



**Tecnológico  
de Monterrey**

## Reporte de Variables CEMEX

### **EQUIPO 2**

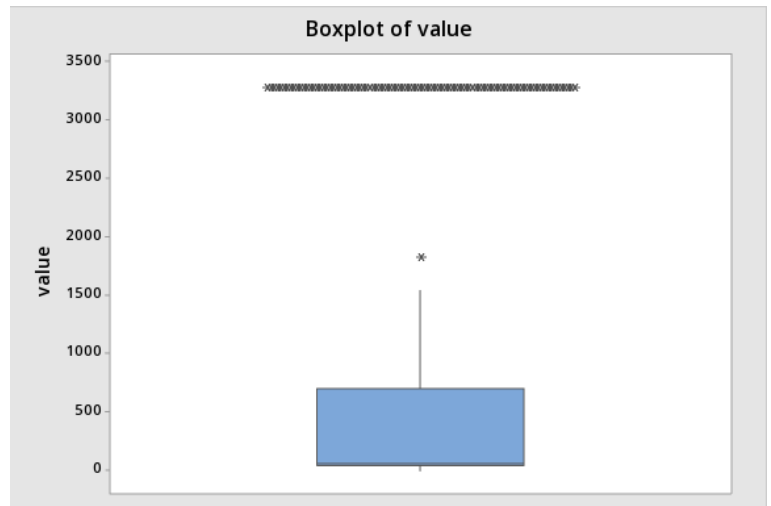
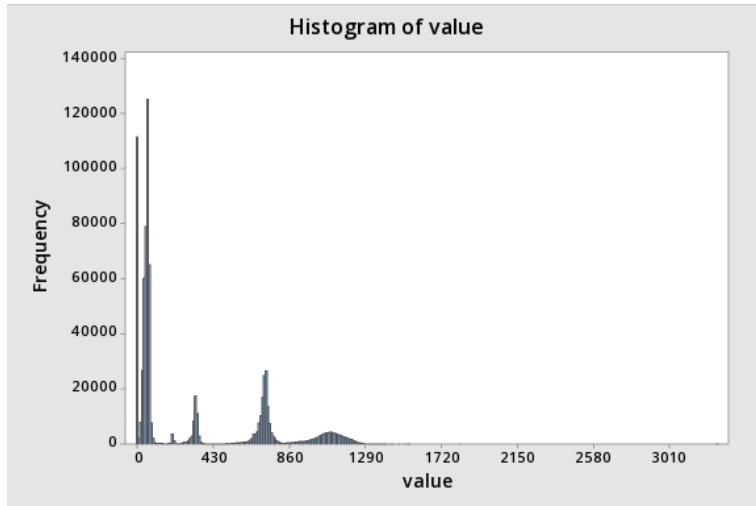
Sofía Cedillo Treviño A01380854  
Ariel Alejandro Santos Alemán A00815878  
Fernando Isunza Fonseca A01400624  
Ulises Cabrera González A01730893

21 de Octubre del 2019

## Reporte de Equipo

Monterrey

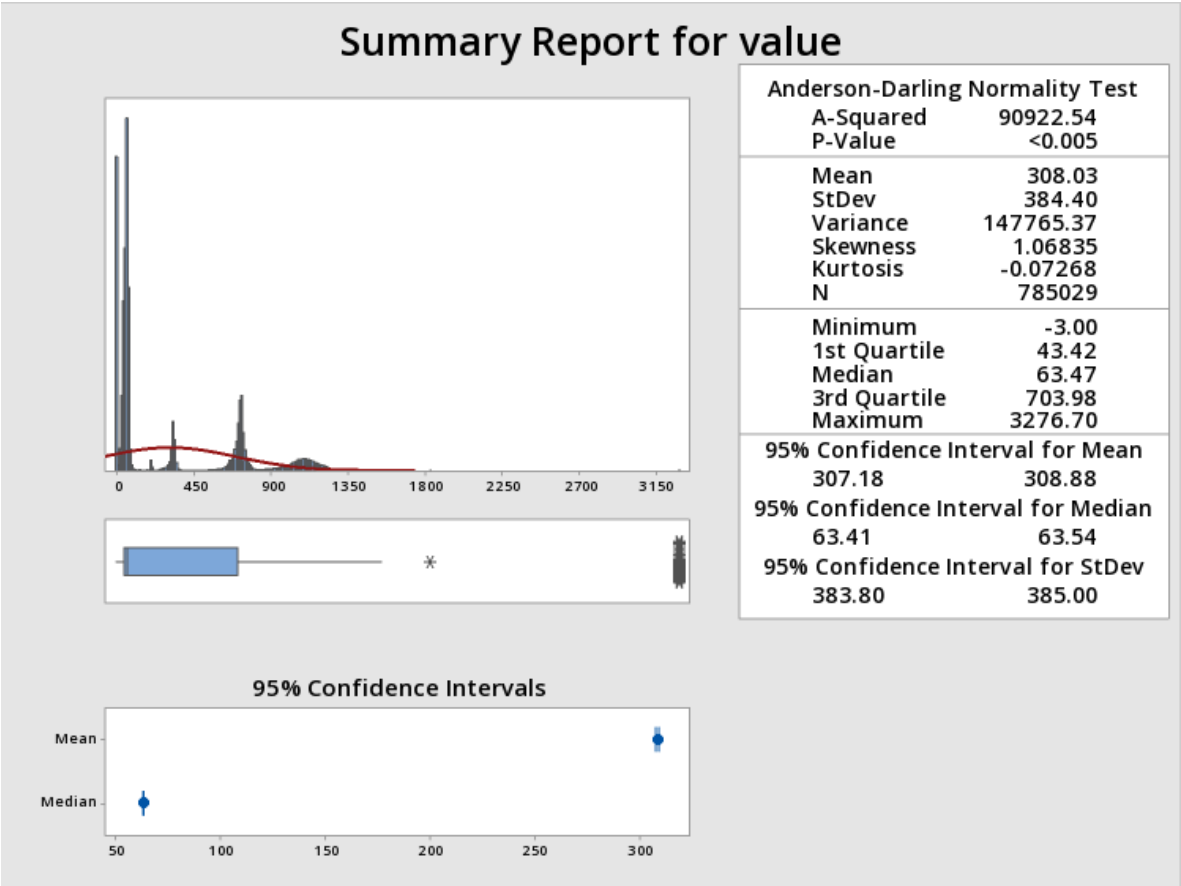
⇒ ID Fan



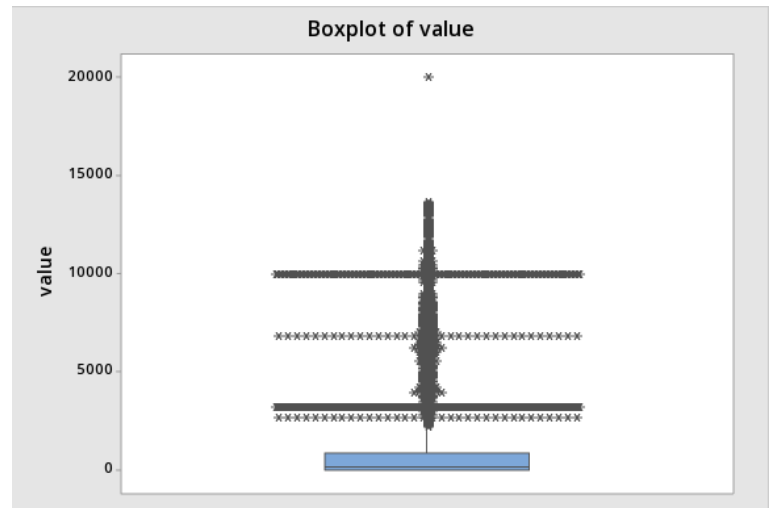
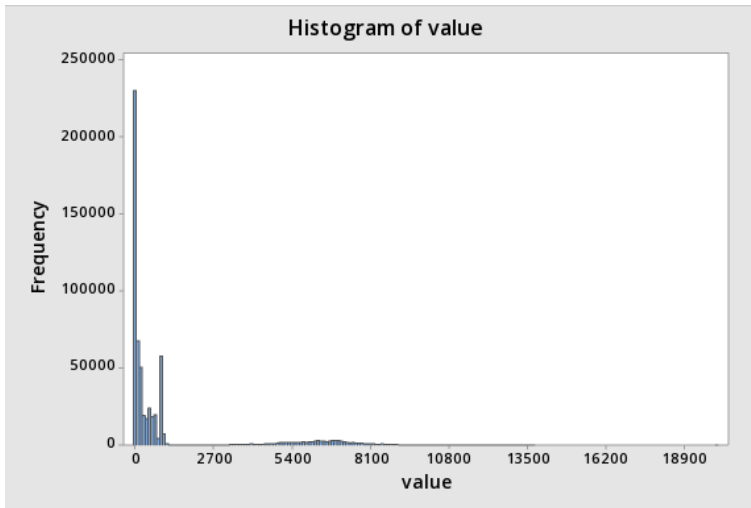
## Estadística Descriptiva

Medidas de tendencia central	
Media	308.03
Mediana	63.47
Moda	
Percentiles	
25	43.42
50	63.47
75	703.98
Medida de forma	
Sesgo	
Curtosis	-0.07
Medidas de dispersión	
Mínimo	-3.00
Máximo	3276.70
Desviación estándar	384.40
Varianza	147765.37
Coeficiente de Varianza	124.79

# Summary Report



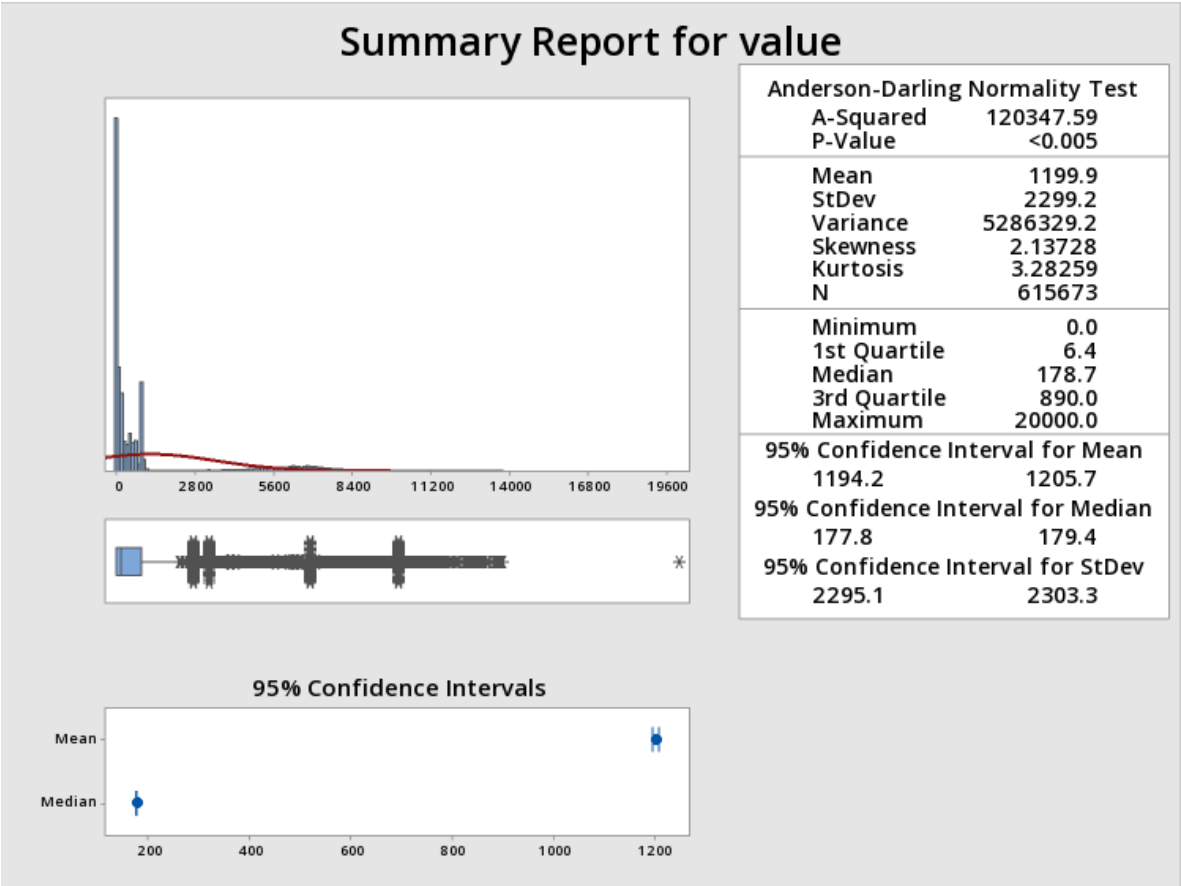
⇒ Fuel Doser



## Estadística Descriptiva

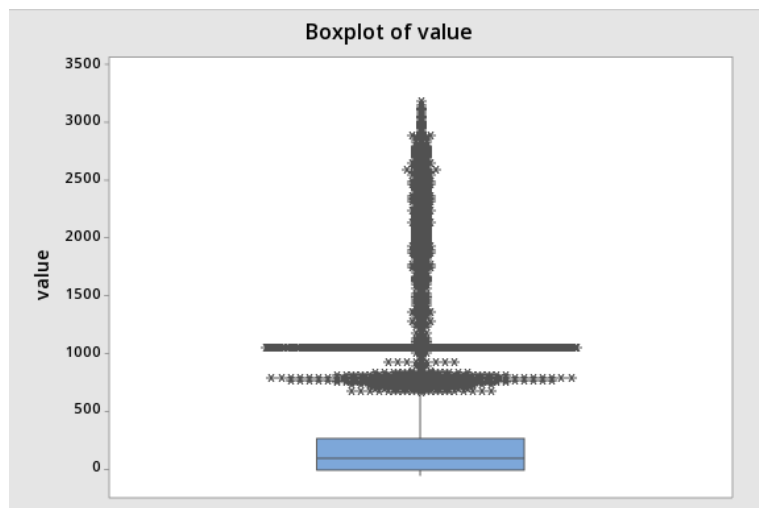
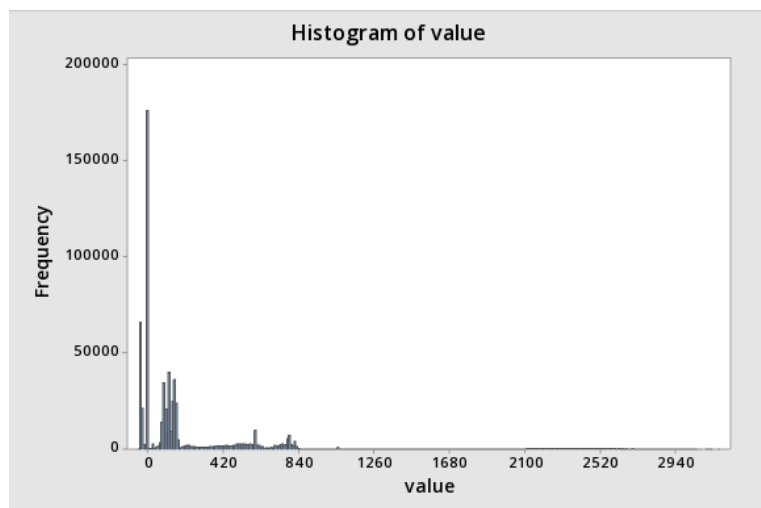
Medidas de tendencia central	
Media	1199.9
Mediana	178.7
Moda	
Percentiles	
25	6.45
50	178.7
75	890.0
Medida de forma	
Sesgo	
Curtosis	3.28
Medidas de dispersión	
Mínimo	0.00
Máximo	20000.0
Desviación estándar	2299.2
Varianza	5286329.2
Coeficiente de Varianza	191.61

Summary Report



## Balcones

⇒ ID Fan

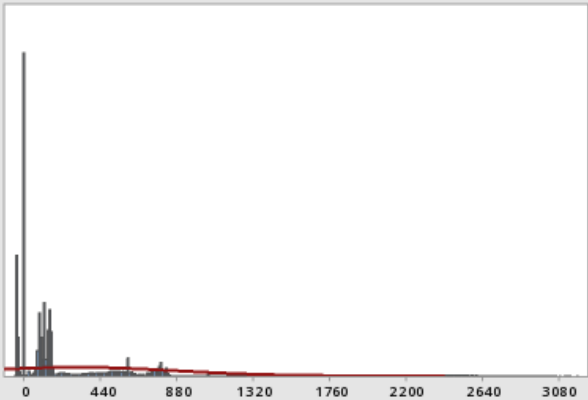


## Estadística Descriptiva

Medidas de tendencia central	
Media	295.70
Mediana	97.84
Moda	
Percentiles	
25	0.005
50	97.84
75	269.49
Medida de forma	
Sesgo	
Curtosis	7.85
Medidas de dispersión	
Mínimo	-50.00
Máximo	3179.84
Desviación estándar	571.08
Varianza	326137.59
Coeficiente de Varianza	193.13

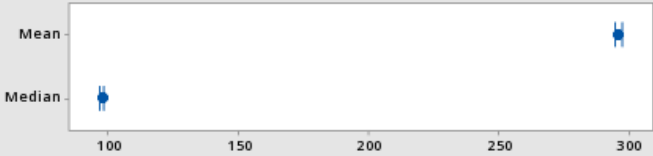
# Summary Report

## Summary Report for value



Anderson-Darling Normality Test	
A-Squared	101095.28
P-Value	<0.005
Mean	295.70
StDev	571.08
Variance	326137.59
Skewness	2.85435
Kurtosis	7.84725
N	682312
Minimum	-50.00
1st Quartile	0.01
Median	97.84
3rd Quartile	269.49
Maximum	3179.84
95% Confidence Interval for Mean	
	294.35 297.06
95% Confidence Interval for Median	
	97.09 98.64
95% Confidence Interval for StDev	
	570.13 572.04

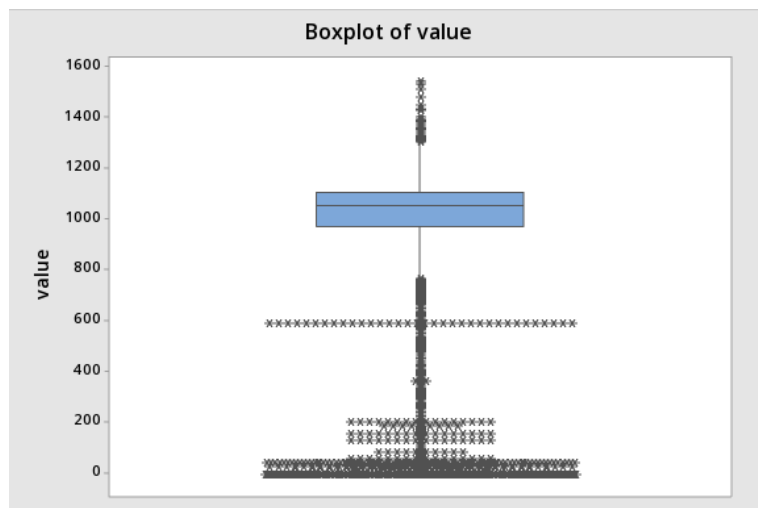
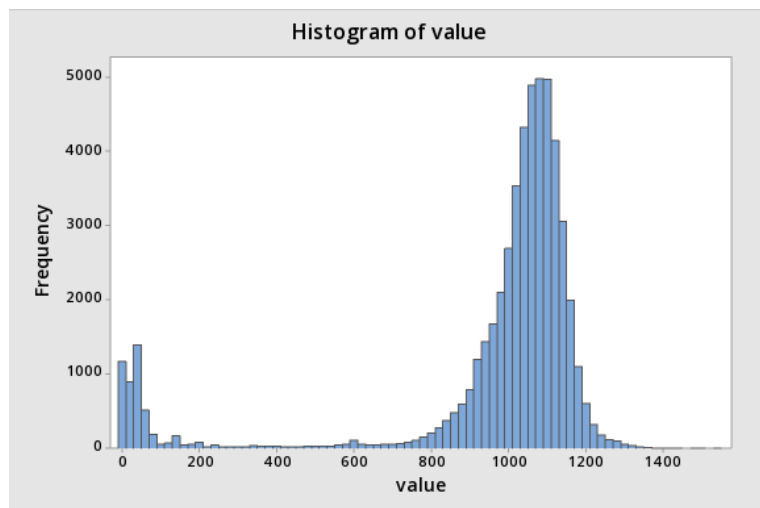
### 95% Confidence Intervals



