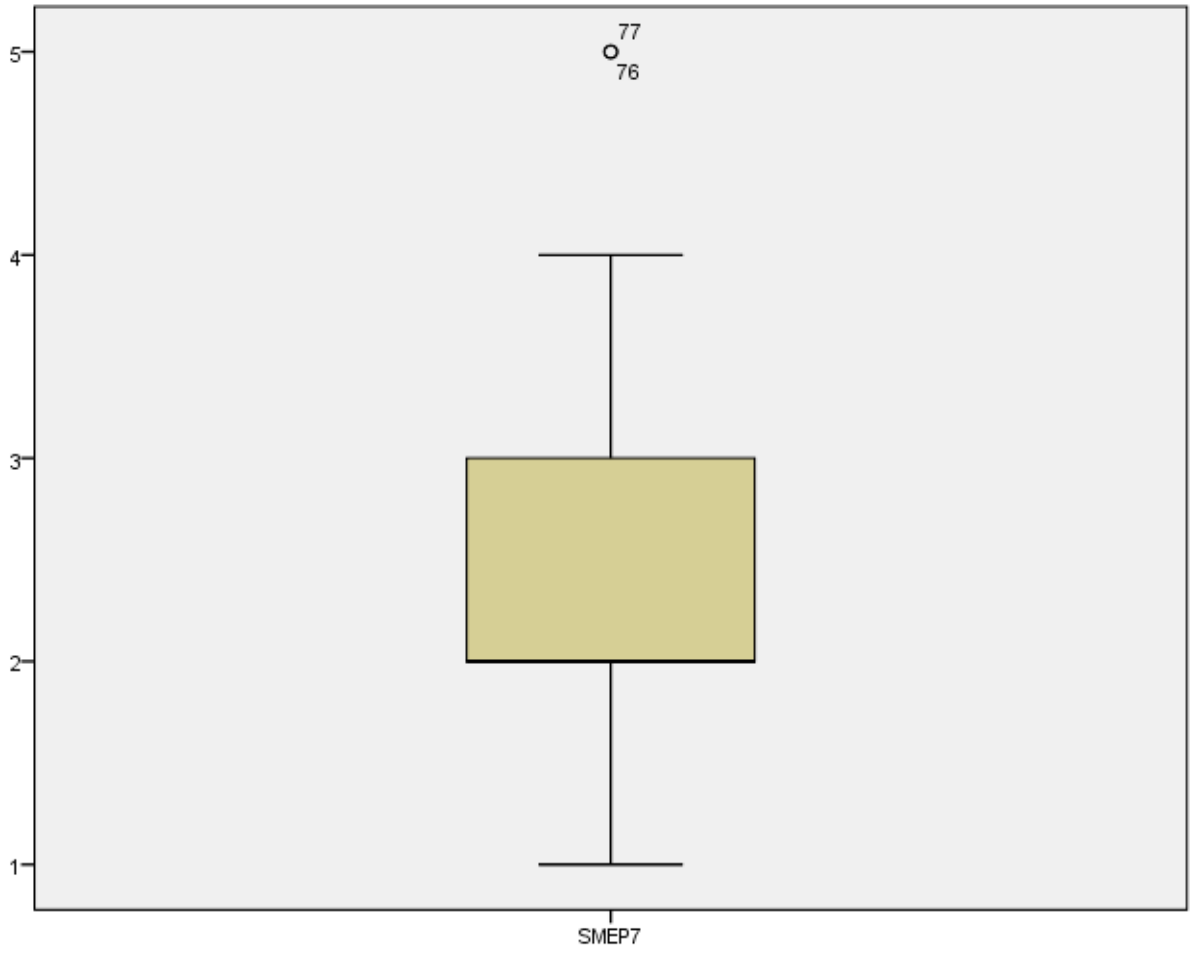
```
 Frequency    Stem &  Leaf

    16.00         1 .  0000000000000000
      .00         1 .
      .00         1 .
      .00         1 .
      .00         1 .
    56.00         2 .
00000000000000000000000000000000000000000000000000000000
      .00         2 .
      .00         2 .
      .00         2 .
      .00         2 .
    23.00         3 .  00000000000000000000000
      .00         3 .
      .00         3 .
      .00         3 .
      .00         3 .
     8.00         4 .  00000000
     2.00 Extremes    (>=5.0)

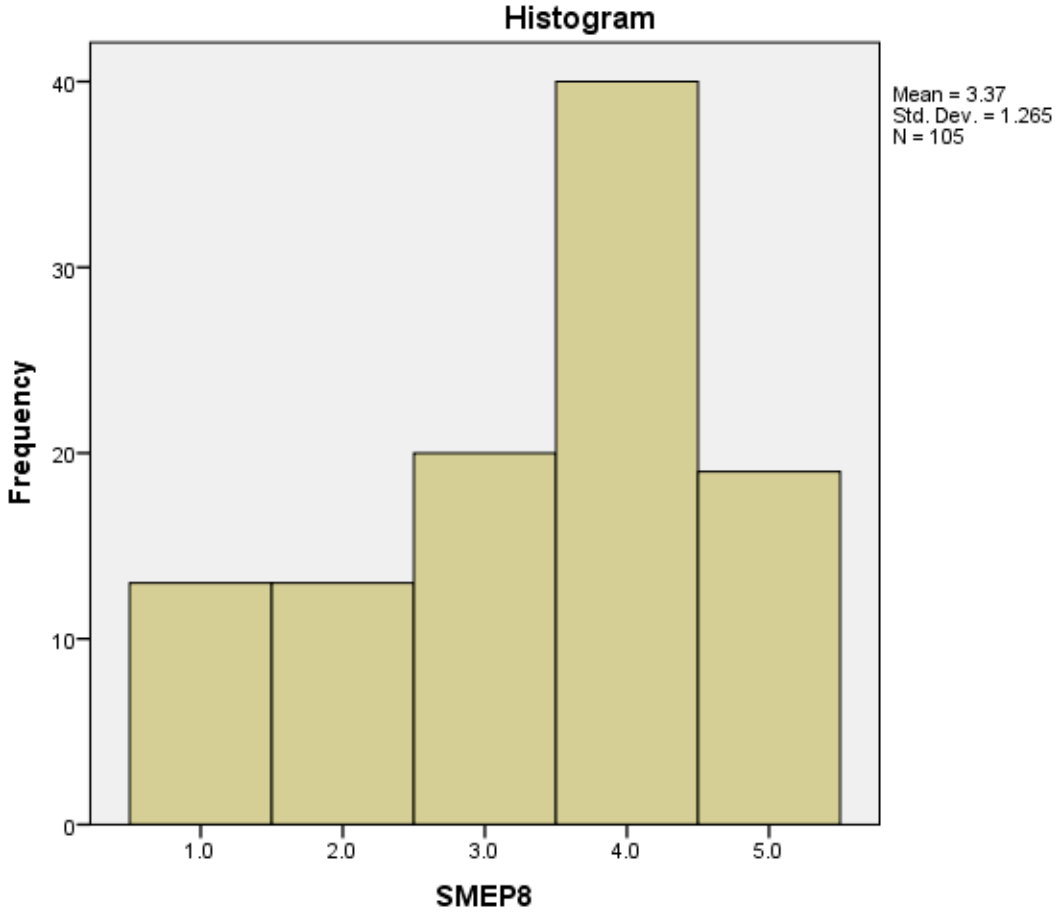
 Stem width:       1.0
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of SMEP7
Expected Normal
Observed Value
4
3
2
1
0
-1
-2
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEP7
Dev from Normal
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
1
2
3
4
5
Observed Value



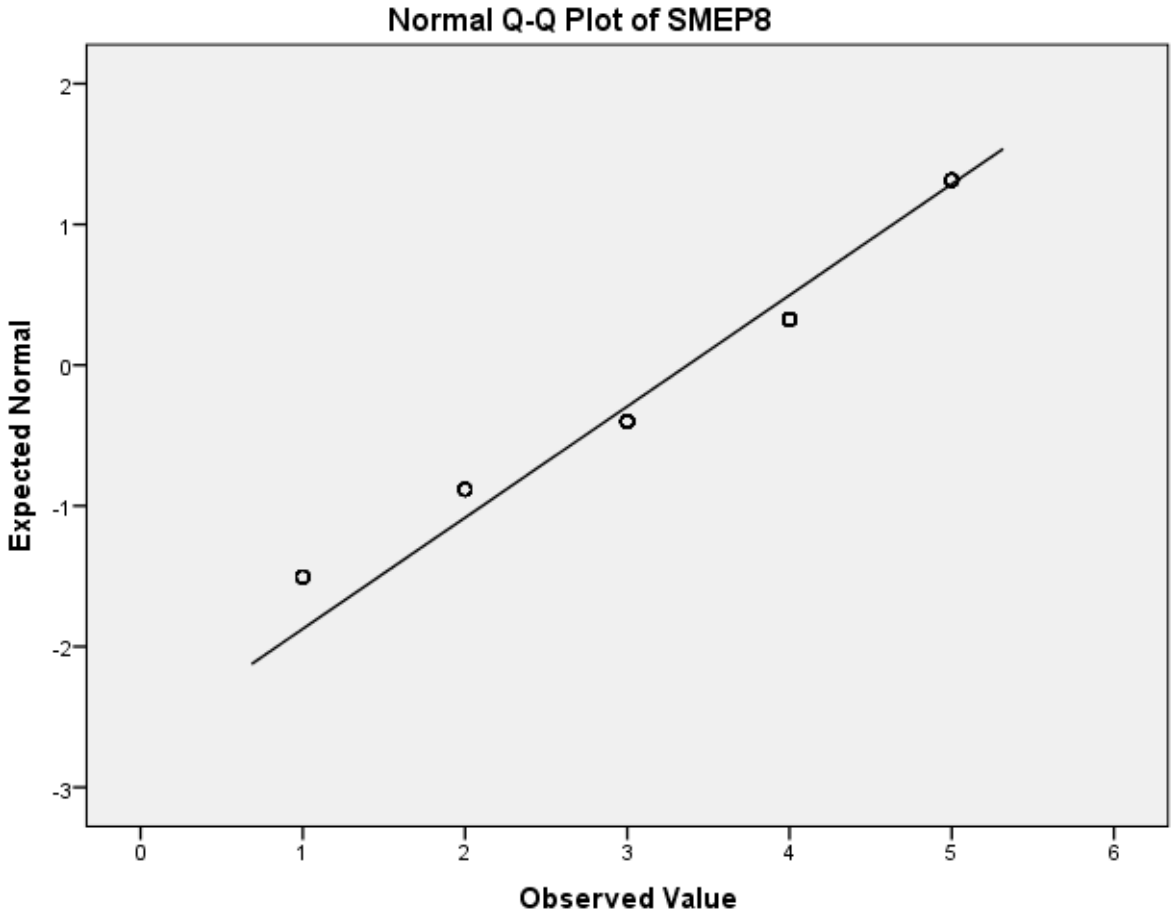
SMEP8

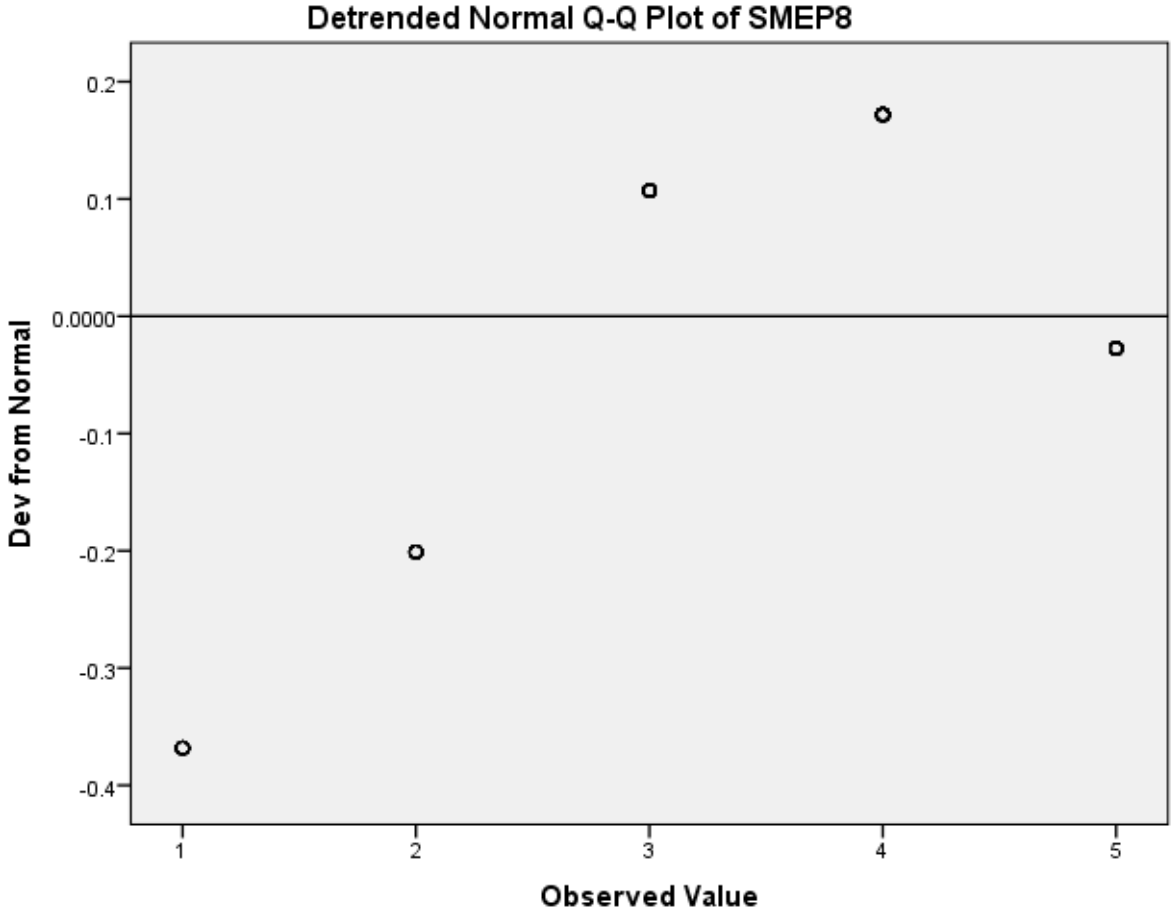


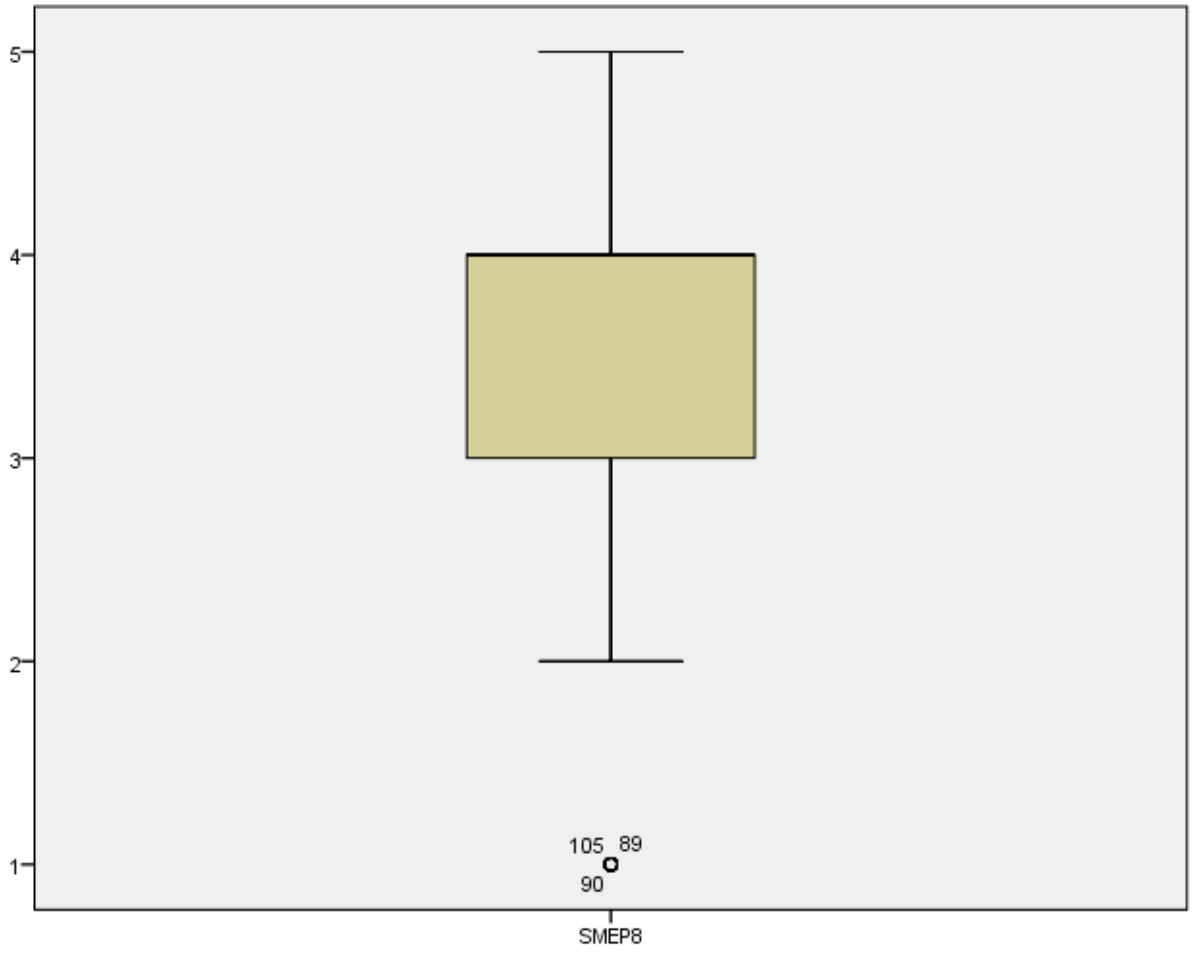
SMEP8 Stem-and-Leaf Plot

Frequency	Stem &	Leaf
13.00	Extremes	(=<1.0)
13.00	2 .	0000000000000
.00	2 .	
.00	2 .	
.00	2 .	
.00	2 .	
20.00	3 .	00000000000000000000
.00	3 .	
.00	3 .	
.00	3 .	
.00	3 .	
40.00	4 .	0000000000000000000000000000000000000000
.00	4 .	
.00	4 .	
.00	4 .	
.00	4 .	
19.00	5 .	0000000000000000000

Stem width: 1.0
Each leaf: 1 case(s)


Normal Q-Q Plot of SMEP8
Expected Normal
Observed Value
2
1
0
-1
-2
-3
0
1
2
3
4
5
6


Detrended Normal Q-Q Plot of SMEP8
Dev from Normal
0.2
0.1
0.0000
-0.1
-0.2
-0.3
-0.4
1
2
3
4
5
Observed Value




