

The CONTENTS Procedure

Data Set Name	WORK.DATA	Observations	10
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	10/06/2025 14:35:52	Observation Length	40
Last Modified	10/06/2025 14:35:52	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	3265
Obs in First Data Page	10
Number of Data Set Repairs	0
Filename	/saswork/SAS_workB0460000EF6F_odaws02-apse1.oda.sas.com/SAS_work09B90000EF6F_odaws02-apse1.oda.sas.com/data.sas7bdat
Release Created	9.0401M8
Host Created	Linux
Inode Number	536873510
Access Permission	rw-r--r--
Owner Name	u64294500
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes			
#	Variable	Type	Len
2	DOSE	Num	8
4	LIVER_WT	Num	8
3	REACT	Num	8
5	SPLEEN	Num	8
1	SUBJECT	Num	8

The UNIVARIATE Procedure
Variable: REACT

Moments			
N	10	Sum Weights	10
Mean	7.91	Sum Observations	79.1
Std Deviation	4.87589308	Variance	23.7743333
Skewness	1.74686564	Kurtosis	1.6177214
Uncorrected SS	839.65	Corrected SS	213.969
Coeff Variation	61.6421376	Std Error Mean	1.54189278

Basic Statistical Measures			
Location		Variability	
Mean	7.910000	Std Deviation	4.87589

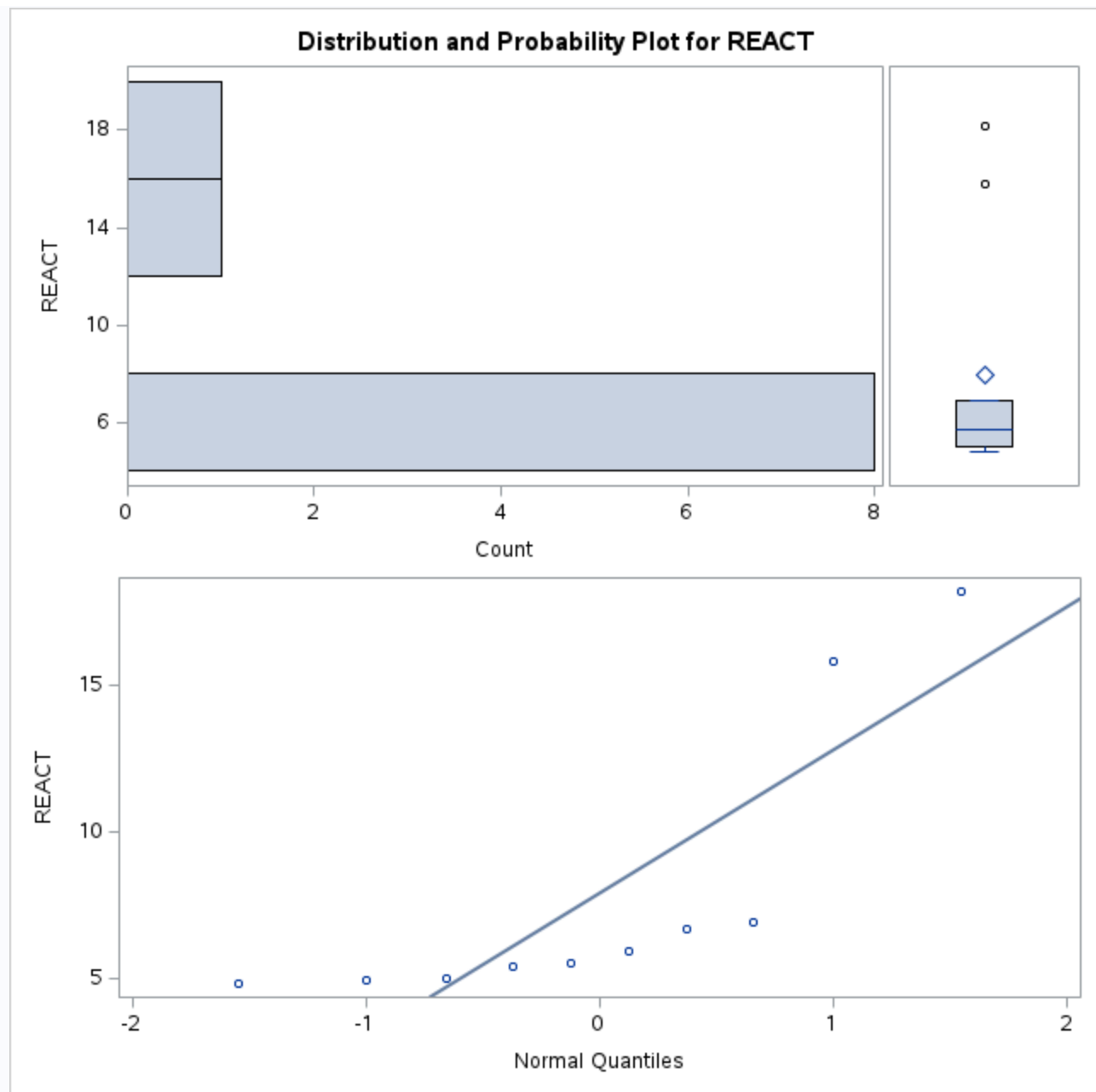
Basic Statistical Measures			
Location		Variability	
Median	5.700000	Variance	23.77433
Mode	.	Range	13.40000
		Interquartile Range	1.90000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	5.130058	Pr > t	0.0006
Sign	M	5	Pr >= M	0.0020
Signed Rank	S	27.5	Pr >= S	0.0020

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.656993	Pr < W	0.0003
Kolmogorov-Smirnov	D	0.38205	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.315825	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	1.628355	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.20
99%	18.20
95%	18.20
90%	17.00
75% Q3	6.90
50% Median	5.70
25% Q1	5.00
10%	4.85
5%	4.80
1%	4.80
0% Min	4.80

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.8	3	5.9	2
4.9	6	6.7	8
5.0	7	6.9	4
5.4	1	15.8	5
5.5	10	18.2	9



The UNIVARIATE Procedure
Variable: LIVER_WT

Moments			
N	10	Sum Weights	10
Mean	11.3	Sum Observations	113
Std Deviation	1.26403235	Variance	1.59777778
Skewness	0.61974656	Kurtosis	0.01693006
Uncorrected SS	1291.28	Corrected SS	14.38
Coeff Variation	11.186127	Std Error Mean	0.39972213