## Reporte de Tags

### Monterrey

- ID Fan, JI5310210

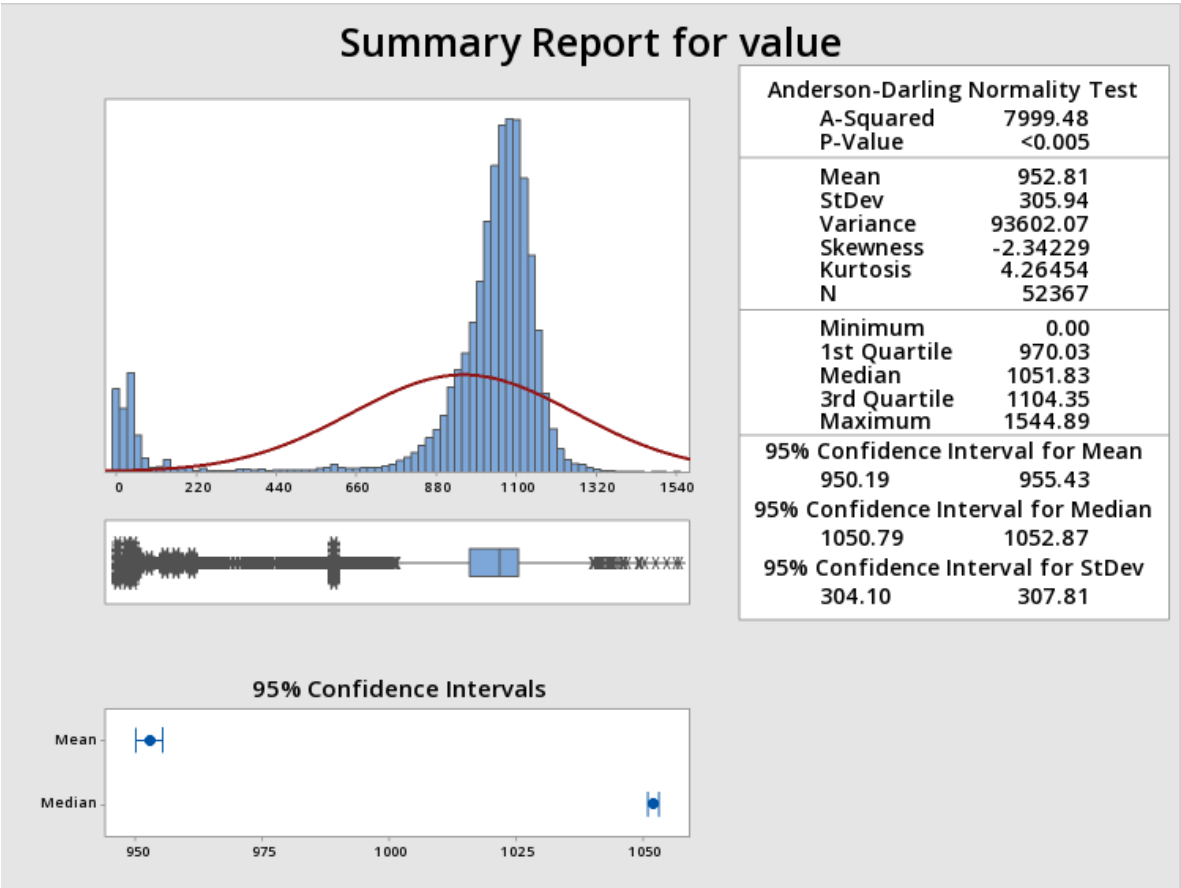


## Estadística Descriptiva

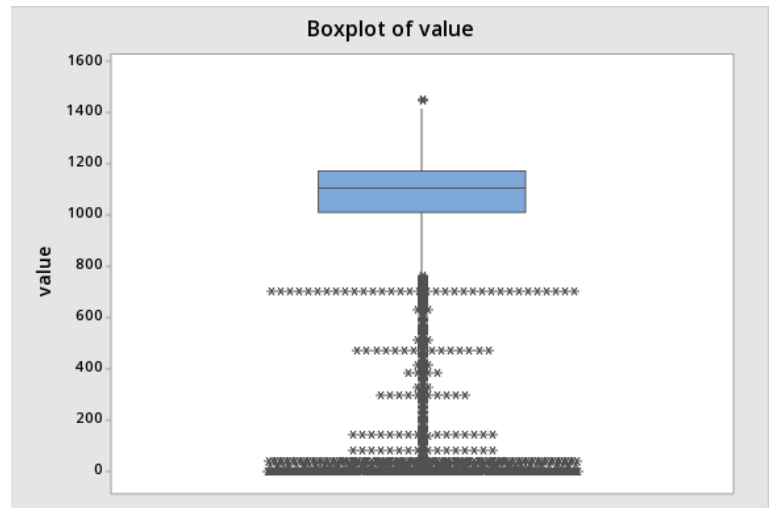
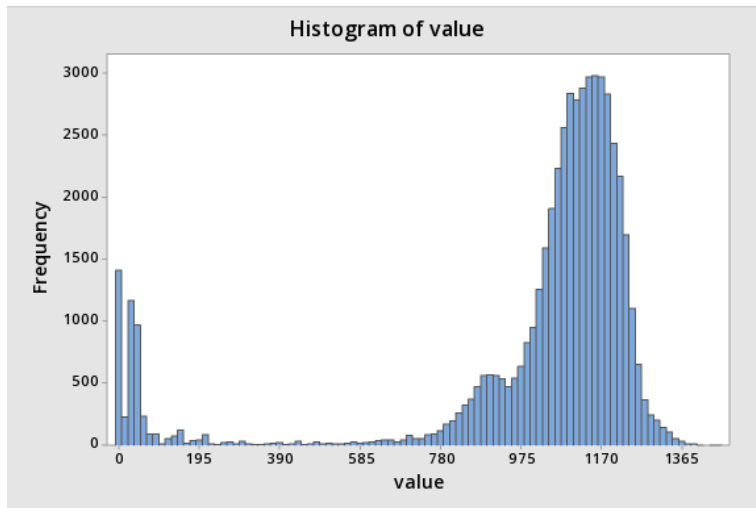
Medidas de tendencia central	
Media	952.81
Mediana	1051.82
Moda	
Percentiles	
25	970.03
50	1051.82
75	1104.35
Medida de forma	
Sesgo	
Curtosis	4.26454
Medidas de dispersión	
Mínimo	0.00
Máximo	1544.89
Desviación estándar	305.94
Varianza	93602.07
Coeficiente de Varianza	32.11



# Summary Report



○ ID Fan, JI5310310

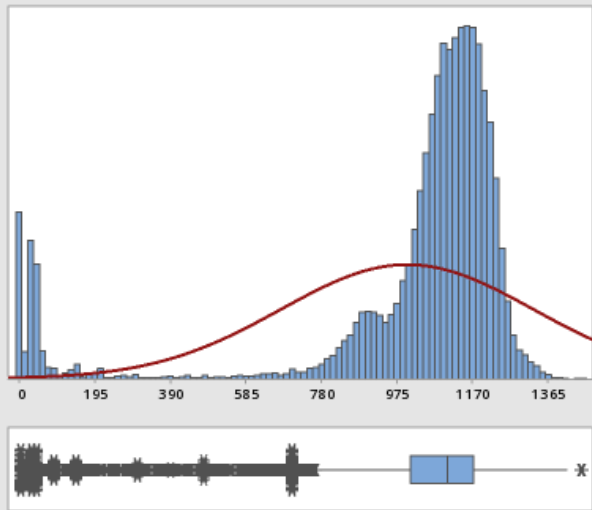


## Estadística Descriptiva

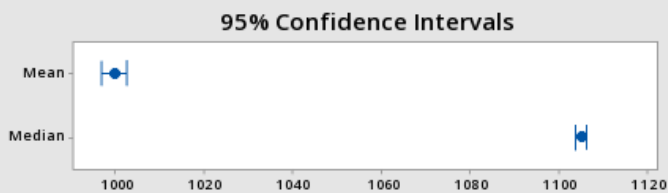
Medidas de tendencia central	
Media	999.87
Mediana	1104.91
Moda	
Percentiles	
25	1009.17
50	1104.91
75	1172.56
Medida de forma	
Sesgo	
Curtosis	4.00
Medidas de dispersión	
Mínimo	0.00
Máximo	1451.09
Desviación estándar	325.90
Varianza	106210.45
Coeficiente de Varianza	32.59

# Summary Report

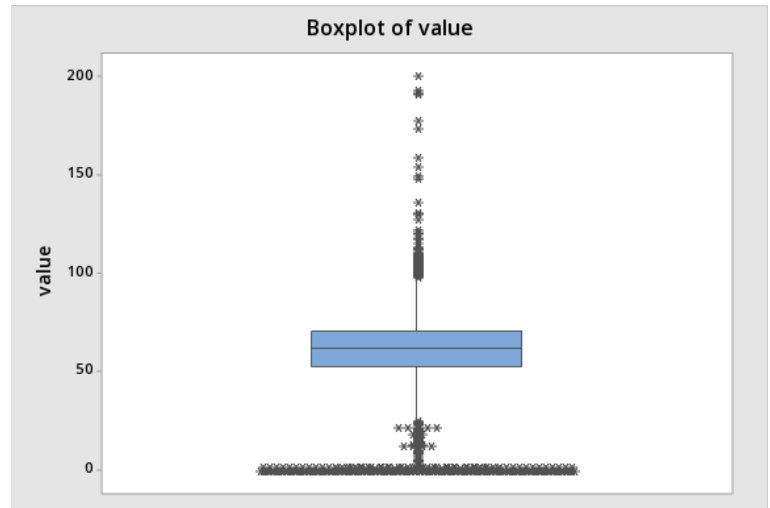
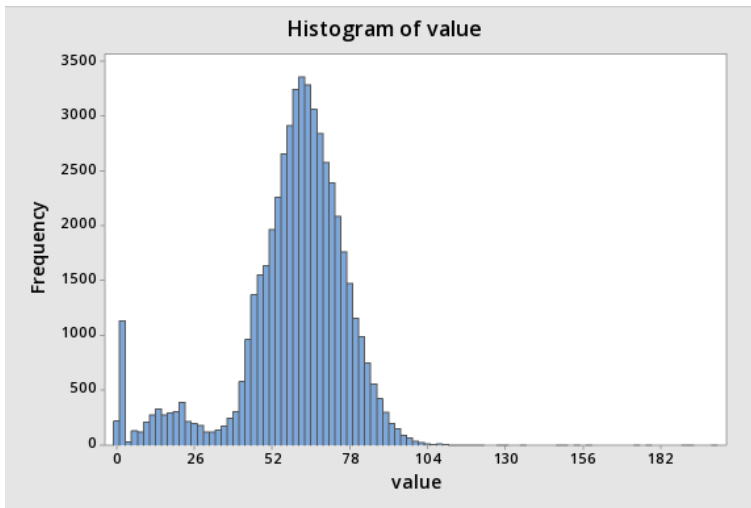
## Summary Report for value



Anderson-Darling Normality Test	
A-Squared	7126.23
P-Value	<0.005
Mean	999.87
StDev	325.90
Variance	106210.45
Skewness	-2.26258
Kurtosis	4.00142
N	52367
Minimum	0.00
1st Quartile	1009.17
Median	1104.91
3rd Quartile	1172.56
Maximum	1451.09
95% Confidence Interval for Mean	
	997.08 1002.66
95% Confidence Interval for Median	
	1103.62 1106.18
95% Confidence Interval for StDev	
	323.94 327.89



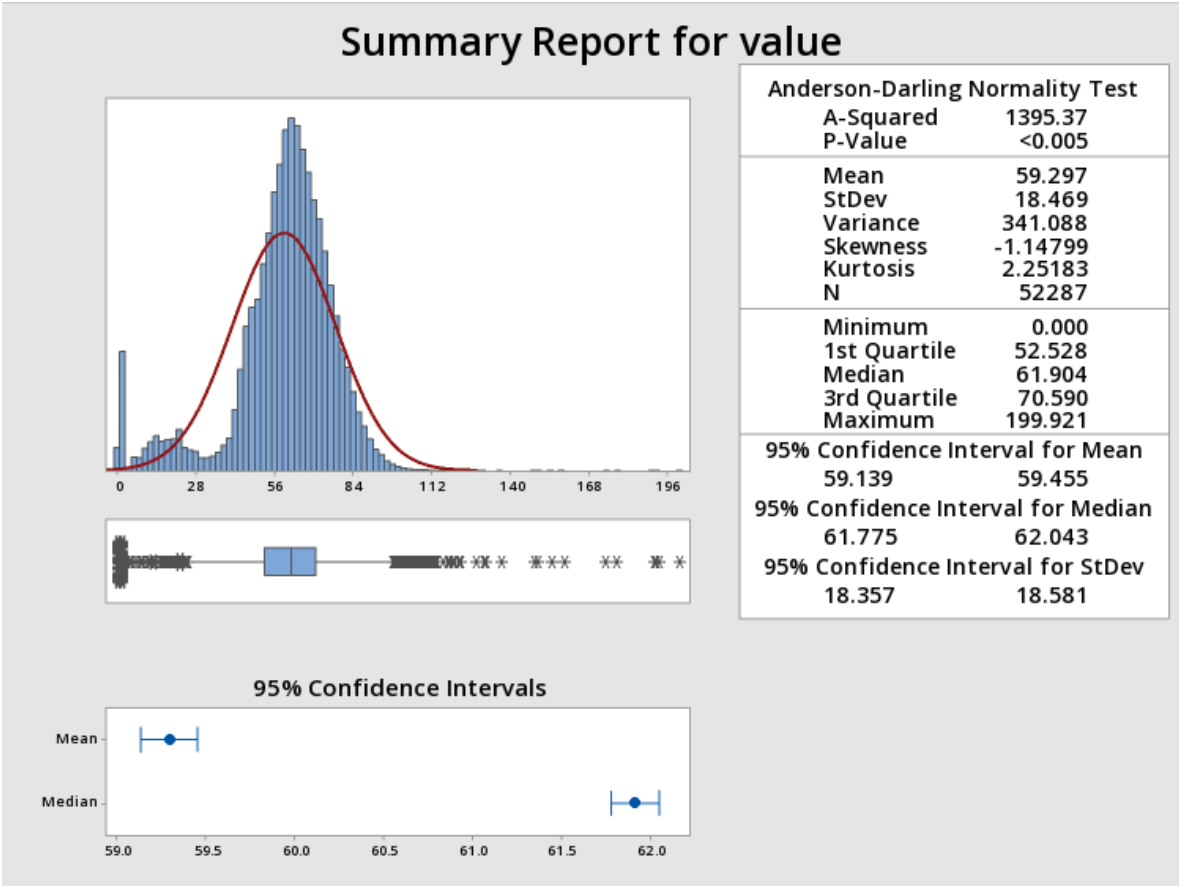
- ID Fan, PI5210210



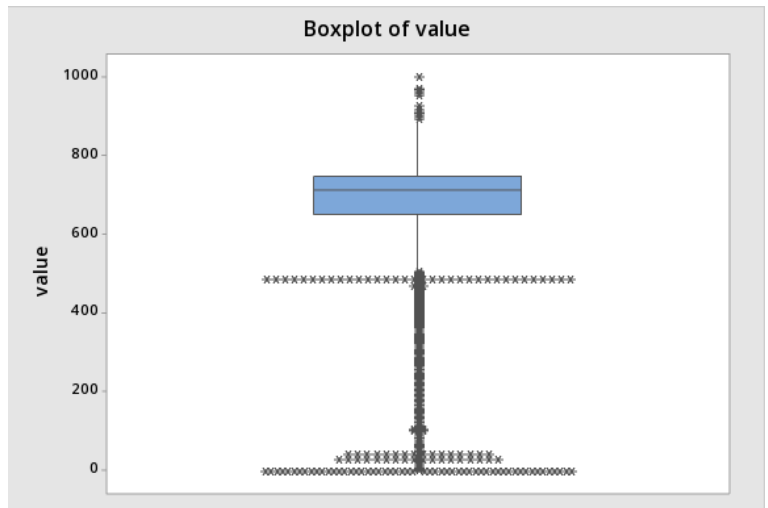
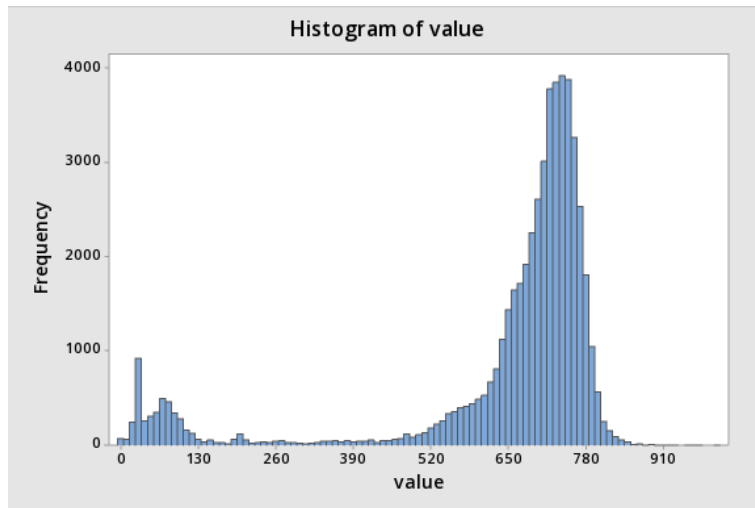
## Estadística Descriptiva

Medidas de tendencia central	
Media	59.297
Mediana	61.904
Moda	
Percentiles	
25	52.528
50	61.904
75	70.590
Medida de forma	
Sesgo	
Curtosis	2.25
Medidas de dispersión	
Mínimo	0.0000
Máximo	199.921
Desviación estándar	18.469
Varianza	341.088
Coefficiente de Varianza	31.15

# Summary Report



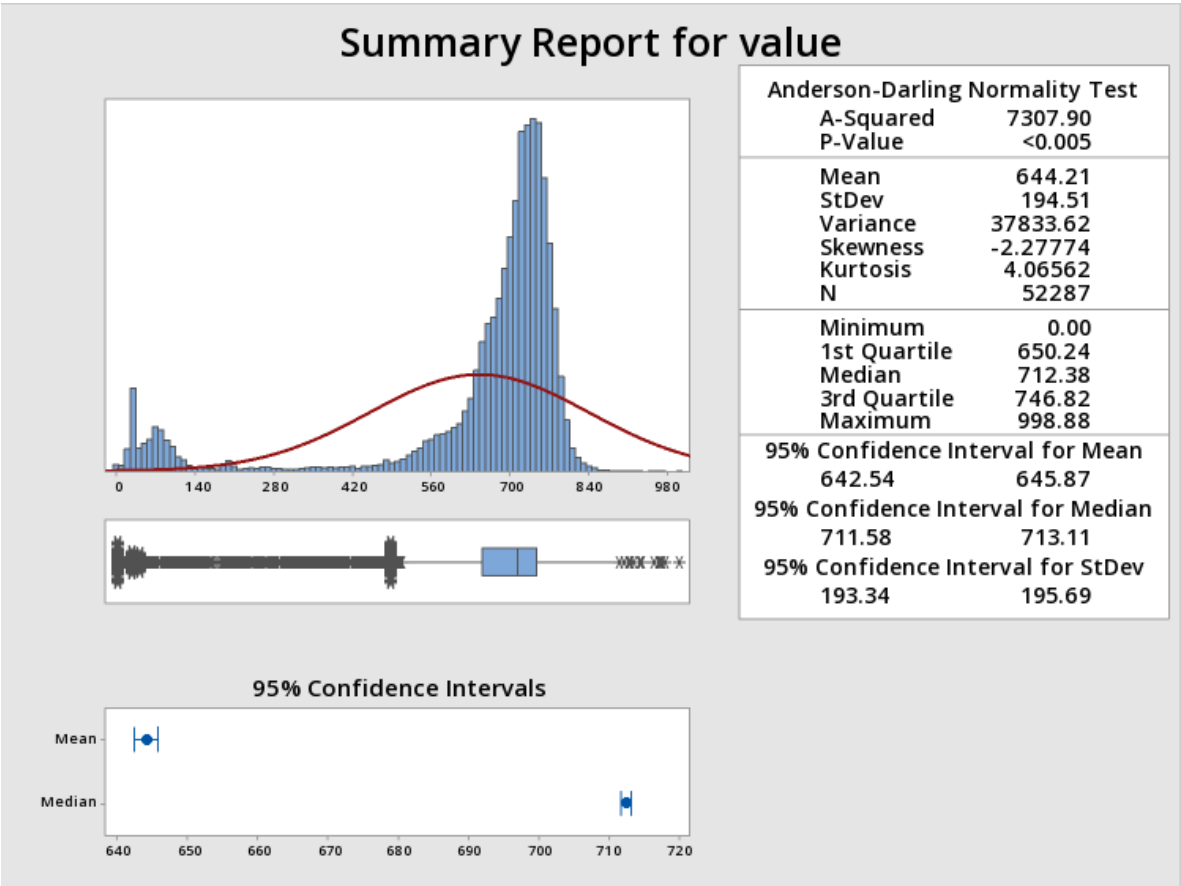
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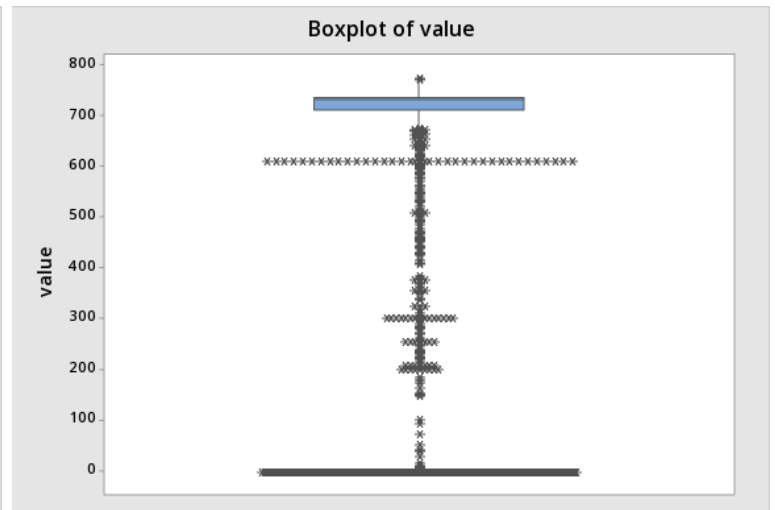
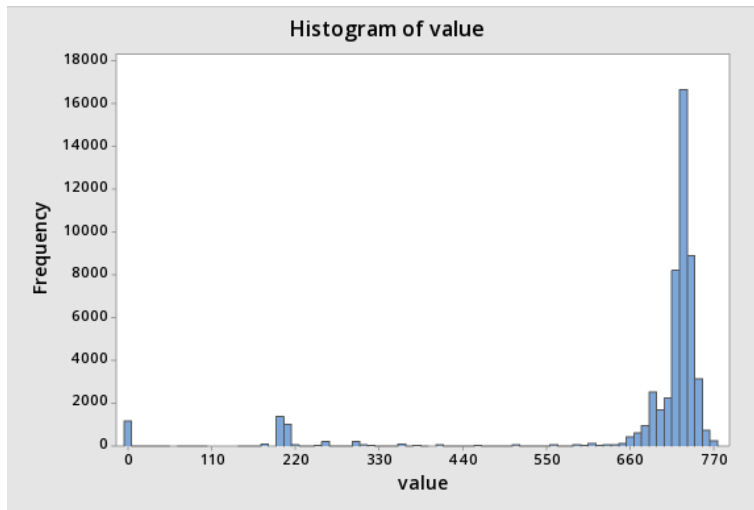
## Estadística Descriptiva

