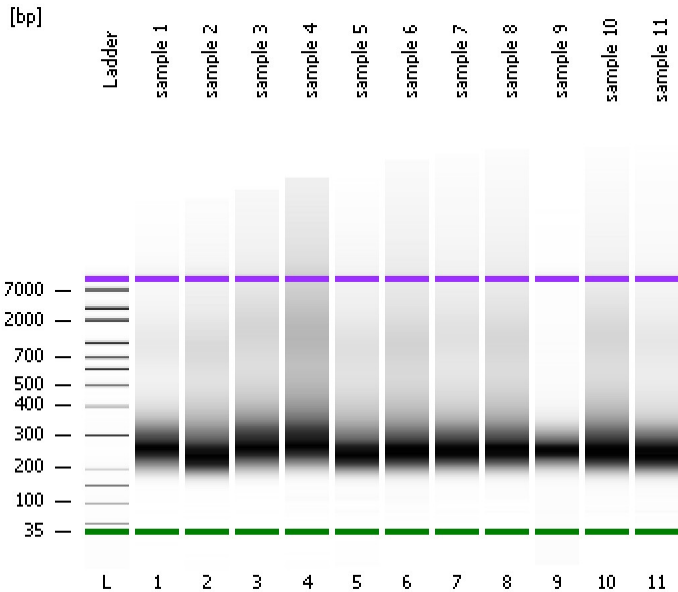


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electrophoresis File Run Summary



Instrument Information:

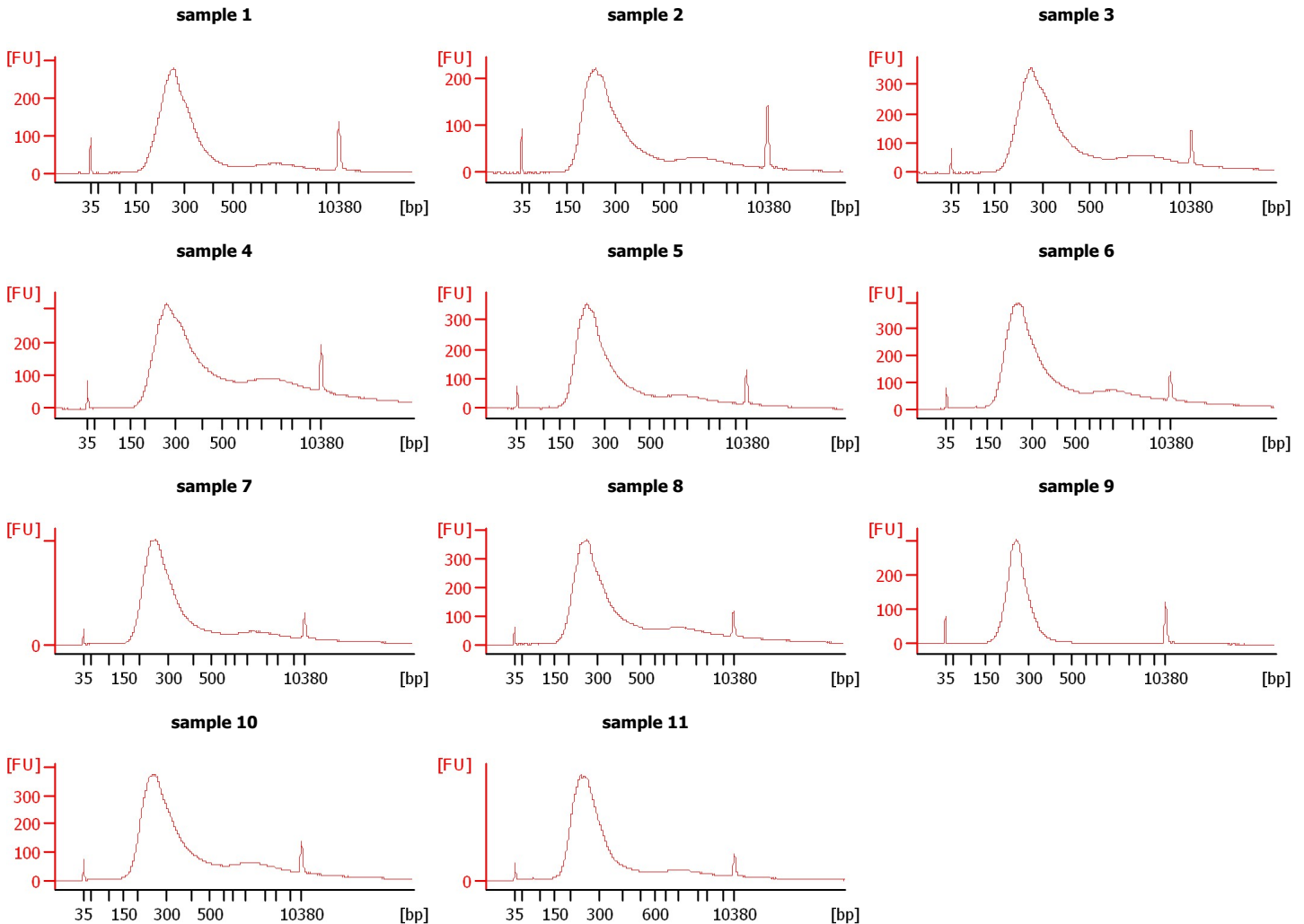
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| sample 1 | | <input type="checkbox"/> | ✓ | | | |
| sample 2 | | <input type="checkbox"/> | ✓ | | | |
| sample 3 | | <input type="checkbox"/> | ✓ | | | |
| sample 4 | | <input type="checkbox"/> | ✓ | | | |
| sample 5 | | <input type="checkbox"/> | ✓ | | | |
| sample 6 | | <input type="checkbox"/> | ✓ | | | |
| sample 7 | | <input type="checkbox"/> | ✓ | | | |
| sample 8 | | <input type="checkbox"/> | ✓ | | | |
| sample 9 | | <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\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