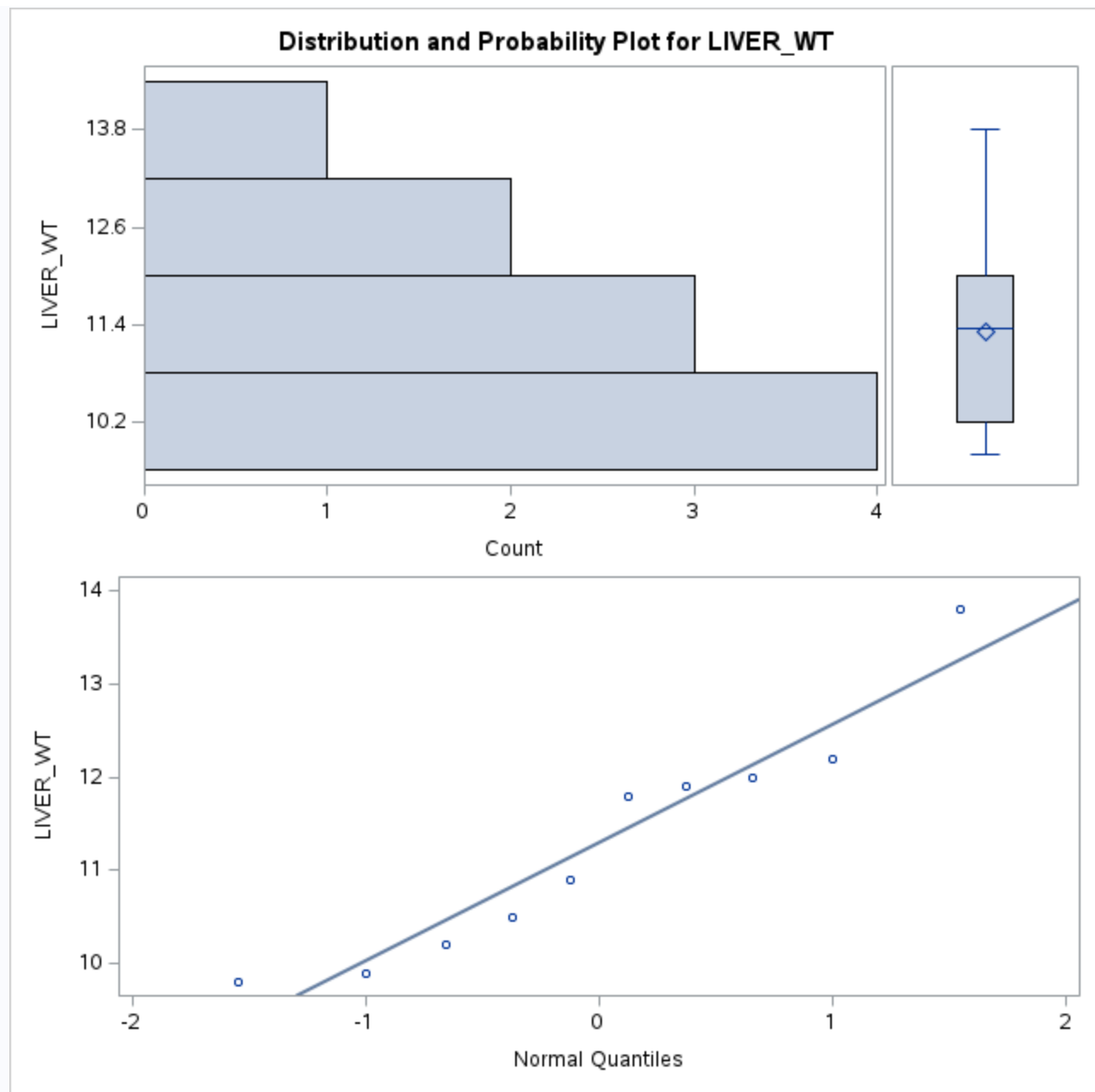
Basic Statistical Measures			
Location		Variability	
Mean	11.30000	Std Deviation	1.26403
Median	11.35000	Variance	1.59778
Mode	.	Range	4.00000
		Interquartile Range	1.80000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.26964	Pr > t	<.0001
Sign	M	5	Pr >= M	0.0020
Signed Rank	S	27.5	Pr >= S	0.0020

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.924078	Pr < W	0.3922
Kolmogorov-Smirnov	D	0.153785	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.051401	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.341284	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.80
99%	13.80
95%	13.80
90%	13.00
75% Q3	12.00
50% Median	11.35
25% Q1	10.20
10%	9.85
5%	9.80
1%	9.80
0% Min	9.80

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.8	2	11.8	4
9.9	10	11.9	9
10.2	1	12.0	7
10.5	8	12.2	3
10.9	5	13.8	6



The UNIVARIATE Procedure
Variable: SPLEEN

Moments			
N	10	Sum Weights	10
Mean	8.16	Sum Observations	81.6
Std Deviation	0.95939796	Variance	0.92044444
Skewness	-0.5557112	Kurtosis	-1.3710424
Uncorrected SS	674.14	Corrected SS	8.284
Coeff Variation	11.7573279	Std Error Mean	0.30338827

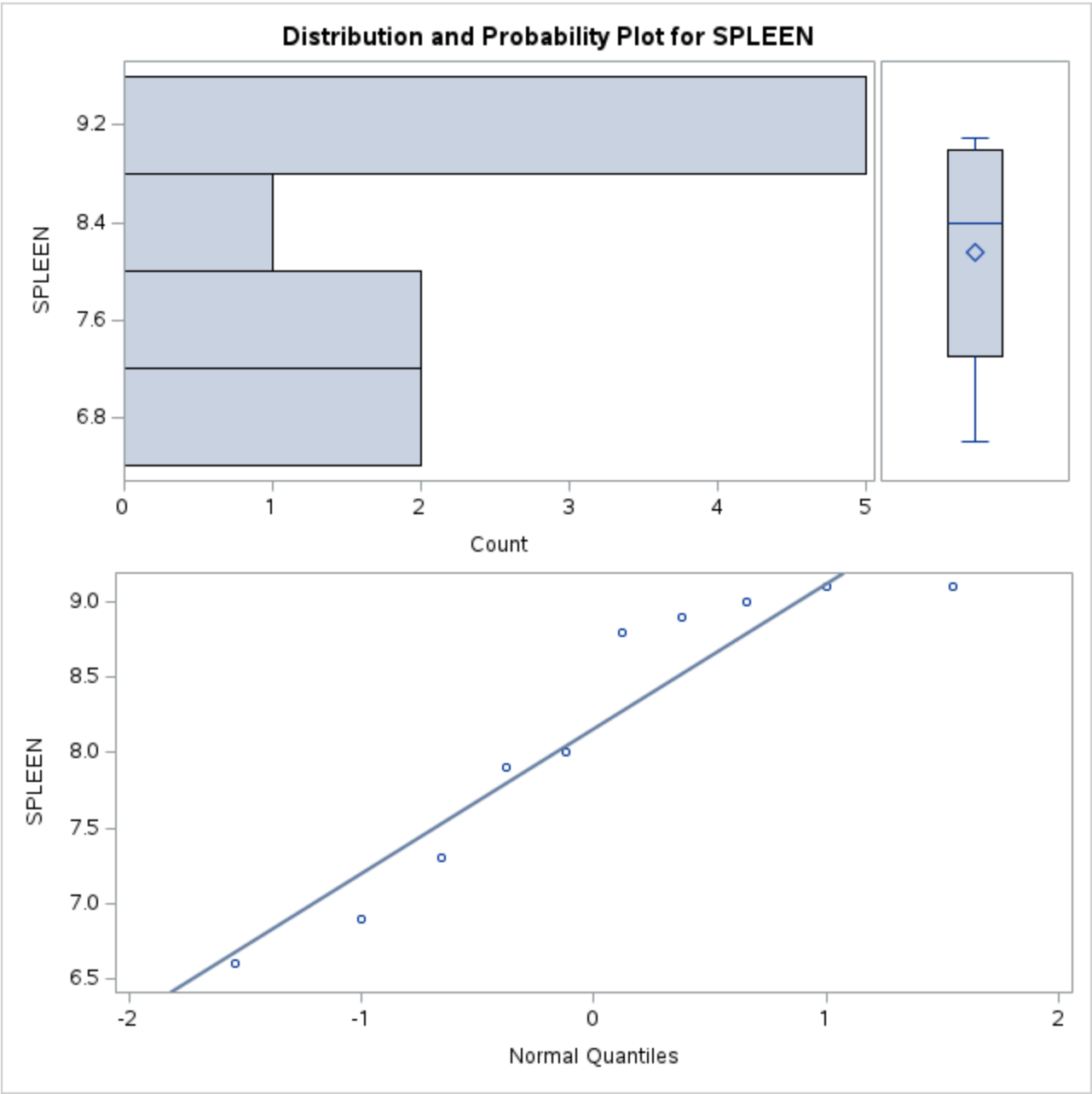
Basic Statistical Measures			
Location		Variability	
Mean	8.160000	Std Deviation	0.95940
Median	8.400000	Variance	0.92044
Mode	9.100000	Range	2.50000
		Interquartile Range	1.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.89623	Pr > t	<.0001
Sign	M	5	Pr >= M	0.0020
Signed Rank	S	27.5	Pr >= S	0.0020

