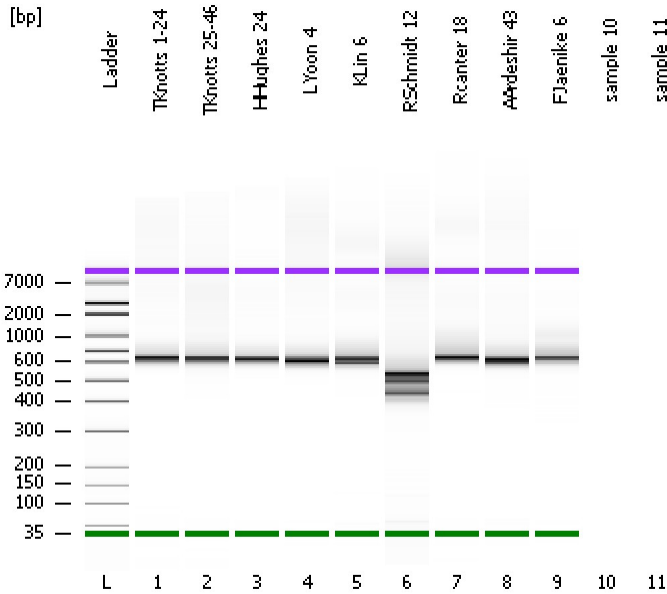


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

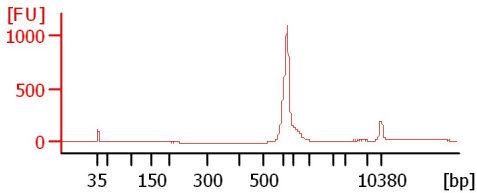
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

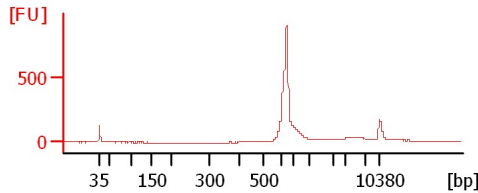
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

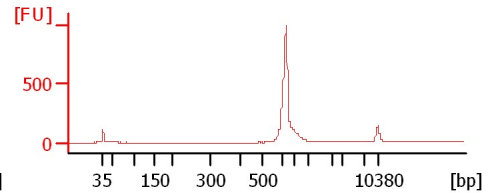
TKnotts 1-24



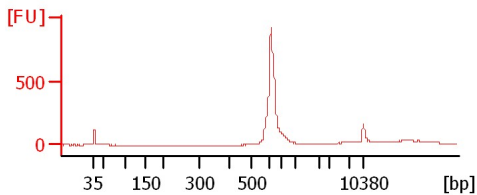
TKnotts 25-46



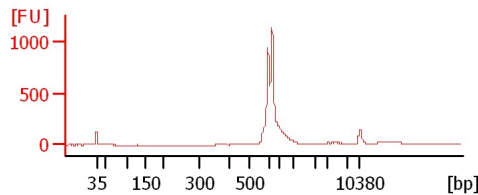
HHughes 24



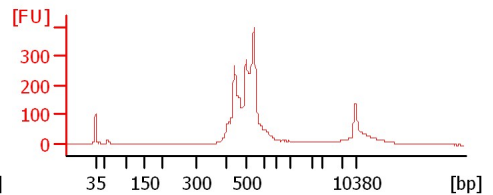
LYoon 4



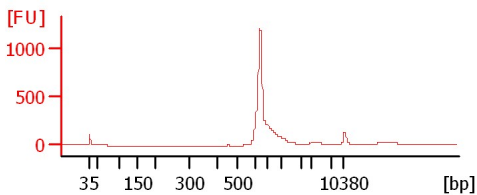
KLin 6



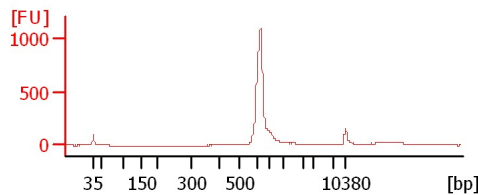
RSchmidt 12



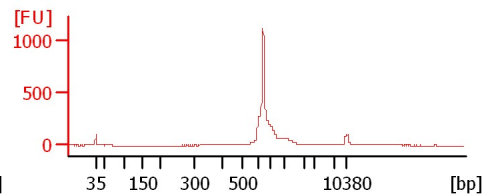
Rcanter 18



AArdeshir 43



FJaenike 6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name   | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| TKnotts 1-24  |                | <input type="checkbox"/> | ✓      |             |              |              |
| TKnotts 25-46 |                | <input type="checkbox"/> | ✓      |             |              |              |
| HHughes 24    |                | <input type="checkbox"/> | ✓      |             |              |              |
| LYoon 4       |                | <input type="checkbox"/> | ✓      |             |              |              |
| KLin 6        |                | <input type="checkbox"/> | ✓      |             |              |              |
| RSchmidt 12   |                | <input type="checkbox"/> | ✓      |             |              |              |
| Rcanter 18    |                | <input type="checkbox"/> | ✓      |             |              |              |
| AArdeshir 43  |                | <input type="checkbox"/> | ✓      |             |              |              |
| FJaenike 6    |                | <input type="checkbox"/> | ✓      |             |              |              |
| sample 10     |                | <input type="checkbox"/> |        |             |              |              |
| sample 11     |                | <input type="checkbox"/> |        |             |              |              |
| Ladder        |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