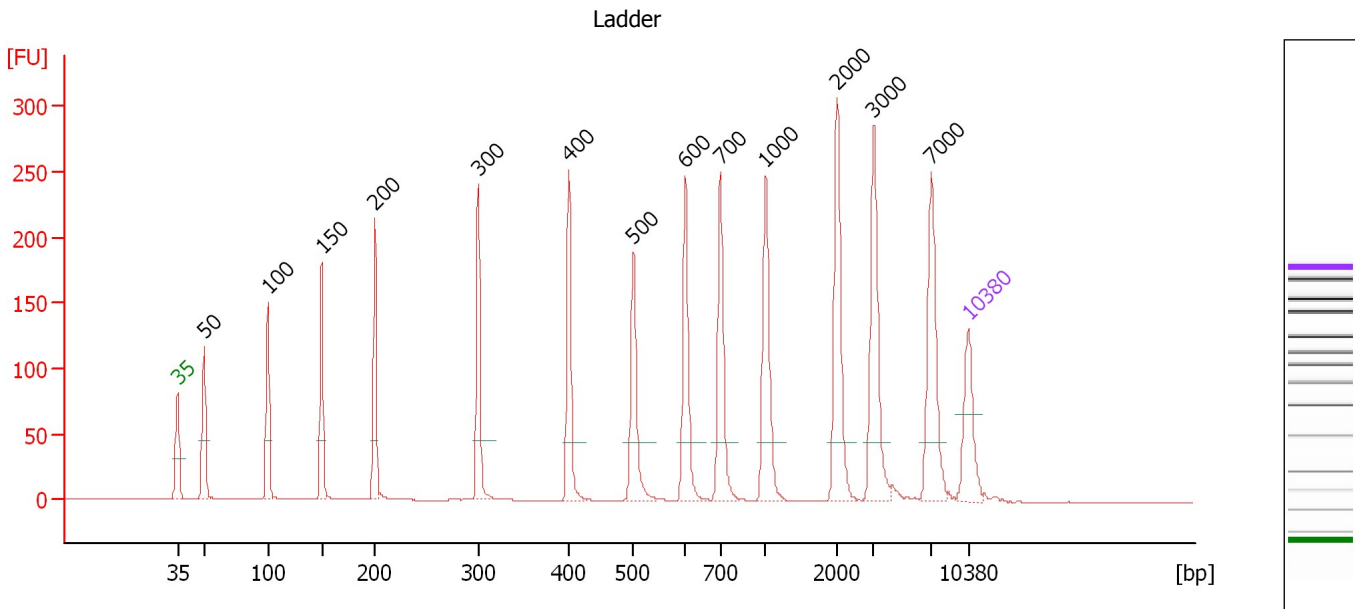
Ladder

| 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\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

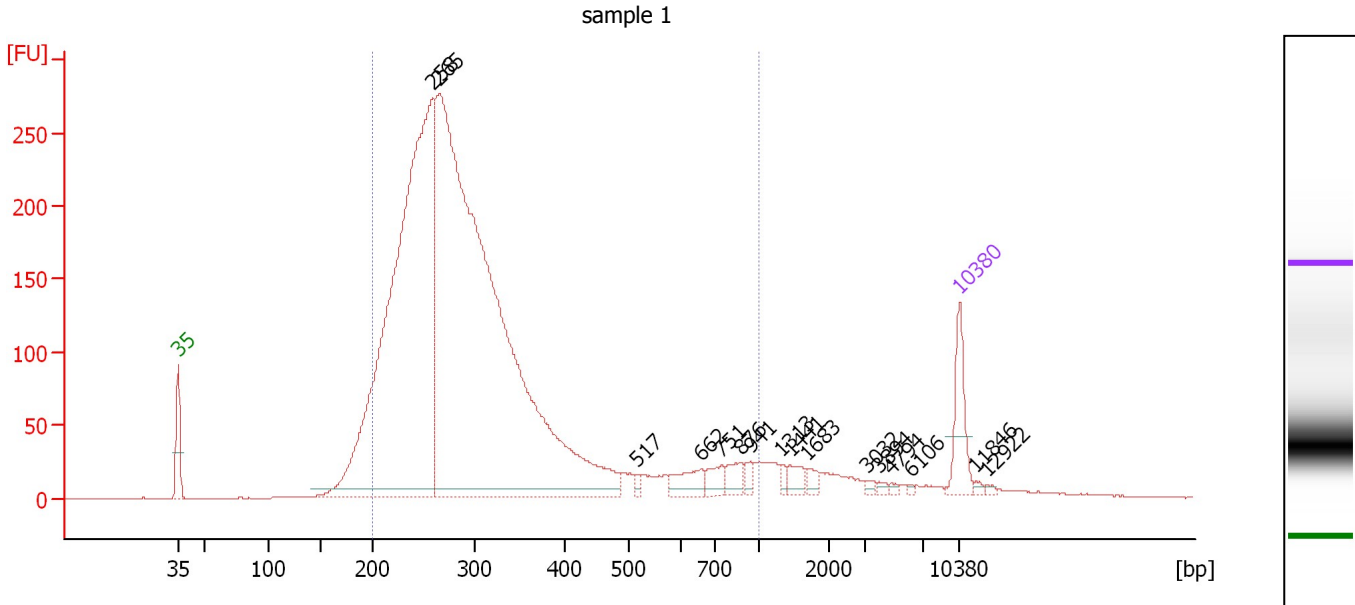
Peak table for Ladder

| 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 | 45.36 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.02 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.78 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.45 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.60 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.62 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.33 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.95 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.02 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.03 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.35 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.60 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.70 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 16 Corr. Area 1: 4,509.7
 Noise: 0.3

Peak table for sample 1 : sample 1

| 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 | 258 | 1,980.14 | 11,620.9 | | 65.78 |
| 3 | 265 | 2,862.76 | 16,370.6 | | 66.40 |
| 4 | 517 | 9.85 | 28.9 | | 84.11 |
| 5 | 662 | 49.98 | 114.5 | | 89.84 |
| 6 | 751 | 30.37 | 61.3 | | 91.70 |
| 7 | 876 | 30.58 | 52.9 | | 93.38 |
| 8 | 941 | 16.43 | 26.5 | | 94.23 |
| 9 | 1,313 | 10.03 | 11.6 | | 97.00 |
| 10 | 1,441 | 23.95 | 25.2 | | 97.82 |
| 11 | 1,683 | 15.48 | 13.9 | | 99.34 |
| 12 | 3,032 | 5.74 | 2.9 | | 104.64 |
| 13 | 3,894 | 5.94 | 2.3 | | 105.74 |
| 14 | 4,794 | 4.28 | 1.4 | | 106.89 |
| 15 | 6,106 | 2.72 | 0.7 | | 108.56 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 11,846 | 0.00 | 0.0 | | 114.43 |
| 18 | 12,922 | 0.00 | 0.0 | | 115.48 |

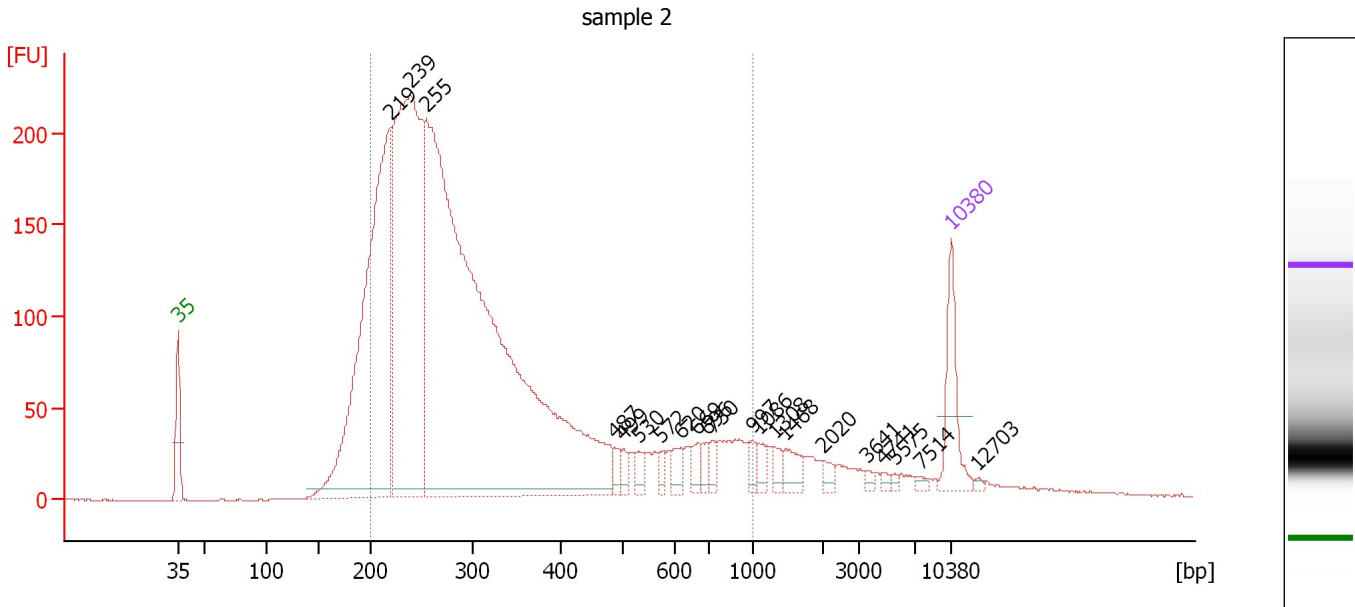
Region table for sample 1 : sample 1

| 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 | 317 | 4,679.59 | 4,509.7 | 25,072.3 | 90 | 40.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 21 Corr. Area 1: 4,125.1
 Noise: 0.3