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.865259	Pr < W	0.0880
Kolmogorov-Smirnov	D	0.247641	Pr > D	0.0814
Cramer-von Mises	W-Sq	0.090272	Pr > W-Sq	0.1354
Anderson-Darling	A-Sq	0.559109	Pr > A-Sq	0.1124

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.10
99%	9.10
95%	9.10
90%	9.10
75% Q3	9.00
50% Median	8.40
25% Q1	7.30
10%	6.75
5%	6.60
1%	6.60
0% Min	6.60

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.6	6	8.8	4
6.9	9	8.9	1
7.3	2	9.0	5
7.9	7	9.1	3
8.0	8	9.1	10



**The UNIVARIATE Procedure
Variable: REACT**

DOSE=1

Moments			
N	5	Sum Weights	5
Mean	7.76	Sum Observations	38.8
Std Deviation	4.55993421	Variance	20.793
Skewness	2.08111585	Kurtosis	4.42873197
Uncorrected SS	384.26	Corrected SS	83.172
Coeff Variation	58.7620388	Std Error Mean	2.03926457

Basic Statistical Measures			
Location		Variability	
Mean	7.760000	Std Deviation	4.55993
Median	5.900000	Variance	20.79300
Mode	.	Range	11.00000

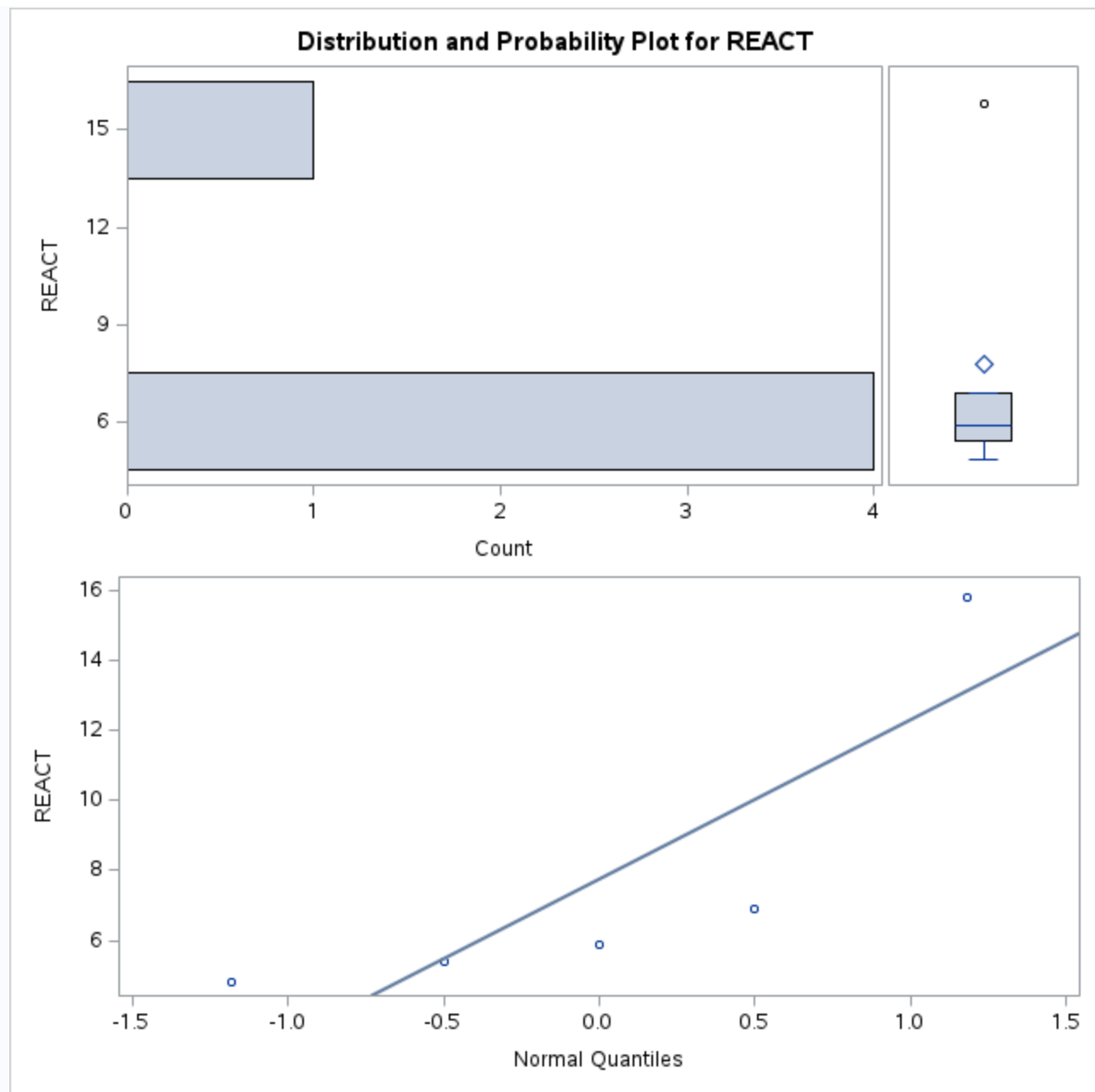
Basic Statistical Measures			
Location		Variability	
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.805293	Pr > t	0.0190
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.707883	Pr < W	0.0116
Kolmogorov-Smirnov	D	0.374797	Pr > D	0.0209
Cramer-von Mises	W-Sq	0.145986	Pr > W-Sq	0.0187
Anderson-Darling	A-Sq	0.772171	Pr > A-Sq	0.0172

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.8
99%	15.8
95%	15.8
90%	15.8
75% Q3	6.9
50% Median	5.9
25% Q1	5.4
10%	4.8
5%	4.8
1%	4.8
0% Min	4.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.8	3	4.8	3
5.4	1	5.4	1
5.9	2	5.9	2
6.9	4	6.9	4
15.8	5	15.8	5



The UNIVARIATE Procedure
Variable: LIVER_WT

DOSE=1

Moments			
N	5	Sum Weights	5
Mean	10.98	Sum Observations	54.9
Std Deviation	1.02078401	Variance	1.042
Skewness	0.09758786	Kurtosis	-2.270825
Uncorrected SS	606.97	Corrected SS	4.168
Coeff Variation	9.29675785	Std Error Mean	0.45650849

Basic Statistical Measures			
Location		Variability	
Mean	10.98000	Std Deviation	1.02078
Median	10.90000	Variance	1.04200
Mode	.	Range	2.40000