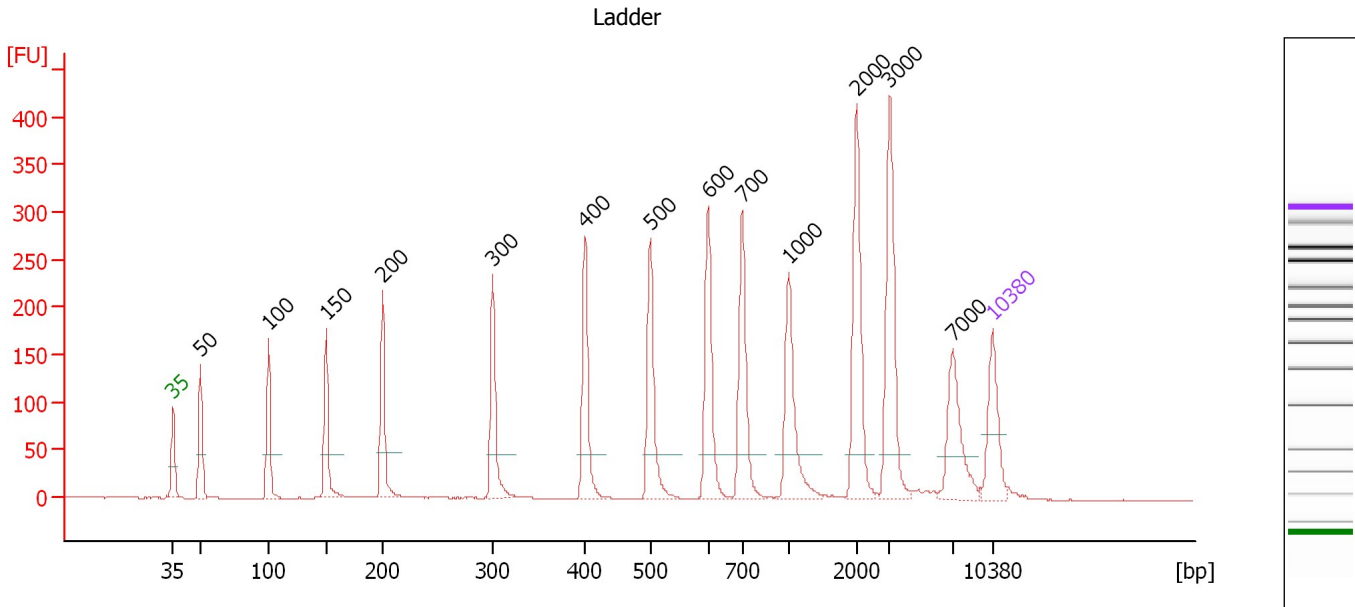
**Ladder**

| Ladder Peak | Size  | Area |
|-------------|-------|------|
| 1           | 35    | 160  |
| 2           | 50    | 210  |
| 3           | 100   | 208  |
| 4           | 150   | 221  |
| 5           | 200   | 242  |
| 6           | 300   | 270  |
| 7           | 400   | 305  |
| 8           | 500   | 306  |
| 9           | 600   | 336  |
| 10          | 700   | 321  |
| 11          | 1000  | 366  |
| 12          | 2000  | 413  |
| 13          | 3000  | 411  |
| 14          | 7000  | 400  |
| 15          | 10380 | 214  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

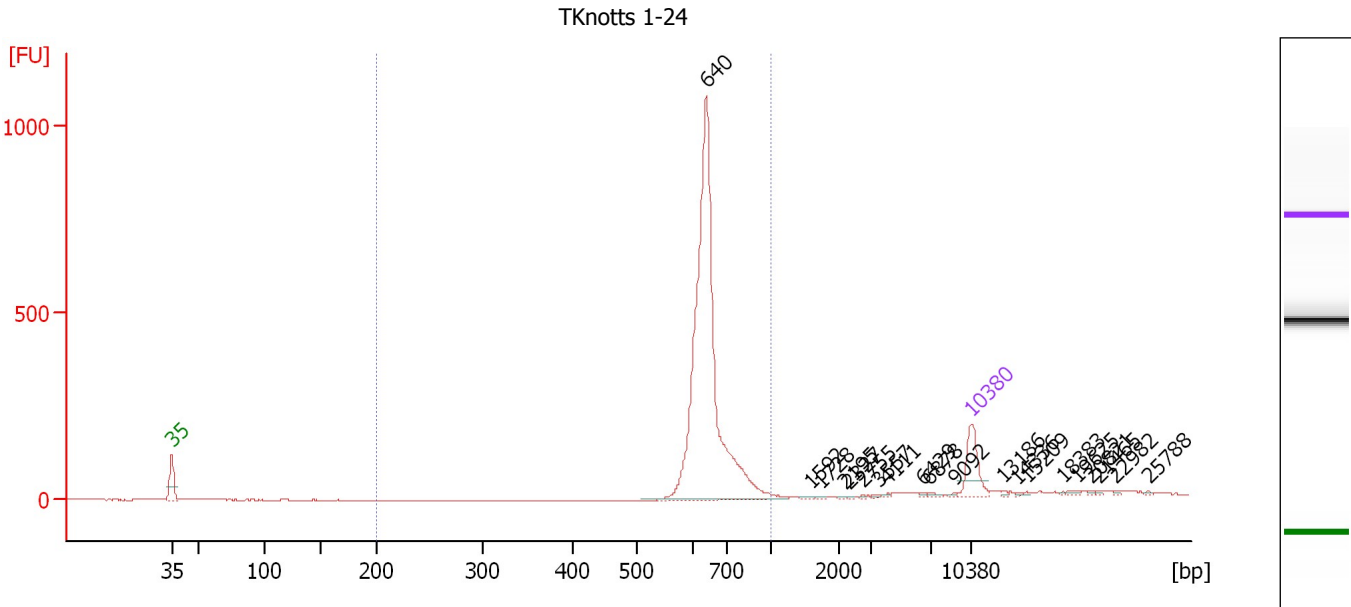
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  | 45.32                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 51.15                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 56.07                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.90                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 70.28                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 78.16                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.76                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 88.68                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.59                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.56                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.39                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.21                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.58                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : TKnotts 1-24**

Number of peaks found: 20                      Corr. Area 1: 2,273.3  
 Noise: 0.3

**Peak table for sample 1 : TKnotts 1-24**


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 640       | 1,142.40      | 2,703.6           |              | 89.85                      |
| 3    | 1,592     | 2.65          | 2.5               |              | 99.01                      |
| 4    | 1,728     | 2.69          | 2.4               |              | 99.80                      |
| 5    | 2,195     | 1.48          | 1.0               |              | 101.94                     |
| 6    | 2,327     | 1.03          | 0.7               |              | 102.31                     |
| 7    | 2,755     | 1.28          | 0.7               |              | 103.52                     |
| 8    | 3,557     | 2.49          | 1.1               |              | 104.96                     |
| 9    | 4,111     | 2.84          | 1.0               |              | 105.70                     |
| 10   | 6,429     | 3.03          | 0.7               |              | 108.82                     |
| 11   | 6,878     | 4.52          | 1.0               |              | 109.42                     |
| 12   | 9,092     | 2.28          | 0.4               |              | 111.70                     |
| 13   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 14   | 13,186    | 0.00          | 0.0               |              | 115.84                     |
| 15   | 14,336    | 0.00          | 0.0               |              | 117.00                     |
| 16   | 15,209    | 0.00          | 0.0               |              | 117.88                     |
| 17   | 18,383    | 0.00          | 0.0               |              | 121.09                     |
| 18   | 19,625    | 0.00          | 0.0               |              | 122.34                     |
| 19   | 20,821    | 0.00          | 0.0               |              | 123.55                     |
| 20   | 21,465    | 0.00          | 0.0               |              | 124.20                     |
| 21   | 22,982    | 0.00          | 0.0               |              | 125.74                     |
| 22   | 25,788    | 0.00          | 0.0               |              | 128.57                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**