```
EXAMINE VARIABLES=MDRM SMPM SMFM
  /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT
  /COMPARE GROUPS
  /STATISTICS EXTREME
  /MISSING REPORT
  /NOTOTAL.
```

Explore

Notes

Output Created		15-SEP-2022 14:35:39
Comments		
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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing. User-defined and system missing values for factors are treated as valid data.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=MDRM SMPM SMFM /PLOT BOXPLOT STEMLEAF HISTOGRAM NPPLOT /COMPARE GROUPS /STATISTICS EXTREME /MISSING REPORT /NOTOTAL.
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	Elapsed Time	00:00:01.08

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data.sav
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Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
MDRM	110	100.0%	0	0.0%	110	100.0%
SMPM	110	100.0%	0	0.0%	110	100.0%
SMFM	110	100.0%	0	0.0%	110	100.0%

Extreme Values

			Case Number	Value
MDRM	Highest	1	76	3.41666666666 67664

		2	77	3.2500000000001000
		3	90	3.2500000000001000
		4	85	3.1666666666667664
		5	21	3.0833333333334334[a]
		1	9	1.2500000000001000
		2	2	1.5833333333334332
	Lowest	3	110	1.7500000000001000
		4	14	1.7500000000001000
		5	8	1.7500000000001000[b]
		1	76	3.4270833333334334
		2	21	3.2604166666667664
	Highest	3	57	3.2604166666667664
		4	99	3.2604166666667664
		5	56	3.2500000000001000
SMPM		1	9	1.0312500000001000
		2	2	1.1979166666667667
	Lowest	3	8	1.7187500000001000
		4	6	1.7187500000001000
		5	32	1.7395833333334332
		1	56	3.7083333333334334
SMFM	Highest	2	55	3.3177083333334334

	3	74	3.3020833333334334
	4	21	3.2239583333334334
	5	99	3.2239583333334334
Lowest	1	9	1.0468750000001000
	2	2	1.1302083333334332
	3	6	1.5781250000001000
	4	12	1.7291666666667667
	5	8	1.7447916666667667

a. Only a partial list of cases with the value 3.0833333333334334 are shown in the table of upper extremes.

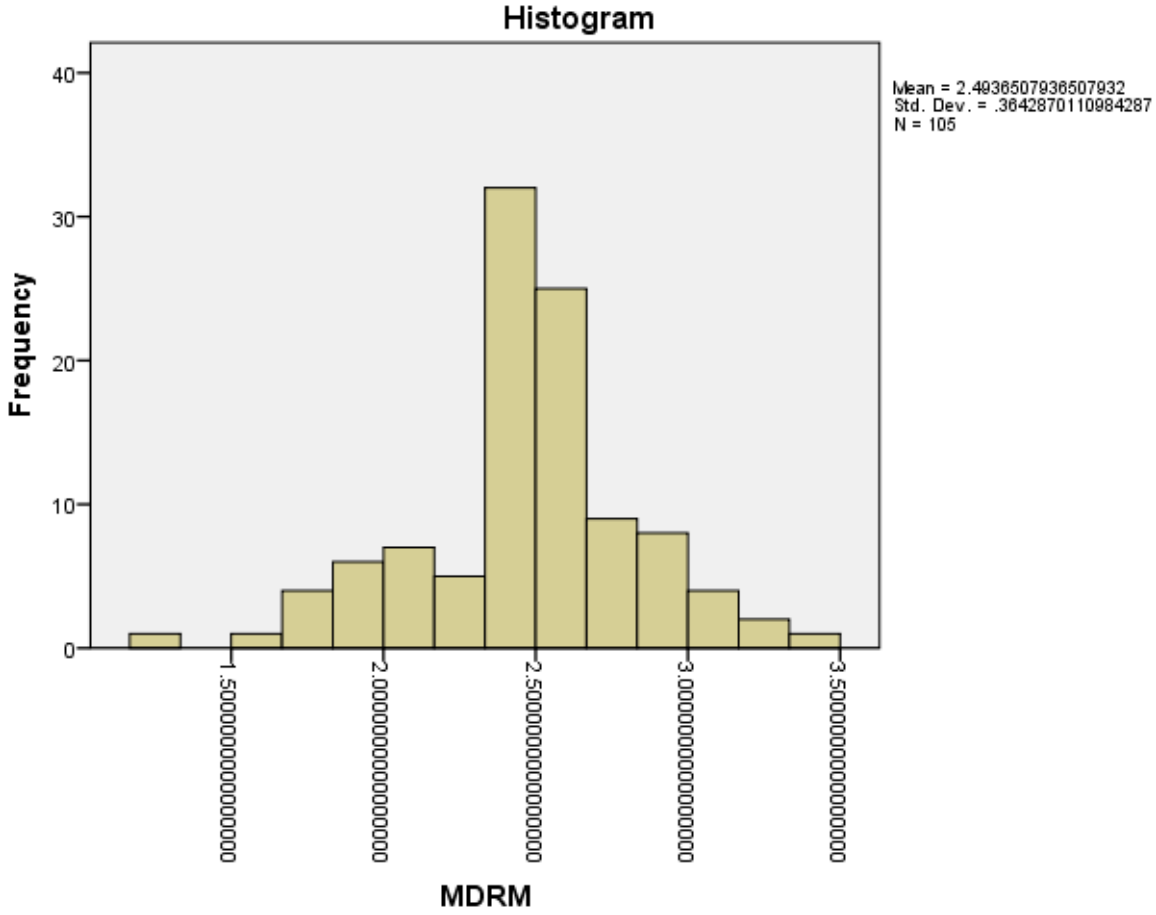
b. Only a partial list of cases with the value 1.7500000000001000 are shown in the table of lower extremes.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
MDRM	.126	110	.000	.969	110	.015
SMPM	.123	110	.000	.945	110	.000
SMFM	.159	110	.000	.927	110	.000

a. Lilliefors Significance Correction

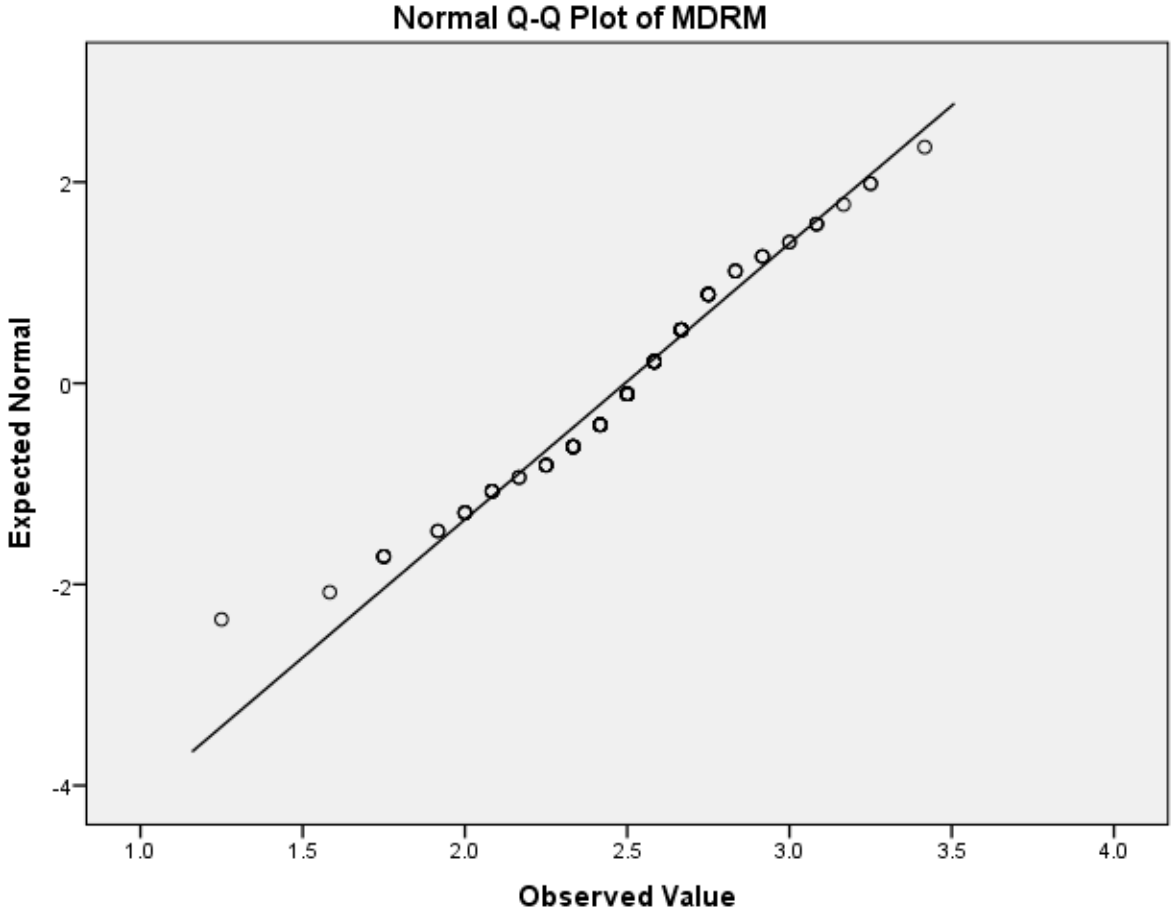
MDRM