Medidas de tendencia central	
Media	644.21
Mediana	712.38
Moda	
Percentiles	
25	650.24
50	712.38
75	746.82
Medida de forma	
Sesgo	
Curtosis	4.07
Medidas de dispersión	
Mínimo	0.000
Máximo	998.88
Desviación estándar	194.51
Varianza	37833.62
Coeficiente de Varianza	30.19

Summary Report



- ID Fan, SIC5210310

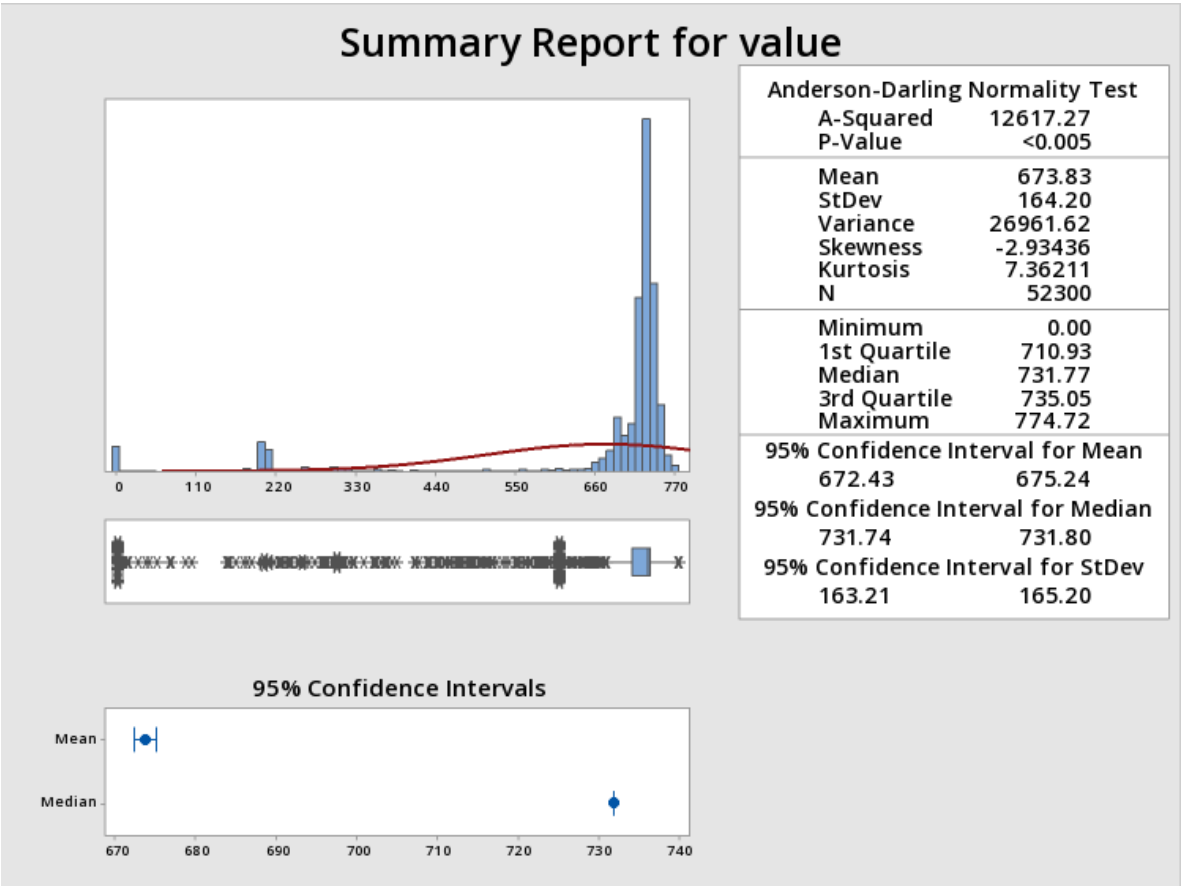


## Estadística Descriptiva

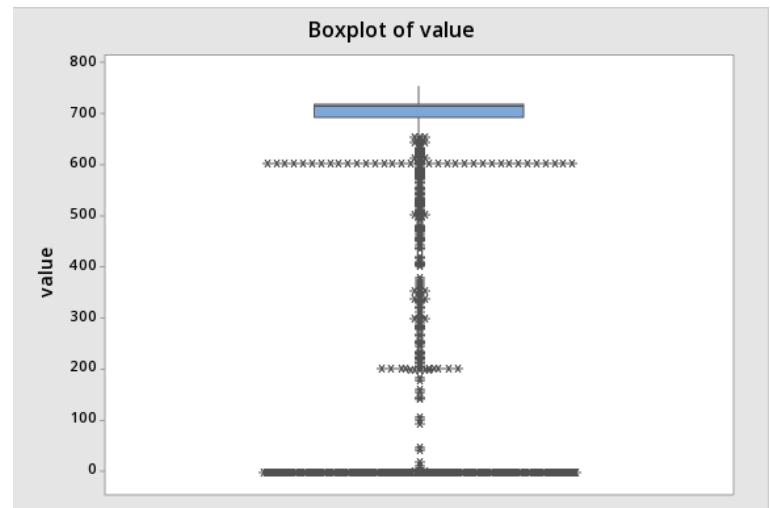
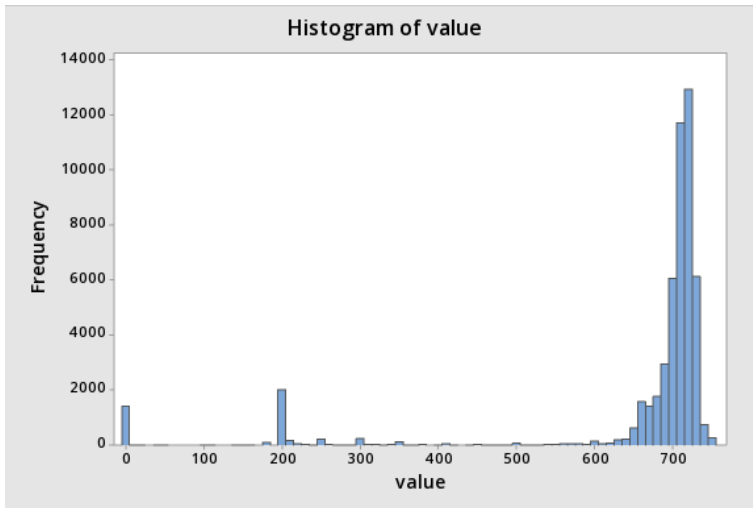
Medidas de tendencia central	
Media	673.83
Mediana	731.77
Moda	
Percentiles	
25	710.93
50	731.77
75	735.05
Medida de forma	
Sesgo	
Curtosis	7.36
Medidas de dispersión	
Mínimo	0.0000
Máximo	774.72
Desviación estándar	164.20
Varianza	26961.62
Coficiente de Varianza	24.37



# Summary Report



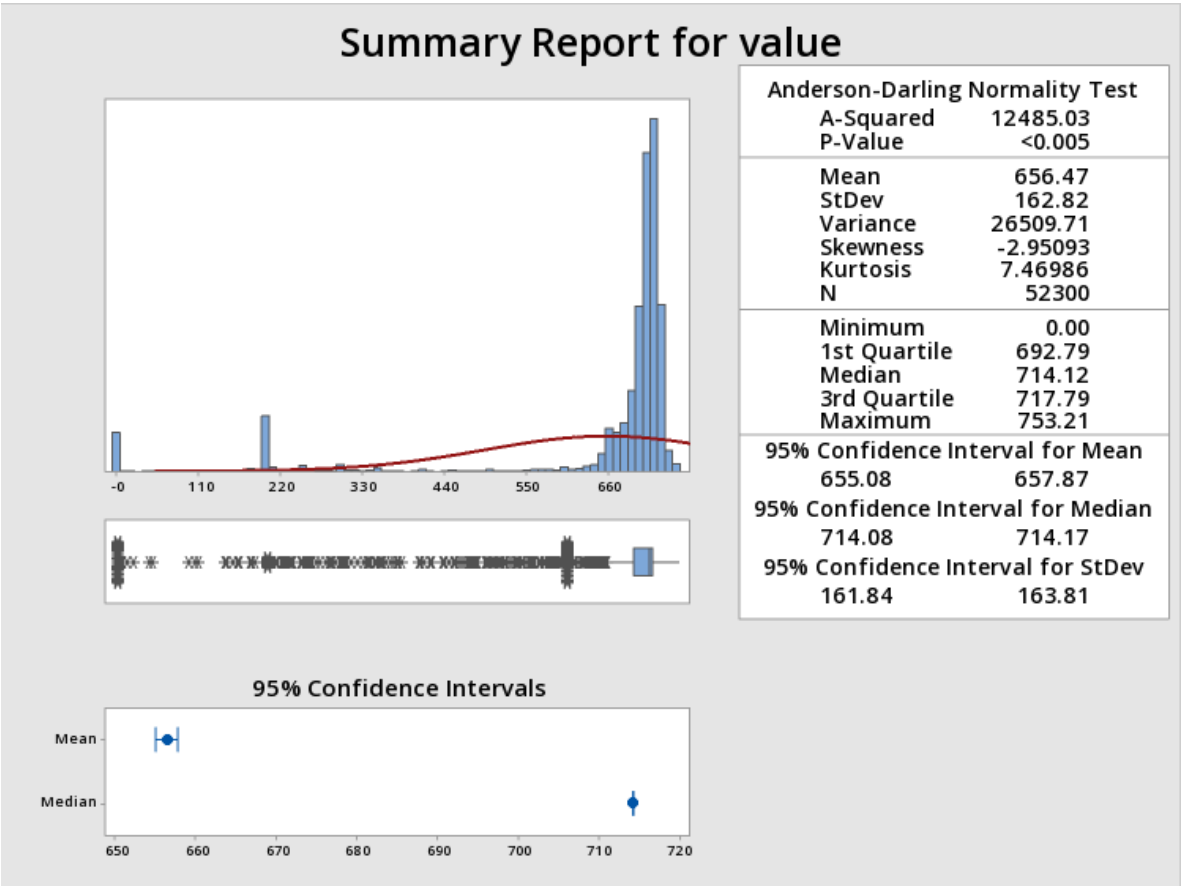
- ID Fan, SIC5210810



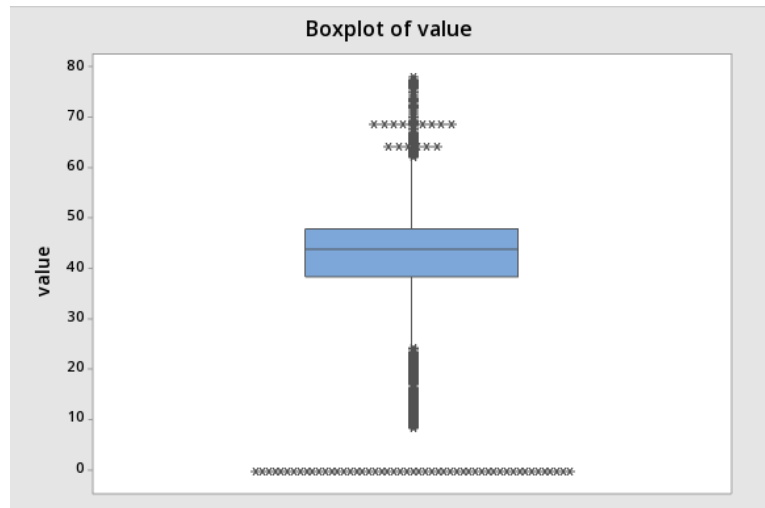
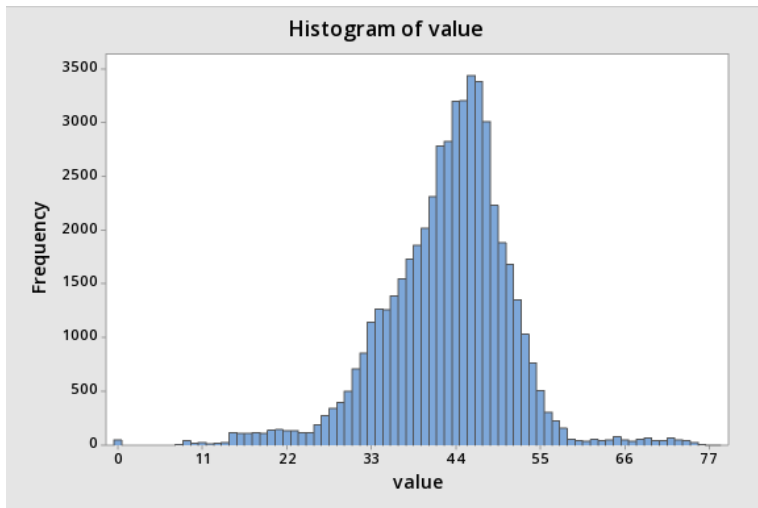
## Estadística Descriptiva

Medidas de tendencia central	
Media	656.47
Mediana	714.12
Moda	
Percentiles	
25	692.79
50	714.12
75	717.79
Medida de forma	
Sesgo	
Curtosis	7.47
Medidas de dispersión	
Mínimo	0.0000
Máximo	753.21
Desviación estándar	162.82
Varianza	26509.71
Coeficiente de Varianza	24.80

# Summary Report



- ID Fan, TI5210710D

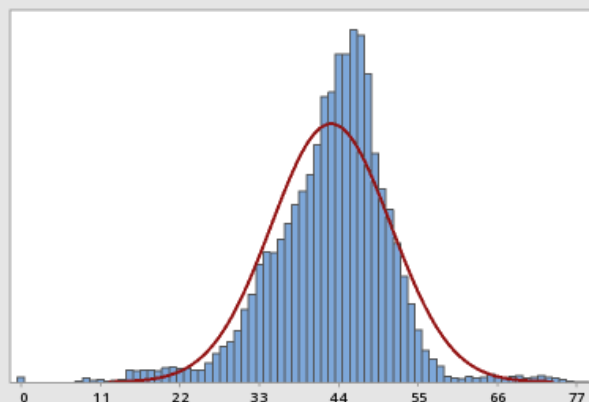


## Estadística Descriptiva

Medidas de tendencia central	
Media	42.867
Mediana	43.865
Moda	
Percentiles	
25	38.416
50	43.865
75	47.804
Medida de forma	
Sesgo	
Curtosis	2.48
Medidas de dispersión	
Mínimo	0.0000
Máximo	77.877
Desviación estándar	8.290
Varianza	68.722
Coeficiente de Varianza	19.34

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared 493.74  
P-Value <0.005

Mean 42.867  
StDev 8.290  
Variance 68.722  
Skewness -0.50511  
Kurtosis 2.47949  
N 52319

Minimum 0.000  
1st Quartile 38.416  
Median 43.865  
3rd Quartile 47.804  
Maximum 77.877

95% Confidence Interval for Mean  
42.796 42.938

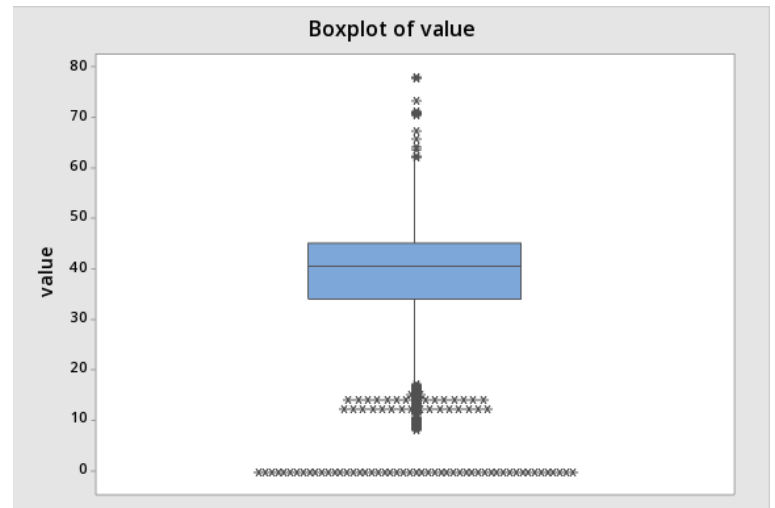
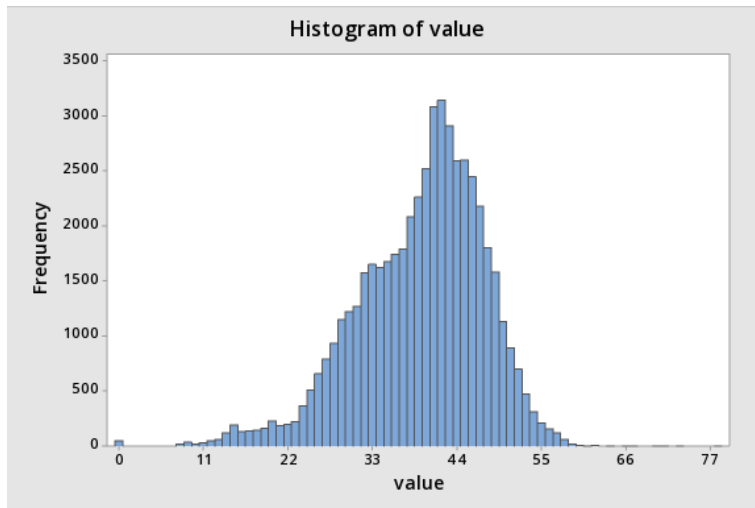
95% Confidence Interval for Median  
43.792 43.929

95% Confidence Interval for StDev  
8.240 8.340

#### 95% Confidence Intervals



- ID Fan, TI5210710E

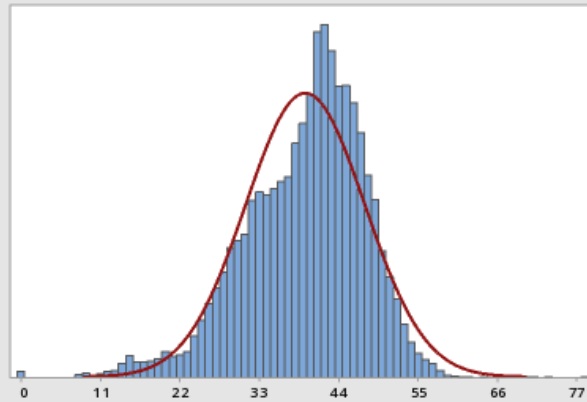


## Estadística Descriptiva

Medidas de tendencia central	
Media	39.295
Mediana	40.604
Moda	
Percentiles	
25	34.070
50	40.604
75	45.141
Medida de forma	
Sesgo	
Curtosis	0.81
Medidas de dispersión	
Mínimo	0.0000
Máximo	77.889
Desviación estándar	8.253
Varianza	68.109
Coficiente de Varianza	21.00

# Summary Report

## Summary Report for value



### 95% Confidence Intervals



### Anderson-Darling Normality Test

A-Squared	337.14
P-Value	<0.005

Mean	39.295
StDev	8.253
Variance	68.109
Skewness	-0.687626
Kurtosis	0.808350
N	52319

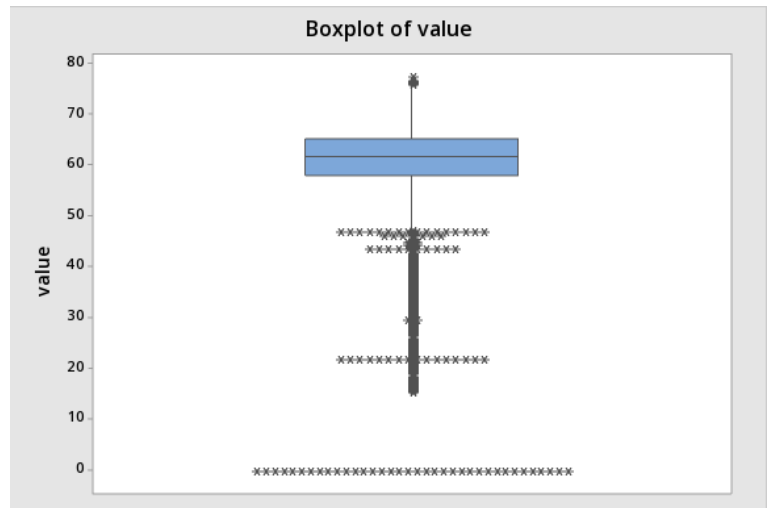
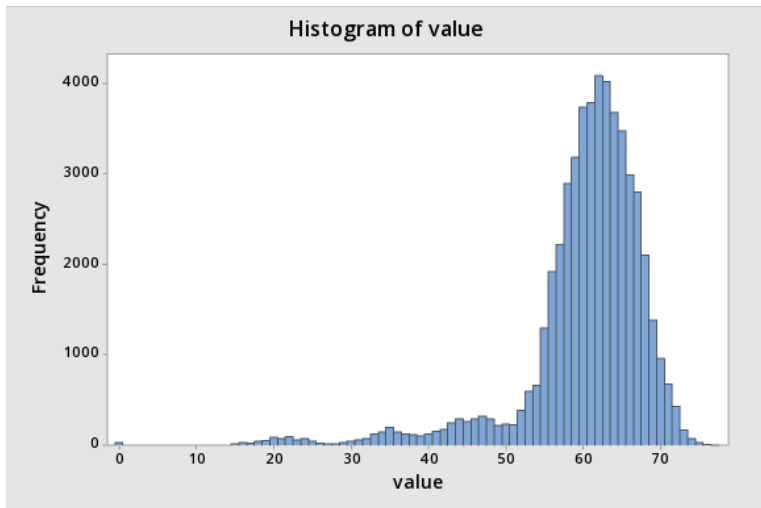
Minimum	0.000
1st Quartile	34.070
Median	40.604
3rd Quartile	45.141
Maximum	77.889