Peak table for sample 2 : sample 2

| 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 | 219 | 975.69 | 6,742.8 | | 62.21 |
| 3 | 239 | 1,002.64 | 6,362.6 | | 64.00 |
| 4 | 255 | 2,290.10 | 13,629.2 | | 65.45 |
| 5 | 487 | 16.45 | 51.2 | | 82.59 |
| 6 | 499 | 15.57 | 47.3 | | 83.26 |
| 7 | 530 | 18.63 | 53.3 | | 84.71 |
| 8 | 572 | 13.47 | 35.7 | | 86.64 |
| 9 | 620 | 23.39 | 57.1 | | 88.57 |
| 10 | 669 | 19.63 | 44.5 | | 90.07 |
| 11 | 696 | 20.31 | 44.2 | | 90.89 |
| 12 | 730 | 16.95 | 35.2 | | 91.42 |
| 13 | 997 | 13.25 | 20.1 | | 94.99 |
| 14 | 1,086 | 16.17 | 22.6 | | 95.57 |
| 15 | 1,308 | 14.94 | 17.3 | | 96.97 |
| 16 | 1,468 | 27.52 | 28.4 | | 97.99 |
| 17 | 2,020 | 11.94 | 9.0 | | 101.41 |
| 18 | 3,641 | 5.12 | 2.1 | | 105.42 |
| 19 | 4,741 | 5.36 | 1.7 | | 106.82 |
| 20 | 5,575 | 3.49 | 0.9 | | 107.88 |
| 21 | 7,514 | 4.97 | 1.0 | | 110.20 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 23 | 12,703 | 0.00 | 0.0 | | 115.27 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...

... Region table for sample 2 :

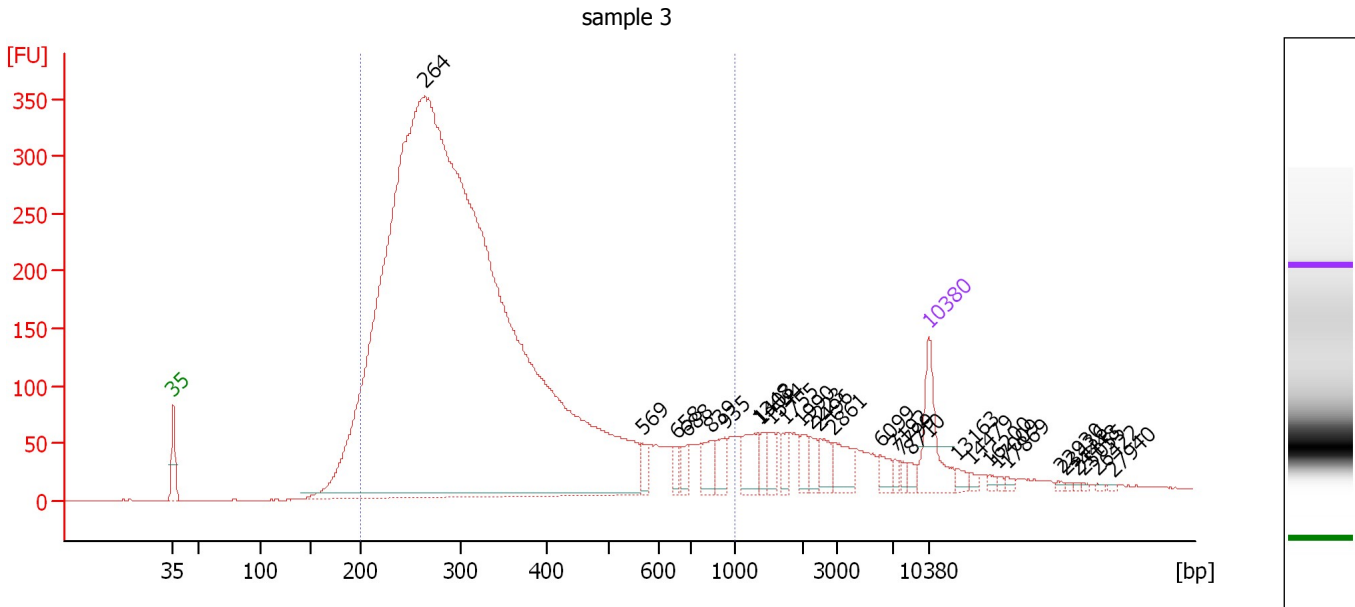
sample 2

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 333 | 3,951.40 | 4,125.1 | 21,248.1 |  84 | 45.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 29 Corr. Area 1: 6,887.3
 Noise: 0.3

Peak table for sample 3 : sample 3

| 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 | 264 | 5,386.92 | 30,949.4 | | 66.28 |
| 3 | 569 | 23.68 | 63.1 | | 86.50 |
| 4 | 658 | 18.78 | 43.3 | | 89.72 |
| 5 | 688 | 23.39 | 51.5 | | 90.66 |
| 6 | 839 | 37.40 | 67.5 | | 92.88 |
| 7 | 935 | 34.37 | 55.7 | | 94.17 |
| 8 | 1,348 | 45.94 | 51.6 | | 97.23 |
| 9 | 1,403 | 21.12 | 22.8 | | 97.58 |
| 10 | 1,544 | 23.46 | 23.0 | | 98.47 |
| 11 | 1,755 | 19.72 | 17.0 | | 99.80 |
| 12 | 1,990 | 19.32 | 14.7 | | 101.28 |
| 13 | 2,223 | 20.55 | 14.0 | | 102.07 |
| 14 | 2,496 | 27.96 | 17.0 | | 102.96 |
| 15 | 2,861 | 39.24 | 20.8 | | 104.15 |
| 16 | 6,099 | 18.74 | 4.7 | | 108.55 |
| 17 | 7,192 | 8.84 | 1.9 | | 109.89 |
| 18 | 7,799 | 7.52 | 1.5 | | 110.48 |
| 19 | 8,710 | 9.21 | 1.6 | | 111.37 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 21 | 13,163 | 0.00 | 0.0 | | 115.72 |
| 22 | 14,479 | 0.00 | 0.0 | | 117.00 |
| 23 | 16,200 | 0.00 | 0.0 | | 118.69 |
| 24 | 17,009 | 0.00 | 0.0 | | 119.48 |
| 25 | 17,869 | 0.00 | 0.0 | | 120.32 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 22,930 | 0.00 | 0.0 | | 125.26 |
| 27 | 23,436 | 0.00 | 0.0 | | 125.75 |
| 28 | 24,448 | 0.00 | 0.0 | | 126.74 |
| 29 | 25,055 | 0.00 | 0.0 | | 127.34 |
| 30 | 26,422 | 0.00 | 0.0 | | 128.67 |
| 31 | 27,940 | 0.00 | 0.0 | | 130.15 |