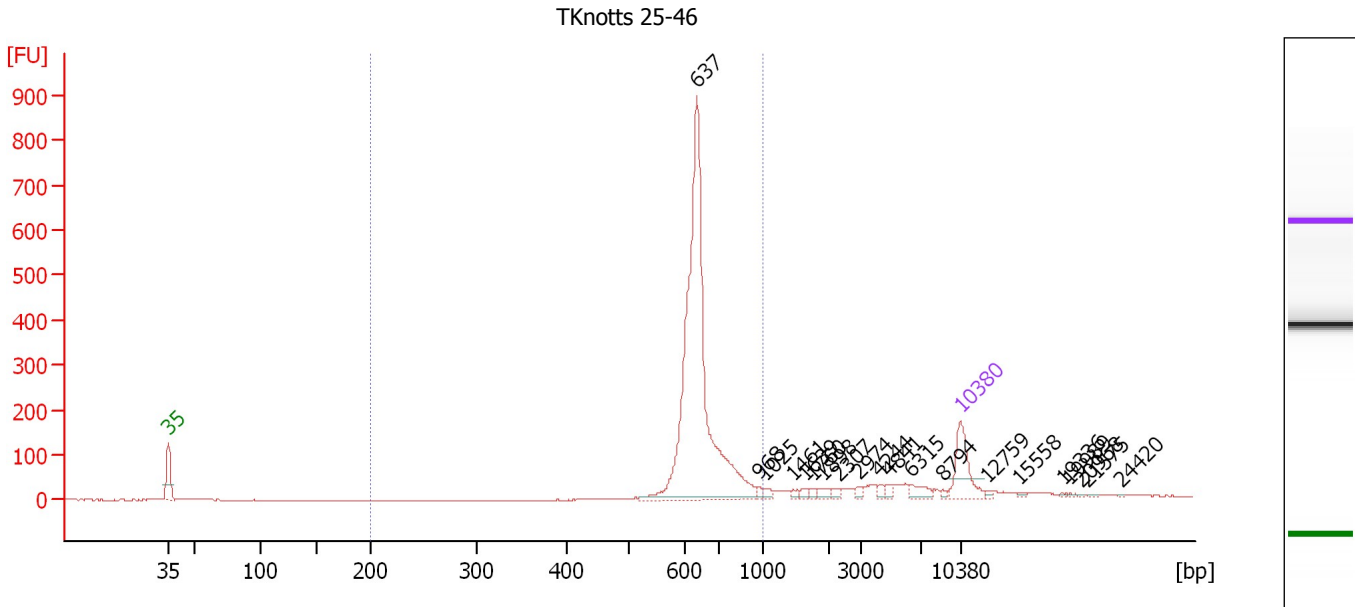
... Region table for sample 1 : TKnotts 1-24

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ $\mu$ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total  | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200       | 1,000   | 650               | 1,079.47            | 2,273.3    | 2,533.8           |  94 | 9.0                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TKnotts 25-46**

Number of peaks found: 20                      Corr. Area 1: 1,921.6  
 Noise: 0.6

**Peak table for sample 2 : TKnotts 25-46**


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 637       | 957.63        | 2,277.5           |              | 89.76                      |
| 3    | 968       | 8.19          | 12.8              |              | 95.13                      |
| 4    | 1,025     | 9.33          | 13.8              |              | 95.70                      |
| 5    | 1,461     | 6.33          | 6.6               |              | 98.25                      |
| 6    | 1,639     | 8.66          | 8.0               |              | 99.28                      |
| 7    | 1,760     | 5.89          | 5.1               |              | 99.99                      |
| 8    | 1,898     | 12.33         | 9.8               |              | 100.79                     |
| 9    | 2,307     | 8.09          | 5.3               |              | 102.25                     |
| 10   | 2,974     | 7.35          | 3.7               |              | 104.14                     |
| 11   | 4,244     | 7.75          | 2.8               |              | 105.88                     |
| 12   | 4,841     | 7.32          | 2.3               |              | 106.68                     |
| 13   | 6,315     | 20.15         | 4.8               |              | 108.66                     |
| 14   | 8,794     | 4.02          | 0.7               |              | 111.40                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 16   | 12,759    | 0.00          | 0.0               |              | 115.40                     |
| 17   | 15,558    | 0.00          | 0.0               |              | 118.23                     |
| 18   | 19,336    | 0.00          | 0.0               |              | 122.05                     |
| 19   | 19,989    | 0.00          | 0.0               |              | 122.71                     |
| 20   | 20,968    | 0.00          | 0.0               |              | 123.70                     |
| 21   | 21,575    | 0.00          | 0.0               |              | 124.31                     |
| 22   | 24,420    | 0.00          | 0.0               |              | 127.19                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**

... Region table for sample 2 : TKnotts 25-46

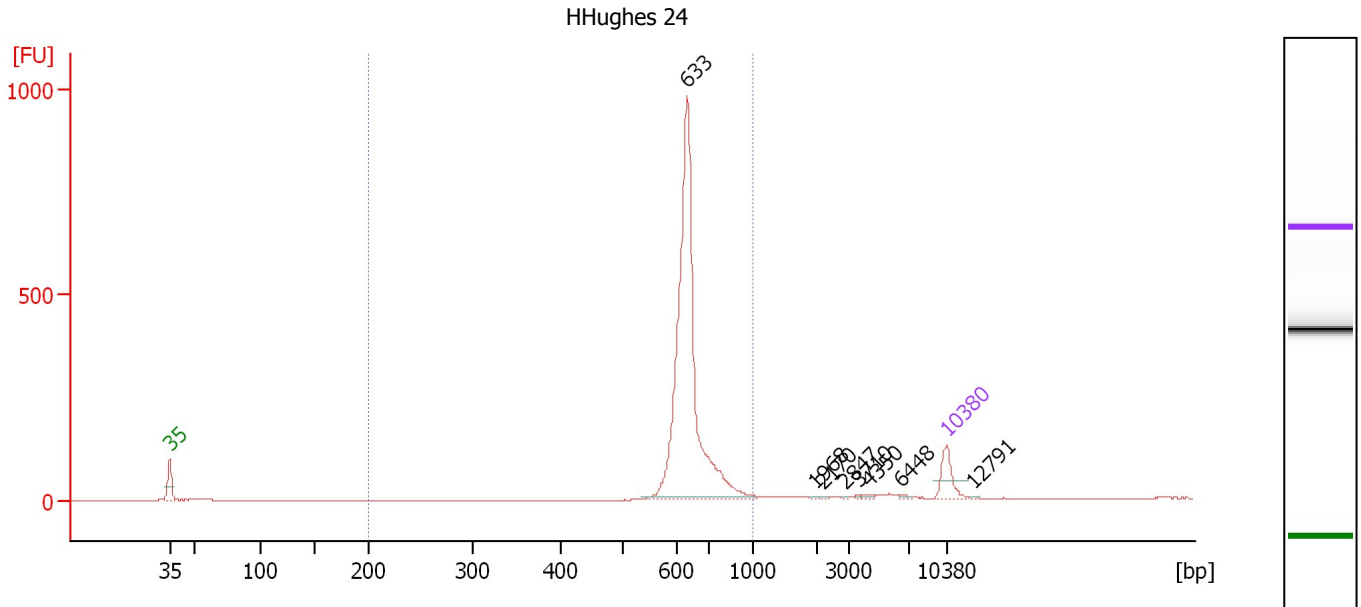
| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ $\mu$ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total  | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200       | 1,000   | 652               | 941.99              | 1,921.6    | 2,209.5           |  80 | 11.1                        |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HHughes 24**

Number of peaks found: 8                      Corr. Area 1: 1,907.8  
 Noise: 0.5