95% Confidence Interval for Mean	
39.224	39.366

95% Confidence Interval for Median	
40.522	40.684

95% Confidence Interval for StDev	
8.203	8.303

- ID Fan, TI5218110

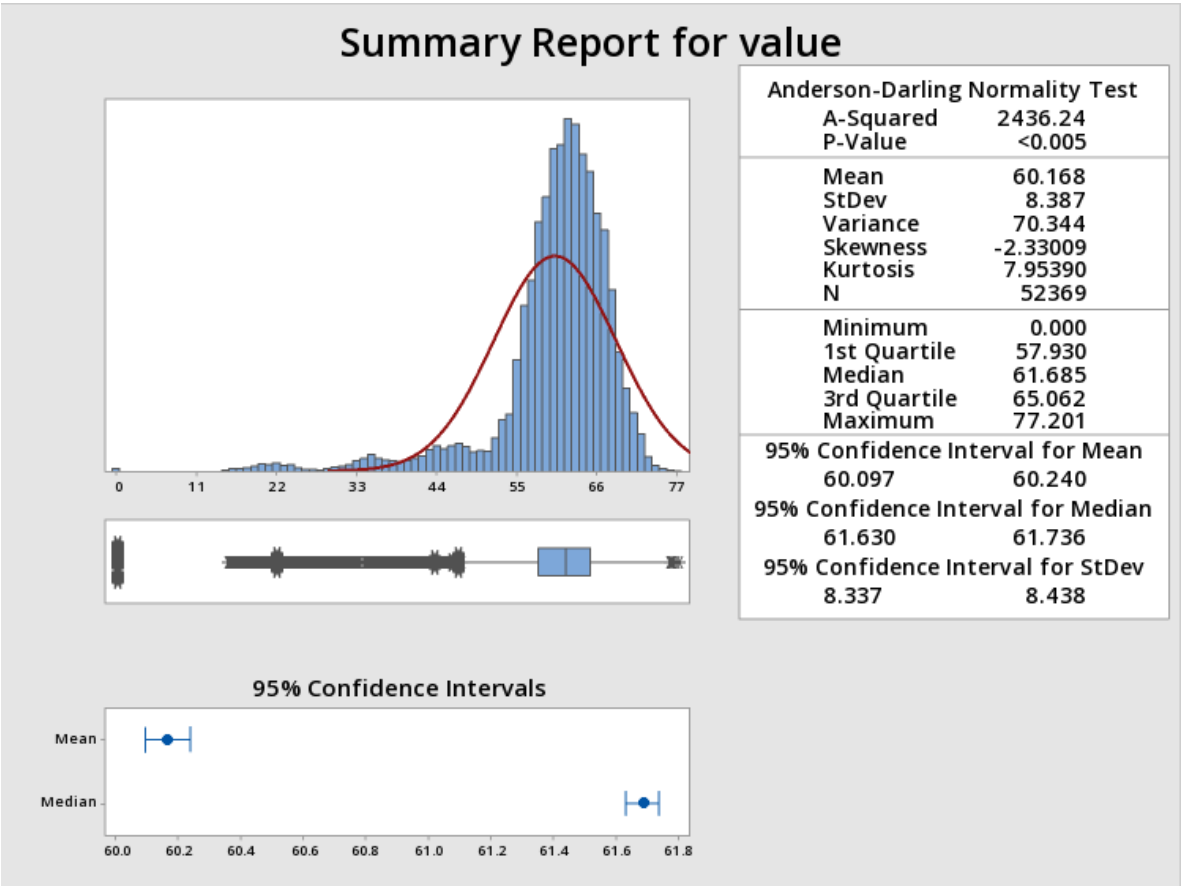


## Estadística Descriptiva

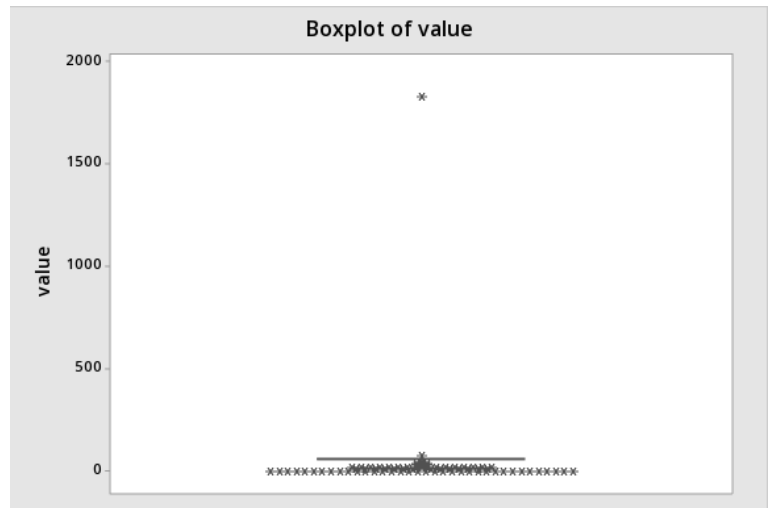
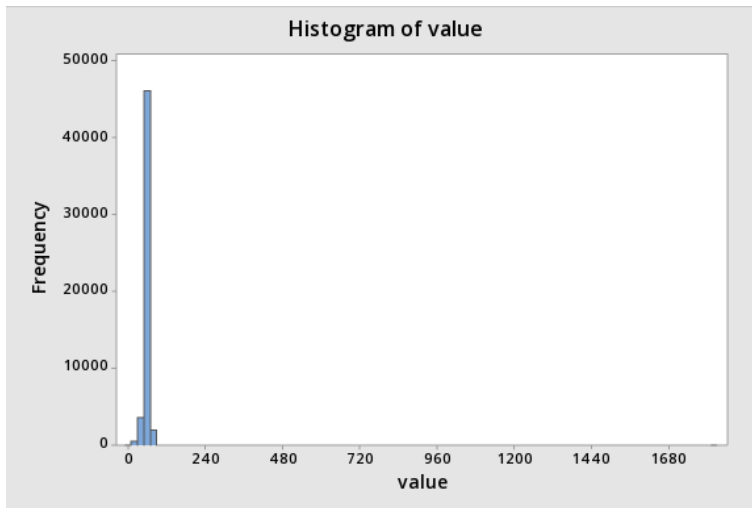
Medidas de tendencia central	
Media	60.168
Mediana	61.685
Moda	
Percentiles	
25	57.930
50	61.685
75	65.062
Medida de forma	
Sesgo	
Curtosis	7.95
Medidas de dispersión	
Mínimo	0.0000
Máximo	77.201
Desviación estándar	8.387
Varianza	70.344
Coficiente de Varianza	13.94



# Summary Report



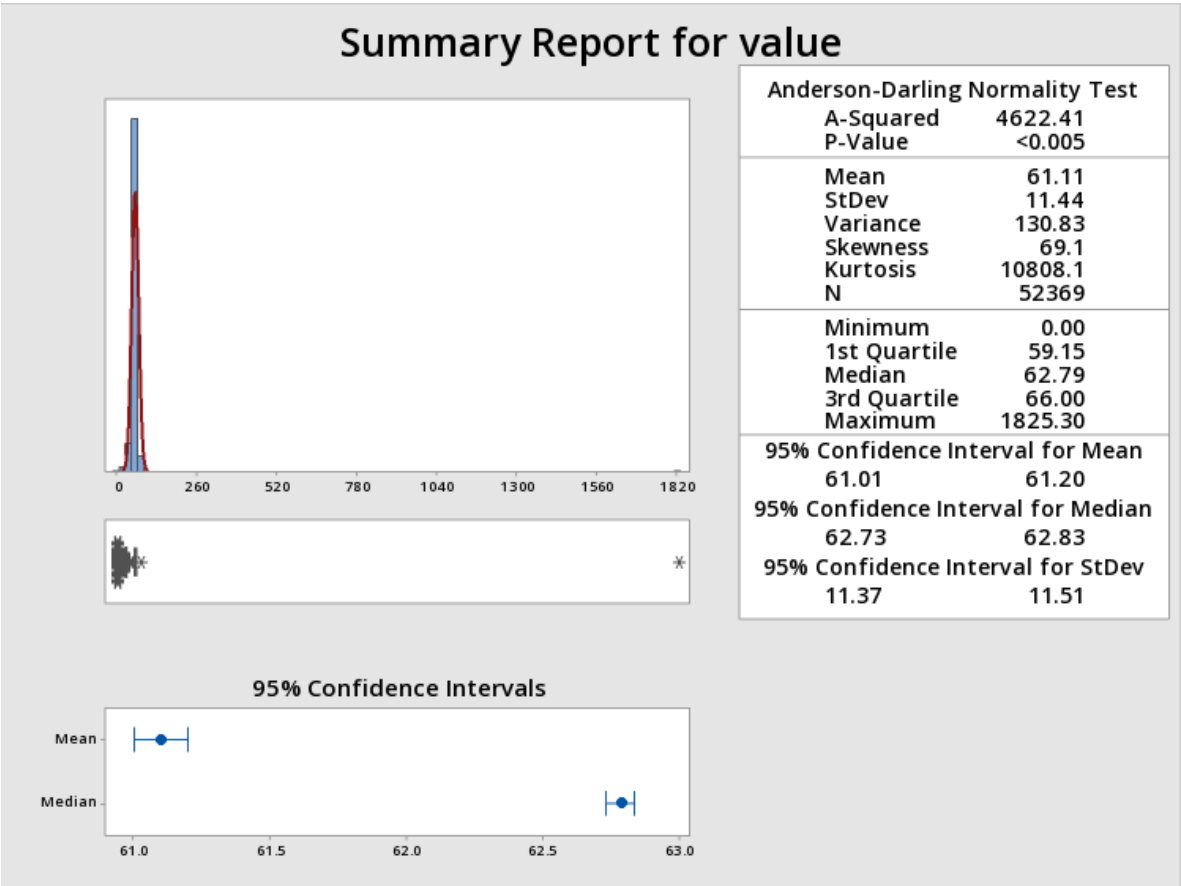
- ID Fan, TI5218210



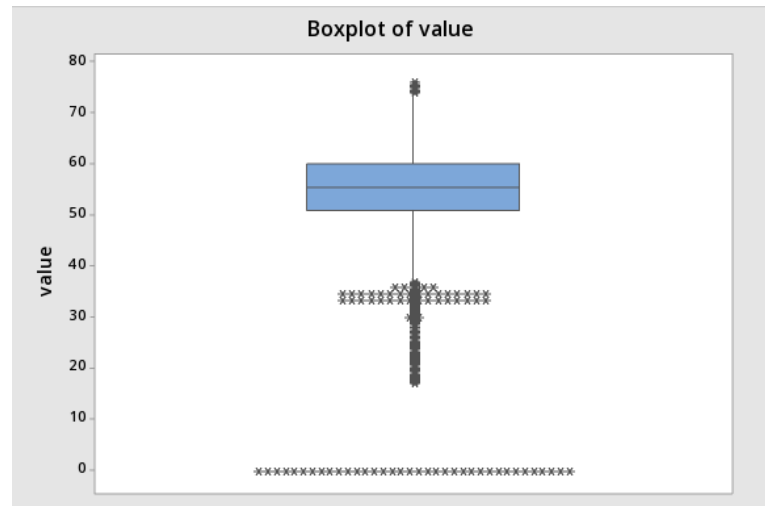
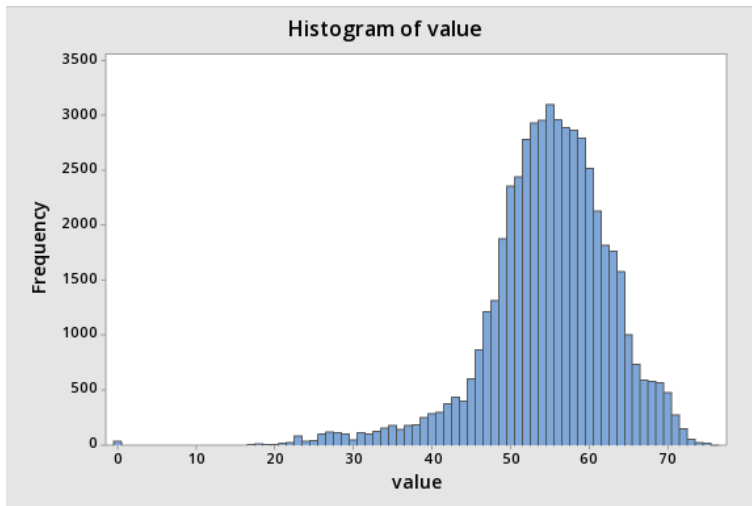
## Estadística Descriptiva

Medidas de tendencia central	
Media	61.11
Mediana	62.79
Moda	
Percentiles	
25	59.15
50	62.79
75	66.00
Medida de forma	
Sesgo	
Curtosis	10808.11
Medidas de dispersión	
Mínimo	0.0000
Máximo	1825.30
Desviación estándar	11.44
Varianza	130.83
Coeficiente de Varianza	18.72

# Summary Report



- ID Fan, TI5218810

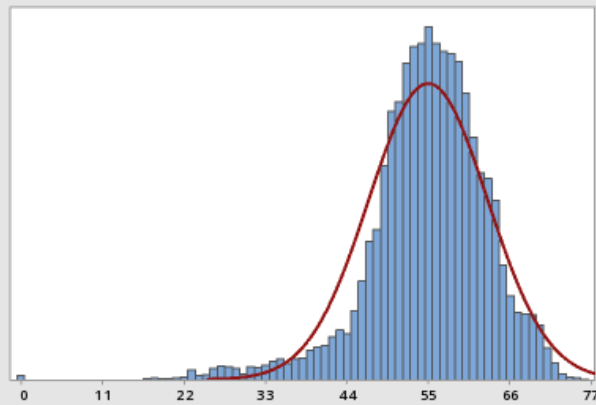


## Estadística Descriptiva

Medidas de tendencia central	
Media	54.885
Mediana	55.391
Moda	
Percentiles	
25	50.817
50	55.391
75	59.962
Medida de forma	
Sesgo	
Curtosis	3.19
Medidas de dispersión	
Mínimo	0.0000
Máximo	75.916
Desviación estándar	8.031
Varianza	64.498
Coeficiente de Varianza	14.63

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared	424.05
P-Value	<0.005

Mean	54.885
StDev	8.031
Variance	64.498
Skewness	-1.03948
Kurtosis	3.19174
N	52369

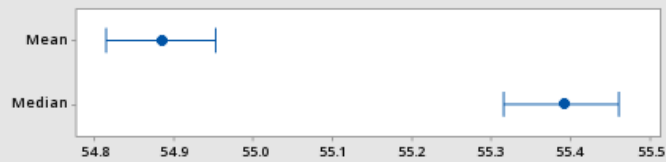
Minimum	0.000
1st Quartile	50.817
Median	55.391
3rd Quartile	59.962
Maximum	75.916

95% Confidence Interval for Mean	
54.816	54.953

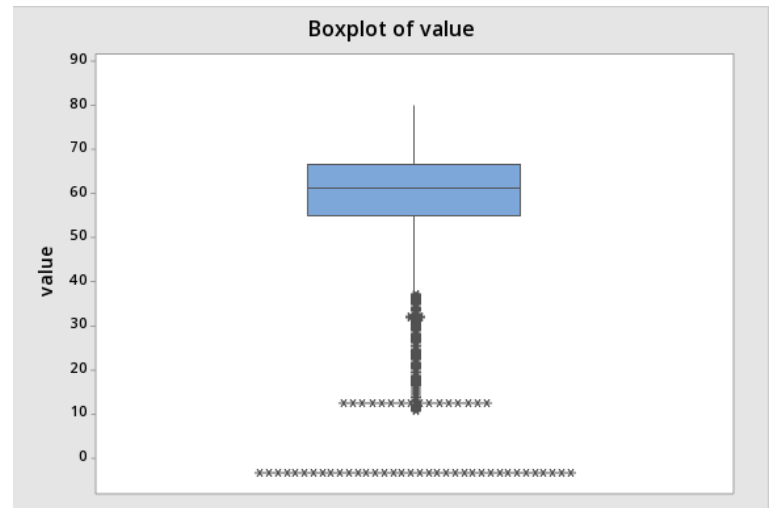
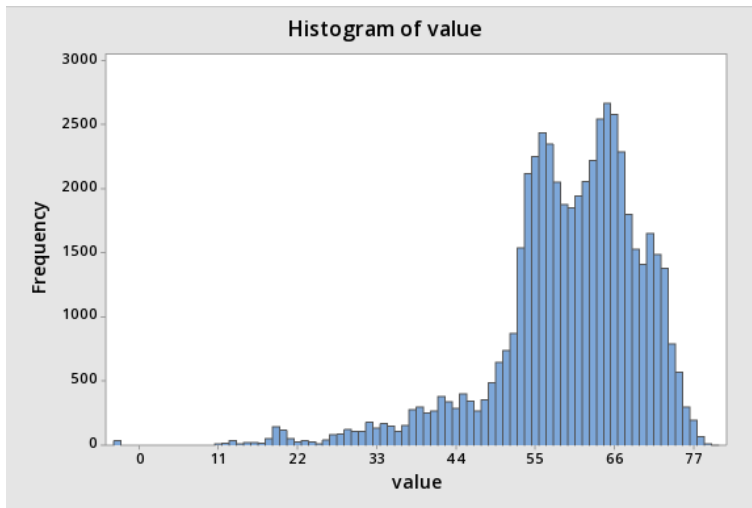
95% Confidence Interval for Median	
55.315	55.460

95% Confidence Interval for StDev	
7.983	8.080

#### 95% Confidence Intervals



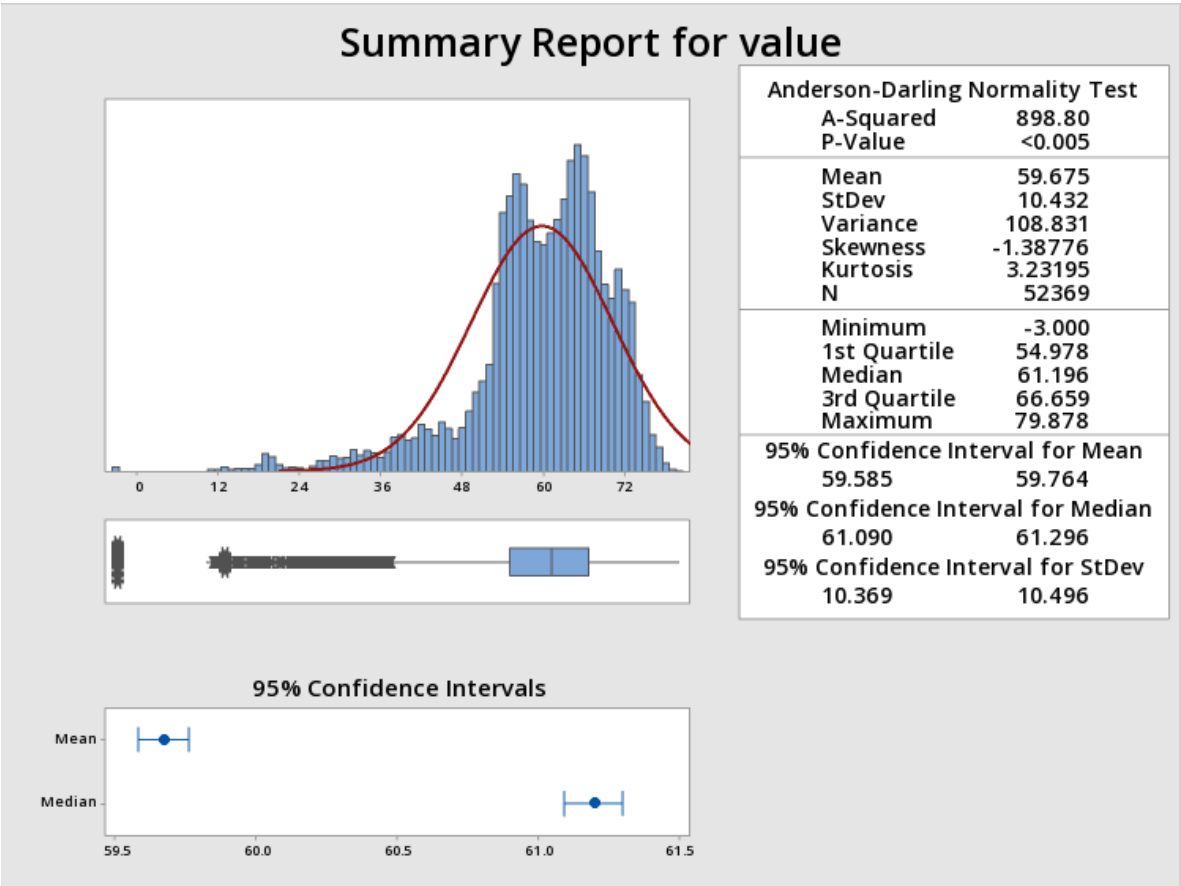
- ID Fan, TI5218910



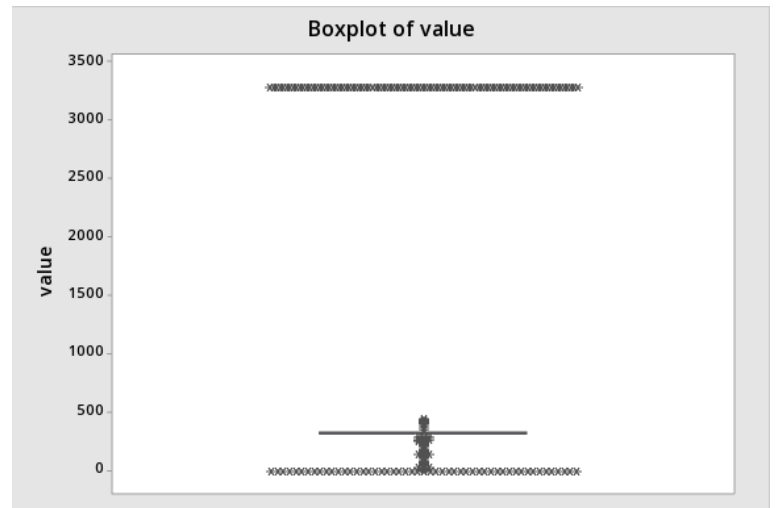
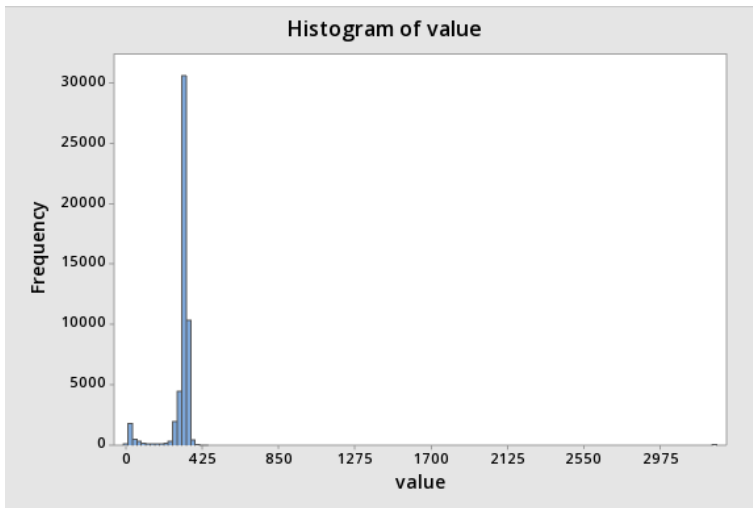
## Estadística Descriptiva