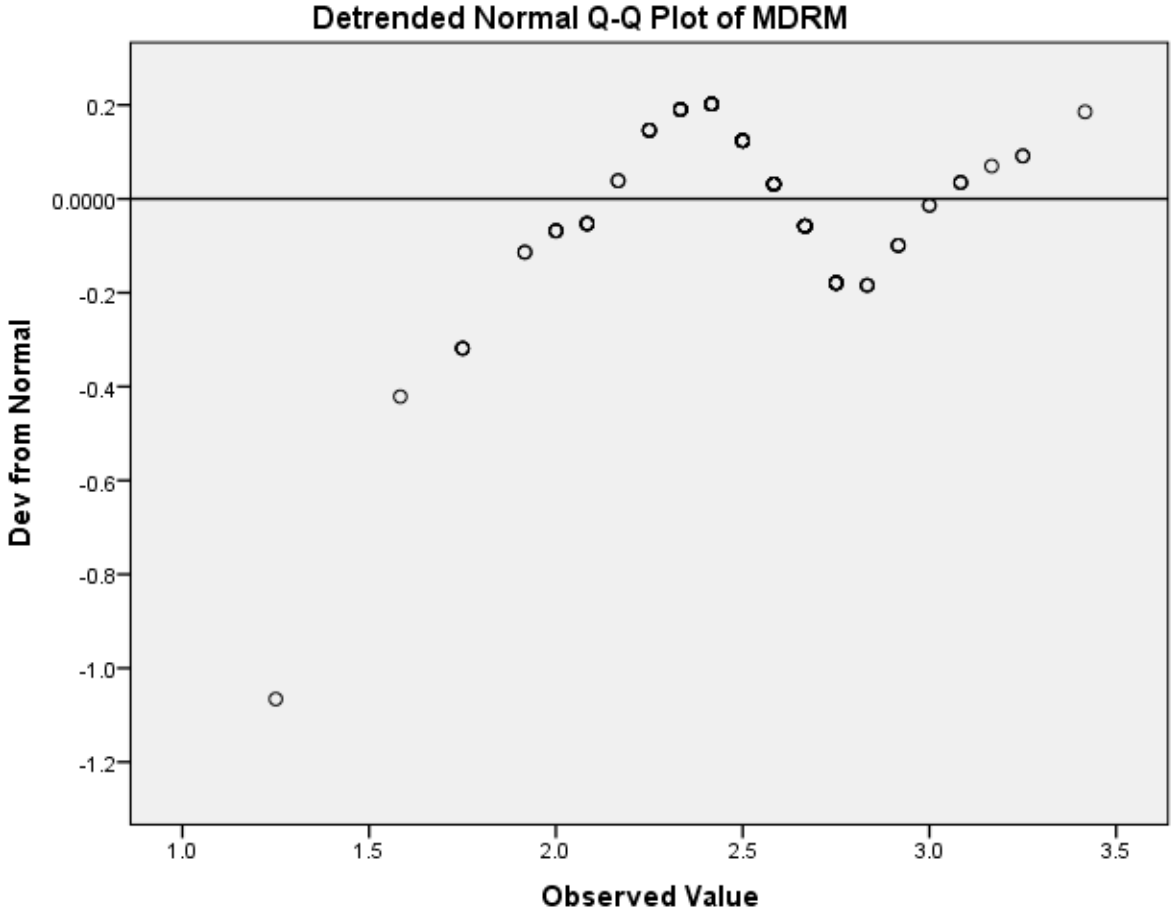


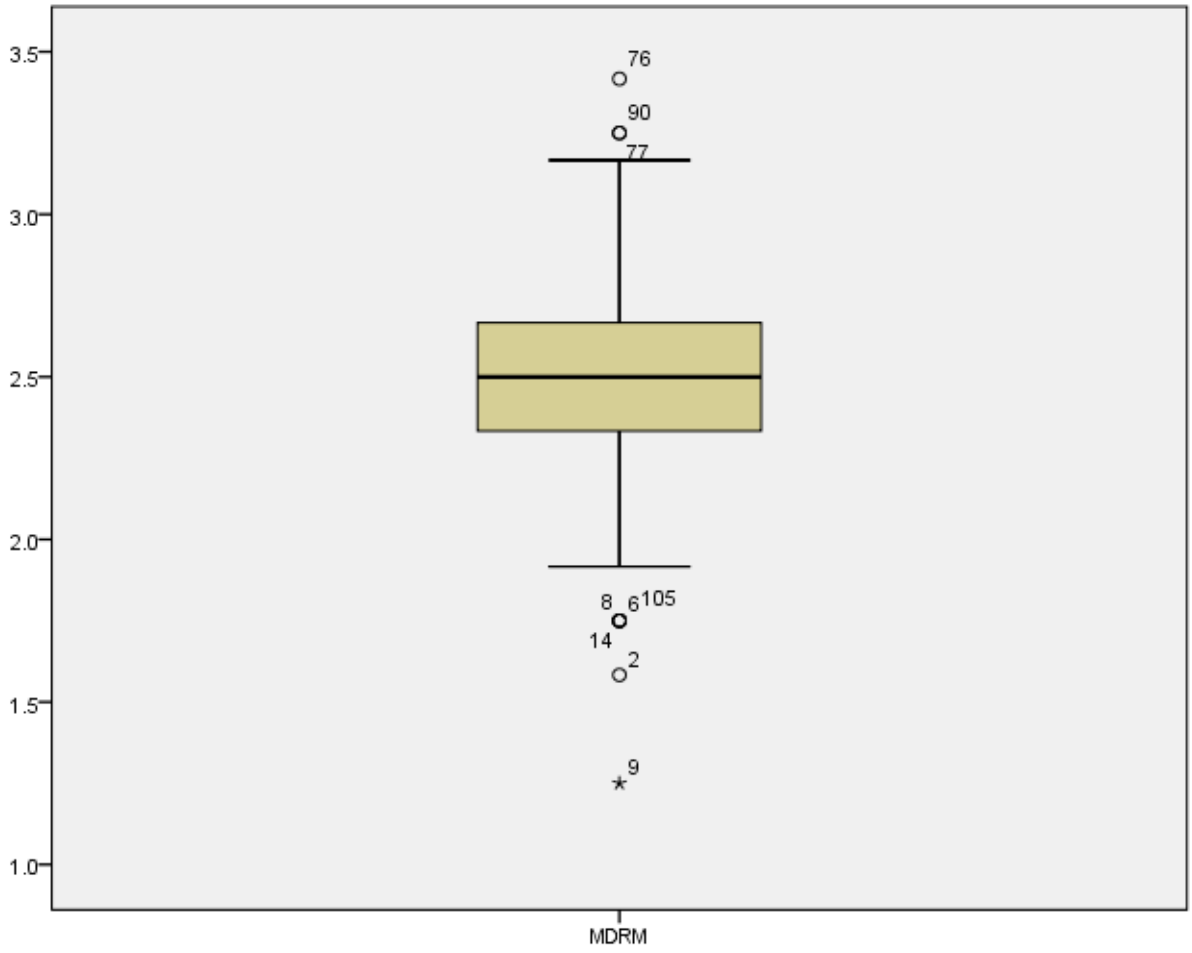
MDRM Stem-and-Leaf Plot

Frequency	Stem &	Leaf
6.00	Extremes	(=<1.75)
2.00	19 .	11
9.00	20 .	000088888
2.00	21 .	66
5.00	22 .	55555
7.00	23 .	3333333
9.00	24 .	111111111
27.00	25 .	000000000000000088888888888
14.00	26 .	66666666666666
9.00	27 .	555555555
3.00	28 .	333
3.00	29 .	111
5.00	30 .	00888
4.00	Extremes	(>=3.17)

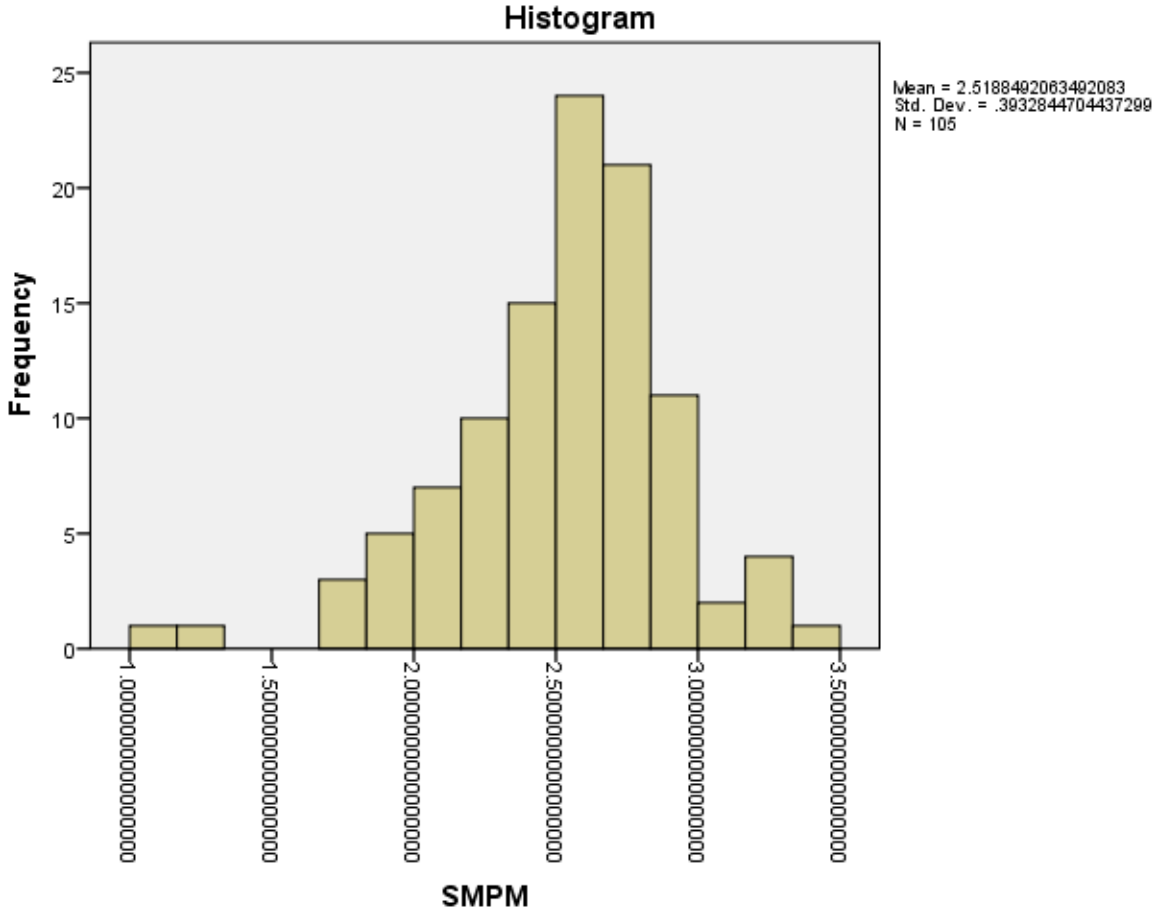
Stem width: .1000000
Each leaf: 1 case(s)


Normal Q-Q Plot of MDRM
Expected Normal
2
0
-2
-4
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Observed Value


Detrended Normal Q-Q Plot of MDRM
Dev from Normal
0.2
0.0000
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
1.0
1.5
2.0
2.5
3.0
3.5
Observed Value



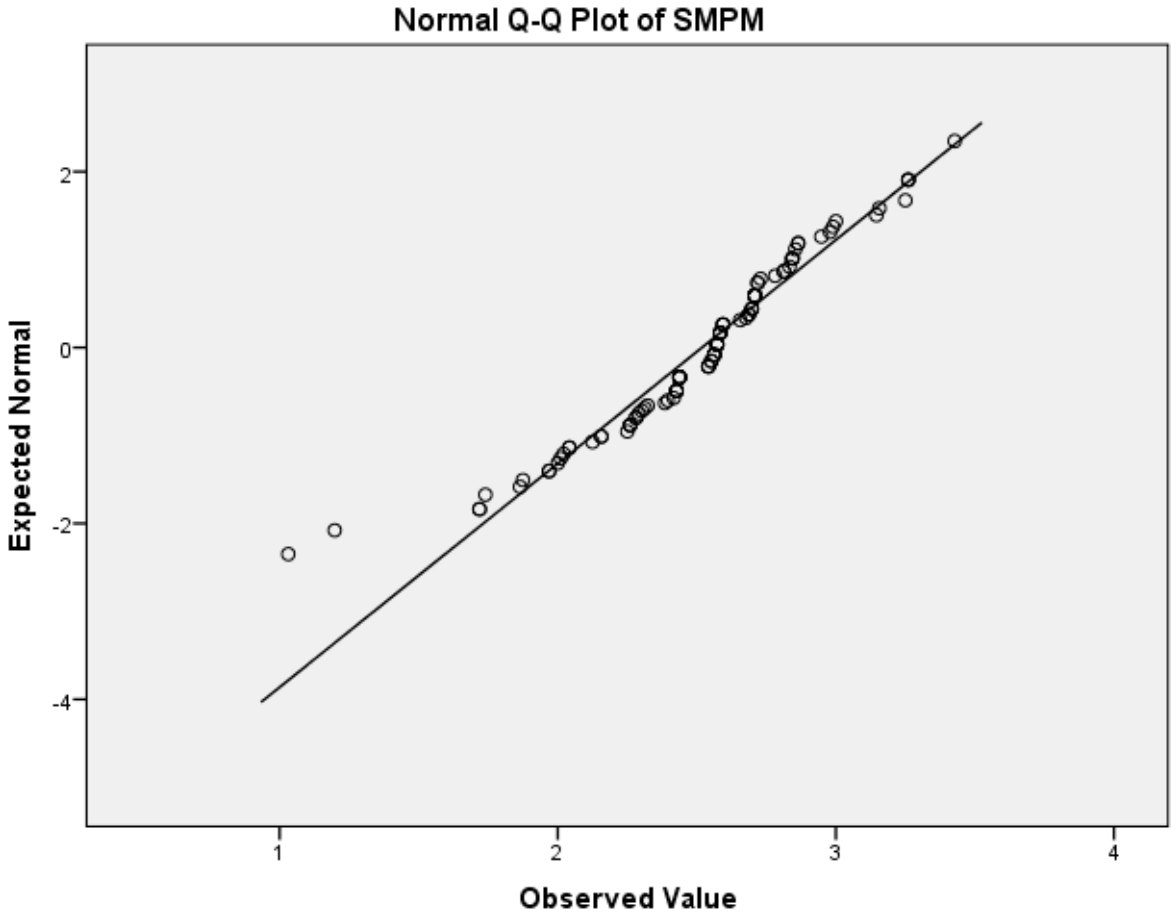
SMPM

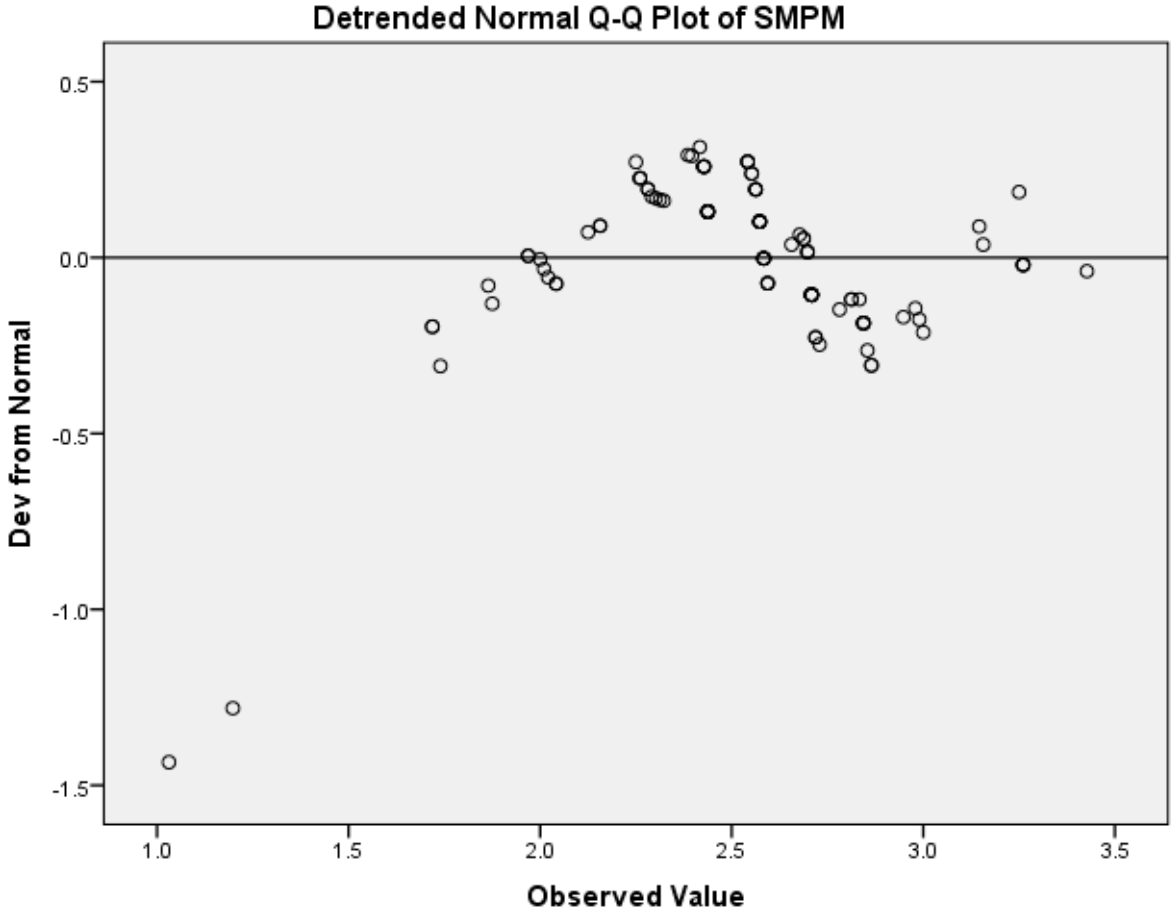


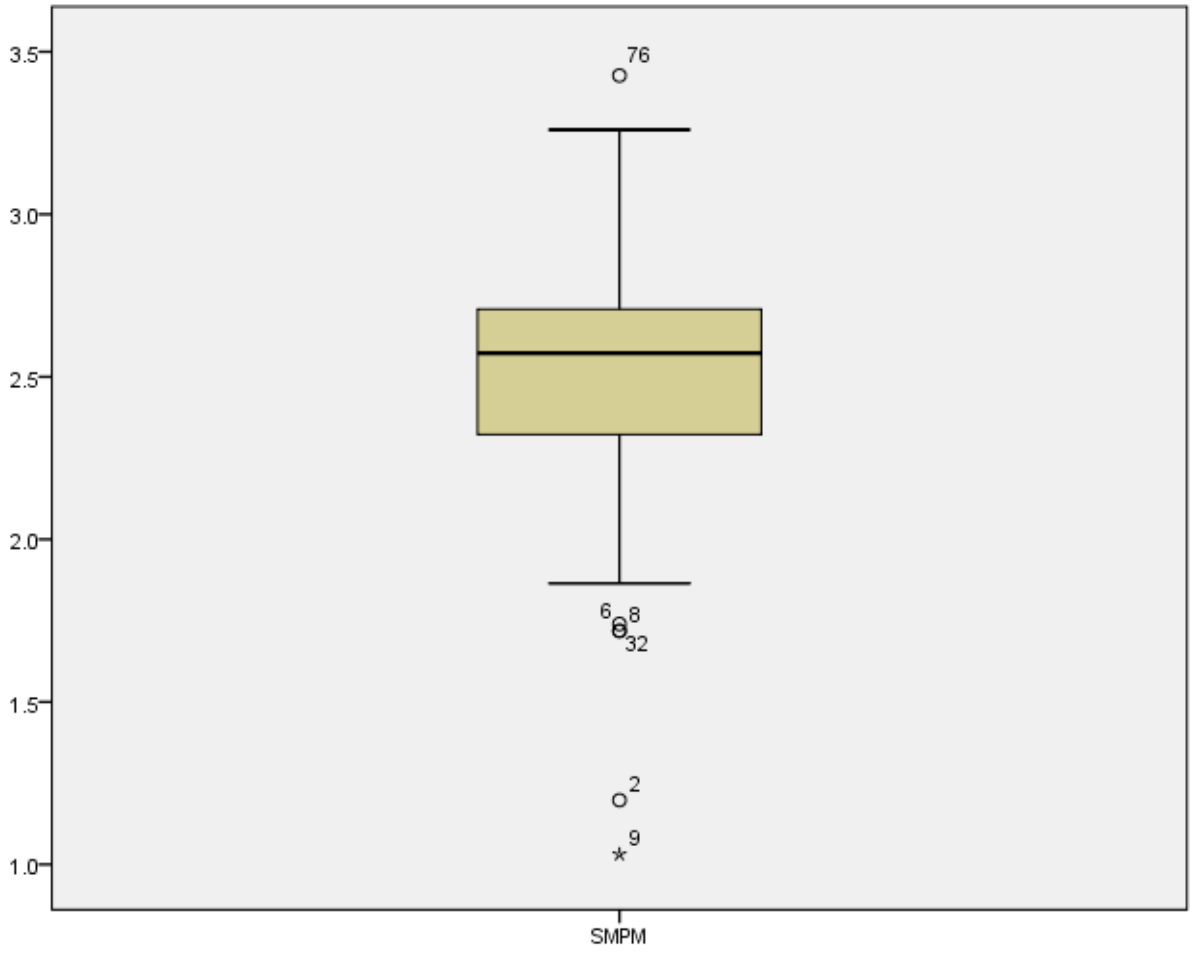
SMPM Stem-and-Leaf Plot

Frequency		Stem &	Leaf
5.00	Extremes		(=<1.74)
2.00		18 .	67
2.00		19 .	66
5.00		20 .	01244
3.00		21 .	255
7.00		22 .	5666889
5.00		23 .	01289
13.00		24 .	1222223333333
23.00		25 .	44455666677777788888999
7.00		26 .	5788999