**Peak table for sample 3 : HHughes 24**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 633       | 1,449.07      | 3,469.8           |              | 89.63                      |
| 3    | 1,968     | 3.24          | 2.5               |              | 101.20                     |
| 4    | 2,170     | 2.96          | 2.1               |              | 101.87                     |
| 5    | 2,847     | 2.18          | 1.2               |              | 103.78                     |
| 6    | 3,710     | 3.08          | 1.3               |              | 105.16                     |
| 7    | 4,350     | 7.25          | 2.5               |              | 106.02                     |
| 8    | 6,448     | 4.49          | 1.1               |              | 108.84                     |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 10   | 12,791    | 0.00          | 0.0               |              | 115.44                     |

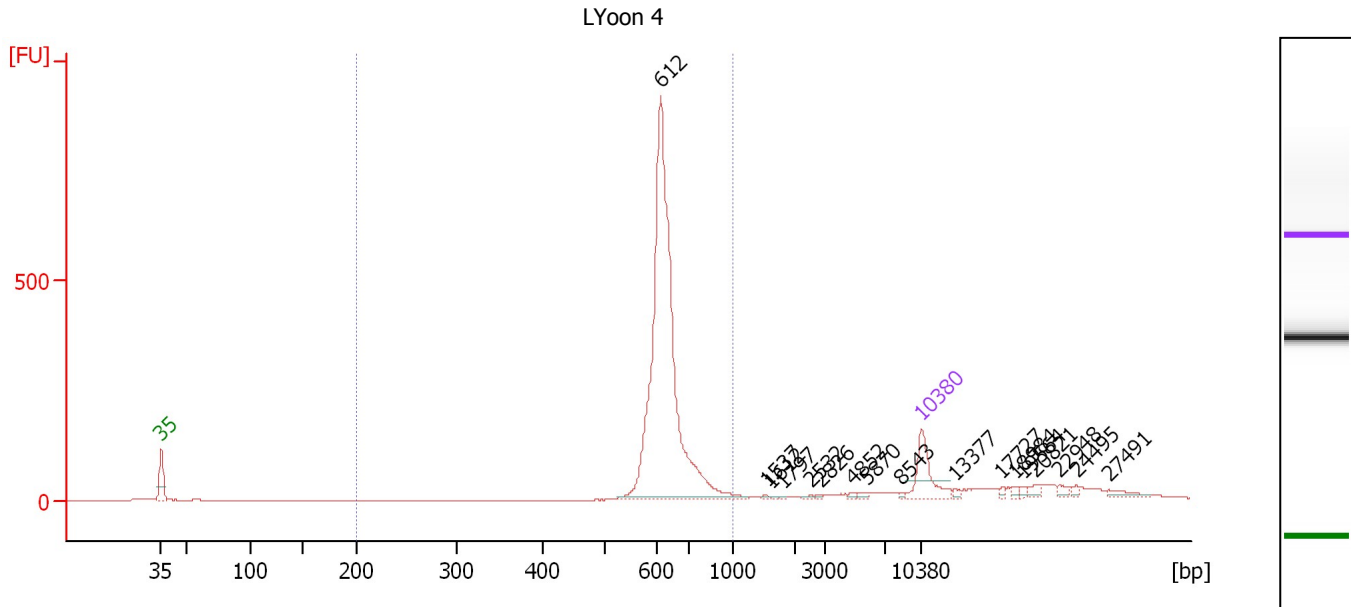
**Region table for sample 3 : HHughes 24**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200       | 1,000   | 644               | 1,440.59      | 1,907.8    | 3,411.8           | 95                | 9.1                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : LYoon 4**

Number of peaks found: 17                      Corr. Area 1: 2,175.7  
 Noise: 0.5

**Peak table for sample 4 : LYoon 4**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 612       | 1,071.95      | 2,656.0           |              | 89.02                      |
| 3    | 1,537     | 2.53          | 2.5               |              | 98.69                      |
| 4    | 1,612     | 1.96          | 1.8               |              | 99.13                      |
| 5    | 1,797     | 1.42          | 1.2               |              | 100.20                     |
| 6    | 2,532     | 2.93          | 1.8               |              | 102.89                     |
| 7    | 2,826     | 2.38          | 1.3               |              | 103.72                     |
| 8    | 4,852     | 3.87          | 1.2               |              | 106.70                     |
| 9    | 5,870     | 5.37          | 1.4               |              | 108.07                     |
| 10   | 8,543     | 3.34          | 0.6               |              | 111.14                     |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 12   | 13,377    | 0.00          | 0.0               |              | 116.03                     |
| 13   | 17,727    | 0.00          | 0.0               |              | 120.42                     |
| 14   | 18,984    | 0.00          | 0.0               |              | 121.70                     |
| 15   | 19,564    | 0.00          | 0.0               |              | 122.28                     |
| 16   | 20,821    | 0.00          | 0.0               |              | 123.55                     |
| 17   | 22,948    | 0.00          | 0.0               |              | 125.70                     |
| 18   | 24,495    | 0.00          | 0.0               |              | 127.26                     |
| 19   | 27,491    | 0.00          | 0.0               |              | 130.29                     |

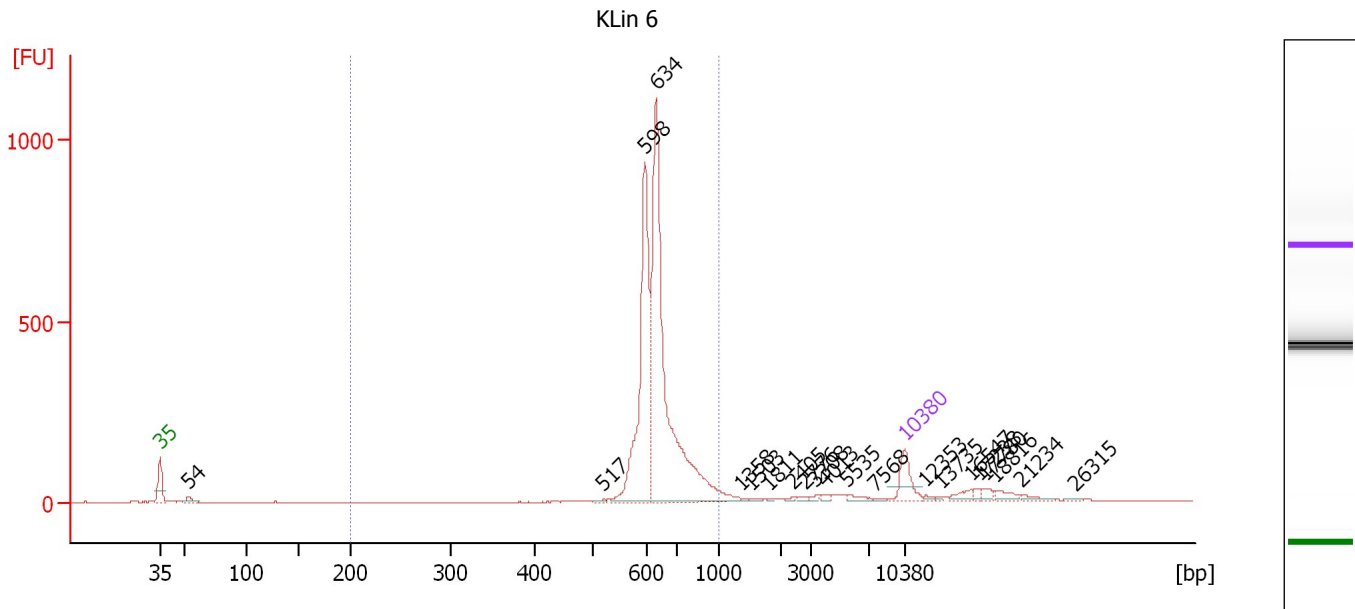
**Region table for sample 4 : LYoon 4**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200       | 1,000   | 632               | 1,062.98      | 2,175.7    | 2,564.7           | 83                | 9.4                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : KLIn 6**