Medidas de tendencia central	
Media	59.675
Mediana	61.196
Moda	
Percentiles	
25	54.978
50	61.196
75	66.659
Medida de forma	
Sesgo	
Curtosis	3.23
Medidas de dispersión	
Mínimo	-3.000
Máximo	79.878
Desviación estándar	10.432
Varianza	108.831
Coficiente de Varianza	17.48

Summary Report



○ ID Fan, TI5310410

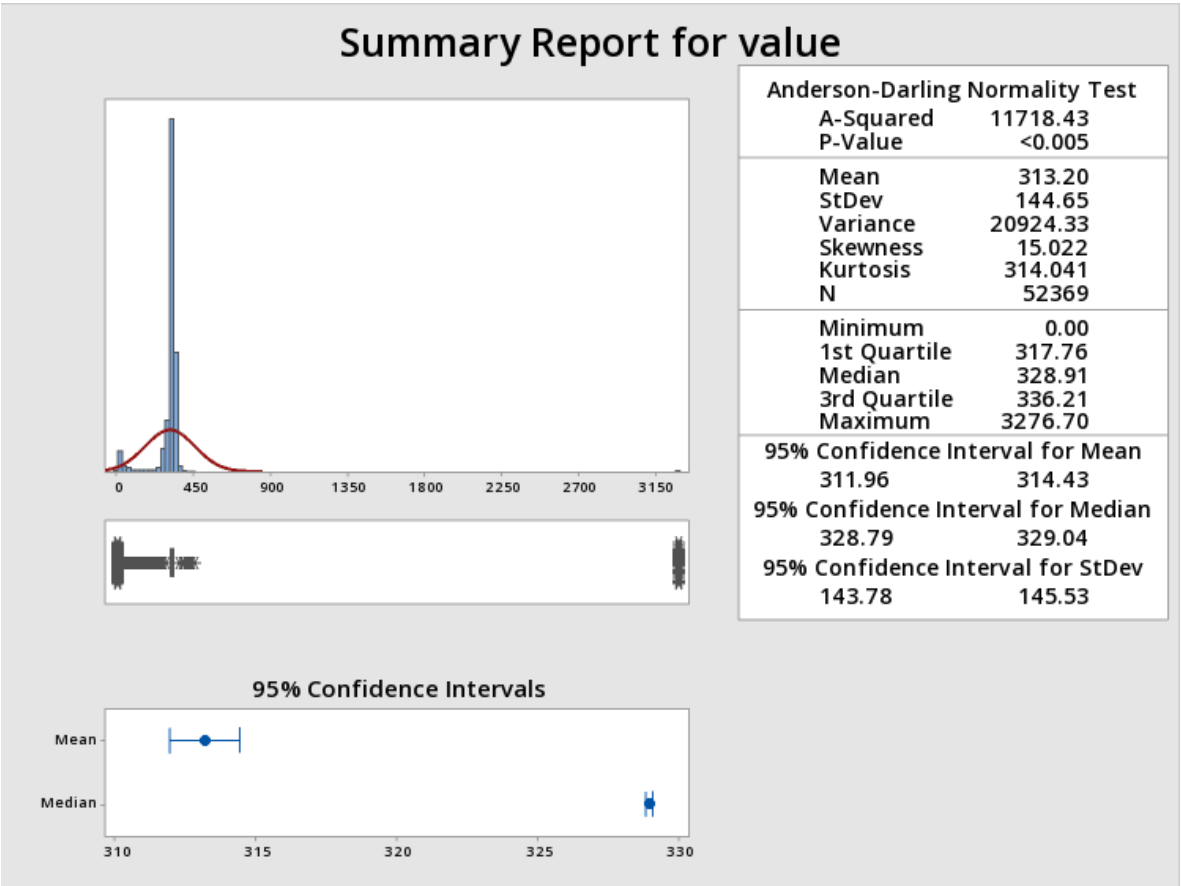


## Estadística Descriptiva

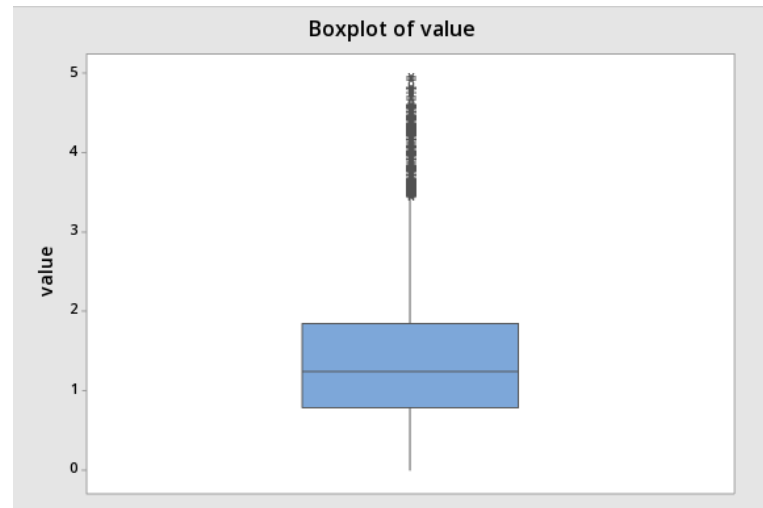
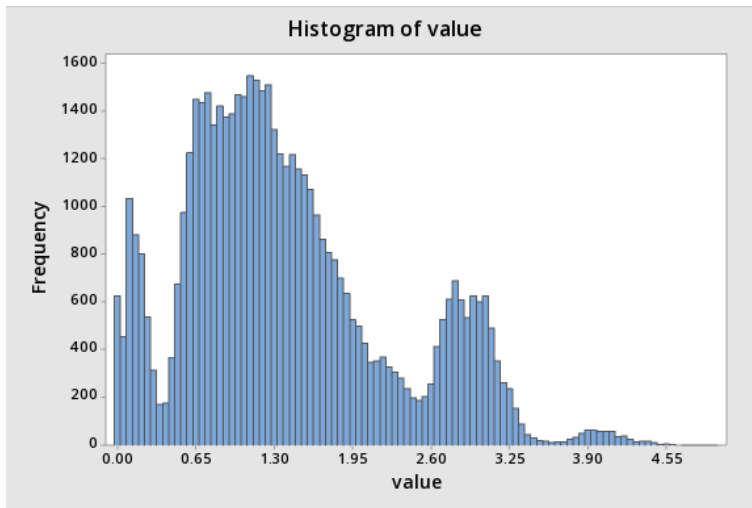
Medidas de tendencia central	
Media	313.20
Mediana	328.91
Moda	
Percentiles	
25	317.76
50	328.91
75	336.21
Medida de forma	
Sesgo	
Curtosis	314.04
Medidas de dispersión	
Mínimo	0.0000
Máximo	3276.70
Desviación estándar	144.65
Varianza	20924.33
Coeficiente de Varianza	46.19



Summary Report



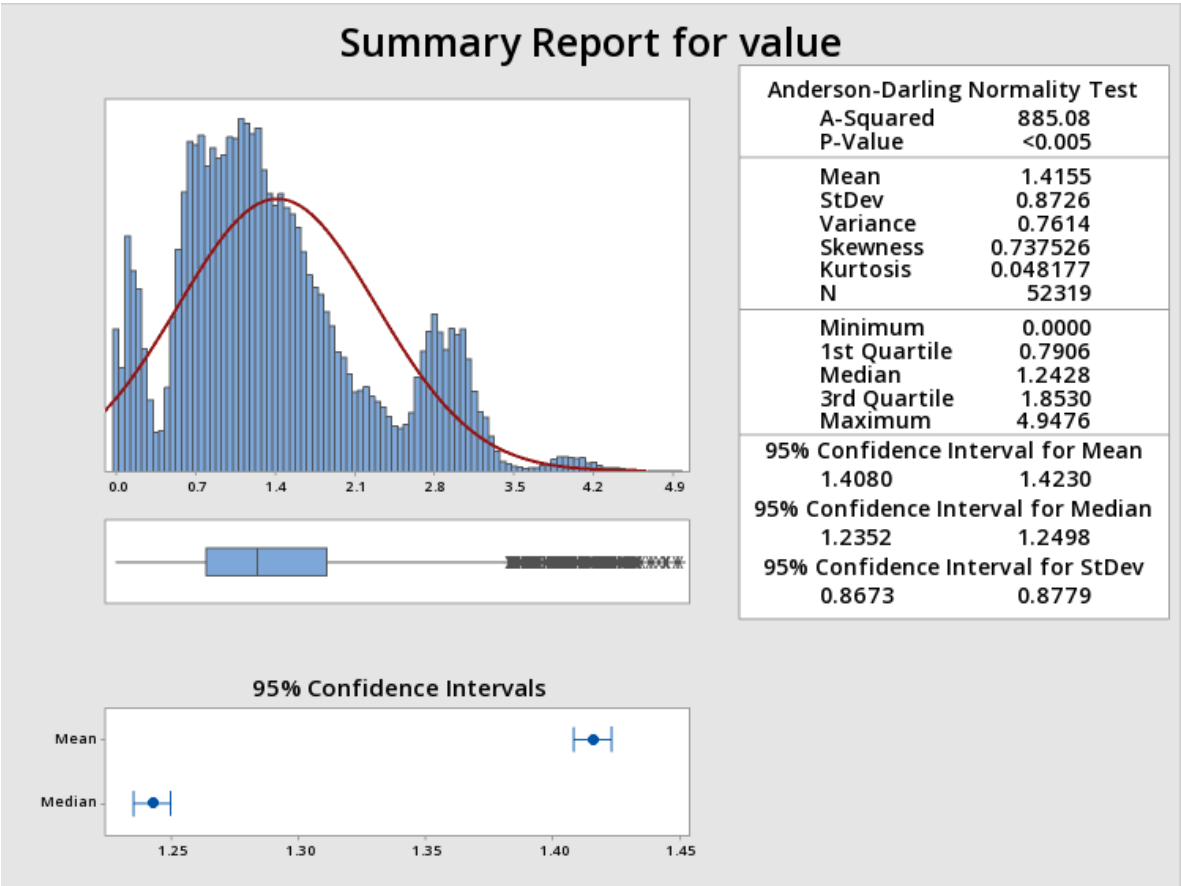
○ ID Fan, VI5213110



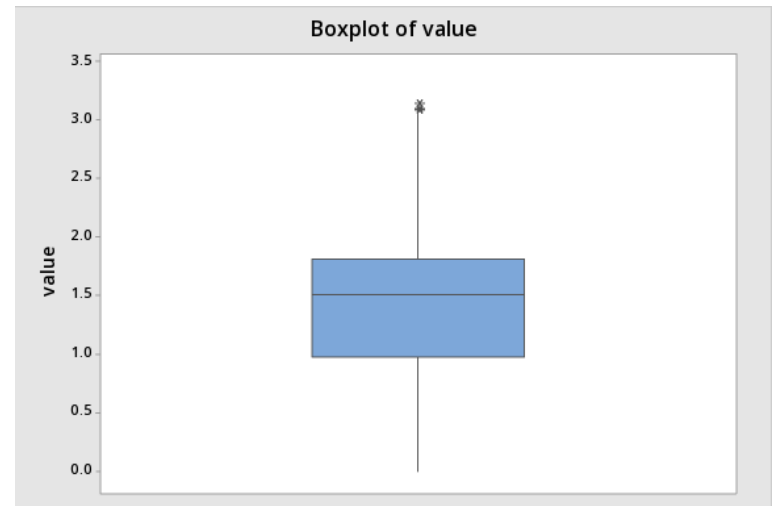
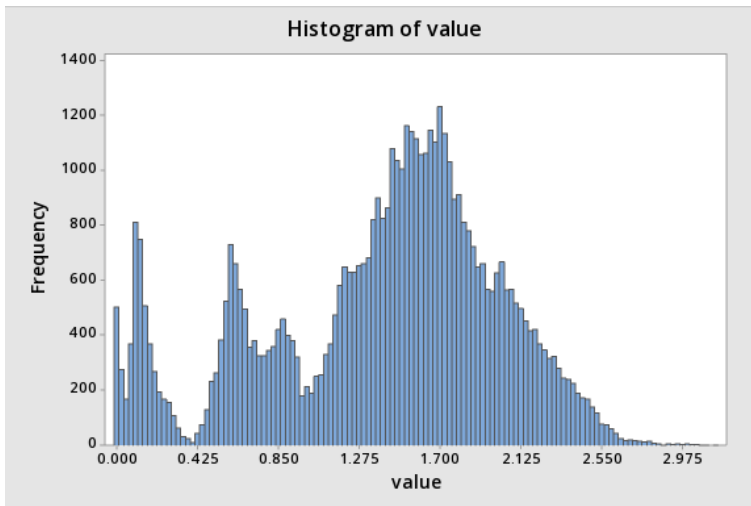
## Estadística Descriptiva

Medidas de tendencia central	
Media	1.4155
Mediana	1.2428
Moda	
Percentiles	
25	0.7906
50	1.2428
75	1.8530
Medida de forma	
Sesgo	
Curtosis	0.05
Medidas de dispersión	
Mínimo	0.0000
Máximo	4.9476
Desviación estándar	0.8726
Varianza	0.7614
Coeficiente de Varianza	61.64

# Summary Report



- ID Fan, VI5218110

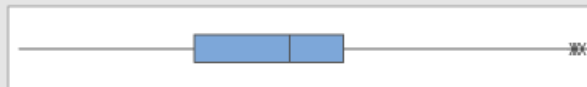
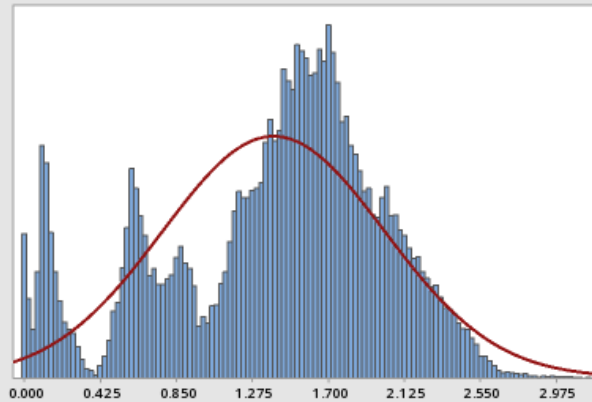


## Estadística Descriptiva

Medidas de tendencia central	
Media	1.3915
Mediana	1.5103
Moda	
Percentiles	
25	0.9767
50	1.5103
75	1.8120
Medida de forma	
Sesgo	
Curtosis	-0.38
Medidas de dispersión	
Mínimo	0.0000
Máximo	3.1419
Desviación estándar	0.6197
Varianza	0.3841
Coeficiente de Varianza	44.53

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared	696.60
P-Value	<0.005

Mean	1.3915
StDev	0.6197
Variance	0.3841
Skewness	-0.515602
Kurtosis	-0.382666
N	52319

Minimum	0.0000
1st Quartile	0.9767
Median	1.5103
3rd Quartile	1.8120
Maximum	3.1419

95% Confidence Interval for Mean	
1.3862	1.3969

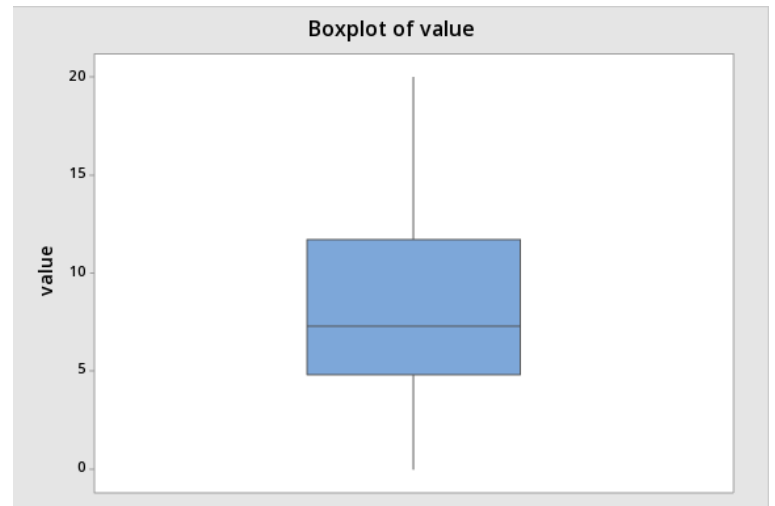
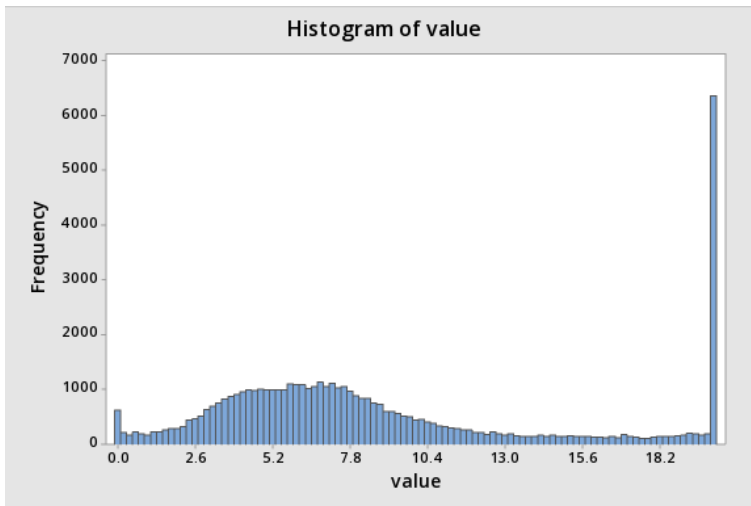
95% Confidence Interval for Median	
1.5047	1.5150

95% Confidence Interval for StDev	
0.6160	0.6235

#### 95% Confidence Intervals



- Fuel Doser, AI52101A10



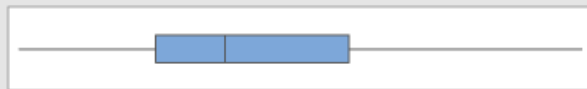
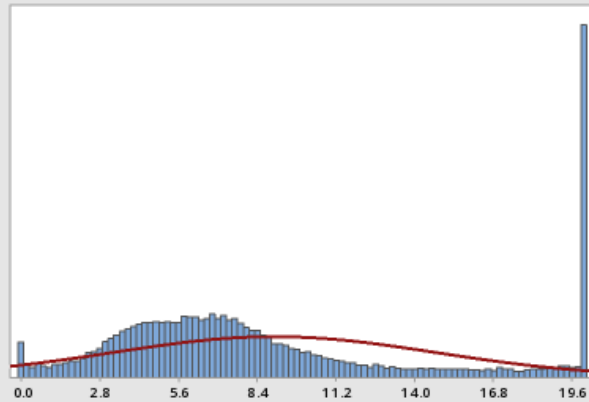
○

## Estadística Descriptiva

Medidas de tendencia central	
Media	8.9840
Mediana	7.3225
Moda	
Percentiles	
25	4.8433
50	7.3225
75	11.7178
Medida de forma	
Sesgo	
Curtosis	-0.51
Medidas de dispersión	
Mínimo	0.0000
Máximo	20.0000
Desviación estándar	5.7391
Varianza	32.9369
Coeficiente de Varianza	63.88

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared	2157.21
P-Value	<0.005

Mean	8.9840
StDev	5.7391
Variance	32.9369
Skewness	0.787868
Kurtosis	-0.507625
N	52367

Minimum	0.0000
1st Quartile	4.8433
Median	7.3225
3rd Quartile	11.7178
Maximum	20.0000