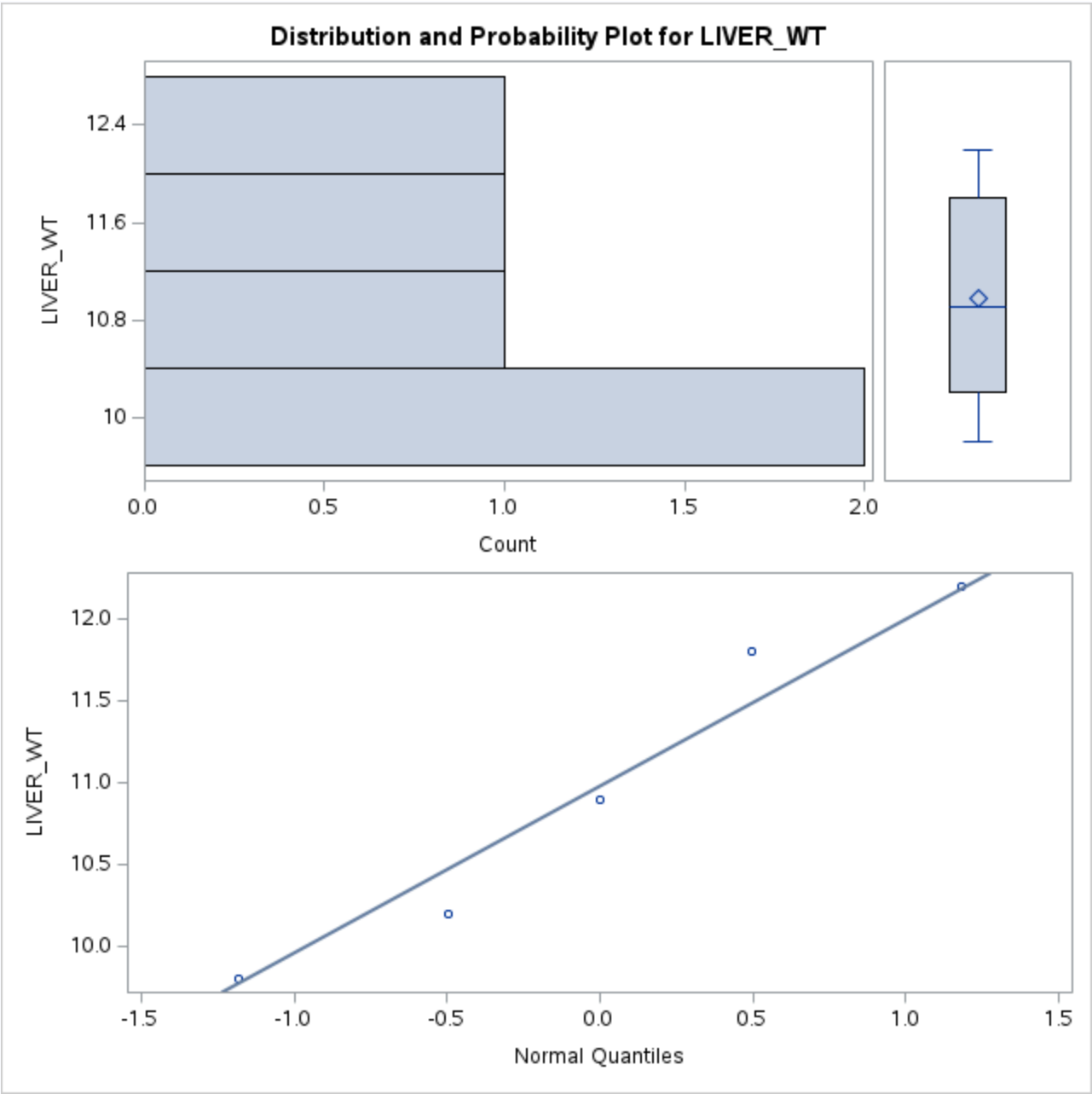
Basic Statistical Measures			
Location		Variability	
		Interquartile Range	1.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.05213	Pr > t	<.0001
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.94184	Pr < W	0.6790
Kolmogorov-Smirnov	D	0.189101	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.032428	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.218264	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.2
99%	12.2
95%	12.2
90%	12.2
75% Q3	11.8
50% Median	10.9
25% Q1	10.2
10%	9.8
5%	9.8
1%	9.8
0% Min	9.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.8	2	9.8	2
10.2	1	10.2	1
10.9	5	10.9	5
11.8	4	11.8	4
12.2	3	12.2	3



**The UNIVARIATE Procedure
Variable: SPLEEN**

DOSE=1

Moments			
N	5	Sum Weights	5
Mean	8.62	Sum Observations	43.1
Std Deviation	0.74632433	Variance	0.557
Skewness	-2.1116055	Kurtosis	4.55882211
Uncorrected SS	373.75	Corrected SS	2.228
Coeff Variation	8.65805483	Std Error Mean	0.33376639

Basic Statistical Measures			
Location		Variability	
Mean	8.620000	Std Deviation	0.74632
Median	8.900000	Variance	0.55700
Mode	.	Range	1.80000

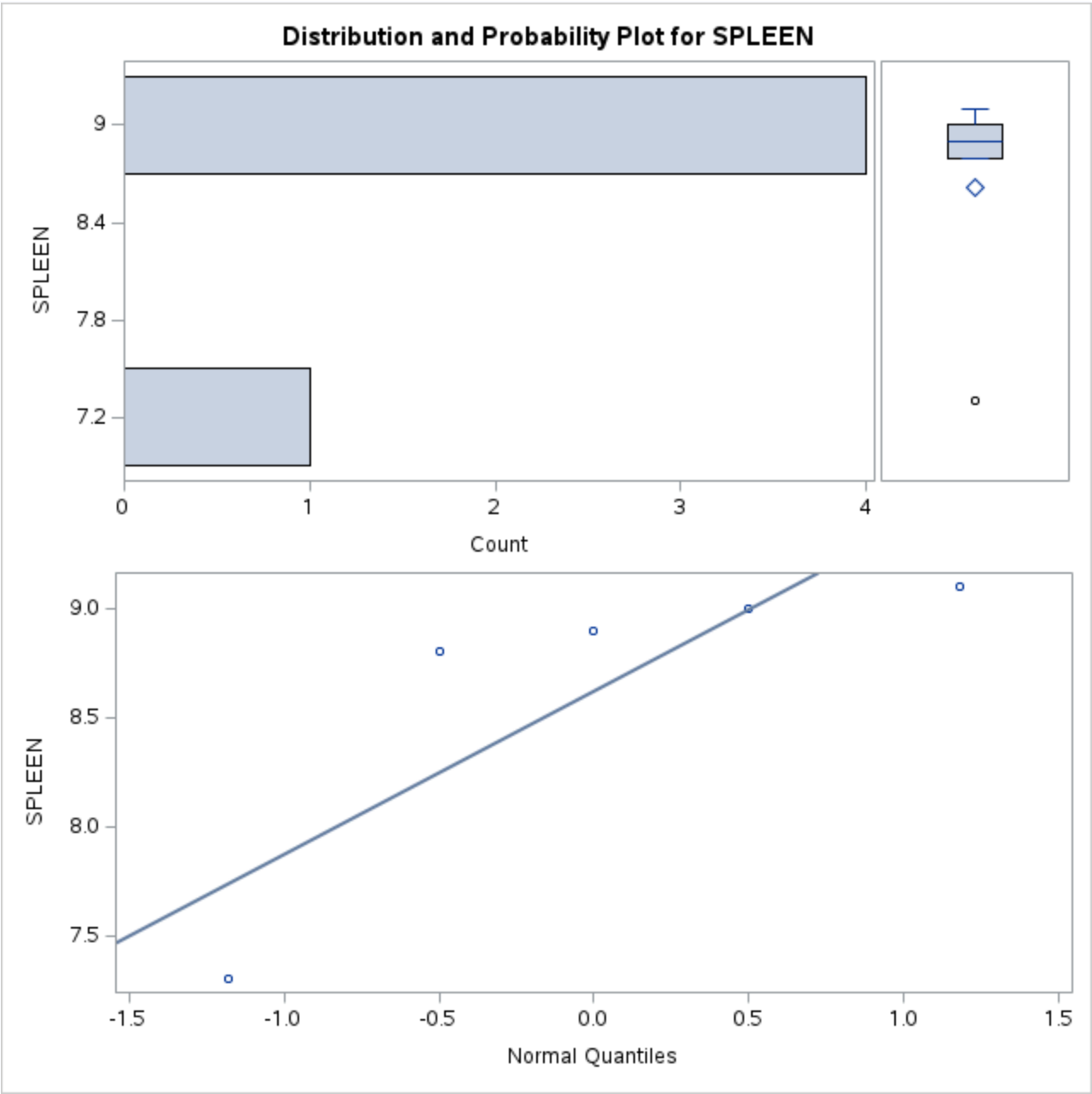
Basic Statistical Measures			
Location		Variability	
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	25.82645	Pr > t	<.0001
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.695281	Pr < W	0.0085
Kolmogorov-Smirnov	D	0.395293	Pr > D	0.0109
Cramer-von Mises	W-Sq	0.154683	Pr > W-Sq	0.0139
Anderson-Darling	A-Sq	0.808906	Pr > A-Sq	0.0130