Number of peaks found: 21                      Corr. Area 1: 2,936.9  
 Noise: 0.6

**Peak table for sample 5 : KLIn 6**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 54        | 24.28         | 686.5             |              | 45.74                      |
| 3    | 517       | 4.22          | 12.4              |              | 84.58                      |
| 4    | 598       | 674.00        | 1,708.4           |              | 88.57                      |
| 5    | 634       | 1,149.82      | 2,748.5           |              | 89.67                      |
| 6    | 1,358     | 3.88          | 4.3               |              | 97.64                      |
| 7    | 1,503     | 4.87          | 4.9               |              | 98.49                      |
| 8    | 1,811     | 2.43          | 2.0               |              | 100.29                     |
| 9    | 2,405     | 4.73          | 3.0               |              | 102.53                     |
| 10   | 2,776     | 8.49          | 4.6               |              | 103.58                     |
| 11   | 3,308     | 7.98          | 3.7               |              | 104.62                     |
| 12   | 4,013     | 8.46          | 3.2               |              | 105.57                     |
| 13   | 5,535     | 16.40         | 4.5               |              | 107.62                     |
| 14   | 7,568     | 4.93          | 1.0               |              | 110.16                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 16   | 12,353    | 0.00          | 0.0               |              | 114.99                     |
| 17   | 13,735    | 0.00          | 0.0               |              | 116.39                     |
| 18   | 16,547    | 0.00          | 0.0               |              | 119.23                     |
| 19   | 17,238    | 0.00          | 0.0               |              | 119.93                     |
| 20   | 17,780    | 0.00          | 0.0               |              | 120.48                     |
| 21   | 18,816    | 0.00          | 0.0               |              | 121.53                     |
| 22   | 21,234    | 0.00          | 0.0               |              | 123.97                     |
| 23   | 26,315    | 0.00          | 0.0               |              | 129.10                     |


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**

... Region table for sample 5 :

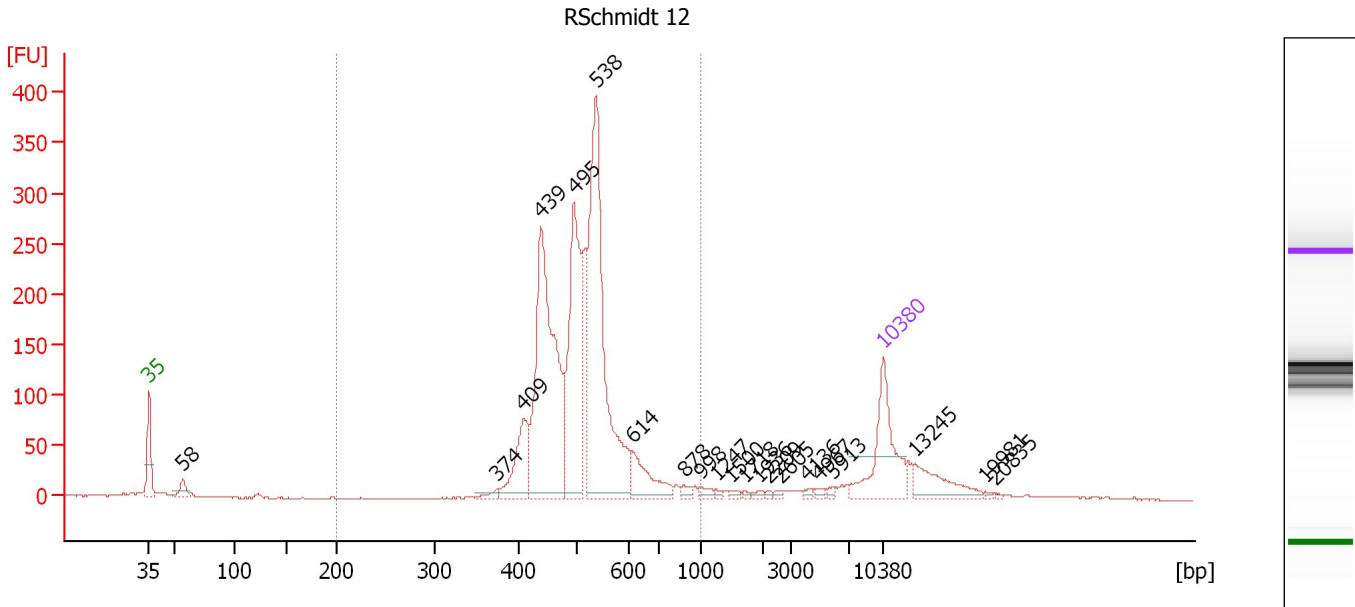
KLin 6

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ $\mu$ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total  | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200       | 1,000   | 647               | 1,801.43            | 2,936.9    | 4,269.3           |  86 | 11.9                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : RSchmidt 12**

Number of peaks found: 21                      Corr. Area 1: 2,410.9  
 Noise: 0.6

**Peak table for sample 6 : RSchmidt 12**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 58        | 17.46         | 459.8             |              | 46.20                      |
| 3    | 374       | 6.31          | 25.6              |              | 76.12                      |
| 4    | 409       | 68.64         | 254.3             |              | 78.66                      |
| 5    | 439       | 312.16        | 1,077.7           |              | 80.34                      |
| 6    | 495       | 207.77        | 635.9             |              | 83.49                      |
| 7    | 538       | 342.87        | 966.0             |              | 85.62                      |
| 8    | 614       | 46.49         | 114.8             |              | 89.07                      |
| 9    | 878       | 5.42          | 9.3               |              | 93.95                      |
| 10   | 998       | 5.97          | 9.1               |              | 95.53                      |
| 11   | 1,247     | 2.18          | 2.6               |              | 97.00                      |
| 12   | 1,500     | 3.57          | 3.6               |              | 98.47                      |
| 13   | 1,718     | 1.88          | 1.7               |              | 99.74                      |
| 14   | 1,936     | 3.20          | 2.5               |              | 101.01                     |
| 15   | 2,209     | 1.74          | 1.2               |              | 101.98                     |
| 16   | 2,605     | 2.66          | 1.5               |              | 103.09                     |
| 17   | 4,136     | 2.77          | 1.0               |              | 105.74                     |
| 18   | 4,967     | 3.25          | 1.0               |              | 106.85                     |
| 19   | 5,913     | 3.41          | 0.9               |              | 108.12                     |
| 20   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 21   | 13,245    | 0.00          | 0.0               |              | 115.90                     |
| 22   | 19,981    | 0.00          | 0.0               |              | 122.70                     |
| 23   | 20,835    | 0.00          | 0.0               |              | 123.57                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**