95% Confidence Interval for Mean	
8.9348	9.0332

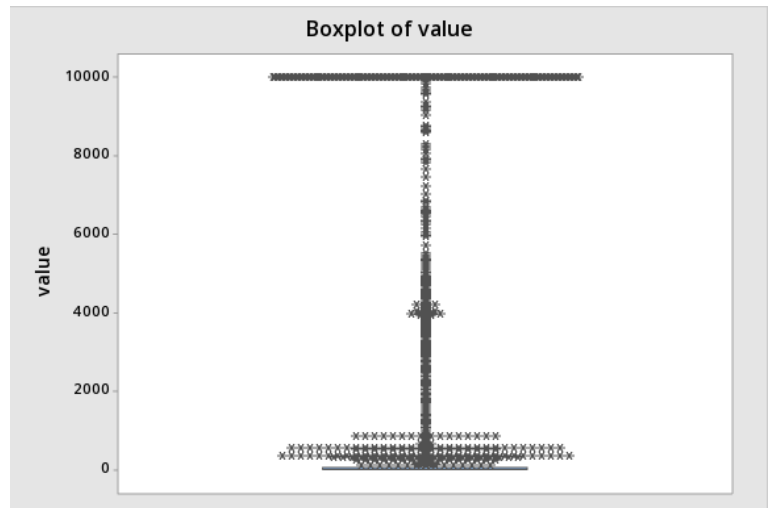
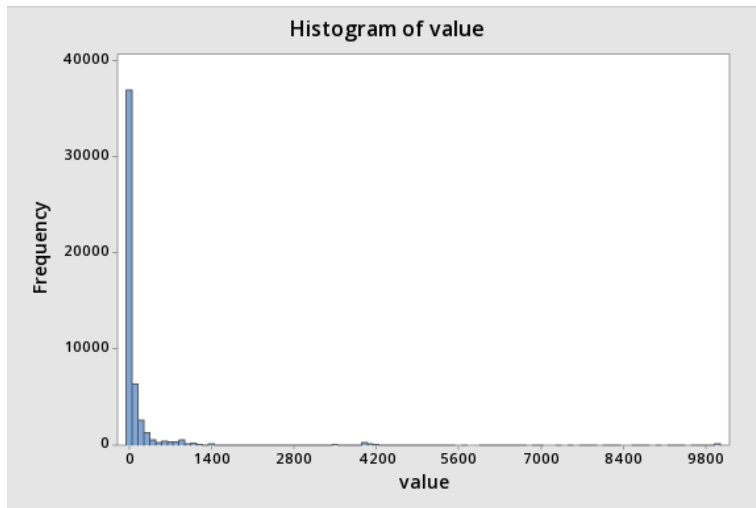
95% Confidence Interval for Median	
7.2817	7.3714

95% Confidence Interval for StDev	
5.7045	5.7740

#### 95% Confidence Intervals



- Fuel Doser, AI52101B10

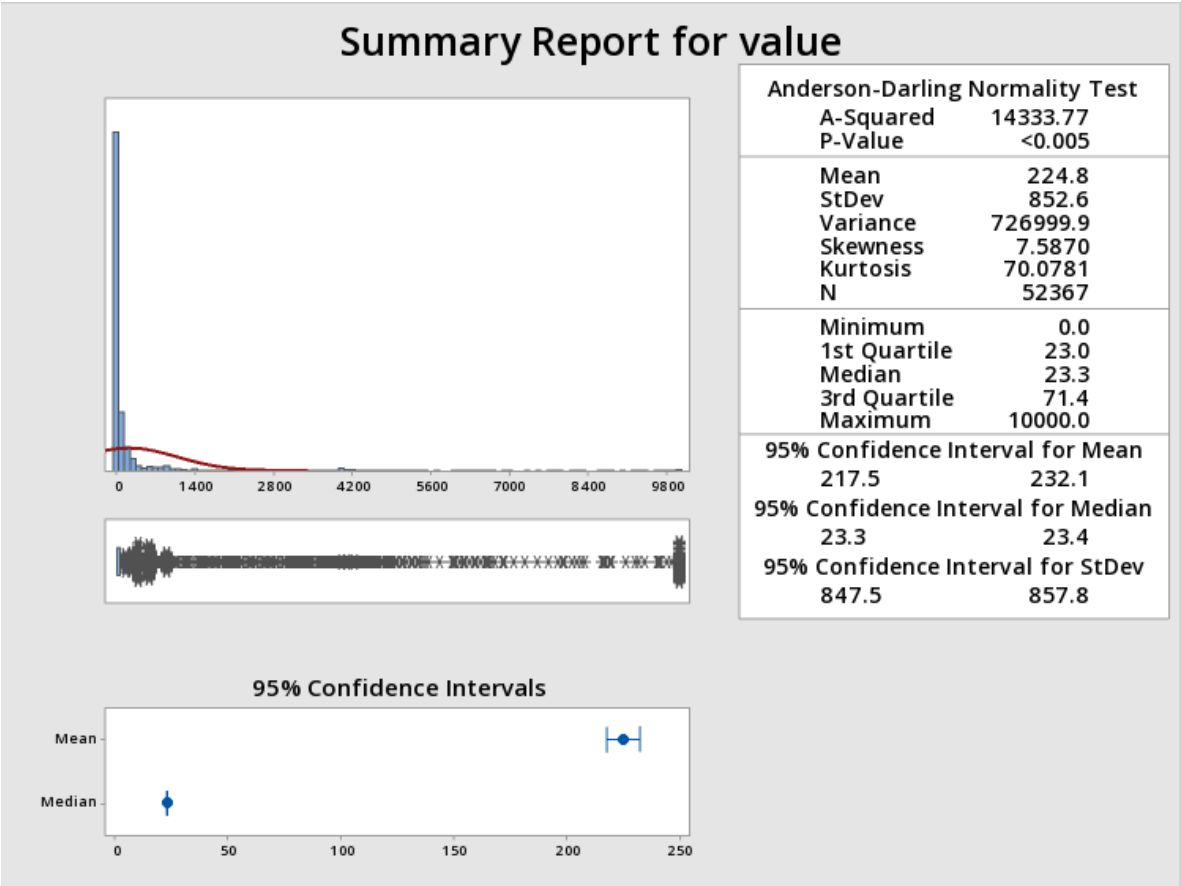


## Estadística Descriptiva

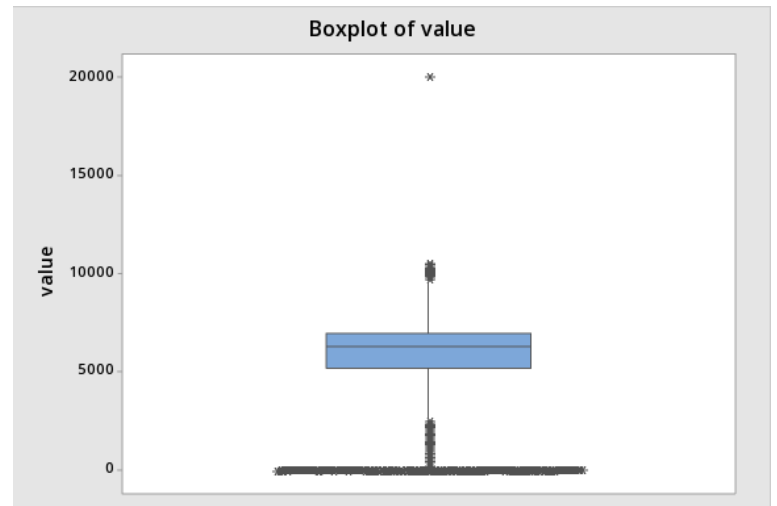
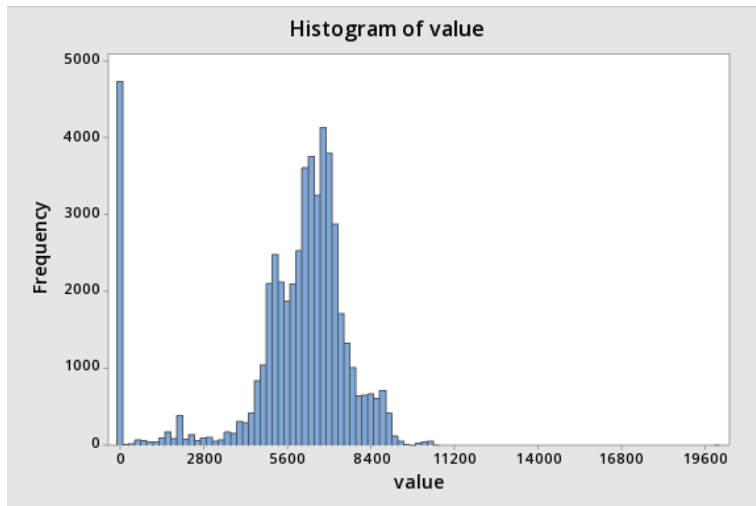
Medidas de tendencia central	
Media	224.8
Mediana	23.3
Moda	
Percentiles	
25	23.0
50	23.3
75	71.4
Medida de forma	
Sesgo	
Curtosis	70.08
Medidas de dispersión	
Mínimo	0.00
Máximo	10000.0
Desviación estándar	852.6
Varianza	726999.9
Coeficiente de Varianza	379.27



Summary Report



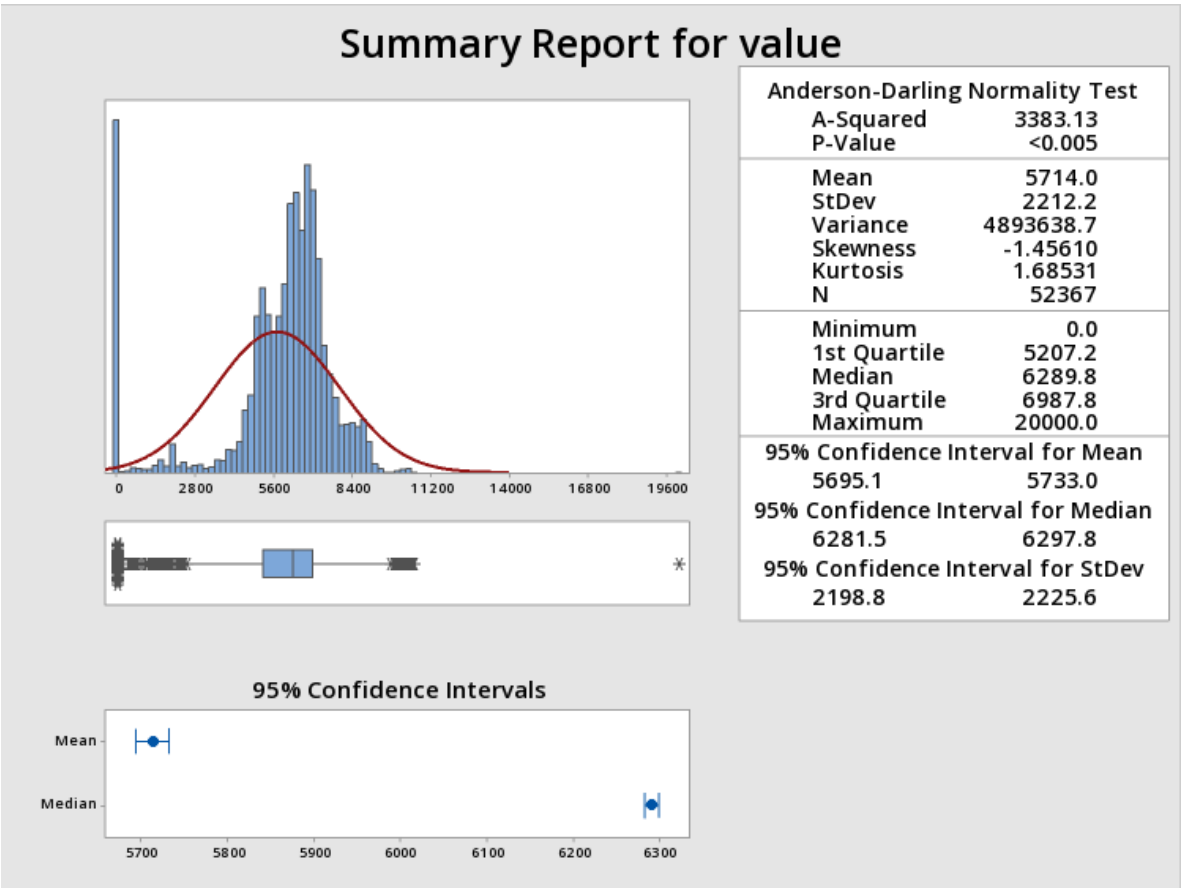
- Fuel Doser, FI8810810



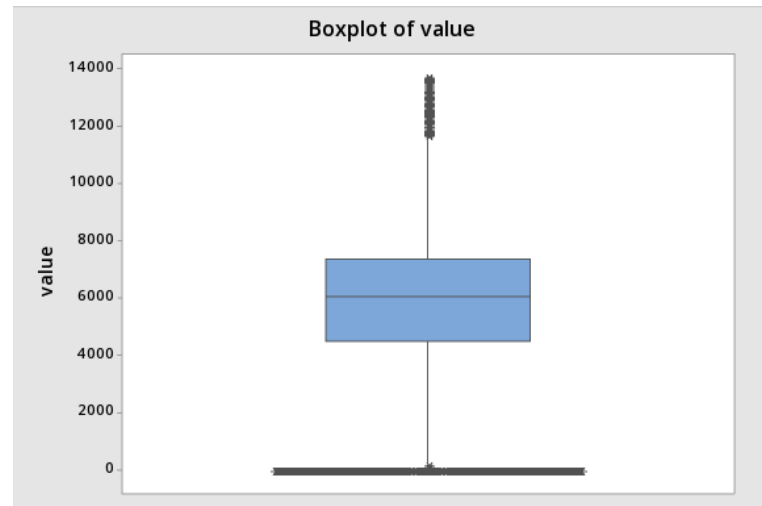
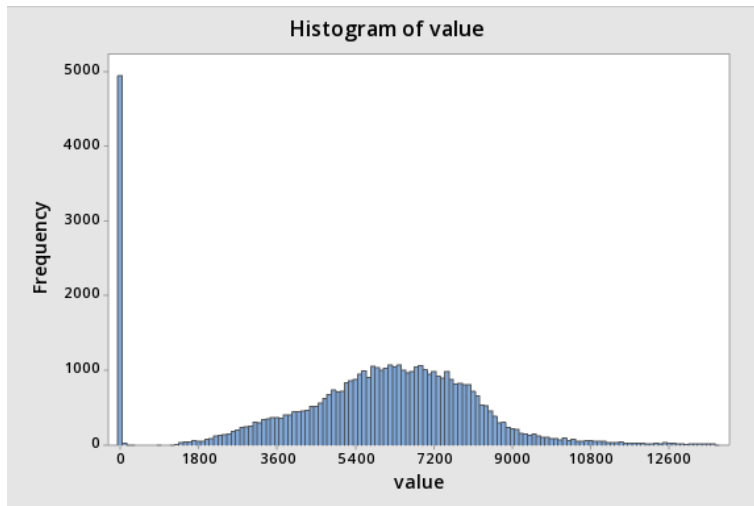
## Estadística Descriptiva

Medidas de tendencia central	
Media	5714.0
Mediana	6289.8
Moda	
Percentiles	
25	5207.2
50	6289.8
75	6987.8
Medida de forma	
Sesgo	
Curtosis	1.69
Medidas de dispersión	
Mínimo	0.00
Máximo	20000.0
Desviación estándar	2212.2
Varianza	4893638.7
Coeficiente de Varianza	38.71

# Summary Report



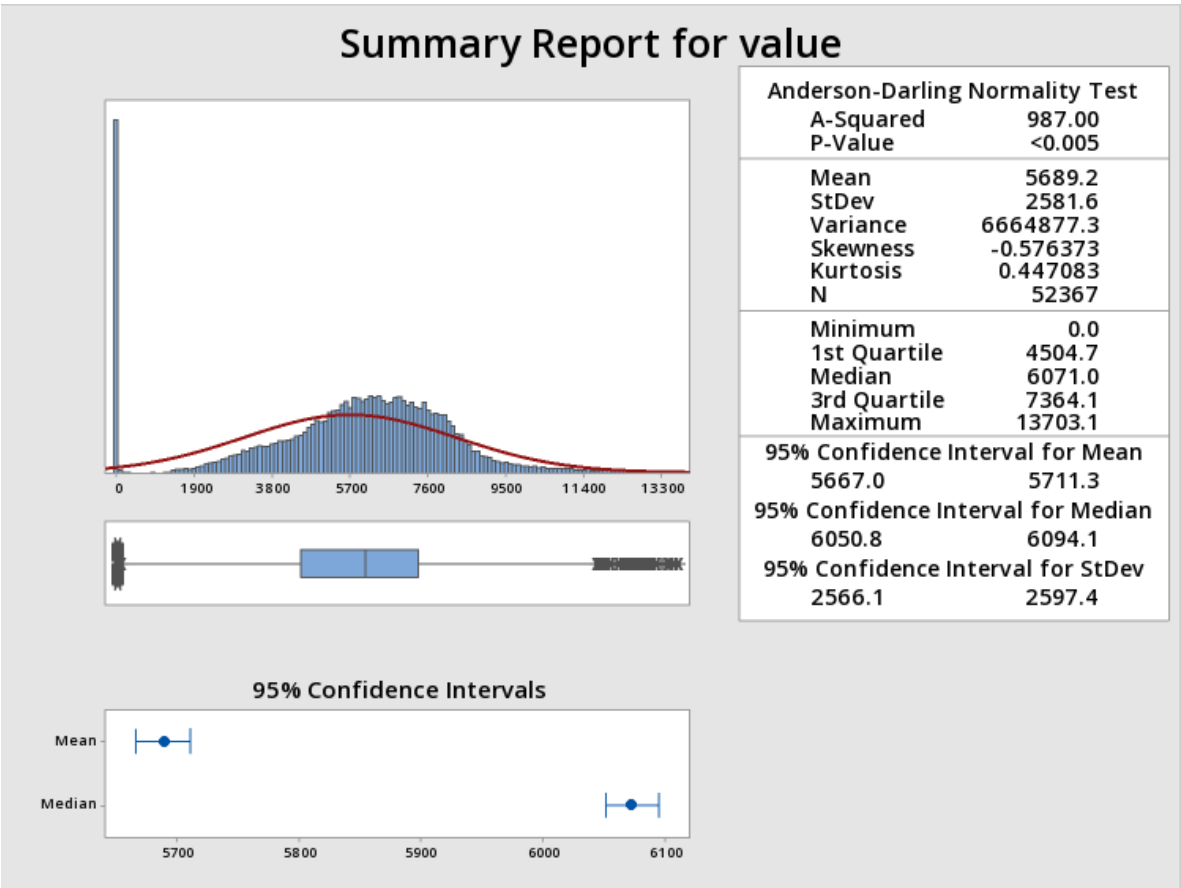
- Fuel Doser, FI8811010



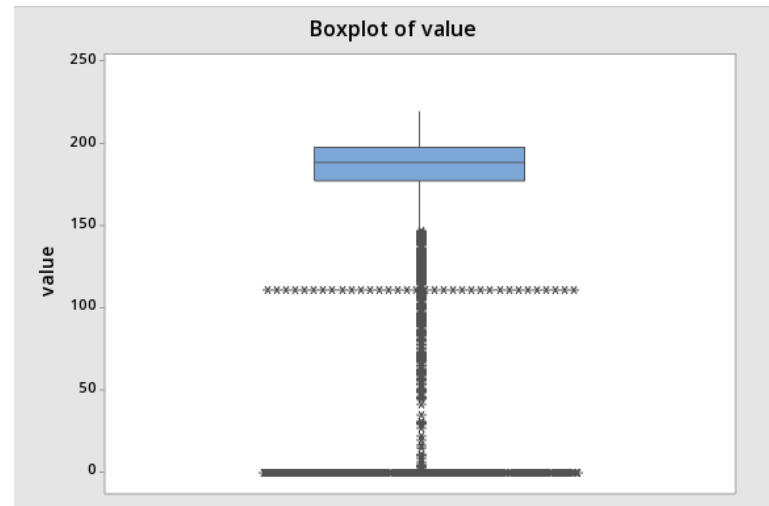
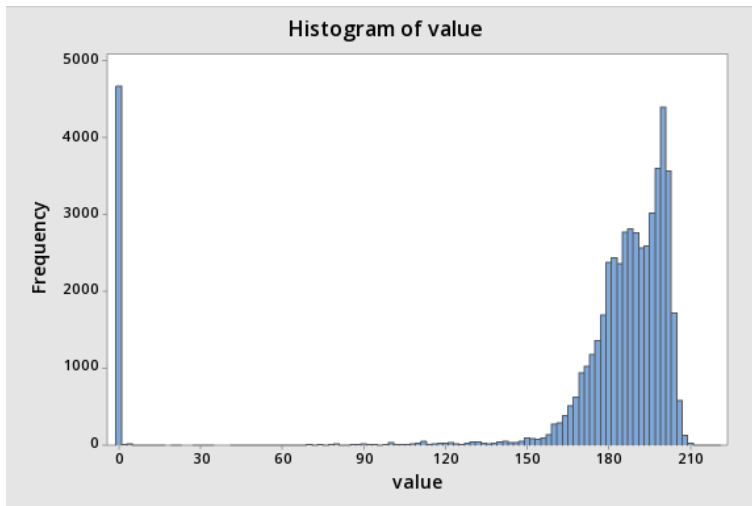
## Estadística Descriptiva

Medidas de tendencia central	
Media	5689.2
Mediana	6071.0
Moda	
Percentiles	
25	4504.7
50	6071.0
75	7364.1
Medida de forma	
Sesgo	
Curtosis	0.45
Medidas de dispersión	
Mínimo	0.0
Máximo	13703.1
Desviación estándar	2581.6
Varianza	6664877.3
Coeficiente de Varianza	45.38

Summary Report



- Fuel Doser, FIC5200410

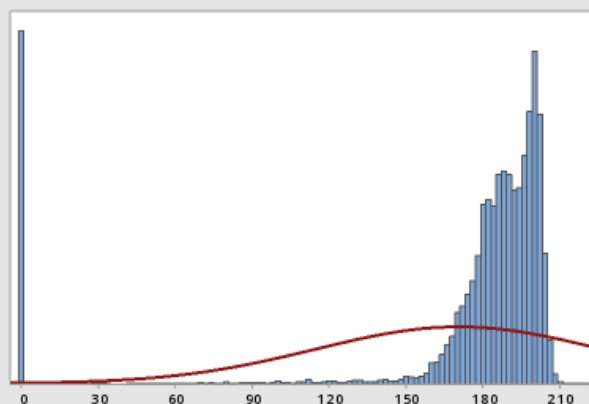


## Estadística Descriptiva

Medidas de tendencia central	
Media	170.39
Mediana	188.17
Moda	
Percentiles	
25	177.27
50	188.17
75	197.59
Medida de forma	
Sesgo	
Curtosis	4.98
Medidas de dispersión	
Mínimo	0.000
Máximo	219.16
Desviación estándar	55.67
Varianza	3099.05
Coeficiente de Varianza	32.67

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared 10057.94  
P-Value <0.005

Mean 170.39  
StDev 55.67  
Variance 3099.05  
Skewness -2.54910  
Kurtosis 4.97614  
N 52348

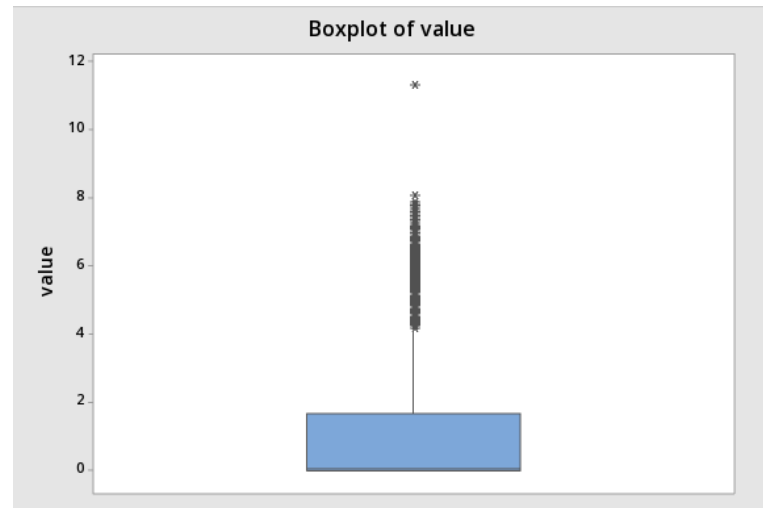
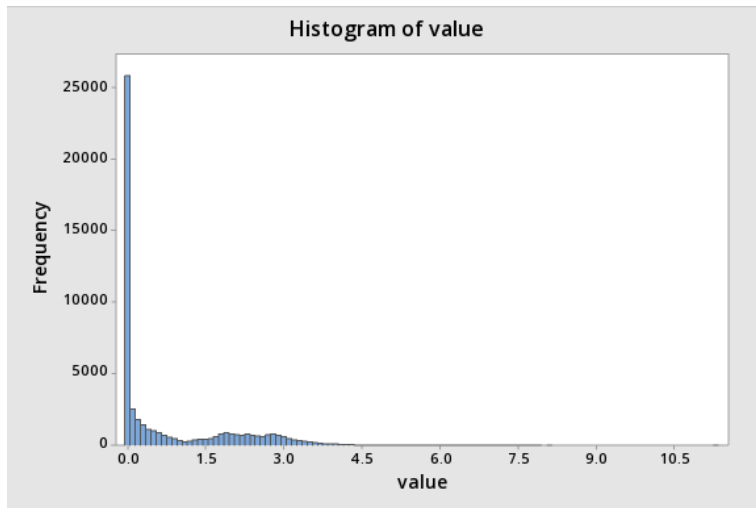
Minimum 0.00  
1st Quartile 177.27  
Median 188.17  
3rd Quartile 197.59  
Maximum 219.16

95% Confidence Interval for Mean  
169.91 170.87  
95% Confidence Interval for Median  
187.99 188.36  
95% Confidence Interval for StDev  
55.33 56.01

#### 95% Confidence Intervals



- Fuel Doser, FIC8914410

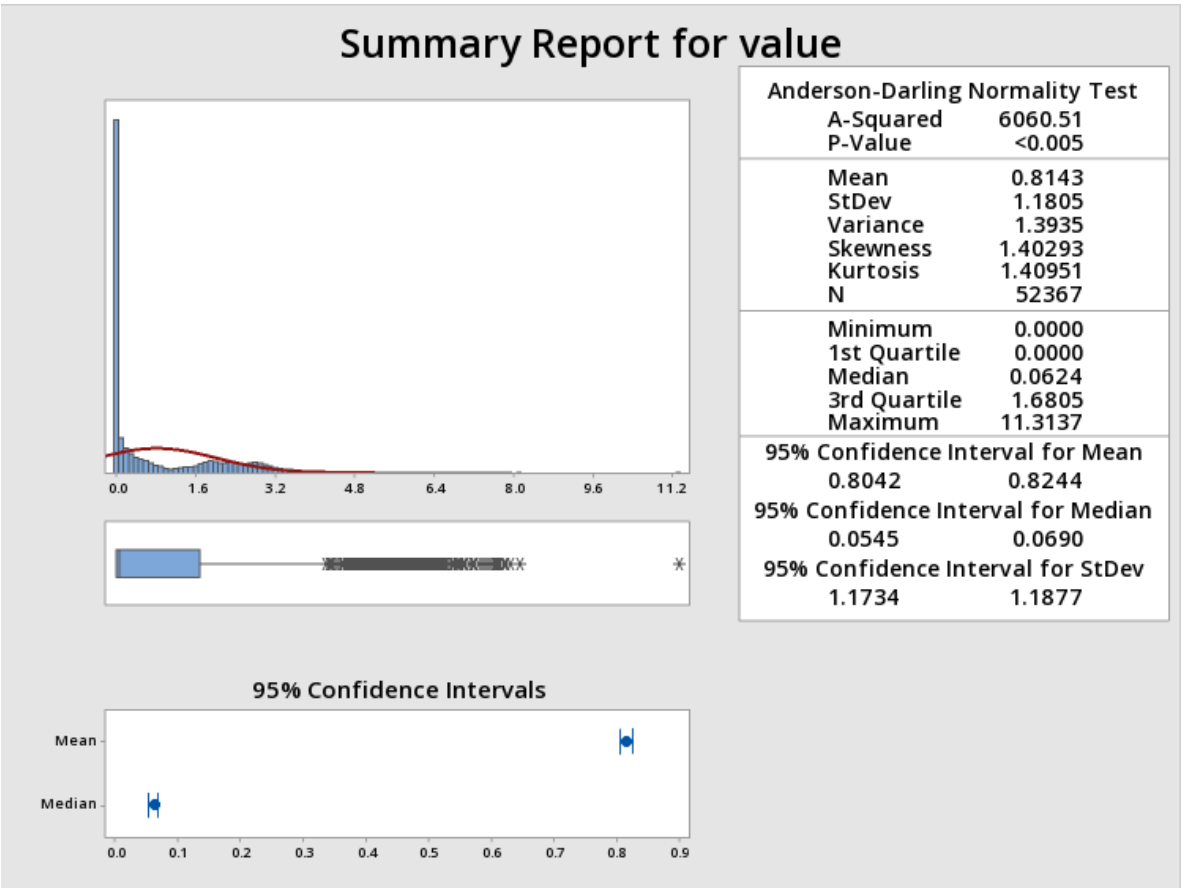


## Estadística Descriptiva

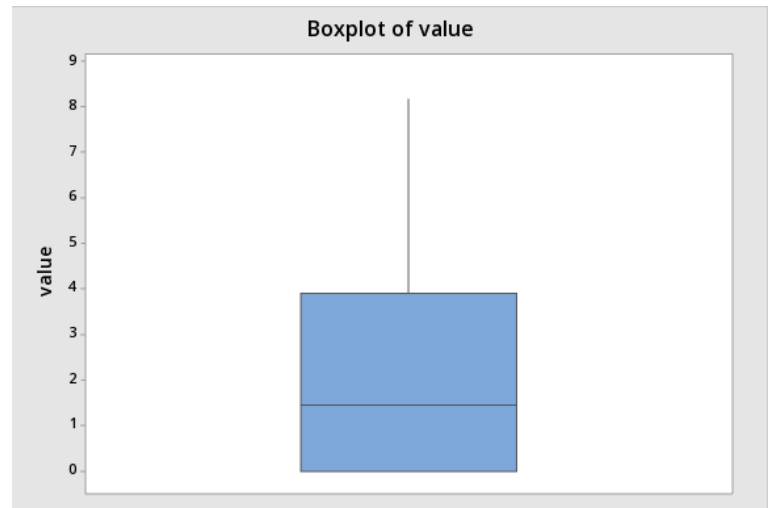
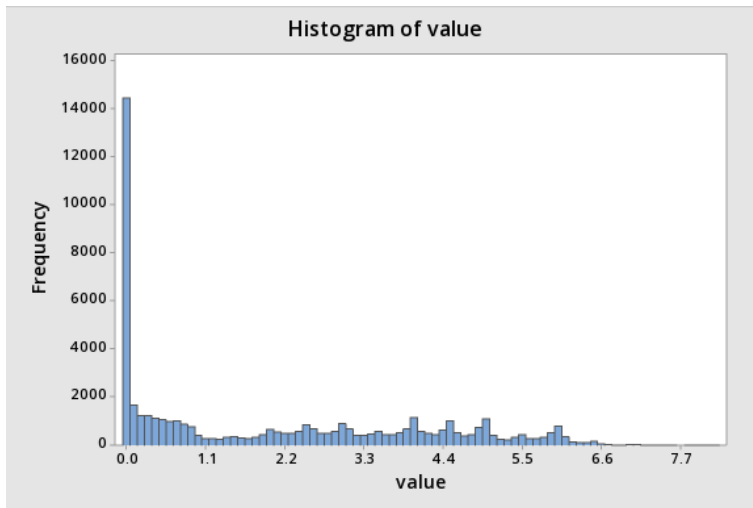
Medidas de tendencia central	
Media	0.8143
Mediana	0.0624
Moda	
Percentiles	
25	0.00000
50	0.0624
75	1.6805
Medida de forma	
Sesgo	
Curtosis	1.41
Medidas de dispersión	
Mínimo	0.00000
Máximo	11.3137
Desviación estándar	1.1805
Varianza	1.3935
Coeficiente de Varianza	144.97



Summary Report



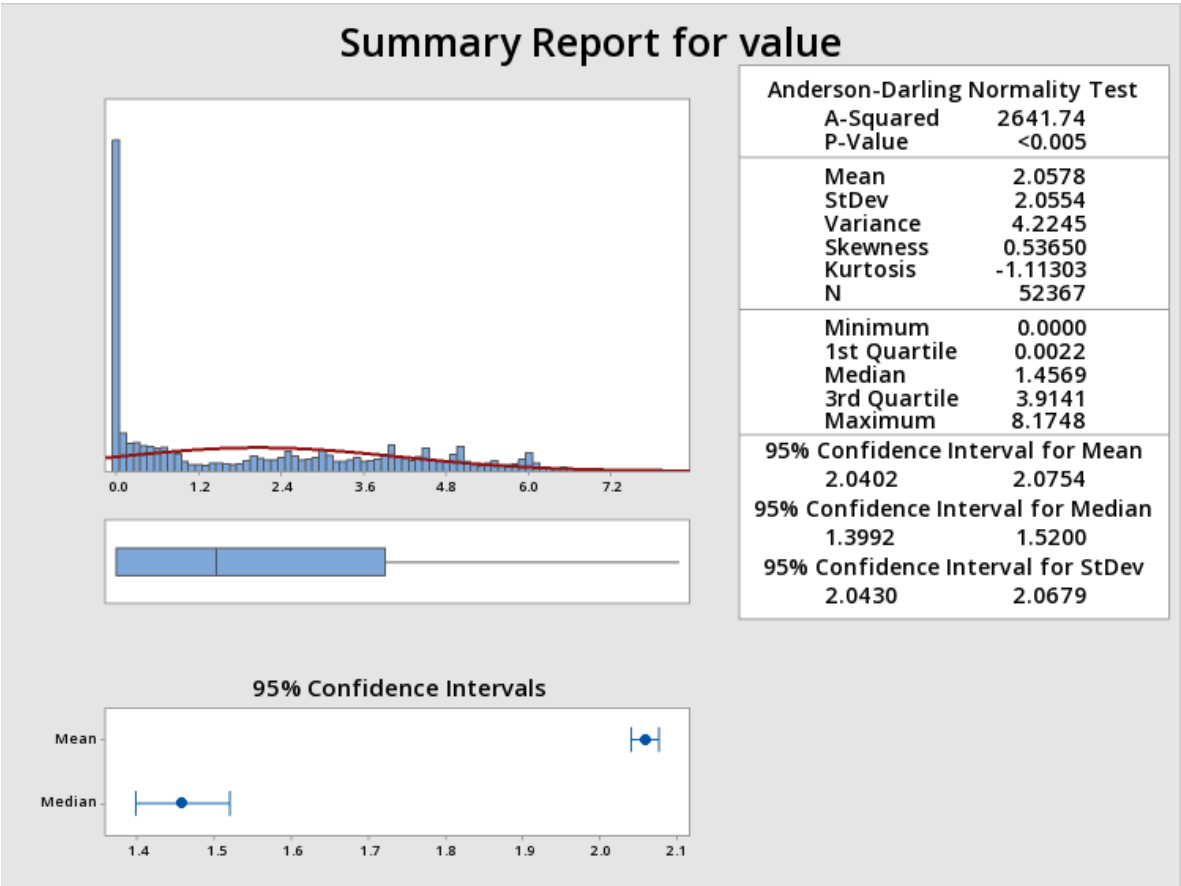
- Fuel Doser, FIC8915010



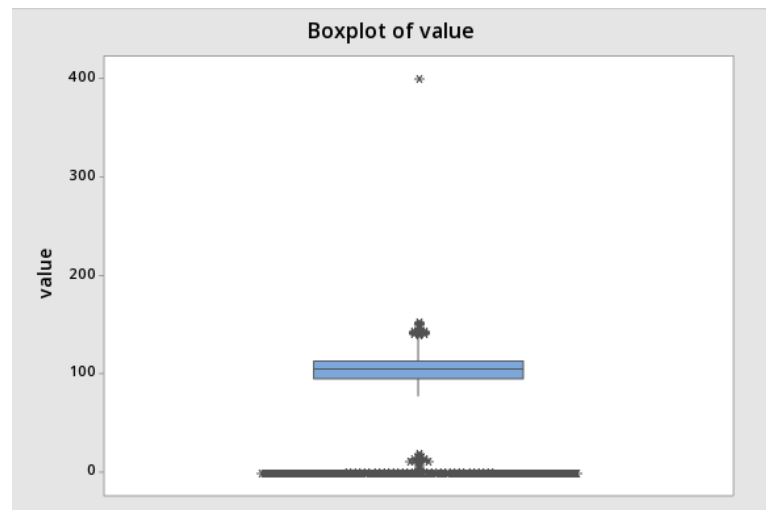
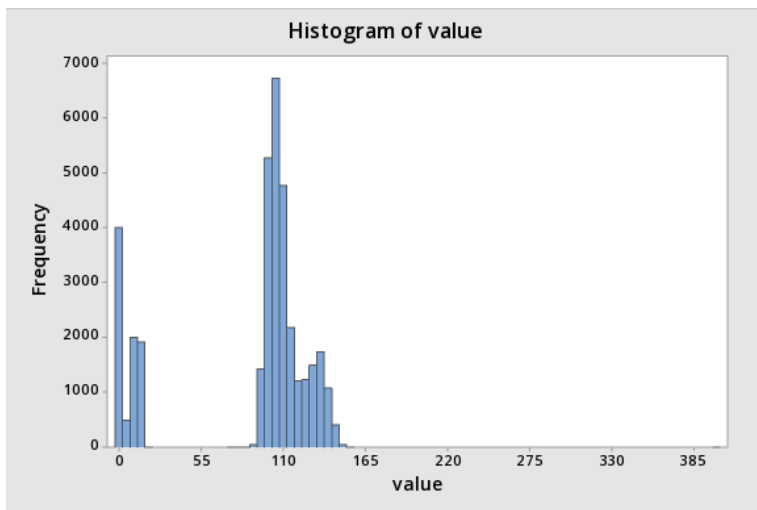
## Estadística Descriptiva

Medidas de tendencia central	
Media	2.0578
Mediana	1.4569
Moda	
Percentiles	
25	0.00223
50	1.4569
75	3.9141
Medida de forma	
Sesgo	
Curtosis	-1.11
Medidas de dispersión	
Mínimo	0.00000
Máximo	8.1748
Desviación estándar	2.0554
Varianza	4.2245
Coeficiente de Varianza	99.88

# Summary Report



○ Fuel Doser, II888310

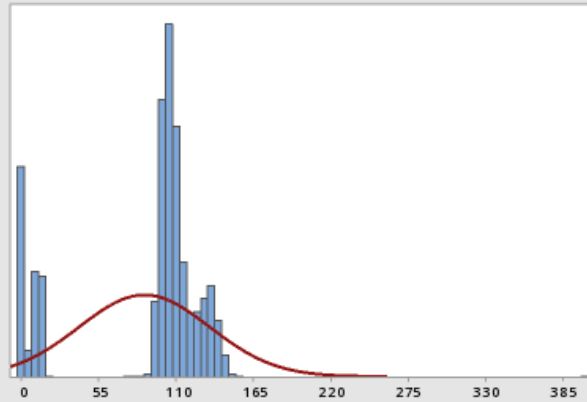


## Estadística Descriptiva

Medidas de tendencia central	
Media	87.317
Mediana	105.008
Moda	
Percentiles	
25	95.454
50	105.008
75	113.303
Medida de forma	
Sesgo	
Curtosis	-0.46
Medidas de dispersión	
Mínimo	0.000
Máximo	399.345
Desviación estándar	46.337
Varianza	2147.154
Coefficiente de Varianza	53.07

## Summary Report

### Summary Report for value



#### Anderson-Darling Normality Test

A-Squared 4202.80  
P-Value <0.005

Mean 87.317  
StDev 46.337  
Variance 2147.154  
Skewness -1.04441  
Kurtosis -0.45681  
N 36101

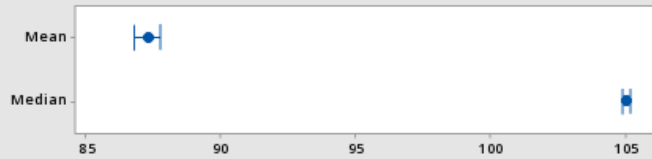
Minimum 0.000  
1st Quartile 95.454  
Median 105.008  
3rd Quartile 113.303  
Maximum 399.345

95% Confidence Interval for Mean  
86.839 87.795

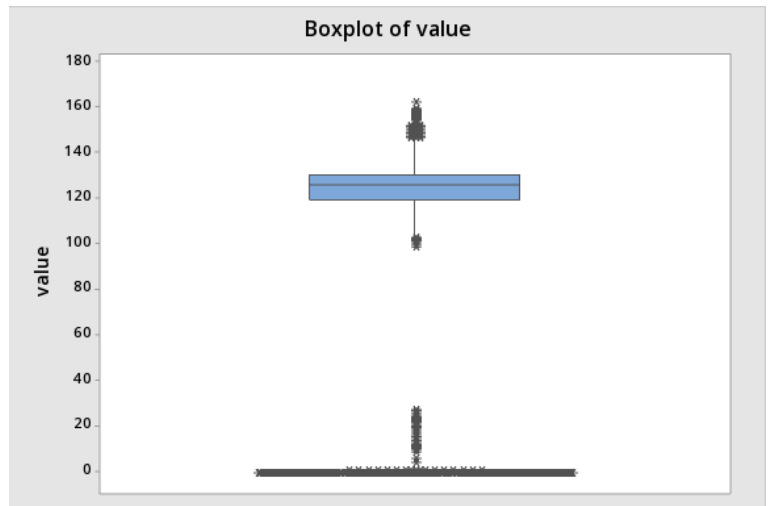
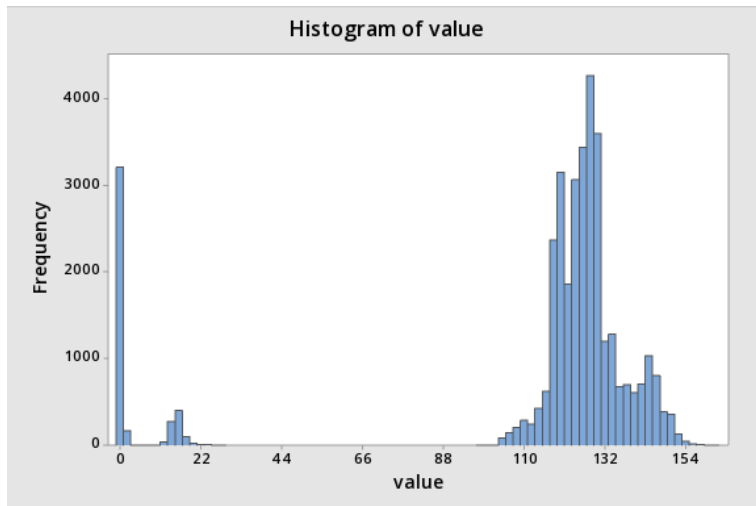
95% Confidence Interval for Median  
104.866 105.155