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.1
99%	9.1
95%	9.1
90%	9.1
75% Q3	9.0
50% Median	8.9
25% Q1	8.8
10%	7.3
5%	7.3
1%	7.3
0% Min	7.3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.3	2	7.3	2
8.8	4	8.8	4
8.9	1	8.9	1
9.0	5	9.0	5
9.1	3	9.1	3



**The UNIVARIATE Procedure
Variable: REACT**

DOSE=2

Moments			
N	5	Sum Weights	5
Mean	8.06	Sum Observations	40.3
Std Deviation	5.71340529	Variance	32.643
Skewness	2.15164673	Kurtosis	4.67593424
Uncorrected SS	455.39	Corrected SS	130.572
Coeff Variation	70.8859217	Std Error Mean	2.55511252

Basic Statistical Measures			
Location		Variability	
Mean	8.060000	Std Deviation	5.71341
Median	5.500000	Variance	32.64300
Mode	.	Range	13.30000

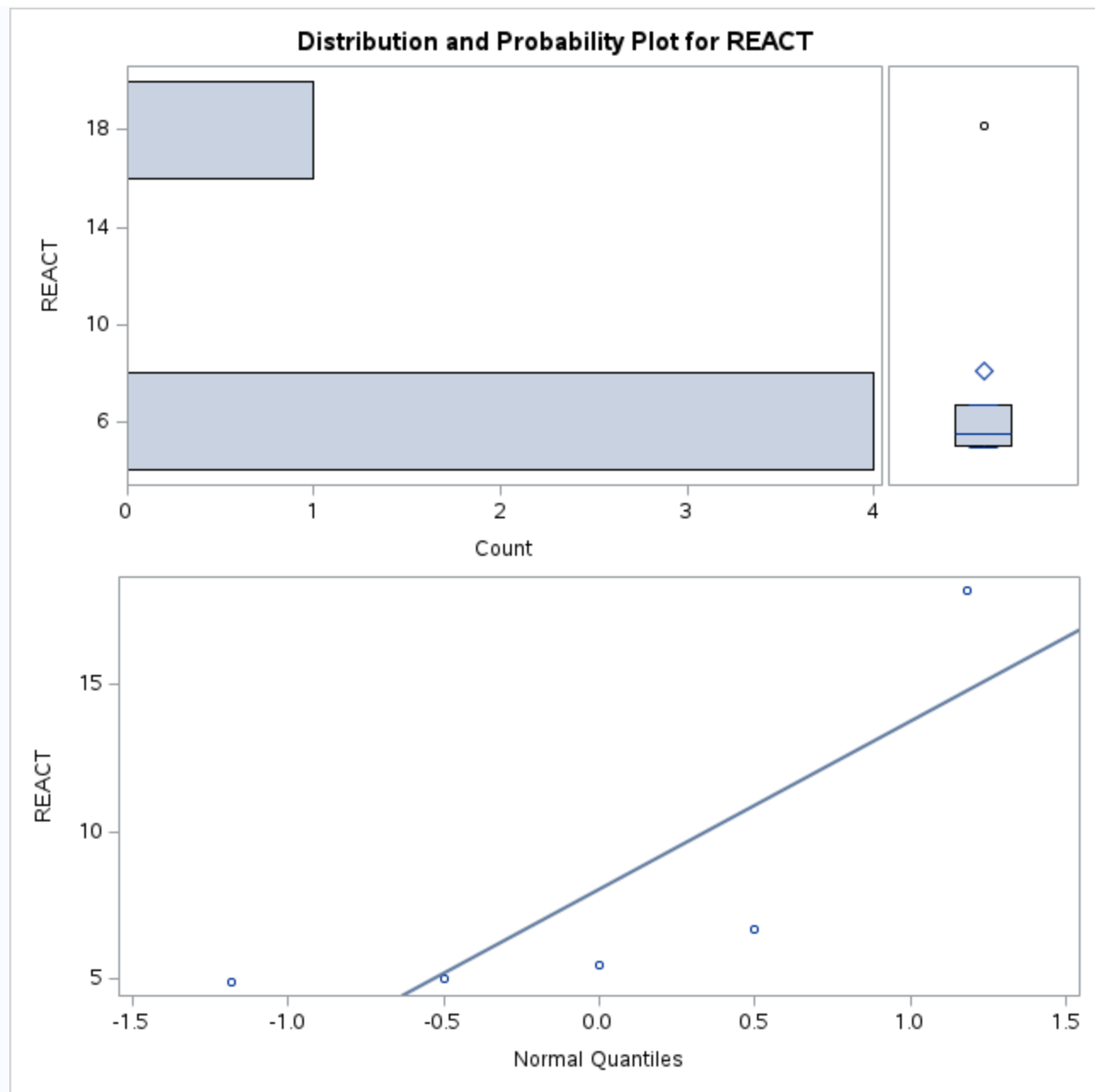
Basic Statistical Measures			
Location		Variability	
		Interquartile Range	1.70000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.15446	Pr > t	0.0344
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.655292	Pr < W	0.0031
Kolmogorov-Smirnov	D	0.394074	Pr > D	0.0115
Cramer-von Mises	W-Sq	0.173059	Pr > W-Sq	0.0073
Anderson-Darling	A-Sq	0.898316	Pr > A-Sq	0.0068

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.2
99%	18.2
95%	18.2
90%	18.2
75% Q3	6.7
50% Median	5.5
25% Q1	5.0
10%	4.9
5%	4.9
1%	4.9
0% Min	4.9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.9	6	4.9	6
5.0	7	5.0	7
5.5	10	5.5	10
6.7	8	6.7	8
18.2	9	18.2	9



The UNIVARIATE Procedure
Variable: LIVER_WT

DOSE=2

Moments			
N	5	Sum Weights	5
Mean	11.62	Sum Observations	58.1
Std Deviation	1.5155857	Variance	2.297
Skewness	0.47200754	Kurtosis	-0.1965862
Uncorrected SS	684.31	Corrected SS	9.188
Coeff Variation	13.0429062	Std Error Mean	0.67779053

Basic Statistical Measures			
Location		Variability	
Mean	11.62000	Std Deviation	1.51559
Median	11.90000	Variance	2.29700
Mode	.	Range	3.90000

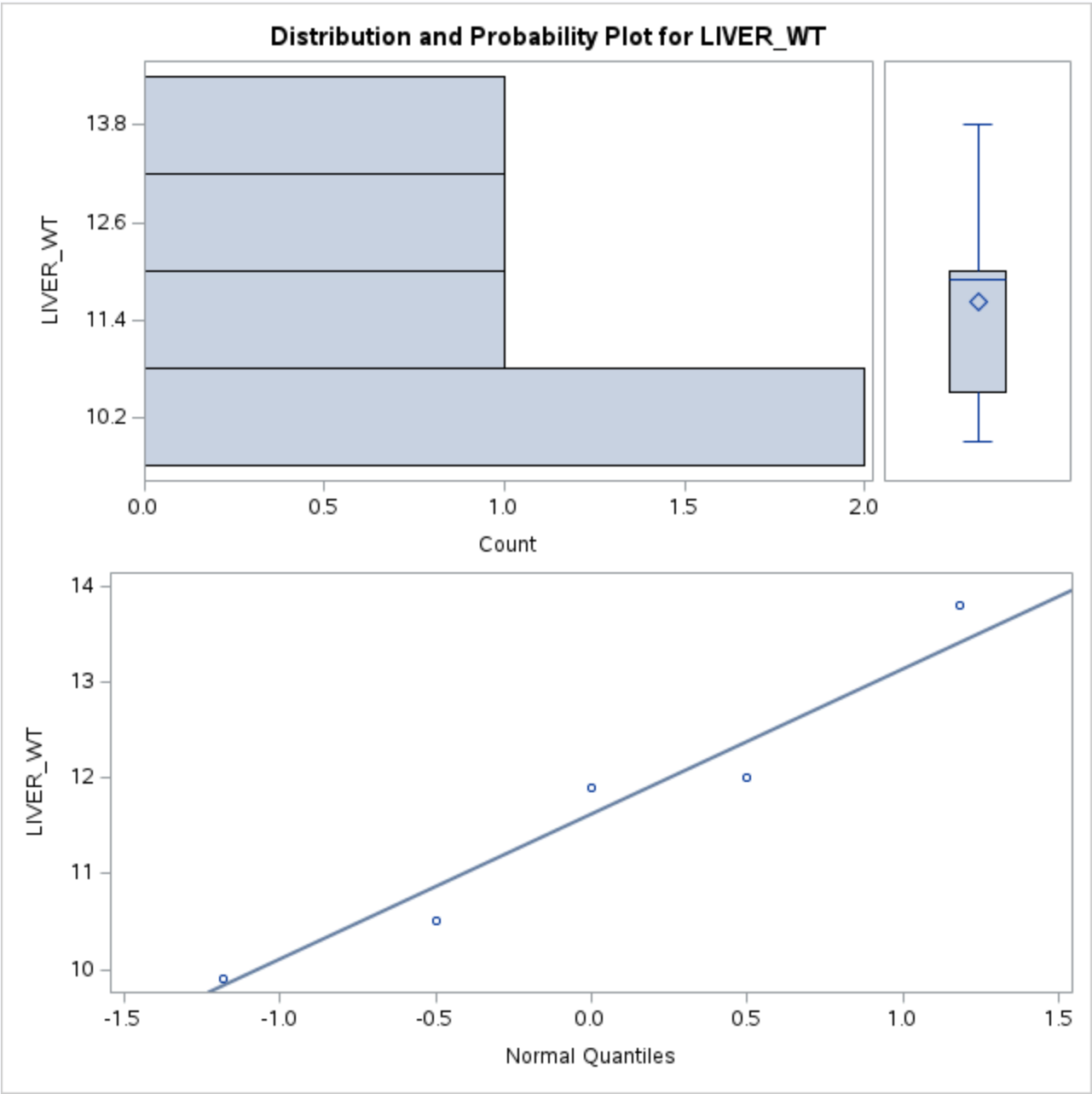
Basic Statistical Measures			
Location		Variability	
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.14394	Pr > t	<.0001
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.949815	Pr < W	0.7359
Kolmogorov-Smirnov	D	0.201012	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.03856	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.237599	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.8
99%	13.8
95%	13.8
90%	13.8
75% Q3	12.0
50% Median	11.9
25% Q1	10.5
10%	9.9
5%	9.9
1%	9.9
0% Min	9.9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.9	10	9.9	10
10.5	8	10.5	8
11.9	9	11.9	9
12.0	7	12.0	7
13.8	6	13.8	6



**The UNIVARIATE Procedure
Variable: SPLEEN**

DOSE=2

Moments			
N	5	Sum Weights	5
Mean	7.7	Sum Observations	38.5
Std Deviation	0.99247166	Variance	0.985
Skewness	0.39894246	Kurtosis	-0.6241336
Uncorrected SS	300.39	Corrected SS	3.94
Coeff Variation	12.8892424	Std Error Mean	0.44384682

Basic Statistical Measures			
Location		Variability	
Mean	7.700000	Std Deviation	0.99247
Median	7.900000	Variance	0.98500
Mode	.	Range	2.50000

Basic Statistical Measures			
Location		Variability	
		Interquartile Range	1.10000

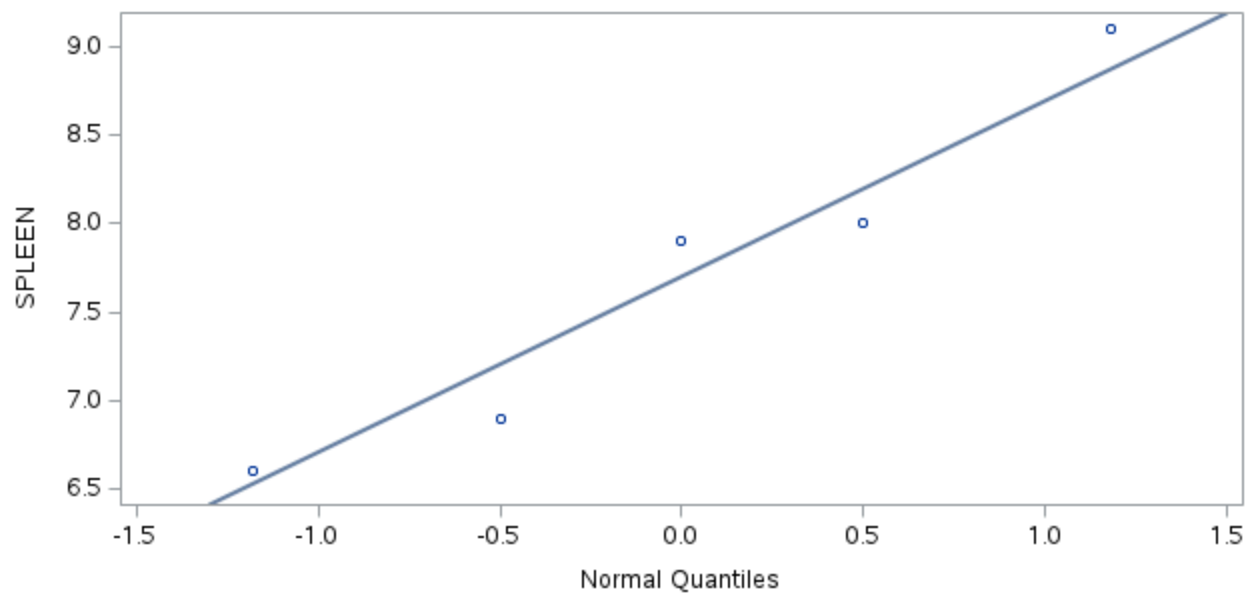
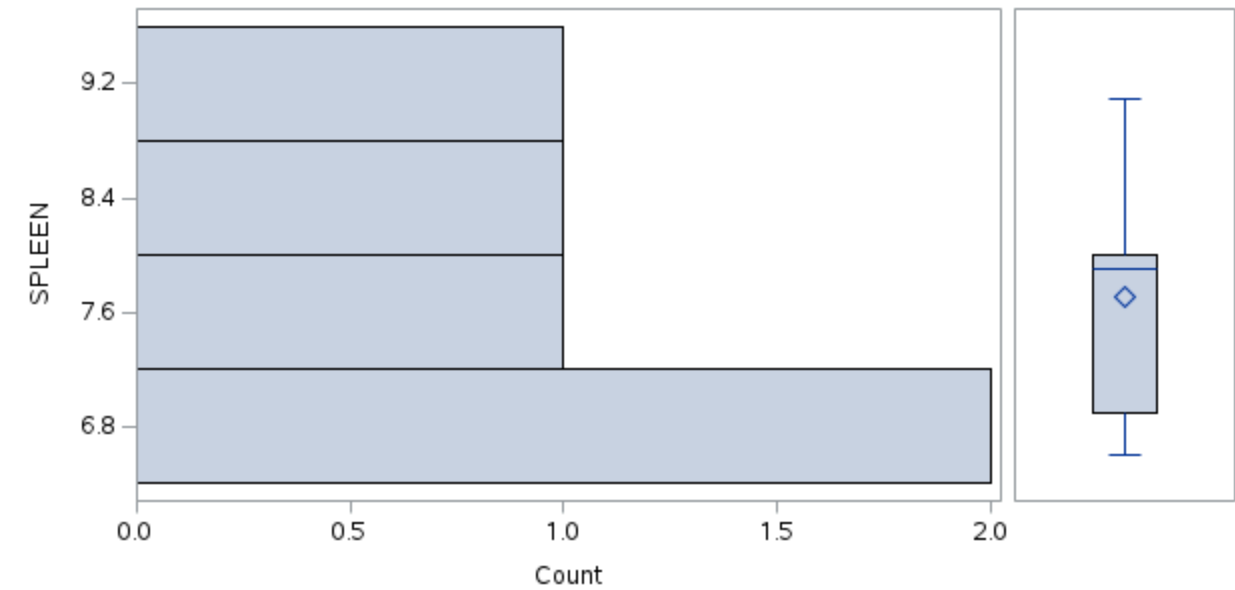
Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.34833	Pr > t	<.0001
Sign	M	2.5	Pr >= M	0.0625
Signed Rank	S	7.5	Pr >= S	0.0625

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.942561	Pr < W	0.6841
Kolmogorov-Smirnov	D	0.189898	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.039302	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.245613	Pr > A-Sq	>0.2500

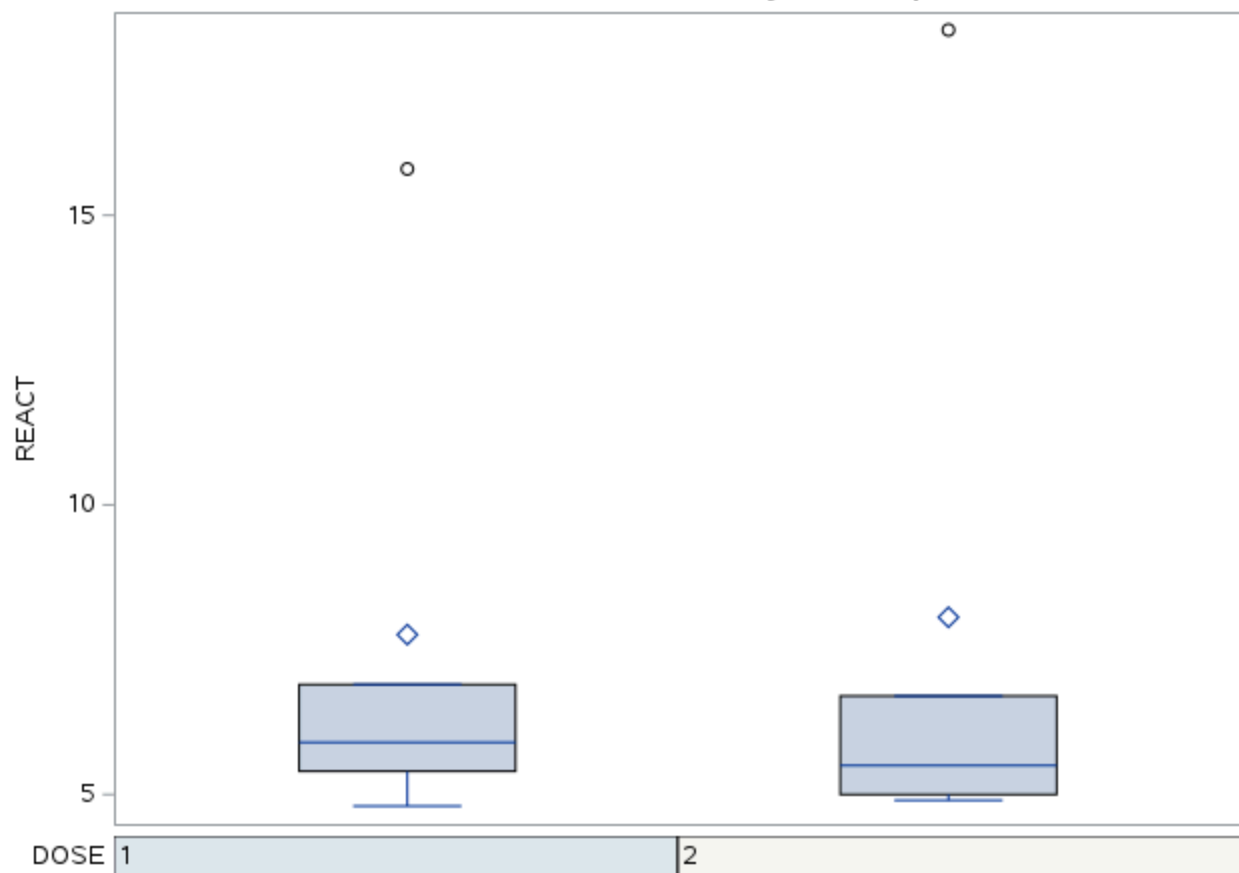
Quantiles (Definition 5)	
Level	Quantile
100% Max	9.1
99%	9.1
95%	9.1
90%	9.1
75% Q3	8.0
50% Median	7.9
25% Q1	6.9
10%	6.6
5%	6.6
1%	6.6
0% Min	6.6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.6	6	6.6	6
6.9	9	6.9	9
7.9	7	7.9	7
8.0	8	8.0	8
9.1	10	9.1	10

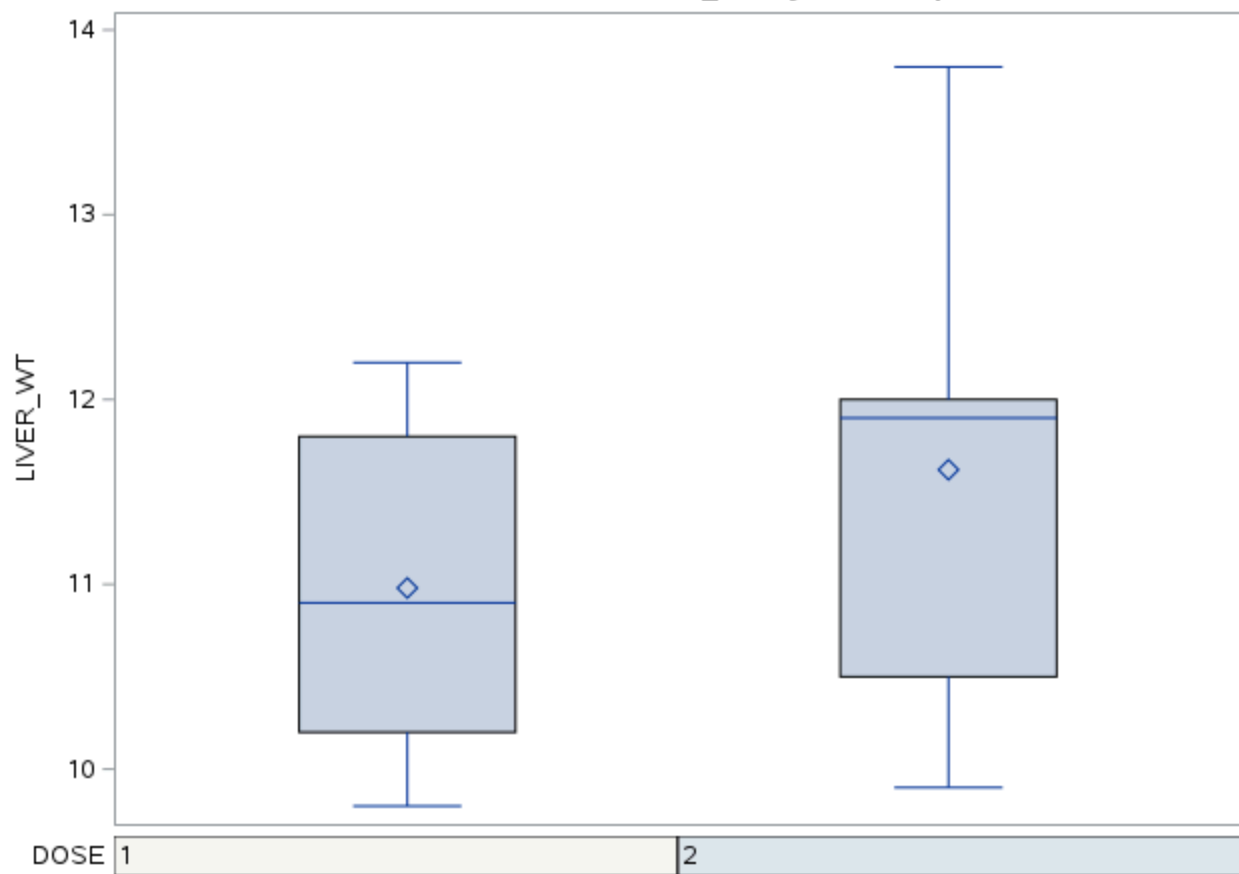
Distribution and Probability Plot for SPLEEN

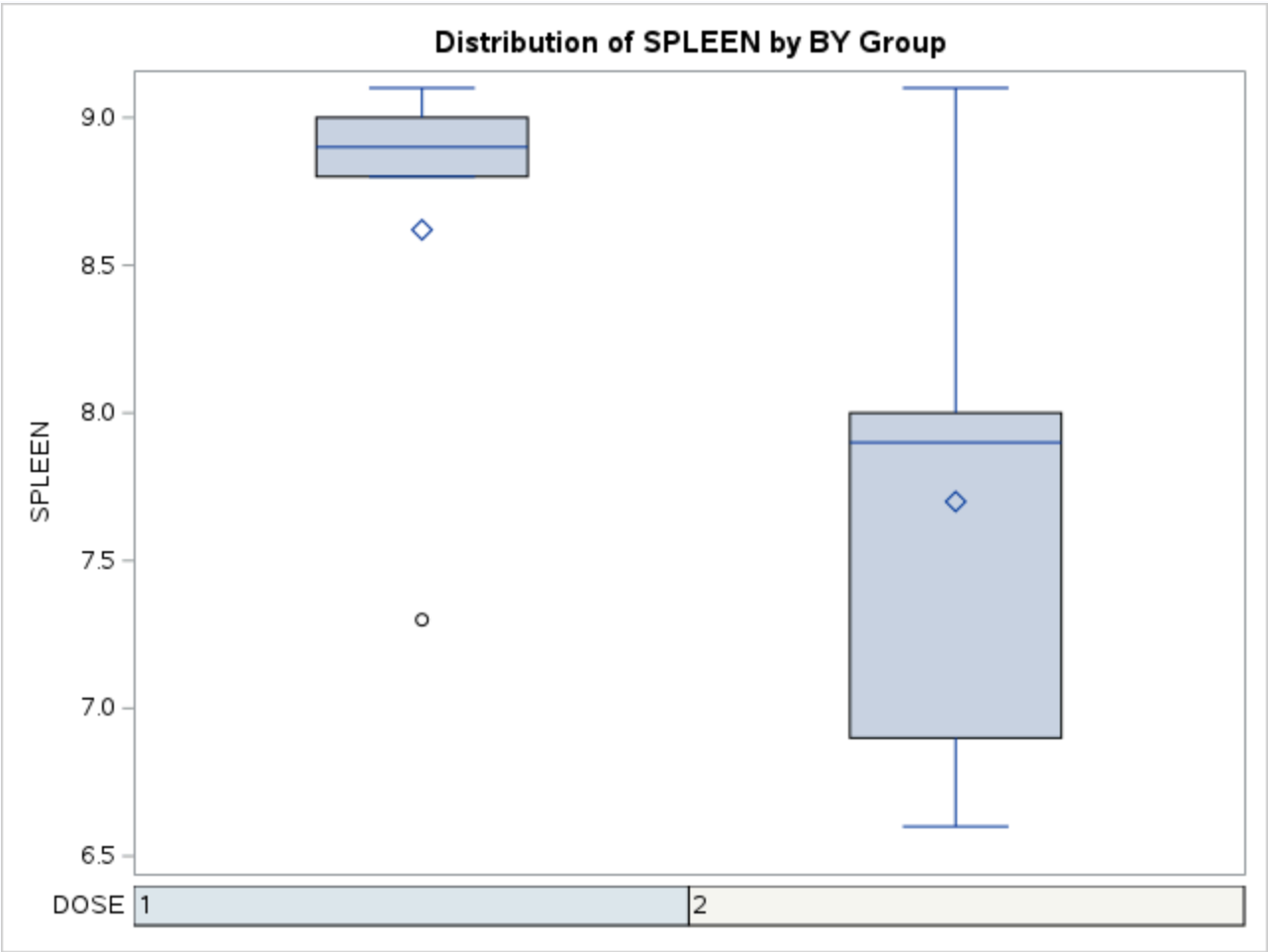


Distribution of REACT by BY Group



Distribution of LIVER_WT by BY Group





The MEANS Procedure

Analysis Variable : LIVER_WT	
	Std Error
	0.3997221

The MEANS Procedure

DOSE=1

Analysis Variable : LIVER_WT	
	Std Error
	0.4565085

DOSE=2

Analysis Variable : LIVER_WT	
	Std Error
	0.6777905

The MEANS Procedure

DOSE=1

Analysis Variable : REACT	
	Skewness

Analysis Variable : REACT
Skewness
2.0811158

DOSE=2

Analysis Variable : REACT
Skewness
2.1516467

The MEANS Procedure

DOSE=1

Analysis Variable : SPLEEN				
N	Mean	Std Dev	Minimum	Maximum
5	8.6200000	0.7463243	7.3000000	9.1000000

DOSE=2

Analysis Variable : SPLEEN				
N	Mean	Std Dev	Minimum	Maximum
5	7.7000000	0.9924717	6.6000000	9.1000000

The TTEST Procedure

Variable: REACT

DOSE	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
1		5	7.7600	4.5599	2.0393	4.8000	15.8000
2		5	8.0600	5.7134	2.5551	4.9000	18.2000
Diff (1-2)	Pooled		-0.3000	5.1689	3.2691		
Diff (1-2)	Satterthwaite		-0.3000		3.2691		

DOSE	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
1		7.7600	2.0981	13.4219	4.5599	2.7320	13.1032
2		8.0600	0.9659	15.1541	5.7134	3.4231	16.4178
Diff (1-2)	Pooled	-0.3000	-7.8386	7.2386	5.1689	3.4914	9.9025
Diff (1-2)	Satterthwaite	-0.3000	-7.9036	7.3036			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	8	-0.09	0.9291
Satterthwaite	Unequal	7.625	-0.09	0.9292

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	4	4	1.57	0.6728