12.00		27 .	000000001128
10.00		28 .	1134444566
3.00		29 .	478
1.00		30 .	0
2.00		31 .	45
4.00		32 .	5666
1.00	Extremes		(>=3.43)

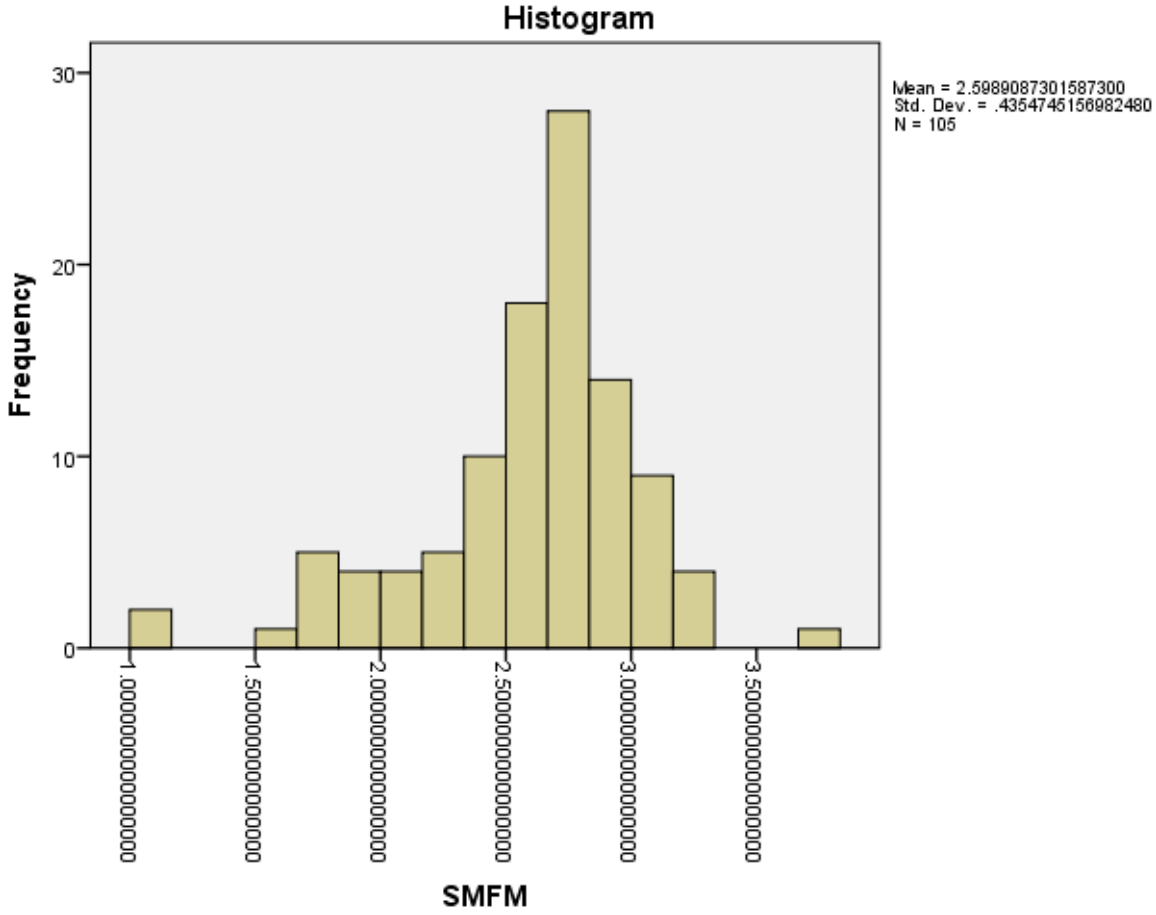
Stem width: .1000000
Each leaf: 1 case(s)


Normal Q-Q Plot of SMPM
Expected Normal
2
0
-2
-4
1
2
3
4
Observed Value


Detrended Normal Q-Q Plot of SMPM
Dev from Normal
0.5
0.0
-0.5
-1.0
-1.5
1.0
1.5
2.0
2.5
3.0
3.5
Observed Value



SMFM

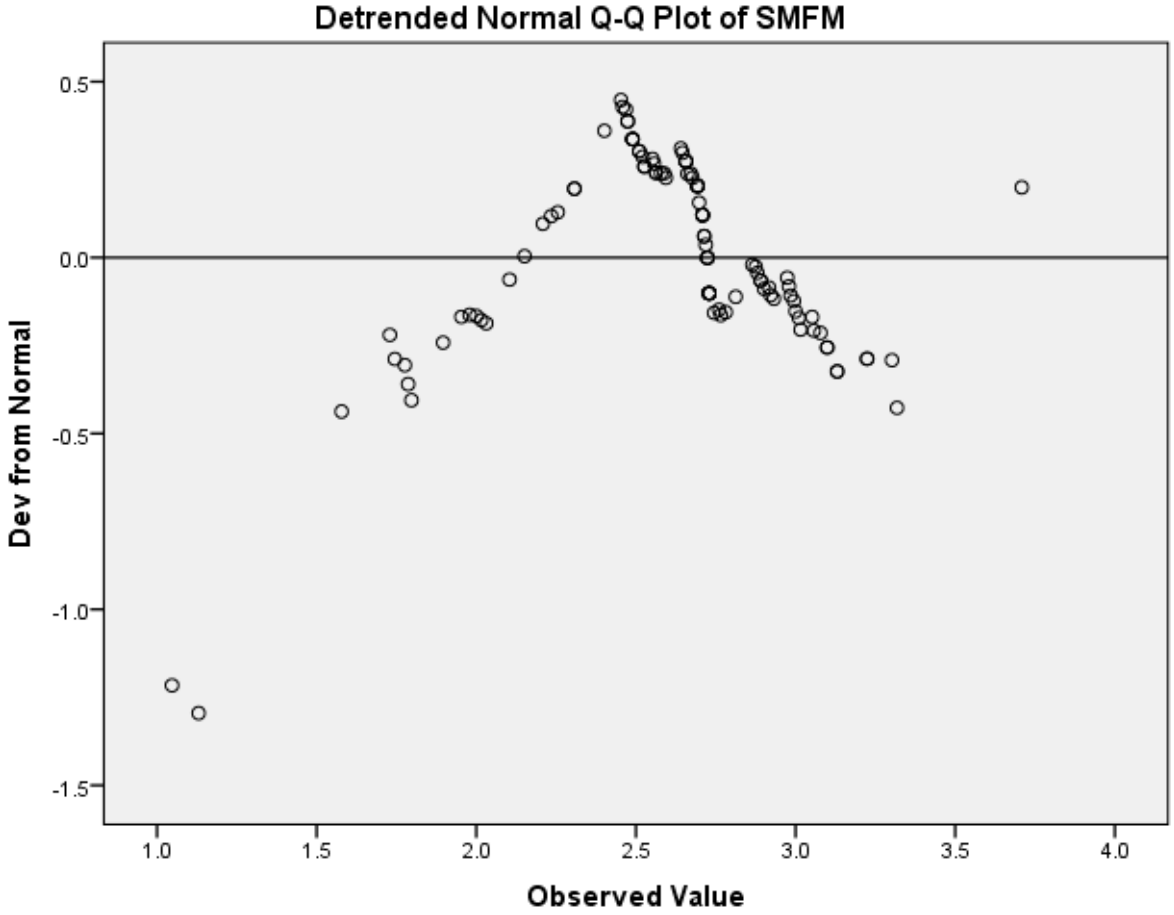


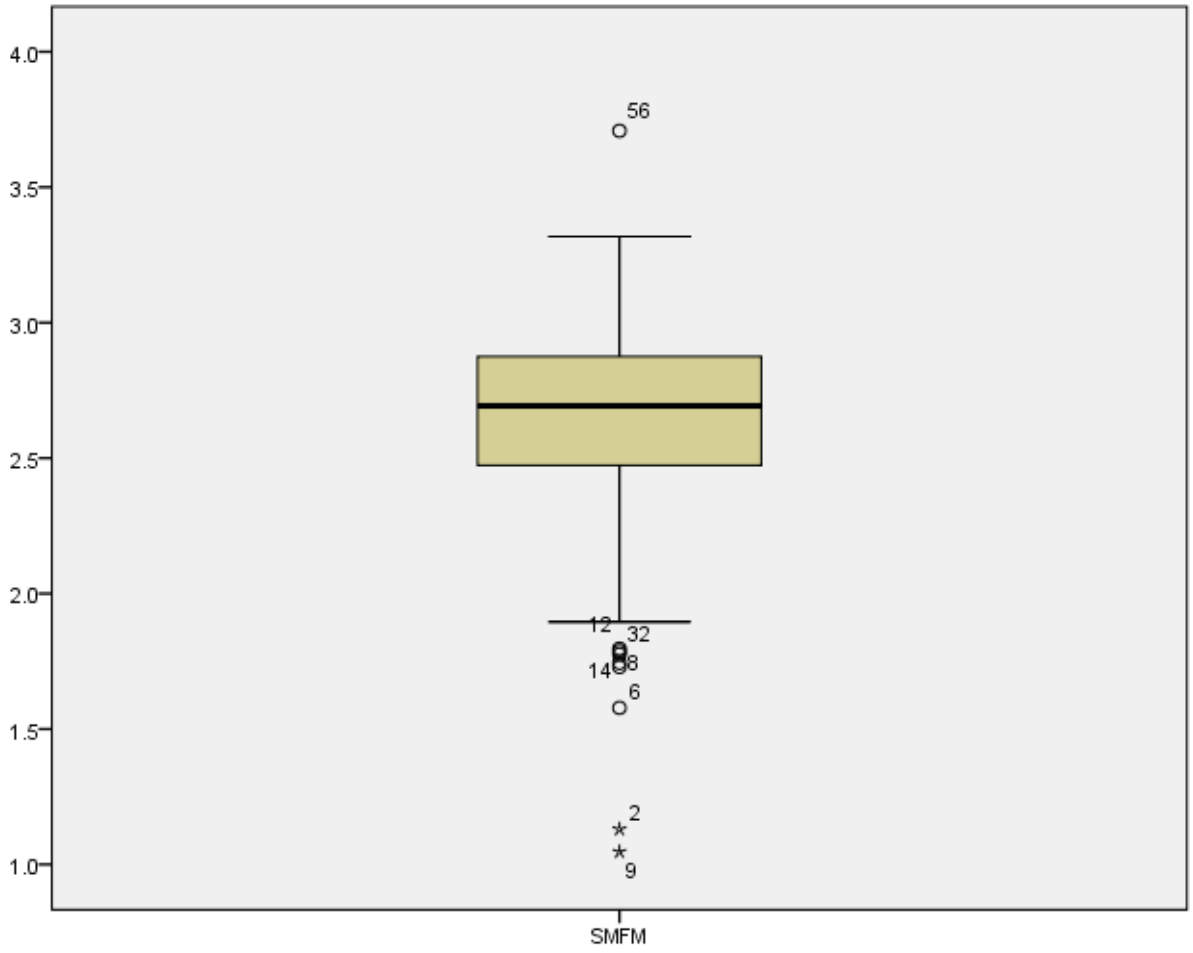
SMFM Stem-and-Leaf Plot

Frequency		Stem &	Leaf
8.00	Extremes		(=<1.80)
1.00		18 .	9
2.00		19 .	57
3.00		20 .	013
2.00		21 .	05
3.00		22 .	035
2.00		23 .	00
10.00		24 .	0556778888
12.00		25 .	112225566789
13.00		26 .	4455567799999
20.00		27 .	00001112222222224668
6.00		28 .	167899
8.00		29 .	01237789
8.00		30 .	01155799
2.00		31 .	33
2.00		32 .	22
2.00		33 .	01
1.00	Extremes		(>=3.71)

Stem width: .1000000
Each leaf: 1 case(s)

Normal Q-Q Plot of SMFM
Expected Normal
2
0
-2
-4
0
1
2
3
4
Observed Value


Detrended Normal Q-Q Plot of SMFM
Dev from Normal
0.5
0.0
-0.5
-1.0
-1.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Observed Value




```
FACTOR
  /VARIABLES MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /MISSING LISTWISE
  /ANALYSIS MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /PRINT INITIAL KMO EXTRACTION ROTATION
  /PLOT EIGEN
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /CRITERIA ITERATE(25)
  /ROTATION VARIMAX
  /METHOD=CORRELATION.
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Factor Analysis

Notes

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Comments	

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	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	110
Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.
Syntax		FACTOR /VARIABLES MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /MISSING LISTWISE /ANALYSIS MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /PRINT INITIAL KMO EXTRACTION ROTATION /PLOT EIGEN /CRITERIA MINEIGEN(1) ITERATE(25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /METHOD=CORRELATION.
Resources	Processor Time	00:00:00.14
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	Maximum Memory Required	13688 (13.367K) bytes

[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss data.sav

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.800
Bartlett's Test of Sphericity	Approx. Chi-Square	314.127

df	45
Sig.	.000

Communalities

	Initial	Extraction
MDR1	1.000	.575
MDR2	1.000	.454
MDR3	1.000	.301
MDR4	1.000	.558
MDR5	1.000	.529
MDR6	1.000	.524
MDR7	1.000	.799
MDR8	1.000	.486
MDR9	1.000	.566
MDR11	1.000	.361

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings	
	Total	% of Variance	Cumulative %	Total	% of Variance
1	3.767	37.665	37.665	3.767	37.665
2	1.386	13.859	51.525	1.386	13.859
3	.994	9.940	61.465		
4	.811	8.110	69.575		
5	.746	7.458	77.033		
6	.629	6.290	83.323		
7	.607	6.072	89.395		
8	.509	5.086	94.481		
9	.351	3.509	97.990		
10	.201	2.010	100.000		

Total Variance Explained

Component	Extraction Sums of Squared Loadings	Rotation Sums of Squared Loadings		
	Cumulative %	Total	% of Variance	Cumulative %
1	37.665	3.250	32.505	32.505

2	51.525	1.902	19.020	51.525
3				
4				
5				
6				
7				
8				
9				
10				

Extraction Method: Principal Component Analysis.

Component Matrix[a]

	Component	
	1	2
MDR1	-.758	-.002
MDR2	.671	-.065

MDR3	-.359	.415
MDR4	.713	.223
MDR5	-.327	.650
MDR6	.719	.087
MDR7	.892	.060
MDR8	.570	.402
MDR9	-.470	.587
MDR11	.375	.469

Extraction Method: Principal Component Analysis.[a]

a. 2 components extracted.

Rotated Component Matrix[a]

	Component	
	1	2
MDR1	-.672	.351
MDR2	.563	-.370
MDR3	-.124	.534
MDR4	.735	-.134
MDR5	.013	.727
MDR6	.677	-.257
MDR7	.817	-.362
MDR8	.691	.090
MDR9	-.143	.739
MDR11	.550	.241

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.[a]

a. Rotation converged in 3 iterations.

Component Transformation Matrix

Component	1	2
1	.885	-.466
2	.466	.885

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

```
FACTOR
  /VARIABLES MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /MISSING LISTWISE
  /ANALYSIS MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11
  /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE
  /FORMAT SORT BLANK(.10)
  /PLOT EIGEN
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /CRITERIA ITERATE(25)
  /ROTATION VARIMAX
  /SAVE REG(ALL)
  /METHOD=COVARIANCE.
```

Factor Analysis

Notes

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Comments		
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Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.

Syntax		FACTOR /VARIABLES MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /MISSING LISTWISE /ANALYSIS MDR1 MDR2 MDR3 MDR4 MDR5 MDR6 MDR7 MDR8 MDR9 MDR11 /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE /FORMAT SORT BLANK(.10) /PLOT EIGEN /CRITERIA MINEIGEN(1) ITERATE(25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /SAVE REG(ALL) /METHOD=COVARIANCE.
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Variables Created	FAC1_1	Component score 1
	FAC2_1	Component score 2

[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss data.sav

Correlation Matrix

		MDR1	MDR2	MDR3	MDR4	MDR5	MDR6
Correlation	MDR1	1.000	-.394	.231	-.392	.223	-.382
	MDR2	-.394	1.000	-.155	.534	-.175	.519
	MDR3	.231	-.155	1.000	-.080	.201	-.211
	MDR4	-.392	.534	-.080	1.000	-.113	.425
	MDR5	.223	-.175	.201	-.113	1.000	-.135
	MDR6	-.382	.519	-.211	.425	-.135	1.000
	MDR7	-.709	.508	-.273	.635	-.232	.554
	MDR8	-.410	.160	-.101	.367	-.006	.395
	MDR9	.327	-.247	.244	-.177	.348	-.260

MDR11	-.278	.080	-.064	.231	.011	.230

Correlation Matrix

		MDR7	MDR8	MDR9	MDR11
Correlation	MDR1	-.709	-.410	.327	-.278
	MDR2	.508	.160	-.247	.080
	MDR3	-.273	-.101	.244	-.064
	MDR4	.635	.367	-.177	.231
	MDR5	-.232	-.006	.348	.011
	MDR6	.554	.395	-.260	.230
	MDR7	1.000	.482	-.363	.315
	MDR8	.482	1.000	-.098	.262
	MDR9	-.363	-.098	1.000	.015
	MDR11	.315	.262	.015	1.000

KMO and Bartlett's Test[a]

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.800
Bartlett's Test of Sphericity	Approx. Chi-Square	314.127
	df	45
	Sig.	.000

a. Based on correlations

Communalities

	Raw		Rescaled	
	Initial	Extraction	Initial	Extraction
MDR1	.755	.449	1.000	.595
MDR2	.507	.188	1.000	.371
MDR3	.762	.145	1.000	.191
MDR4	.472	.215	1.000	.455
MDR5	.771	.250	1.000	.325
MDR6	.751	.384	1.000	.511
MDR7	.719	.563	1.000	.783
MDR8	.430	.153	1.000	.356
MDR9	1.470	1.250	1.000	.850
MDR11	1.000	.523	1.000	.523

Extraction Method: Principal Component Analysis.

Total Variance Explained

	Component	Initial Eigenvalues[a]			Extraction Sums of Squared Loadings	
		Total	% of Variance	Cumulative %	Total	% of Variance
Raw	1	2.763	36.184	36.184	2.763	36.184
	2	1.359	17.791	53.975	1.359	17.791
	3	.761	9.960	63.935		
	4	.682	8.935	72.870		
	5	.599	7.844	80.714		
	6	.488	6.395	87.108		
	7	.362	4.741	91.849		
	8	.300	3.928	95.777		
	9	.190	2.490	98.267		
	10	.132	1.733	100.000		
Rescaled	1	2.763	36.184	36.184	3.579	35.786
	2	1.359	17.791	53.975	1.383	13.834
	3	.761	9.960	63.935		
	4	.682	8.935	72.870		
	5	.599	7.844	80.714		
	6	.488	6.395	87.108		
	7	.362	4.741	91.849		
	8	.300	3.928	95.777		
	9	.190	2.490	98.267		
	10	.132	1.733	100.000		

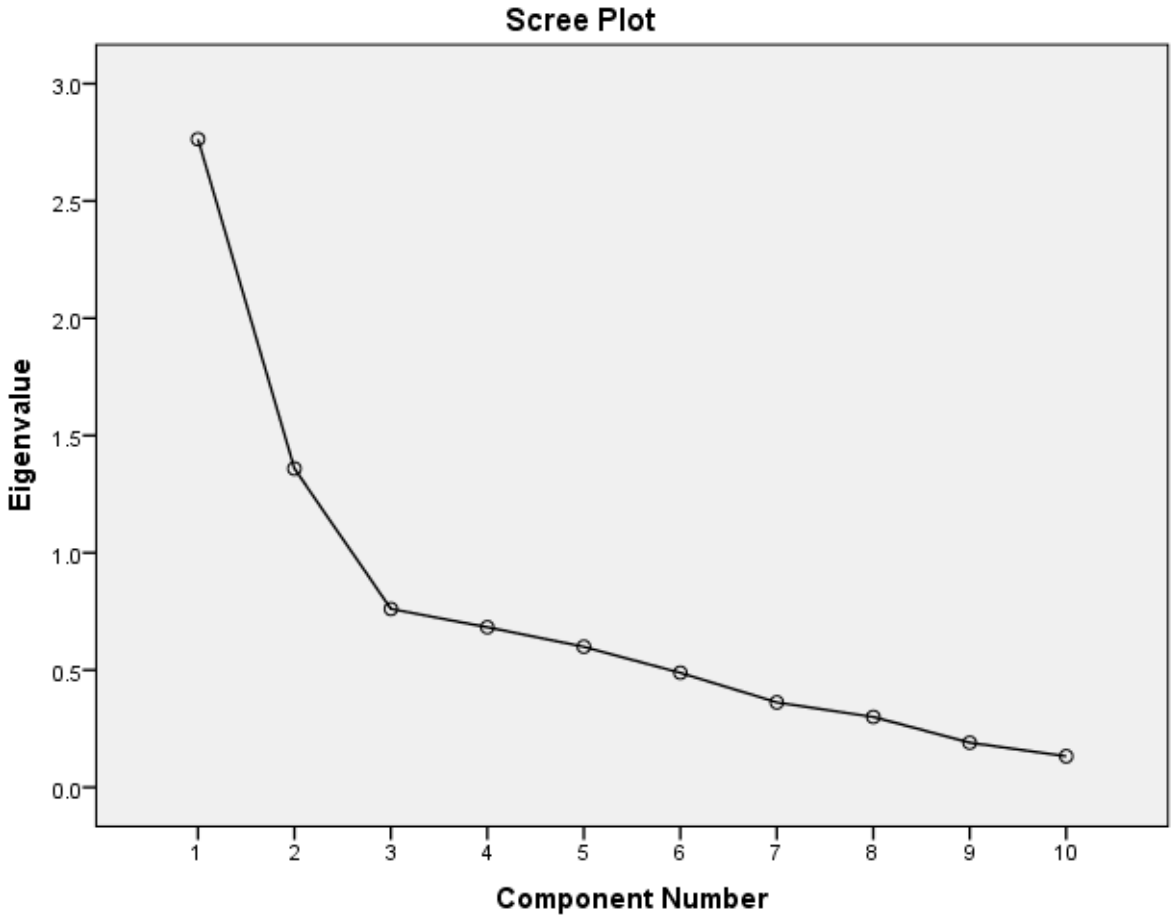
Total Variance Explained

	Component	Extraction Sums of Squared Loadings[a]	Rotation Sums of Squared Loadings		
		Cumulative %	Total	% of Variance	Cumulative %
Raw	1	36.184	2.157	28.238	28.238
	2	53.975	1.966	25.737	53.975
	3				
	4				
	5				
	6				
	7				

	8				
	9				
	10				
Rescaled	1	35.786	3.137	31.369	31.369
	2	49.619	1.825	18.251	49.619
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.



Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
MDR7	.720	.211	.850	.248
MDR1	-.649	-.168	-.747	-.193
MDR6	.584	.208	.674	.240
MDR9	-.810	.771	-.668	.636
MDR4	.412	.212	.600	.308
MDR2	.427	.079	.599	.110
MDR8	.309	.241	.471	.367
MDR5	-.363	.345	-.413	.393
MDR3	-.357	.133	-.409	.152
MDR11	.346	.635	.346	.635

Extraction Method: Principal Component Analysis.[a]

a. 2 components extracted.

Rotated Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
MDR7	.681	-.315	.804	-.371
MDR1	-.600	.300	-.690	.345
MDR11	.678	.252	.678	.252
MDR6	.577	-.227	.666	-.262
MDR4	.450	-.111	.655	-.162
MDR8	.391		.596	
MDR2	.373	-.221	.524	-.311
MDR9		1.113		.918
MDR5		.498		.567
MDR3	-.182	.335	-.208	.384

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.[a]

a. Rotation converged in 3 iterations.

Component Transformation Matrix

Component	1	2
1	.754	-.657
2	.657	.754

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.

Component Score Coefficient Matrix[a]

	Component	
	1	2
MDR1	-.224	.053
MDR2	.110	-.041
MDR3	-.029	.138
MDR4	.147	.013
MDR5	.060	.244
MDR6	.225	-.020
MDR7	.253	-.046
MDR8	.132	.039
MDR9	.184	.752
MDR11	.401	.270

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.
Component Scores.[a]
a. Coefficients are standardized.

Component Score Covariance Matrix

Component	1	2
1	1.000	.000
2	.000	1.000

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Scores.

```
FACTOR
  /VARIABLES SMEF1 SMEF2 SMEF3 SMEF4 SMEF6 SMEF5
  /MISSING LISTWISE
  /ANALYSIS SMEF1 SMEF2 SMEF3 SMEF4 SMEF6 SMEF5
  /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE
  /FORMAT SORT BLANK(.10)
  /PLOT EIGEN
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /CRITERIA ITERATE(25)
  /ROTATION VARIMAX
  /SAVE REG(ALL)
  /METHOD=COVARIANCE.
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Factor Analysis

Notes

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Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.

Syntax		FACTOR /VARIABLES SMEF1 SMEF2 SMEF3 SMEF4 SMEF6 SMEF5 /MISSING LISTWISE /ANALYSIS SMEF1 SMEF2 SMEF3 SMEF4 SMEF6 SMEF5 /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE /FORMAT SORT BLANK(.10) /PLOT EIGEN /CRITERIA MINEIGEN(1) ITERATE(25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /SAVE REG(ALL) /METHOD=COVARIANCE.
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Variables Created	FAC1_2	Component score 1
	FAC2_2	Component score 2

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[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav
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Correlation Matrix

		SMEF1	SMEF2	SMEF3	SMEF4	SMEF6	SMEF5
Correlation	SMEF1	1.000	.391	.093	.437	-.128	.239
	SMEF2	.391	1.000	.296	.699	-.250	.485
	SMEF3	.093	.296	1.000	.247	-.085	.118
	SMEF4	.437	.699	.247	1.000	-.207	.470
	SMEF6	-.128	-.250	-.085	-.207	1.000	-.139
	SMEF5	.239	.485	.118	.470	-.139	1.000

KMO and Bartlett's Test[a]

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.765

Bartlett's Test of Sphericity	Approx. Chi-Square	139.558
	df	15
	Sig.	.000

a. Based on correlations

Communalities

	Raw		Rescaled	
	Initial	Extraction	Initial	Extraction
SMEF1	.595	.229	1.000	.385
SMEF2	.573	.423	1.000	.739
SMEF3	.616	.108	1.000	.175
SMEF4	.756	.607	1.000	.804
SMEF6	1.066	1.065	1.000	.999
SMEF5	.436	.166	1.000	.380

Extraction Method: Principal Component Analysis.

Total Variance Explained

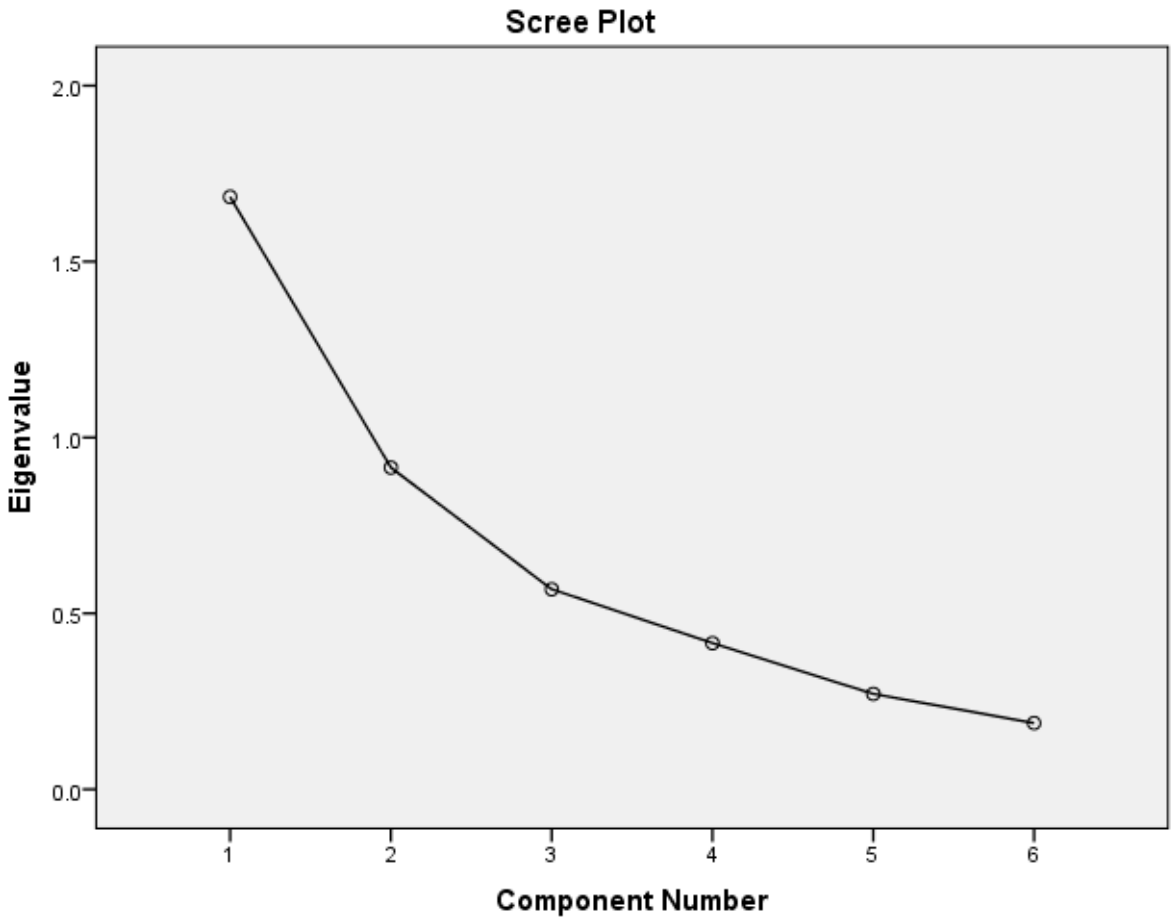
	Component	Initial Eigenvalues[a]			Extraction Sums of Squared Loadings	
		Total	% of Variance	Cumulative %	Total	% of Variance
Raw	1	1.684	41.661	41.661	1.684	41.661
	2	.914	22.625	64.285	.914	22.625
	3	.569	14.068	78.353		
	4	.415	10.277	88.630		
	5	.271	6.711	95.342		
	6	.188	4.658	100.000		
Rescaled	1	1.684	41.661	41.661	2.499	41.654
	2	.914	22.625	64.285	.982	16.372
	3	.569	14.068	78.353		
	4	.415	10.277	88.630		
	5	.271	6.711	95.342		
	6	.188	4.658	100.000		

Total Variance Explained

	Component	Extraction Sums of Squared Loadings[a]	Rotation Sums of Squared Loadings		
		Cumulative %	Total	% of Variance	Cumulative %
Raw	1	41.661	1.517	37.532	37.532
	2	64.285	1.081	26.753	64.285
	3				
	4				
	5				
	6				
Rescaled	1	41.654	2.446	40.766	40.766
	2	58.026	1.036	17.260	58.026
	3				
	4				
	5				
	6				

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.



Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
SMEF4	.729	.276	.838	.318
SMEF2	.624	.184	.825	.243
SMEF5	.381	.145	.576	.220
SMEF1	.439	.191	.569	.248
SMEF3	.300	.133	.382	.170
SMEF6	-.580	.854	-.561	.827

Extraction Method: Principal Component Analysis.[a]

a. 2 components extracted.

Rotated Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
SMEF4	.774	-.095	.890	-.109
SMEF2	.638	-.128	.843	-.169
SMEF1	.477		.619	
SMEF5	.404		.612	
SMEF3	.327		.417	
SMEF6	-.115	1.026	-.112	.993

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.[a]
a. Rotation converged in 3 iterations.

Component Transformation Matrix

Component	1	2
1	.885	-.466
2	.466	.885

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.

Component Score Coefficient Matrix[a]

	Component	
	1	2
SMEF1	.253	.049
SMEF2	.319	.004
SMEF3	.177	.036
SMEF4	.455	.057
SMEF6	.134	1.019
SMEF5	.181	.023

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.
Component Scores.[a]

a. Coefficients are standardized.

Component Score Covariance Matrix

Component	1	2
1	1.000	.000
2	.000	1.000

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Scores.

```
FACTOR
  /VARIABLES SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8
  /MISSING LISTWISE
  /ANALYSIS SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8
  /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE
  /FORMAT SORT BLANK(.10)
  /PLOT EIGEN
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /CRITERIA ITERATE(25)
  /ROTATION VARIMAX
  /SAVE REG(ALL)
  /METHOD=COVARIANCE.
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Factor Analysis

Notes

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	Split File	<none>
	N of Rows in Working Data File	110

Missing Value Handling	Definition of Missing	MISSING=EXCLUDE: User-defined missing values are treated as missing.
	Cases Used	LISTWISE: Statistics are based on cases with no missing values for any variable used.
Syntax		FACTOR /VARIABLES SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8 /MISSING LISTWISE /ANALYSIS SMEP1 SMEP2 SMEP3 SMEP5 SMEP6 SMEP7 SMEP8 /PRINT INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE /FORMAT SORT BLANK(.10) /PLOT EIGEN /CRITERIA MINEIGEN(1) ITERATE(25) /EXTRACTION PC /CRITERIA ITERATE(25) /ROTATION VARIMAX /SAVE REG(ALL) /METHOD=COVARIANCE.
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.12
	Maximum Memory Required	7896 (7.711K) bytes
Variables Created	FAC1_3	Component score 1
	FAC2_3	Component score 2

```
[DataSet1] C:\DBA\research paper,\German med paper\statistics\110 spss
data.sav
```

Correlation Matrix

		SMEP1	SMEP2	SMEP3	SMEP5	SMEP6	SMEP7
Correlation	SMEP1	1.000	.528	.240	.469	.328	.410
	SMEP2	.528	1.000	.346	.479	.353	.464
	SMEP3	.240	.346	1.000	.256	.091	.282
	SMEP5	.469	.479	.256	1.000	.263	.379
	SMEP6	.328	.353	.091	.263	1.000	.158

	SMEP7	.410	.464	.282	.379	.158	1.000
	SMEP8	-.236	-.138	-.025	-.036	.080	-.196

Correlation Matrix

		SMEP8
Correlation	SMEP1	-.236
	SMEP2	-.138
	SMEP3	-.025
	SMEP5	-.036
	SMEP6	.080
	SMEP7	-.196
	SMEP8	1.000

KMO and Bartlett's Test[a]

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.792
Bartlett's Test of Sphericity	Approx. Chi-Square	144.905
	df	21
	Sig.	.000

a. Based on correlations

Communalities

	Raw		Rescaled	
	Initial	Extraction	Initial	Extraction
SMEP1	.845	.493	1.000	.583
SMEP2	.633	.379	1.000	.598
SMEP3	1.141	.497	1.000	.436
SMEP5	.706	.344	1.000	.487
SMEP6	.618	.143	1.000	.231
SMEP7	.779	.368	1.000	.472
SMEP8	1.601	1.571	1.000	.981

Extraction Method: Principal Component Analysis.

Total Variance Explained

	Component	Initial Eigenvalues[a]			Extraction Sums of Squared Loadings	
		Total	% of Variance	Cumulative %	Total	% of Variance
Raw	1	2.265	35.826	35.826	2.265	35.826
	2	1.529	24.183	60.009	1.529	24.183
	3	.891	14.100	74.108		
	4	.532	8.415	82.523		
	5	.437	6.908	89.432		
	6	.375	5.936	95.368		
	7	.293	4.632	100.000		
Rescaled	1	2.265	35.826	35.826	2.617	37.381
	2	1.529	24.183	60.009	1.172	16.742
	3	.891	14.100	74.108		
	4	.532	8.415	82.523		
	5	.437	6.908	89.432		
	6	.375	5.936	95.368		
	7	.293	4.632	100.000		

Total Variance Explained

	Component	Extraction Sums of Squared Loadings[a]	Rotation Sums of Squared Loadings		
		Cumulative %	Total	% of Variance	Cumulative %
Raw	1	35.826	2.100	33.214	33.214
	2	60.009	1.694	26.795	60.009
	3				
	4				
	5				
	6				
	7				
Rescaled	1	37.381	2.650	37.851	37.851
	2	54.123	1.139	16.273	54.123
	3				
	4				
	5				
	6				
	7				

Extraction Method: Principal Component Analysis.

a. When analyzing a covariance matrix, the initial eigenvalues are the same across the raw and rescaled solution.

Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
SMEP1	.695	.098	.756	.107
SMEP2	.582	.201	.731	.252
SMEP7	.599	.095	.679	.108
SMEP5	.520	.270	.619	.321
SMEP3	.583	.397	.546	.371
SMEP6	.269	.265	.342	.337
SMEP8	-.634	1.081	-.501	.855

Extraction Method: Principal Component Analysis.[a]

a. 2 components extracted.

Rotated Component Matrix[a]

	Raw		Rescaled	
	Component		Component	
	1	2	1	2
SMEP2	.608	-.099	.763	-.124
SMEP1	.659	-.243	.717	-.264
SMEP5	.586		.698	
SMEP3	.701		.657	
SMEP7	.573	-.200	.649	-.226
SMEP6	.362	.106	.461	.135
SMEP8		1.252		.990

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.[a]

a. Rotation converged in 3 iterations.

Component Transformation Matrix

Component	1	2
1	.881	-.474
2	.474	.881

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Score Coefficient Matrix[a]

	Component	
	1	2
SMEP1	.276	-.082
SMEP2	.230	-.005
SMEP3	.373	.114
SMEP5	.240	.039
SMEP6	.147	.076

SMEP7	.232	-.062
SMEP8	.112	.956

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Scores.[a]

a. Coefficients are standardized.

Component Score Covariance Matrix

Component	1	2
1	1.000	.000
2	.000	1.000

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Scores.