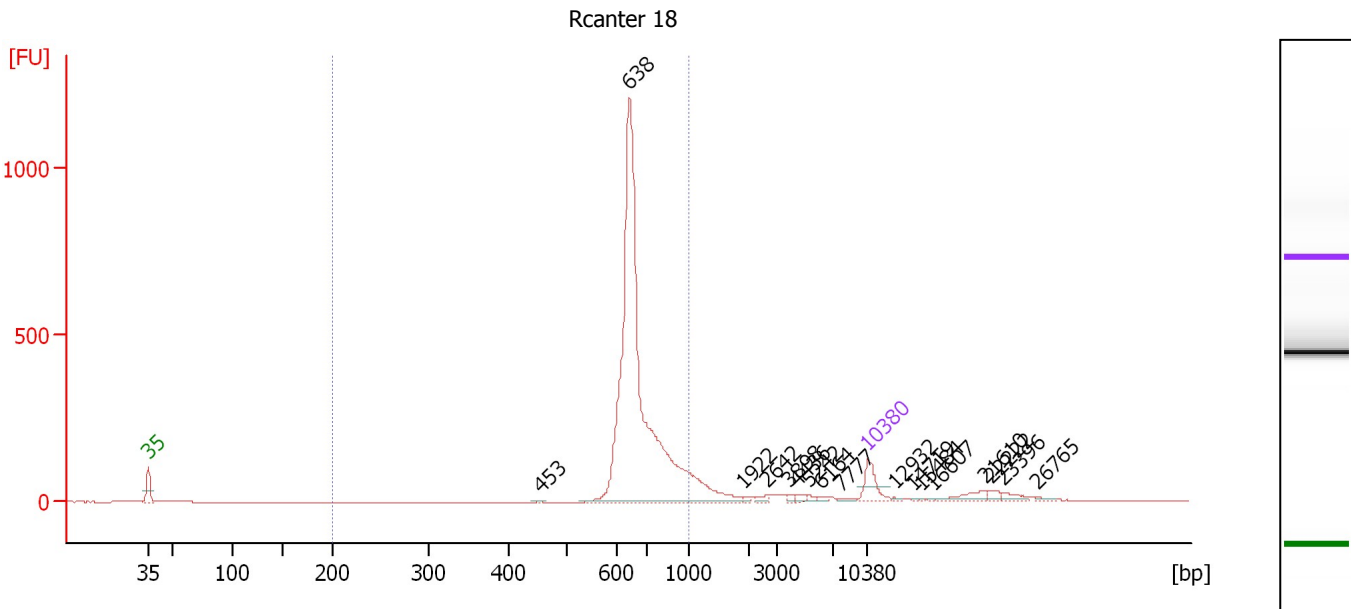
... Region table for sample 6 : RSchmidt 12

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ $\mu$ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total  | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200       | 1,000   | 509               | 1,042.96            | 2,410.9    | 3,177.9           |  87 | 15.5                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Rcanter 18**

Number of peaks found: 17                      Corr. Area 1: 2,815.6  
 Noise: 0.5

**Peak table for sample 7 : Rcanter 18**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 453       | 3.74          | 12.5              |              | 81.12                      |
| 3    | 638       | 2,070.85      | 4,918.1           |              | 89.79                      |
| 4    | 1,922     | 6.50          | 5.1               |              | 100.93                     |
| 5    | 2,642     | 12.85         | 7.4               |              | 103.20                     |
| 6    | 3,898     | 8.96          | 3.5               |              | 105.42                     |
| 7    | 4,436     | 11.87         | 4.1               |              | 106.14                     |
| 8    | 5,242     | 9.55          | 2.8               |              | 107.22                     |
| 9    | 6,164     | 8.16          | 2.0               |              | 108.46                     |
| 10   | 7,777     | 8.45          | 1.6               |              | 110.37                     |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 12   | 12,932    | 0.00          | 0.0               |              | 115.58                     |
| 13   | 14,719    | 0.00          | 0.0               |              | 117.38                     |
| 14   | 15,484    | 0.00          | 0.0               |              | 118.16                     |
| 15   | 16,607    | 0.00          | 0.0               |              | 119.29                     |
| 16   | 21,610    | 0.00          | 0.0               |              | 124.35                     |
| 17   | 22,222    | 0.00          | 0.0               |              | 124.97                     |
| 18   | 23,396    | 0.00          | 0.0               |              | 126.15                     |
| 19   | 26,765    | 0.00          | 0.0               |              | 129.56                     |

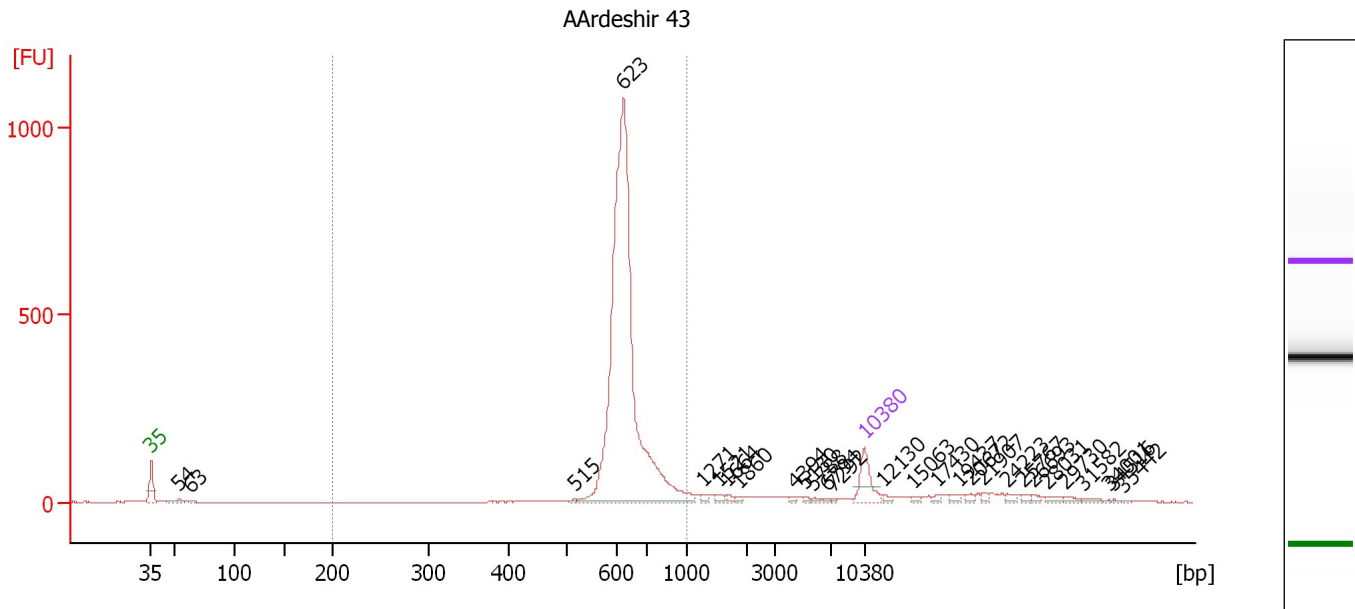
**Region table for sample 7 : Rcanter 18**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200       | 1,000   | 682               | 1,853.05      | 2,815.6    | 4,180.8           | 84                | 13.2                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : AArdeshir 43**