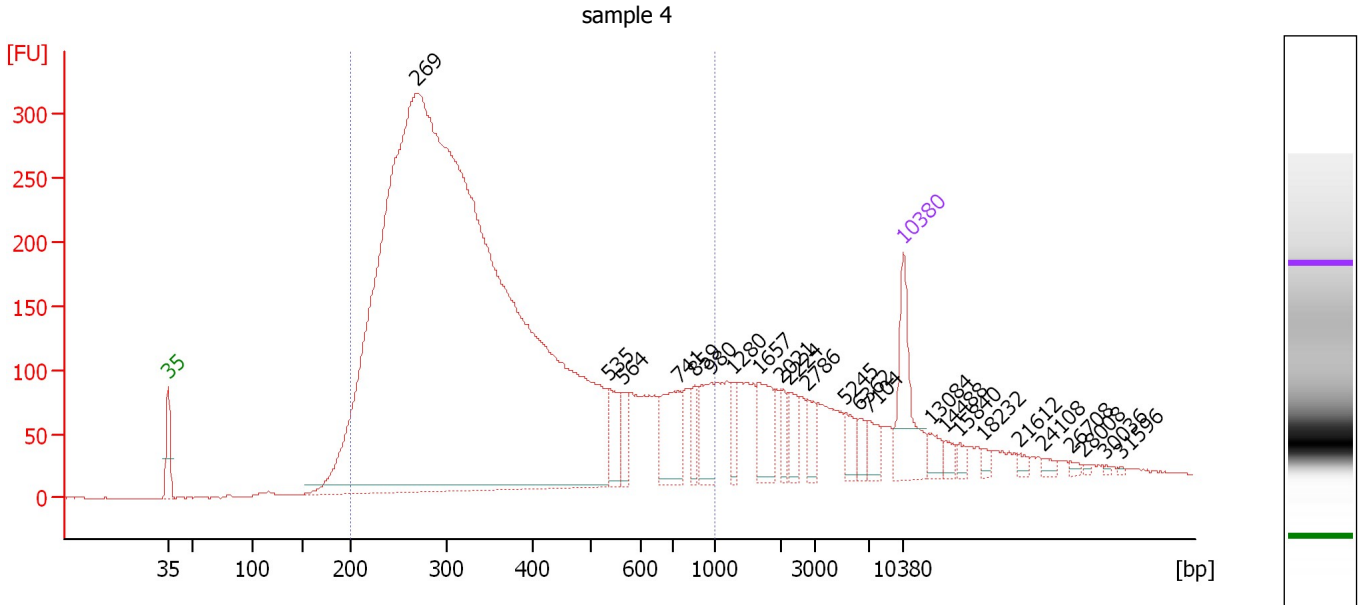
Region table for sample 3 : sample 3

| 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 | 343 | 4,991.59 | 6,887.3 | 25,406.6 |  86 | 41.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 24 Corr. Area 1: 7,009.6
 Noise: 0.3

Peak table for sample 4 : sample 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 | 269 | 3,756.66 | 21,197.5 | | 66.72 |
| 3 | 535 | 48.16 | 136.3 | | 84.96 |
| 4 | 564 | 29.50 | 79.3 | | 86.28 |
| 5 | 741 | 77.95 | 159.5 | | 91.56 |
| 6 | 859 | 25.10 | 44.3 | | 93.14 |
| 7 | 980 | 51.35 | 79.4 | | 94.76 |
| 8 | 1,280 | 21.19 | 25.1 | | 96.80 |
| 9 | 1,657 | 51.17 | 46.8 | | 99.18 |
| 10 | 2,021 | 16.80 | 12.6 | | 101.42 |
| 11 | 2,224 | 27.05 | 18.4 | | 102.08 |
| 12 | 2,786 | 21.08 | 11.5 | | 103.91 |
| 13 | 5,245 | 21.10 | 6.1 | | 107.46 |
| 14 | 6,362 | 14.83 | 3.5 | | 108.89 |
| 15 | 7,104 | 19.15 | 4.1 | | 109.80 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 13,084 | 0.00 | 0.0 | | 115.64 |
| 18 | 14,488 | 0.00 | 0.0 | | 117.01 |
| 19 | 15,840 | 0.00 | 0.0 | | 118.33 |
| 20 | 18,232 | 0.00 | 0.0 | | 120.67 |
| 21 | 21,612 | 0.00 | 0.0 | | 123.97 |
| 22 | 24,108 | 0.00 | 0.0 | | 126.41 |
| 23 | 26,708 | 0.00 | 0.0 | | 128.95 |
| 24 | 28,008 | 0.00 | 0.0 | | 130.22 |
| 25 | 30,036 | 0.00 | 0.0 | | 132.20 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...**... Peak table for sample 4 : sample 4**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 31,596 | 0.00 | 0.0 | | 133.73 |

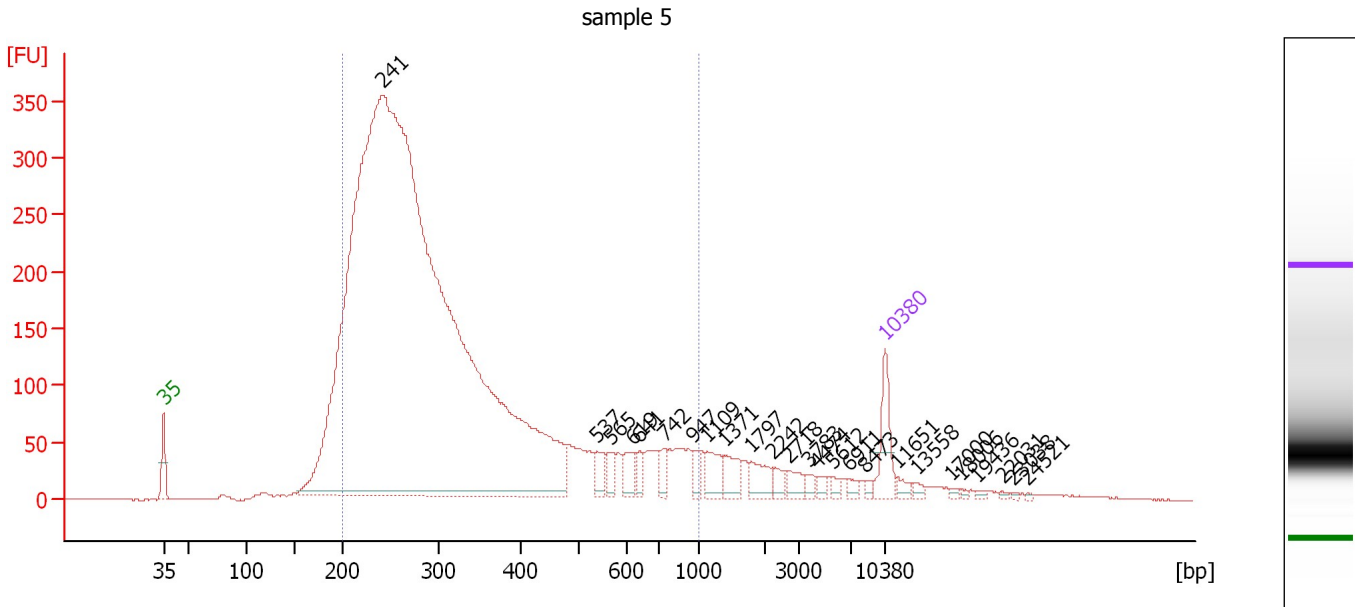
Region table for sample 4 : sample 4

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 377 | 3,697.86 | 7,009.6 | 17,744.3 |  82 | 43.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 25 Corr. Area 1: 6,304.1
 Noise: 0.5