95% Confidence Interval for StDev  
46.002 46.678

#### 95% Confidence Intervals



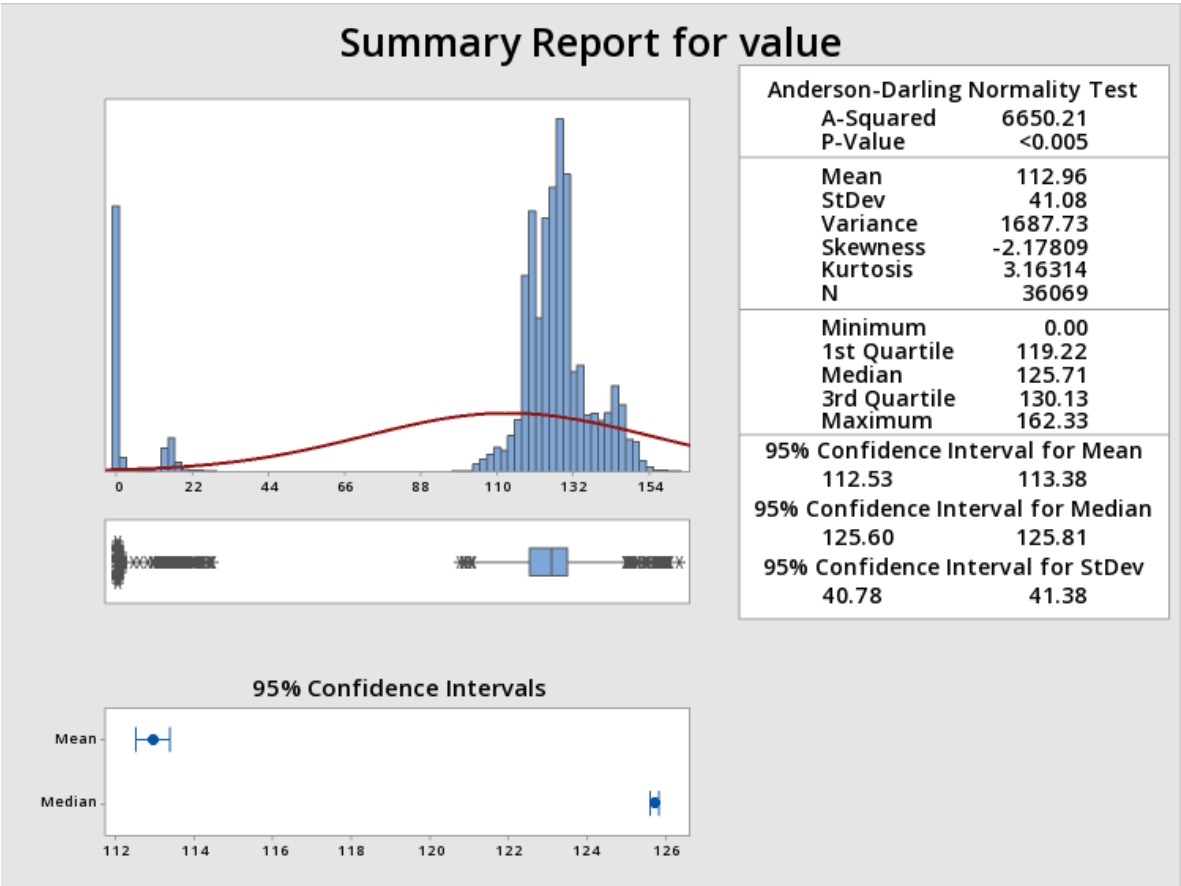
- Fuel Doser, II8882110



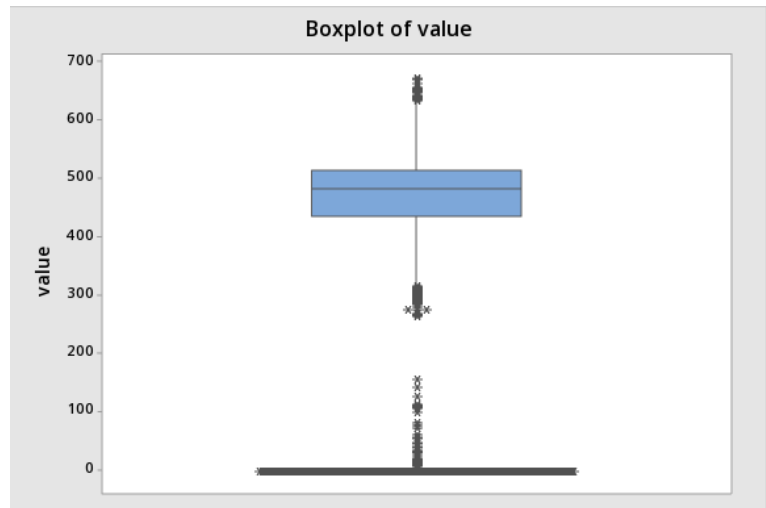
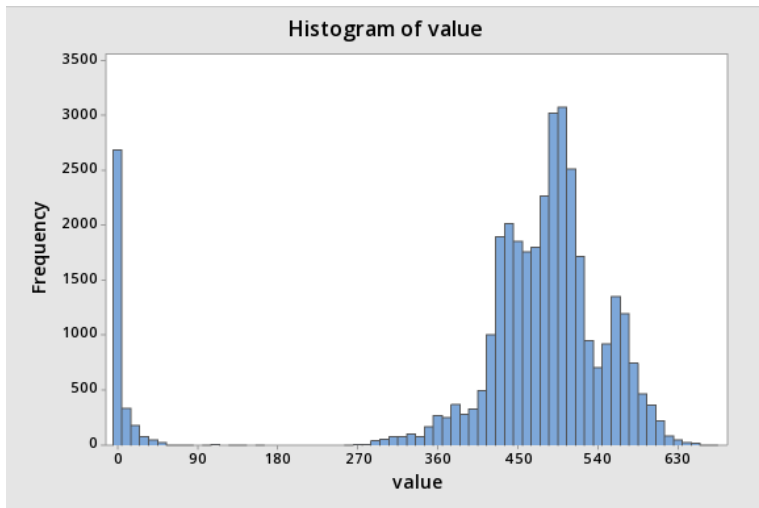
## Estadística Descriptiva

Medidas de tendencia central	
Media	112.96
Mediana	125.71
Moda	
Percentiles	
25	119.22
50	125.71
75	130.13
Medida de forma	
Sesgo	
Curtosis	3.16
Medidas de dispersión	
Mínimo	0.000
Máximo	162.33
Desviación estándar	41.08
Varianza	1687.73
Coeficiente de Varianza	36.37

# Summary Report



- Fuel Doser, PI8885810



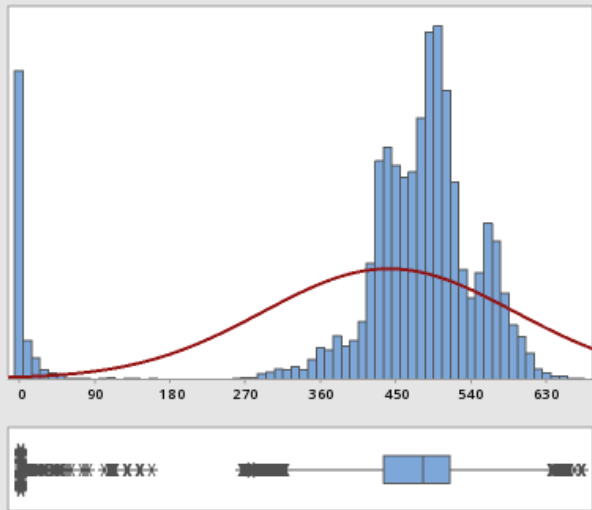
## Estadística Descriptiva

Medidas de tendencia central	
Media	441.23
Mediana	482.58
Moda	
Percentiles	
25	435.49
50	482.58
75	514.21
Medida de forma	
Sesgo	
Curtosis	3.79
Medidas de dispersión	
Mínimo	0.000
Máximo	671.99
Desviación estándar	150.54
Varianza	22663.09
Coeficiente de Varianza	34.12

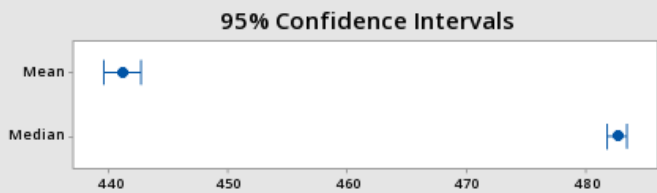


# Summary Report

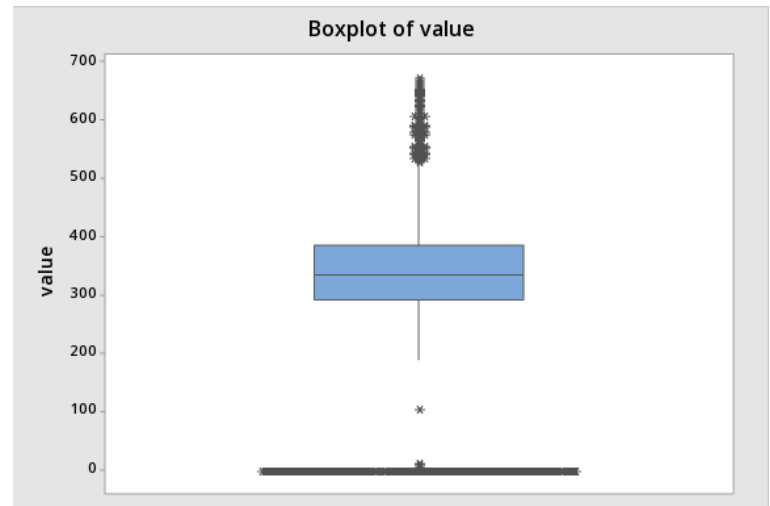
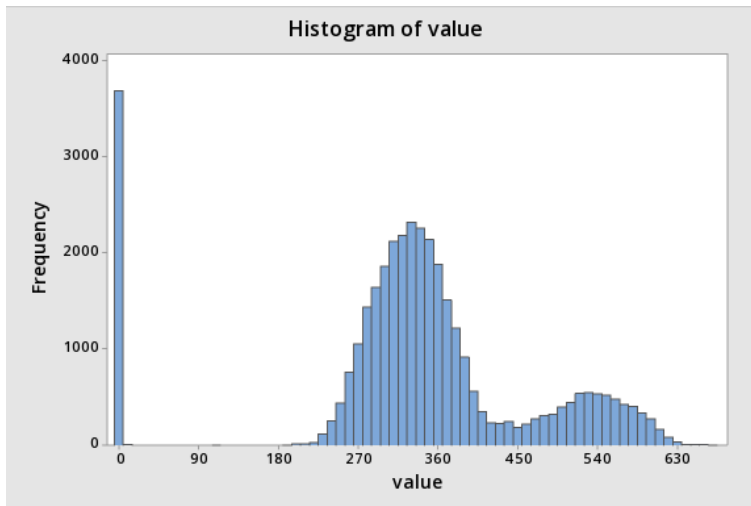
## Summary Report for value



Anderson-Darling Normality Test	
A-Squared	4281.30
P-Value	<0.005
Mean	441.23
StDev	150.54
Variance	22663.09
Skewness	-2.16096
Kurtosis	3.78867
N	36117
Minimum	0.00
1st Quartile	435.49
Median	482.58
3rd Quartile	514.21
Maximum	671.99
95% Confidence Interval for Mean	
	439.68      442.78
95% Confidence Interval for Median	
	481.73      483.36
95% Confidence Interval for StDev	
	149.45      151.65



- Fuel Doser, PI8886710

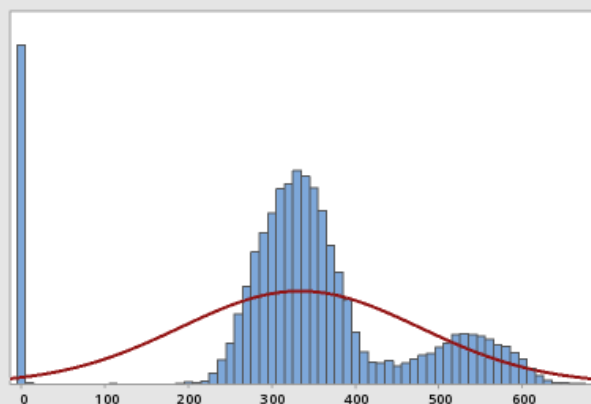


## Estadística Descriptiva

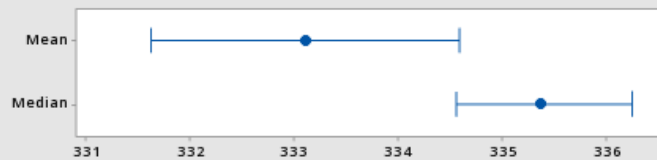
Medidas de tendencia central	
Media	333.11
Mediana	335.36
Moda	
Percentiles	
25	292.24
50	335.36
75	385.94
Medida de forma	
Sesgo	
Curtosis	0.96
Medidas de dispersión	
Mínimo	0.000
Máximo	672.85
Desviación estándar	143.05
Varianza	20463.00
Coeficiente de Varianza	42.94

## Summary Report

### Summary Report for value



#### 95% Confidence Intervals



#### Anderson-Darling Normality Test

A-Squared	1646.33
P-Value	<0.005

Mean	333.11
StDev	143.05
Variance	20463.00
Skewness	-0.709893
Kurtosis	0.957669
N	36117

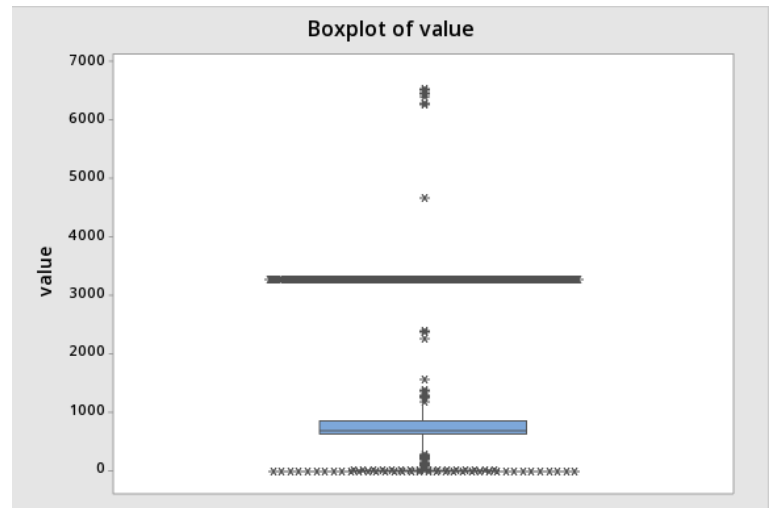
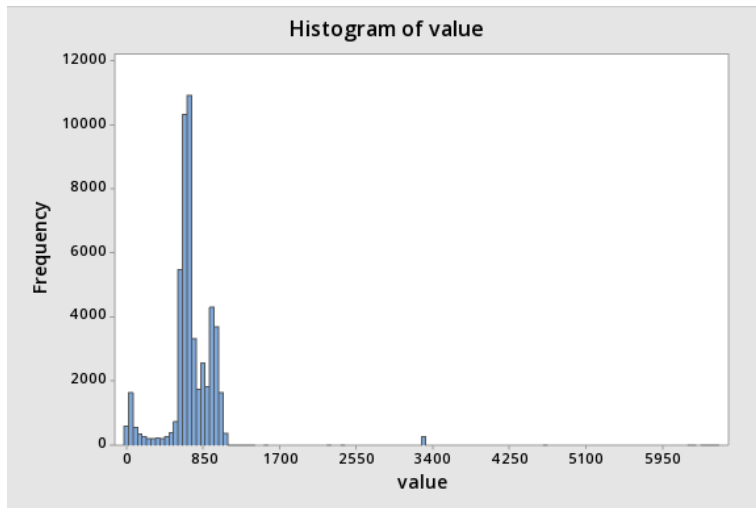
Minimum	0.00
1st Quartile	292.24
Median	335.36
3rd Quartile	385.94
Maximum	672.85

95% Confidence Interval for Mean	
331.63	334.58

95% Confidence Interval for Median	
334.55	336.24

95% Confidence Interval for StDev	
142.01	144.10

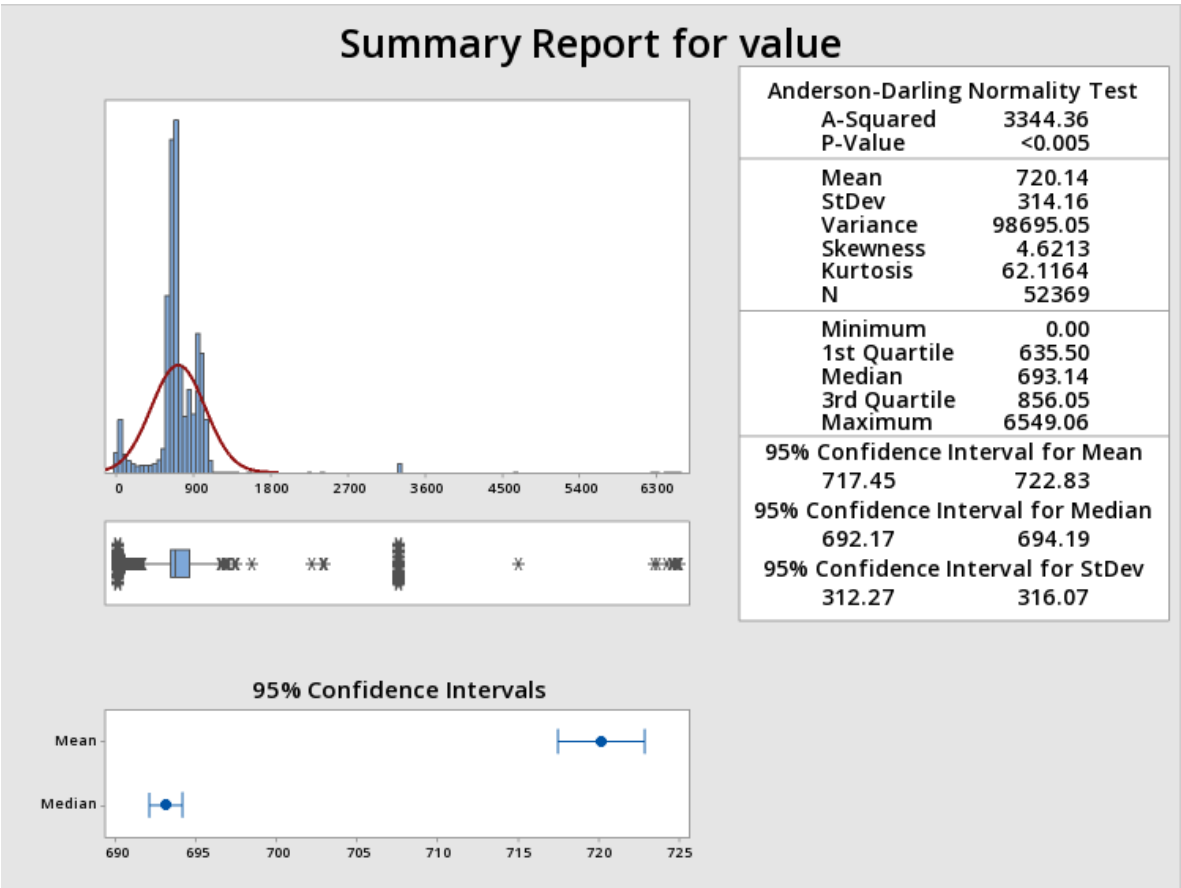
- Fuel Doser, TI5910110



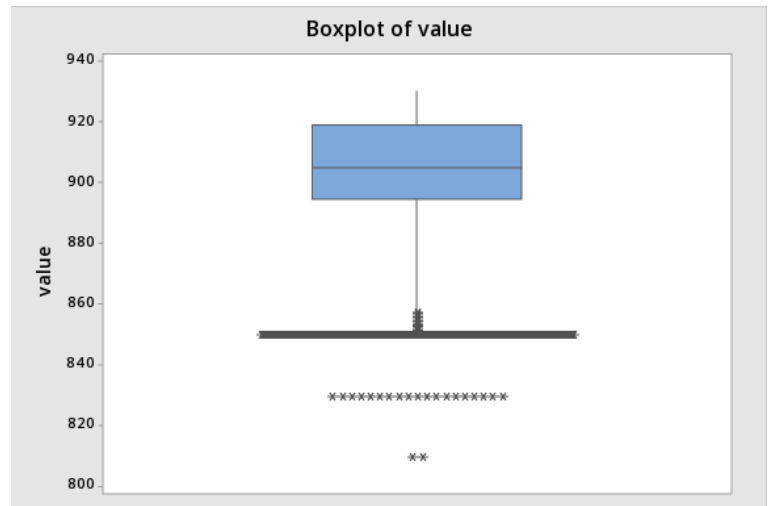
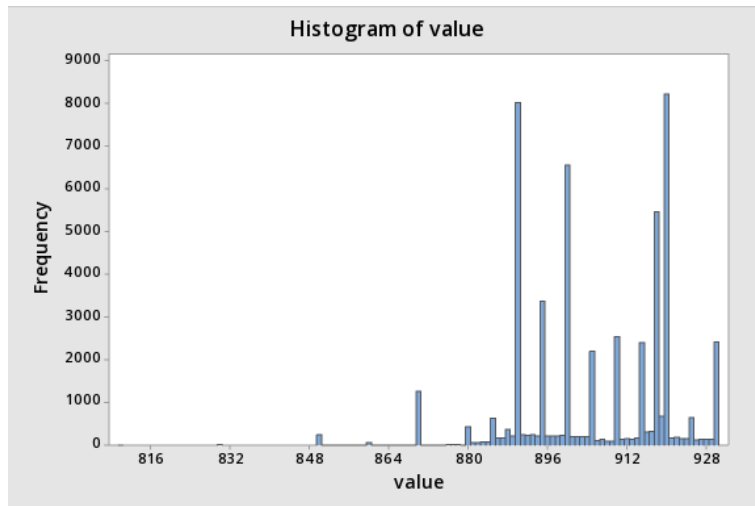
## Estadística Descriptiva

Medidas de tendencia central	
Media	720.14
Mediana	693.14
Moda	
Percentiles	
25	635.50
50	693.14
75	856.05
Medida de forma	
Sesgo	
Curtosis	62.12
Medidas de dispersión	
Mínimo	0.00
Máximo	6549.06
Desviación estándar	314.16
Varianza	98695.05
Coeficiente de Varianza	43.62

Summary Report



- Fuel Doser, TIC5210510A.SP



## Estadística Descriptiva

Medidas de tendencia central	
Media	905.57
Mediana	905.00
Moda	
Percentiles	
25	894.47
50	905.00
75	919.00
Medida de forma	
Sesgo	
Curtosis	0.18
Medidas de dispersión	
Mínimo	810.00
Máximo	930.00
Desviación estándar	15.04
Varianza	226.31
Coeficiente de Varianza	1.66

# Summary Report