Number of peaks found: 28                      Corr. Area 1: 2,876.2  
 Noise: 0.7

**Peak table for sample 8 : AArdeshir 43**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 54        | 15.54         | 438.2             |              | 45.76                      |
| 3    | 63        | 6.55          | 157.3             |              | 46.85                      |
| 4    | 515       | 2.94          | 8.6               |              | 84.50                      |
| 5    | 623       | 1,812.03      | 4,410.1           |              | 89.34                      |
| 6    | 1,271     | 7.49          | 8.9               |              | 97.14                      |
| 7    | 1,521     | 10.19         | 10.1              |              | 98.59                      |
| 8    | 1,664     | 7.93          | 7.2               |              | 99.43                      |
| 9    | 1,860     | 5.40          | 4.4               |              | 100.57                     |
| 10   | 4,394     | 5.99          | 2.1               |              | 106.08                     |
| 11   | 5,130     | 5.05          | 1.5               |              | 107.07                     |
| 12   | 5,788     | 5.55          | 1.5               |              | 107.96                     |
| 13   | 6,794     | 3.91          | 0.9               |              | 109.31                     |
| 14   | 7,292     | 3.23          | 0.7               |              | 109.88                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 16   | 12,130    | 0.00          | 0.0               |              | 114.77                     |
| 17   | 15,063    | 0.00          | 0.0               |              | 117.73                     |
| 18   | 17,430    | 0.00          | 0.0               |              | 120.12                     |
| 19   | 19,437    | 0.00          | 0.0               |              | 122.15                     |
| 20   | 20,672    | 0.00          | 0.0               |              | 123.40                     |
| 21   | 21,907    | 0.00          | 0.0               |              | 124.65                     |
| 22   | 24,223    | 0.00          | 0.0               |              | 126.99                     |
| 23   | 25,767    | 0.00          | 0.0               |              | 128.55                     |
| 24   | 26,693    | 0.00          | 0.0               |              | 129.49                     |
| 25   | 28,031    | 0.00          | 0.0               |              | 130.84                     |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : AArdeshir 43

| Peak | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26   | 29,730    | 0.00                | 0.0               |              | 132.55                     |
| 27   | 31,582    | 0.00                | 0.0               |              | 134.43                     |
| 28   | 34,001    | 0.00                | 0.0               |              | 136.87                     |
| 29   | 34,516    | 0.00                | 0.0               |              | 137.39                     |
| 30   | 35,442    | 0.00                | 0.0               |              | 138.33                     |

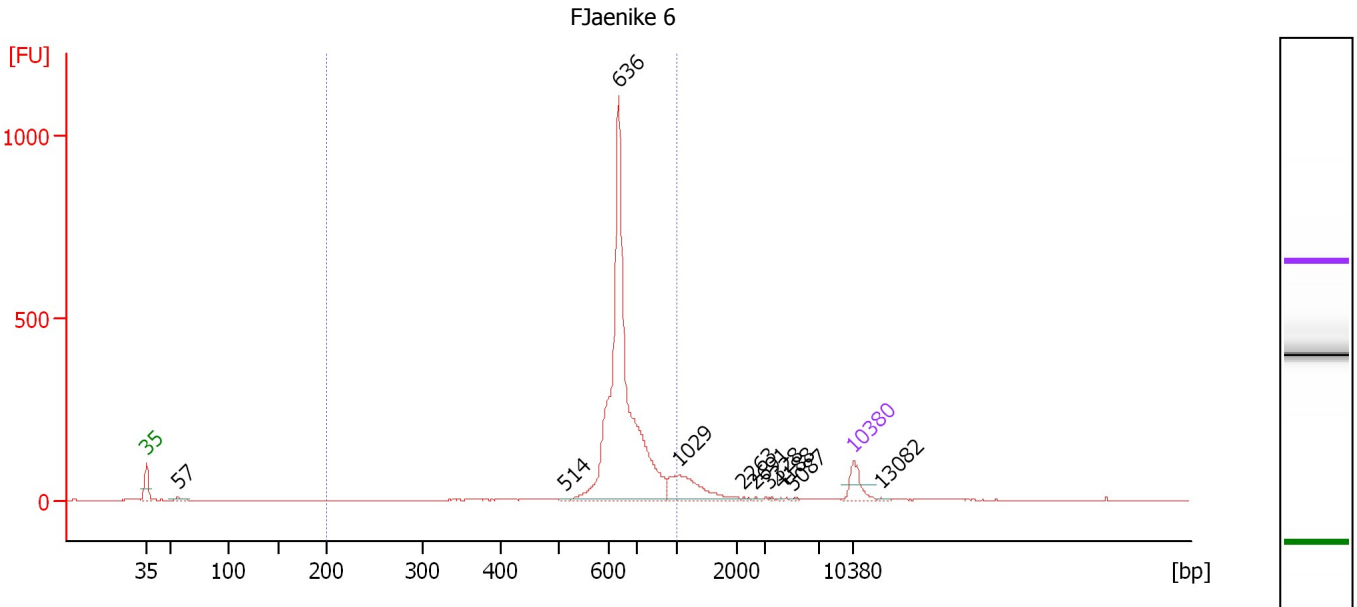
#### Region table for sample 8 : AArdeshir 43

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ $\mu$ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|-------------------|-----------------------------|
| 200       | 1,000   | 636               | 1,809.23            | 2,876.2    | 4,352.5           | 84                | 10.8                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : FJaenike 6**

Number of peaks found: 10                      Corr. Area 1: 2,238.9  
 Noise: 0.5

**Peak table for sample 9 : FJaenike 6**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 57        | 19.57         | 519.3             |              | 46.15                      |
| 3    | 514       | 7.36          | 21.7              |              | 84.43                      |
| 4    | 636       | 1,723.70      | 4,104.7           |              | 89.74                      |
| 5    | 1,029     | 204.87        | 301.8             |              | 95.72                      |
| 6    | 2,263     | 4.50          | 3.0               |              | 102.13                     |
| 7    | 2,691     | 5.21          | 2.9               |              | 103.34                     |
| 8    | 3,328     | 3.54          | 1.6               |              | 104.65                     |
| 9    | 4,188     | 3.50          | 1.3               |              | 105.81                     |
| 10   | 5,087     | 4.47          | 1.3               |              | 107.01                     |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 12   | 13,082    | 0.00          | 0.0               |              | 115.73                     |