Peak table for sample 5 : sample 5

| 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 | 241 | 6,851.98 | 43,063.5 | | 64.21 |
| 3 | 537 | 41.84 | 117.9 | | 85.06 |
| 4 | 565 | 29.68 | 79.5 | | 86.36 |
| 5 | 619 | 47.74 | 116.9 | | 88.53 |
| 6 | 641 | 27.43 | 64.9 | | 89.20 |
| 7 | 742 | 32.58 | 66.5 | | 91.58 |
| 8 | 847 | 28.38 | 45.4 | | 94.32 |
| 9 | 1,109 | 54.00 | 73.8 | | 95.72 |
| 10 | 1,371 | 46.54 | 51.4 | | 97.38 |
| 11 | 1,797 | 44.79 | 37.8 | | 100.07 |
| 12 | 2,242 | 21.97 | 14.8 | | 102.14 |
| 13 | 2,718 | 26.96 | 15.0 | | 103.69 |
| 14 | 3,783 | 13.09 | 5.2 | | 105.60 |
| 15 | 4,474 | 14.24 | 4.8 | | 106.48 |
| 16 | 5,612 | 10.84 | 2.9 | | 107.93 |
| 17 | 6,911 | 12.12 | 2.7 | | 109.59 |
| 18 | 8,473 | 6.41 | 1.1 | | 111.14 |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 20 | 11,651 | 0.00 | 0.0 | | 114.24 |
| 21 | 13,558 | 0.00 | 0.0 | | 116.10 |
| 22 | 17,006 | 0.00 | 0.0 | | 119.47 |
| 23 | 18,006 | 0.00 | 0.0 | | 120.45 |
| 24 | 19,436 | 0.00 | 0.0 | | 121.85 |
| 25 | 22,031 | 0.00 | 0.0 | | 124.38 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : sample 5**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 23,038 | 0.00 | 0.0 | | 125.37 |
| 27 | 24,521 | 0.00 | 0.0 | | 126.81 |

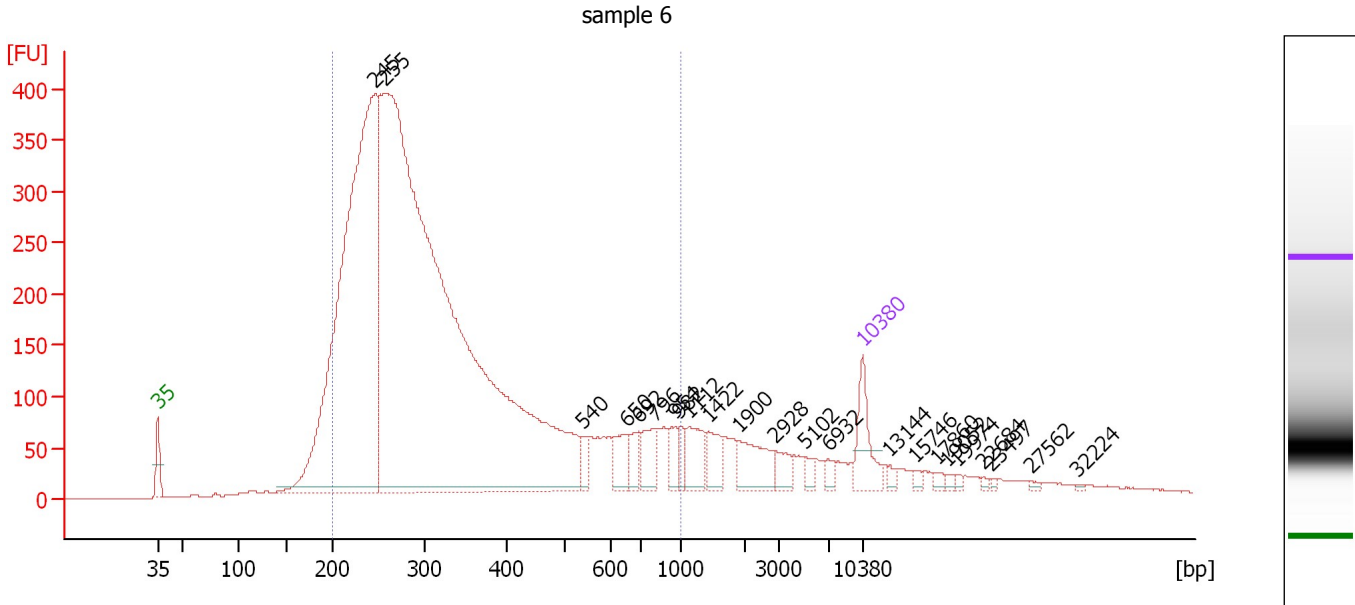
Region table for sample 5 : sample 5

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 332 | 6,493.57 | 6,304.1 | 34,721.7 |  86 | 44.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 23 Corr. Area 1: 7,668.1
 Noise: 0.3

Peak table for sample 6 : sample 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 | 245 | 1,991.72 | 12,328.4 | | 64.55 |
| 3 | 255 | 4,104.77 | 24,426.2 | | 65.45 |
| 4 | 540 | 39.08 | 109.6 | | 85.20 |
| 5 | 650 | 61.12 | 142.5 | | 89.49 |
| 6 | 692 | 44.94 | 98.5 | | 90.76 |
| 7 | 796 | 59.37 | 113.1 | | 92.30 |
| 8 | 954 | 36.53 | 58.0 | | 94.41 |
| 9 | 982 | 26.00 | 40.1 | | 94.79 |
| 10 | 1,112 | 71.38 | 97.2 | | 95.74 |
| 11 | 1,422 | 52.25 | 55.7 | | 97.70 |
| 12 | 1,900 | 80.42 | 64.1 | | 100.72 |
| 13 | 2,928 | 33.41 | 17.3 | | 104.37 |
| 14 | 5,102 | 15.61 | 4.6 | | 107.28 |
| 15 | 6,932 | 13.53 | 3.0 | | 109.61 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 13,144 | 0.00 | 0.0 | | 115.70 |
| 18 | 15,746 | 0.00 | 0.0 | | 118.24 |
| 19 | 17,860 | 0.00 | 0.0 | | 120.31 |
| 20 | 19,052 | 0.00 | 0.0 | | 121.47 |
| 21 | 19,974 | 0.00 | 0.0 | | 122.37 |
| 22 | 22,684 | 0.00 | 0.0 | | 125.02 |
| 23 | 23,497 | 0.00 | 0.0 | | 125.81 |
| 24 | 27,562 | 0.00 | 0.0 | | 129.79 |
| 25 | 32,224 | 0.00 | 0.0 | | 134.34 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

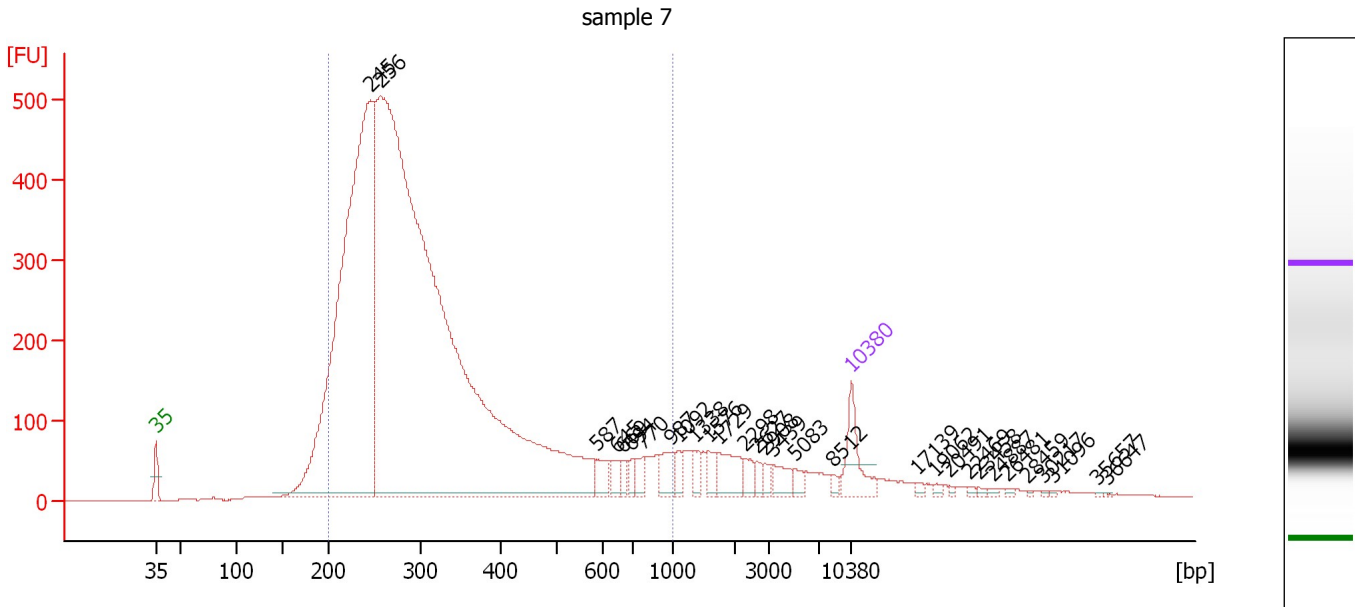
sample 6

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 346 | 5,850.78 | 7,668.1 | 30,357.6 |  83 | 45.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 30 Corr. Area 1: 8,894.1
 Noise: 0.3

Peak table for sample 7 : sample 7

| 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 | 245 | 2,111.88 | 13,055.2 | | 64.58 |
| 3 | 256 | 4,509.37 | 26,663.6 | | 65.60 |
| 4 | 587 | 39.71 | 102.5 | | 87.34 |
| 5 | 645 | 29.48 | 69.3 | | 89.33 |
| 6 | 669 | 20.09 | 45.5 | | 90.08 |
| 7 | 694 | 20.79 | 45.4 | | 90.83 |
| 8 | 770 | 30.18 | 59.4 | | 91.96 |
| 9 | 987 | 44.46 | 68.3 | | 94.86 |
| 10 | 1,092 | 20.82 | 28.9 | | 95.61 |
| 11 | 1,338 | 26.21 | 29.7 | | 97.16 |
| 12 | 1,576 | 27.43 | 26.4 | | 98.67 |
| 13 | 1,729 | 63.89 | 56.0 | | 99.63 |
| 14 | 2,298 | 23.24 | 15.3 | | 102.32 |
| 15 | 2,627 | 16.34 | 9.4 | | 103.39 |
| 16 | 2,908 | 13.37 | 7.0 | | 104.30 |
| 17 | 3,439 | 33.63 | 14.8 | | 105.16 |
| 18 | 5,083 | 15.40 | 4.6 | | 107.26 |
| 19 | 8,512 | 8.33 | 1.5 | | 111.17 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 21 | 17,139 | 0.00 | 0.0 | | 119.60 |
| 22 | 19,062 | 0.00 | 0.0 | | 121.48 |
| 23 | 20,491 | 0.00 | 0.0 | | 122.88 |
| 24 | 22,469 | 0.00 | 0.0 | | 124.81 |
| 25 | 23,458 | 0.00 | 0.0 | | 125.78 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : sample 7

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 24,887 | 0.00 | 0.0 | | 127.17 |
| 27 | 26,481 | 0.00 | 0.0 | | 128.73 |
| 28 | 28,459 | 0.00 | 0.0 | | 130.66 |
| 29 | 30,217 | 0.00 | 0.0 | | 132.38 |
| 30 | 31,096 | 0.00 | 0.0 | | 133.24 |
| 31 | 35,657 | 0.00 | 0.0 | | 137.69 |
| 32 | 36,647 | 0.00 | 0.0 | | 138.66 |

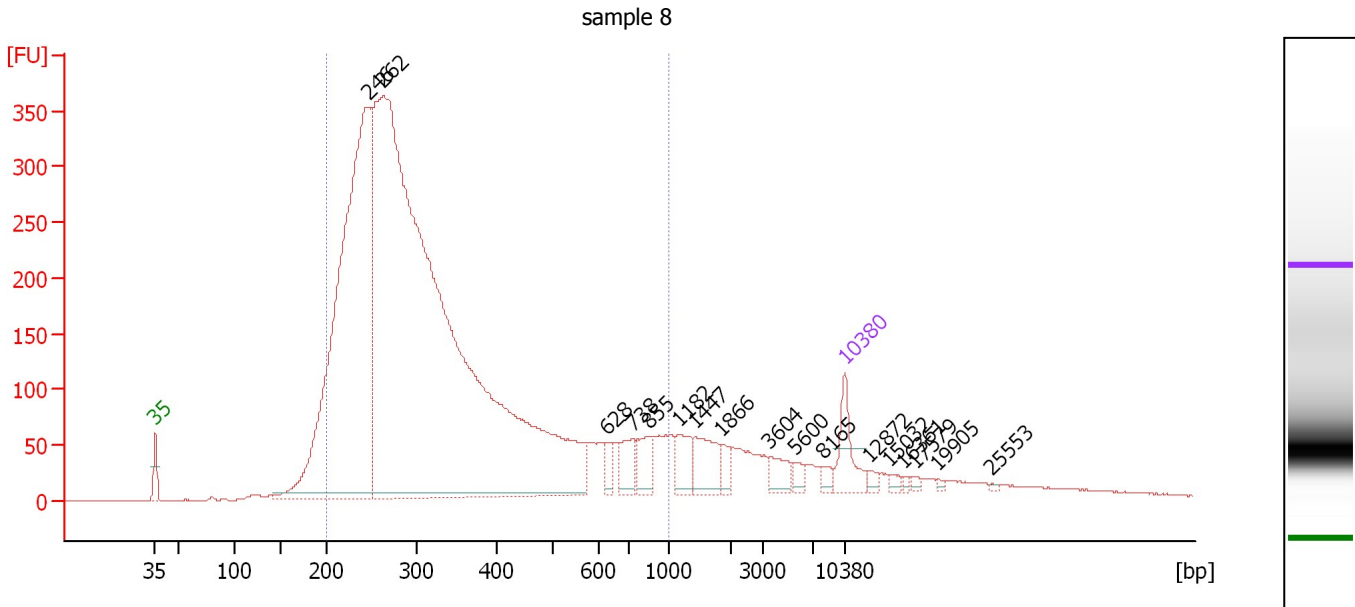
Region table for sample 7 : sample 7

| 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 | 328 | 6,159.06 | 8,894.1 | 32,599.9 |  86 | 42.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 17 Corr. Area 1: 6,790.7
 Noise: 0.2

Peak table for sample 8 : sample 8

| 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 | 246 | 2,056.29 | 12,678.5 | | 64.64 |
| 3 | 262 | 4,634.44 | 26,771.3 | | 66.15 |
| 4 | 628 | 32.26 | 77.8 | | 88.82 |
| 5 | 738 | 72.34 | 148.6 | | 91.52 |
| 6 | 855 | 64.46 | 114.2 | | 93.09 |
| 7 | 1,182 | 62.94 | 80.7 | | 96.18 |
| 8 | 1,447 | 89.80 | 94.0 | | 97.85 |
| 9 | 1,866 | 25.93 | 21.0 | | 100.50 |
| 10 | 3,604 | 39.70 | 16.7 | | 105.37 |
| 11 | 5,600 | 16.67 | 4.5 | | 107.91 |
| 12 | 8,165 | 15.75 | 2.9 | | 110.84 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 14 | 12,872 | 0.00 | 0.0 | | 115.43 |
| 15 | 15,032 | 0.00 | 0.0 | | 117.54 |
| 16 | 16,361 | 0.00 | 0.0 | | 118.84 |
| 17 | 17,579 | 0.00 | 0.0 | | 120.03 |
| 18 | 19,905 | 0.00 | 0.0 | | 122.30 |
| 19 | 25,553 | 0.00 | 0.0 | | 127.82 |

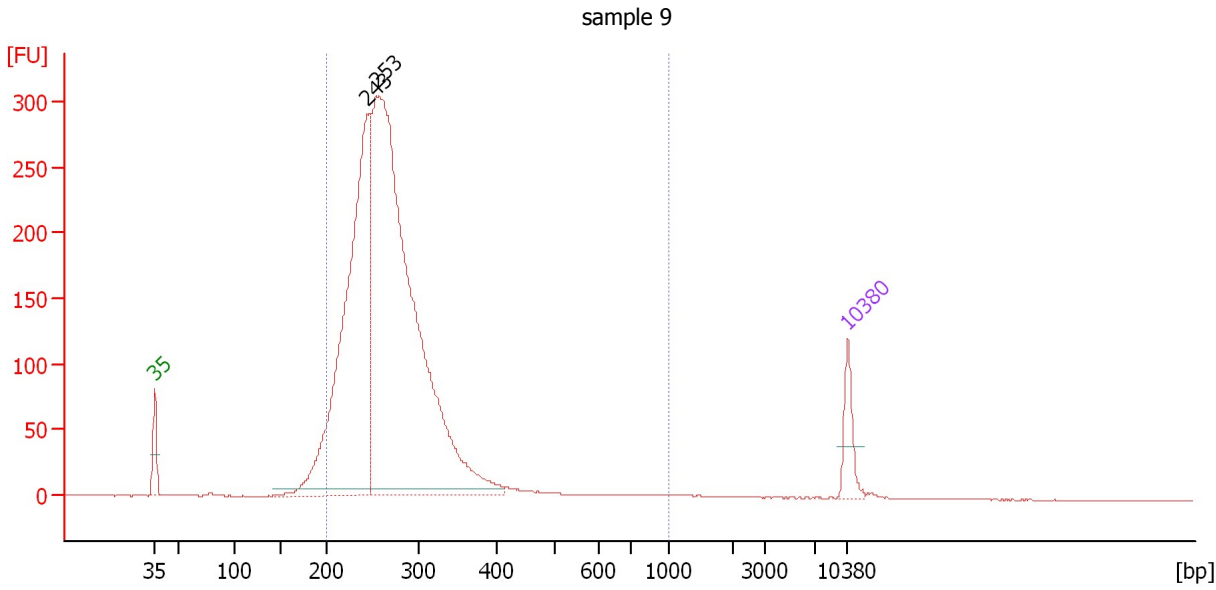
Region table for sample 8 : sample 8

| 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 | 345 | 6,300.28 | 6,790.7 | 32,521.3 | 84 | 43.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 2 Corr. Area 1: 3,459.0
 Noise: 0.2

Peak table for sample 9 : sample 9

| 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 | 243 | 1,566.96 | 9,751.4 | | 64.43 |
| 3 | 253 | 2,755.24 | 16,469.6 | | 65.35 |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

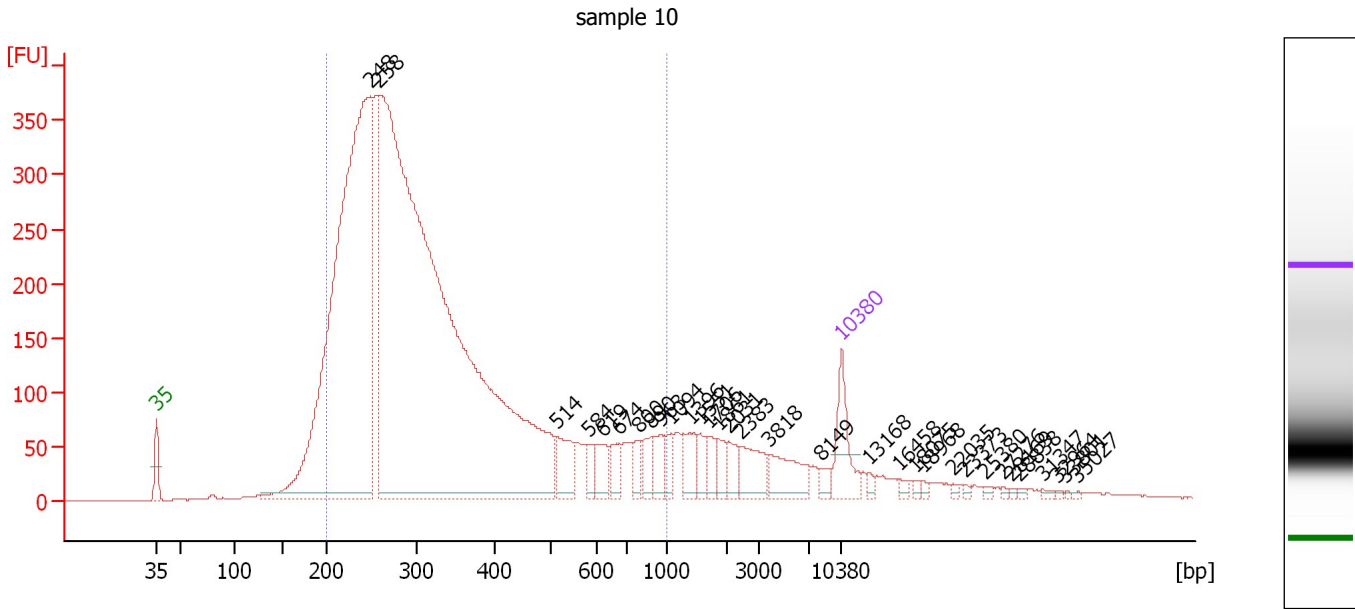
Region table for sample 9 : sample 9

| 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 | 273 | 4,191.65 | 3,459.0 | 24,023.2 | 95 | 22.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 32 Corr. Area 1: 7,312.2
 Noise: 0.3

Peak table for sample 10 : sample 10

| 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 | 248 | 2,016.10 | 12,317.8 | | 64.84 |
| 3 | 258 | 3,707.44 | 21,763.3 | | 65.77 |
| 4 | 514 | 83.28 | 245.6 | | 83.96 |
| 5 | 584 | 24.89 | 64.5 | | 87.23 |
| 6 | 619 | 52.18 | 127.7 | | 88.54 |
| 7 | 674 | 36.18 | 81.3 | | 90.23 |
| 8 | 800 | 32.68 | 61.9 | | 92.35 |
| 9 | 890 | 40.03 | 68.2 | | 93.55 |
| 10 | 963 | 39.99 | 62.9 | | 94.53 |
| 11 | 1,094 | 28.08 | 38.9 | | 95.62 |
| 12 | 1,396 | 50.07 | 54.4 | | 97.53 |
| 13 | 1,551 | 28.81 | 28.1 | | 98.51 |
| 14 | 1,706 | 30.28 | 26.9 | | 99.49 |
| 15 | 1,861 | 23.63 | 19.2 | | 100.47 |
| 16 | 2,031 | 29.74 | 22.2 | | 101.45 |
| 17 | 2,383 | 62.61 | 39.8 | | 102.60 |
| 18 | 3,818 | 68.97 | 27.4 | | 105.65 |
| 19 | 8,149 | 14.76 | 2.7 | | 110.82 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 21 | 13,168 | 0.00 | 0.0 | | 115.72 |
| 22 | 16,458 | 0.00 | 0.0 | | 118.94 |
| 23 | 18,075 | 0.00 | 0.0 | | 120.52 |
| 24 | 18,968 | 0.00 | 0.0 | | 121.39 |
| 25 | 22,035 | 0.00 | 0.0 | | 124.39 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : sample 10

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 23,373 | 0.00 | 0.0 | | 125.69 |
| 27 | 25,380 | 0.00 | 0.0 | | 127.65 |
| 28 | 27,276 | 0.00 | 0.0 | | 129.51 |
| 29 | 28,169 | 0.00 | 0.0 | | 130.38 |
| 30 | 28,838 | 0.00 | 0.0 | | 131.03 |
| 31 | 31,347 | 0.00 | 0.0 | | 133.48 |
| 32 | 32,964 | 0.00 | 0.0 | | 135.06 |
| 33 | 33,801 | 0.00 | 0.0 | | 135.88 |
| 34 | 35,027 | 0.00 | 0.0 | | 137.08 |

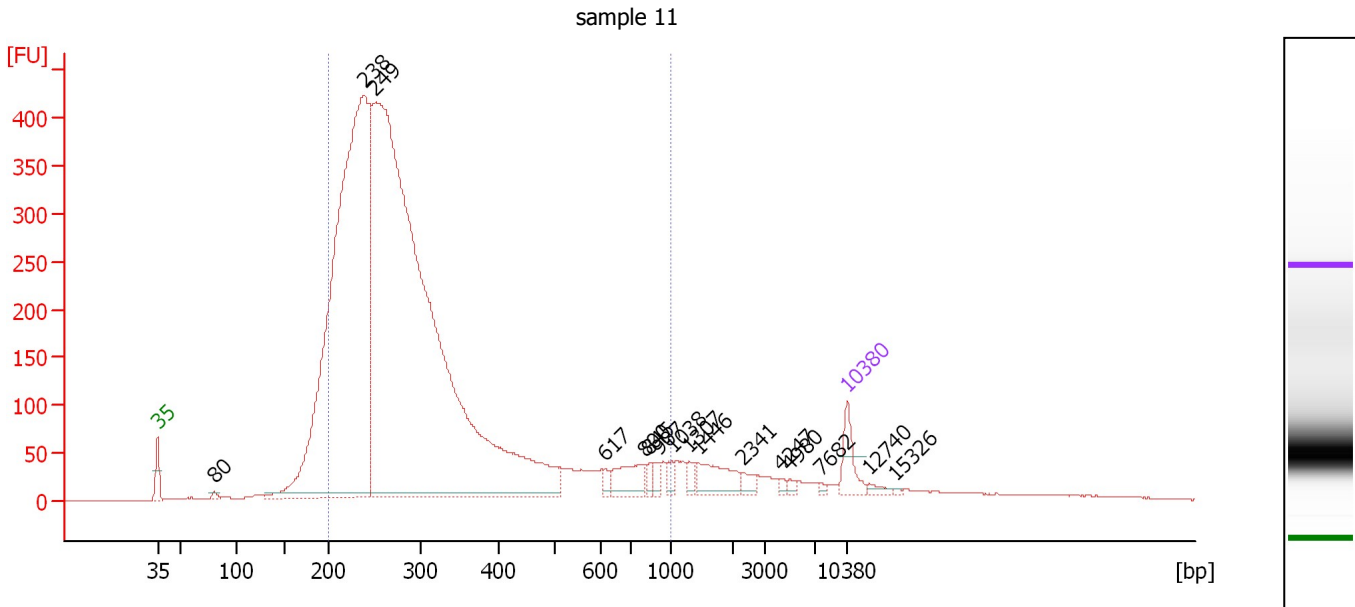
Region table for sample 10 : sample 10

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 341 | 5,697.62 | 7,312.2 | 29,617.8 |  83 | 43.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
 Modified: 6/27/2018 12:20:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 16 Corr. Area 1: 6,924.4
 Noise: 0.2

Peak table for sample 11 : sample 11

| 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 | 80 | 13.88 | 262.5 | | 48.76 |
| 3 | 238 | 3,588.22 | 22,798.9 | | 63.97 |
| 4 | 249 | 5,621.18 | 34,168.6 | | 64.96 |
| 5 | 617 | 28.37 | 69.7 | | 88.46 |
| 6 | 800 | 109.05 | 206.5 | | 92.36 |
| 7 | 845 | 24.67 | 44.2 | | 92.96 |
| 8 | 907 | 24.20 | 40.4 | | 93.78 |
| 9 | 1,038 | 25.22 | 36.8 | | 95.27 |
| 10 | 1,307 | 26.71 | 31.0 | | 96.97 |
| 11 | 1,446 | 112.51 | 117.9 | | 97.85 |
| 12 | 2,341 | 26.20 | 17.0 | | 102.46 |
| 13 | 4,247 | 9.43 | 3.4 | | 106.19 |
| 14 | 4,980 | 10.75 | 3.3 | | 107.13 |
| 15 | 7,682 | 6.57 | 1.3 | | 110.36 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 12,740 | 0.00 | 0.0 | | 115.31 |
| 18 | 15,326 | 0.00 | 0.0 | | 117.83 |

Region table for sample 11 : sample 11

| 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 | 314 | 8,550.52 | 6,924.4 | 46,986.8 | 84 | 42.8 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-27\2018-06-27_001.xad

Created: 6/27/2018 11:39:34 AM
Modified: 6/27/2018 12:20:51 PM

Gel Image