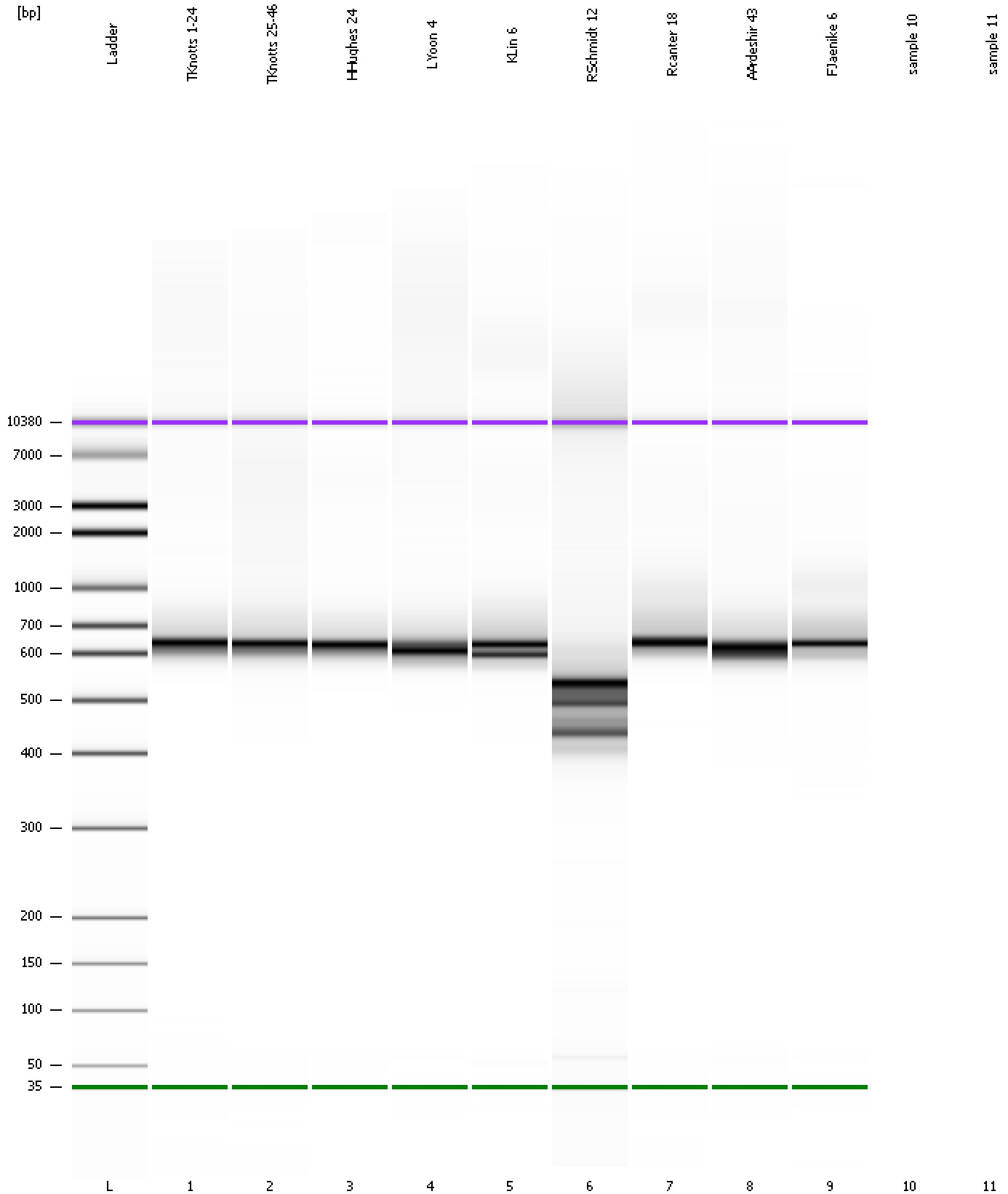
**Region table for sample 9 : FJaenike 6**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200       | 1,000   | 669               | 1,780.33      | 2,238.9    | 4,104.8           | 88                | 13.4                        |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Gel Image**

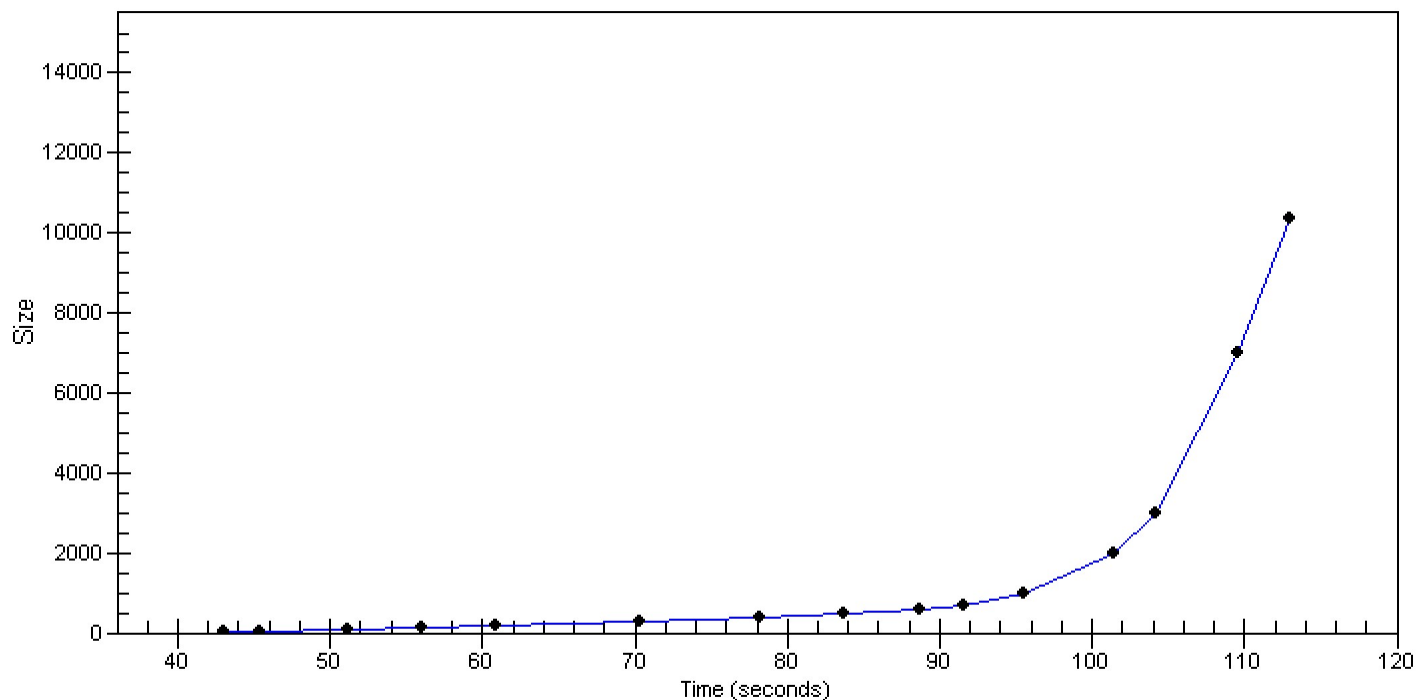


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
Modified: 6/25/2019 9:11:48 AM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-25\2019-06-25\_001.xad

Created: 6/25/2019 8:36:15 AM  
 Modified: 6/25/2019 9:11:48 AM

**Run Logbook**

| Description  | Number | Source     | Category | Sub Category | Time                 | Time Zone                           | User     | Host     |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 10)   |        | Instrument | Run      |              | 6/25/2019 9:11:47 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-06-25\2019-06-25_001.xad) |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C  |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152   |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 6/25/2019 8:36:20 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |