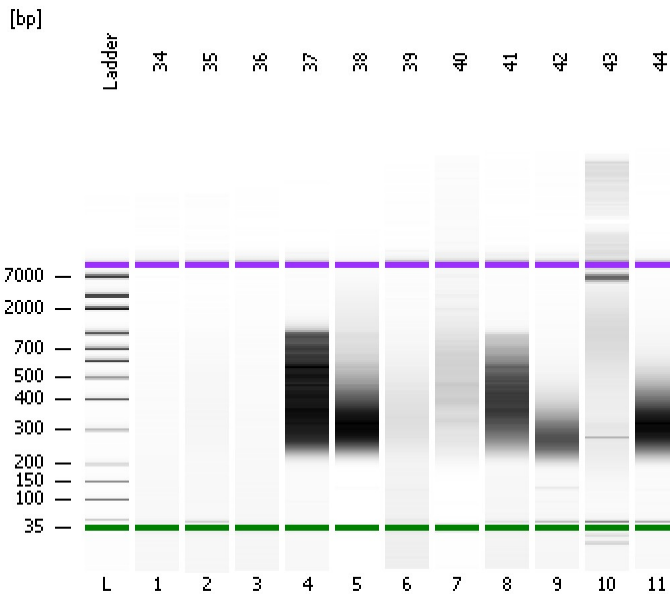


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
Modified: 1/28/2019 3:27:09 PM

Electrophoresis File Run Summary



Instrument Information:

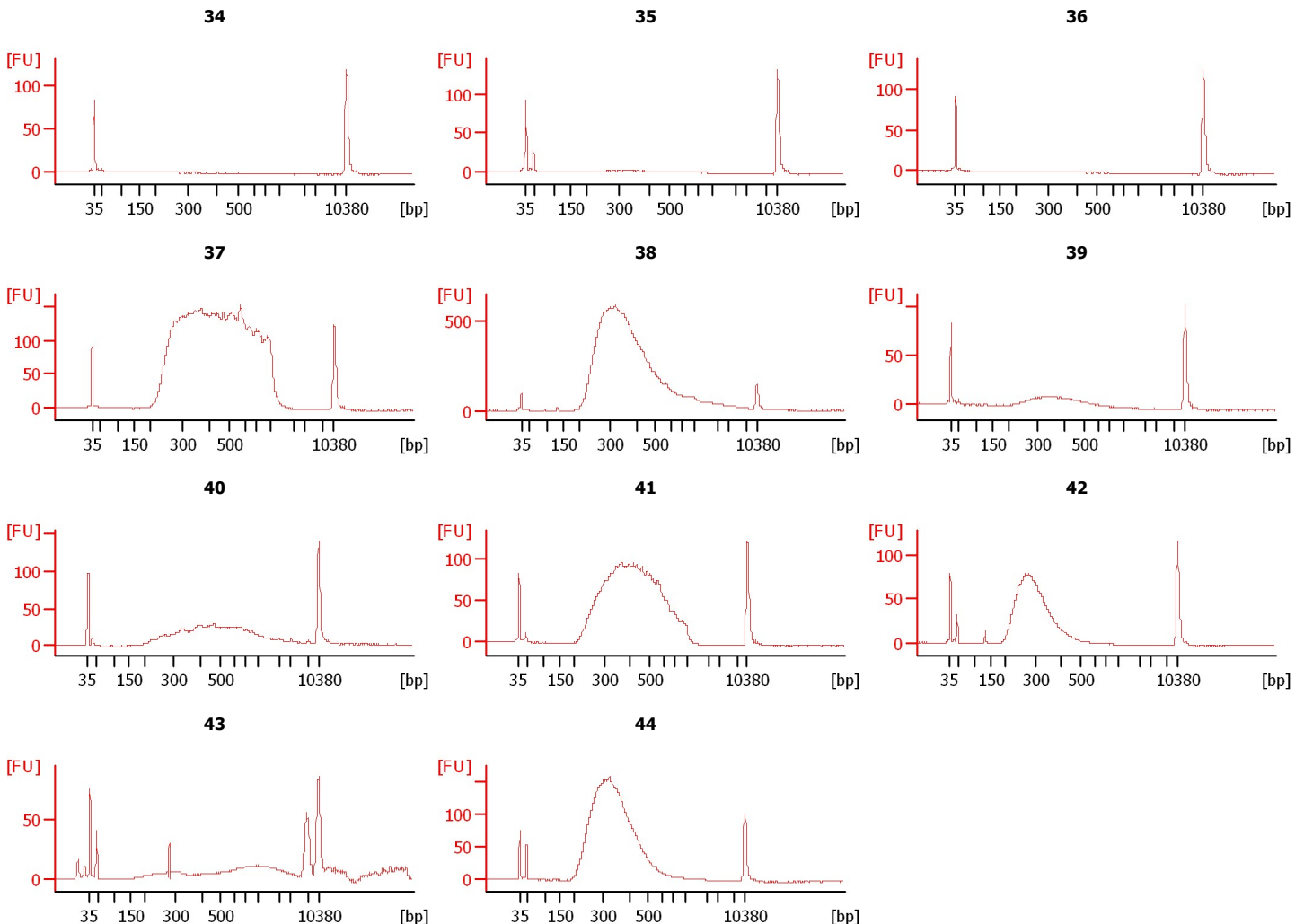
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
Modified: 1/28/2019 3:27:09 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 34 | | <input type="checkbox"/> | ✓ | | | |
| 35 | | <input type="checkbox"/> | ✓ | | | |
| 36 | | <input type="checkbox"/> | ✓ | | | |
| 37 | | <input type="checkbox"/> | ✓ | | | |
| 38 | | <input type="checkbox"/> | ✓ | | | |
| 39 | | <input type="checkbox"/> | ✓ | | | |
| 40 | | <input type="checkbox"/> | ✓ | | | |
| 41 | | <input type="checkbox"/> | ✓ | | | |
| 42 | | <input type="checkbox"/> | ✓ | | | |
| 43 | | <input type="checkbox"/> | ✓ | | | |
| 44 | | <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\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
Modified: 1/28/2019 3:27:09 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/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

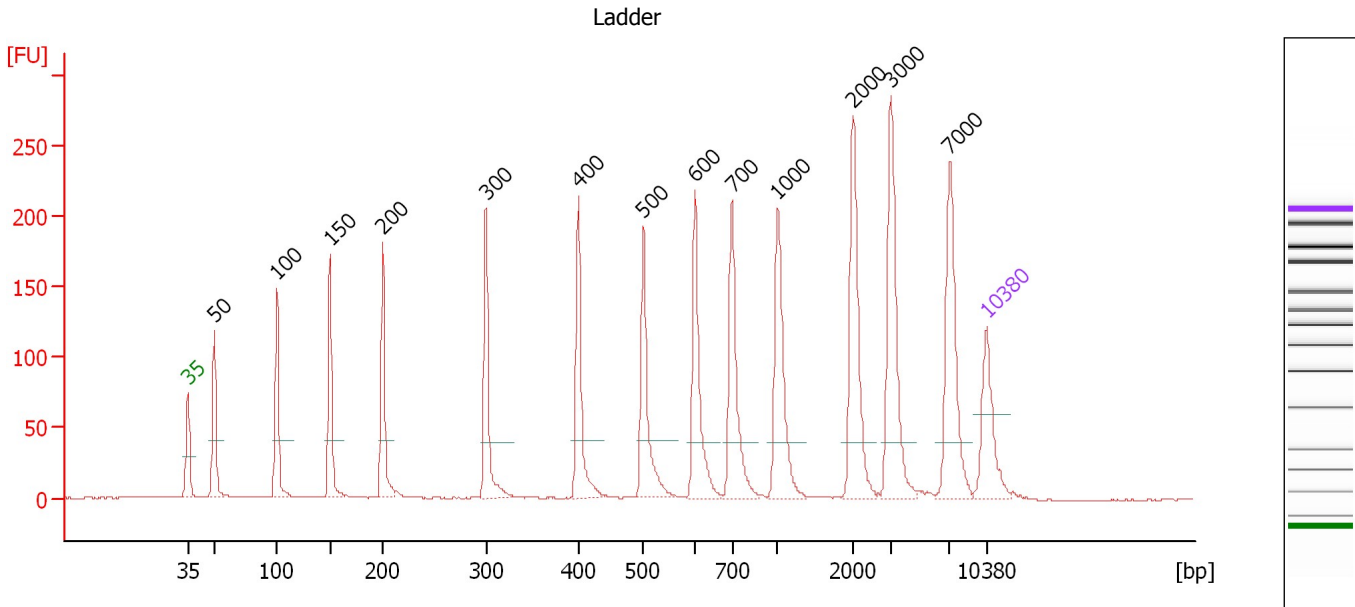
Ladder

| 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\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

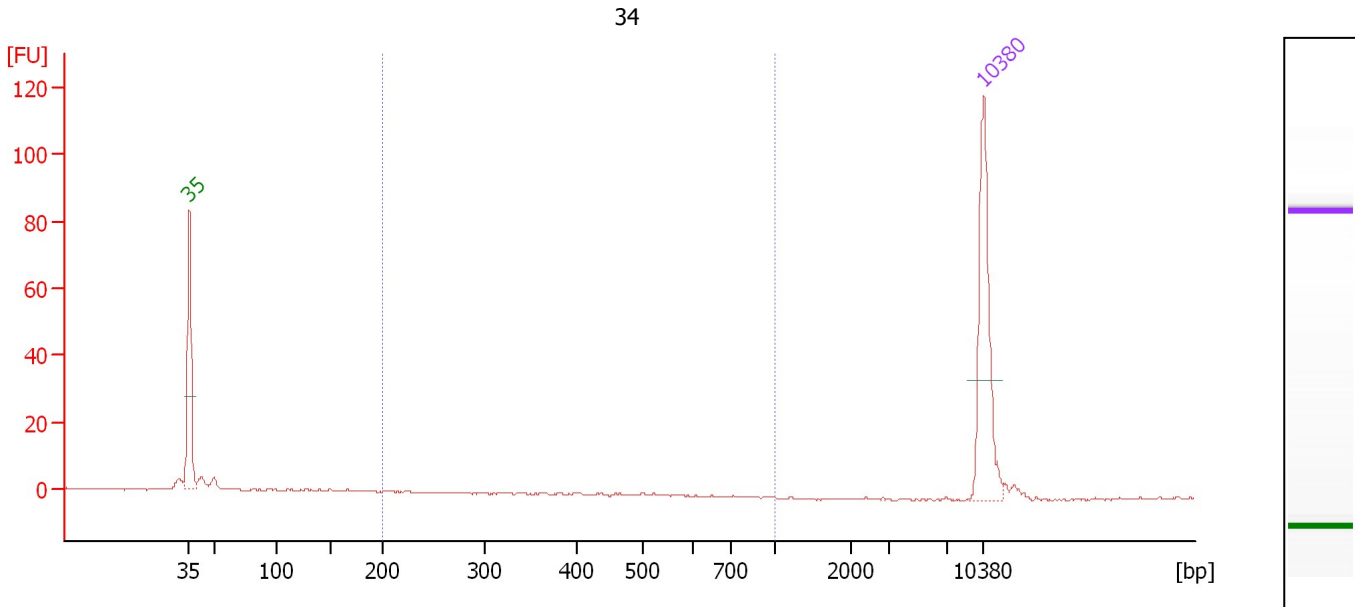
Peak table for Ladder

| 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 | 45.29 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.76 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.43 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.06 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.12 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.21 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.91 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.44 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.66 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.68 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.27 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.59 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.78 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 34

Number of peaks found: 0 Corr. Area 1: 0.7
 Noise: 0.3

Peak table for sample 1 : 34

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

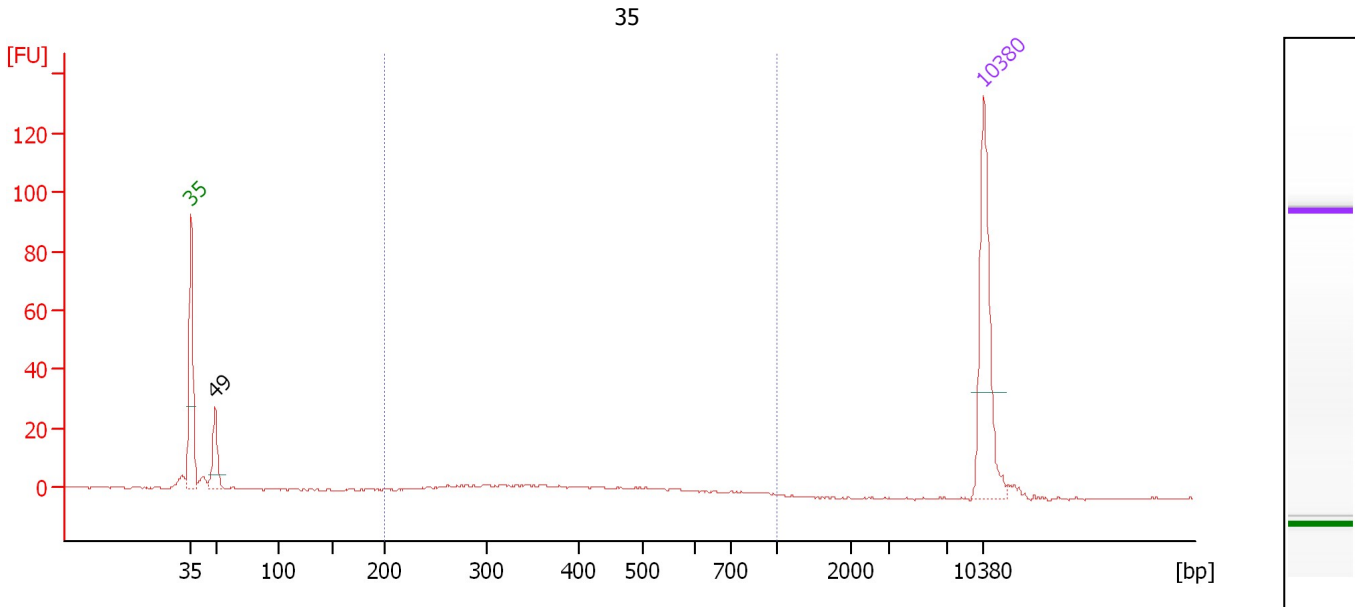
Region table for sample 1 : 34

| 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 | 322 | 0.76 | 0.7 | 4.4 | 2 | 38.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 35

Number of peaks found: 1 Corr. Area 1: 59.3
 Noise: 0.3

Peak table for sample 2 : 35

| 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 | 49 | 39.57 | 1,226.3 | | 45.12 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

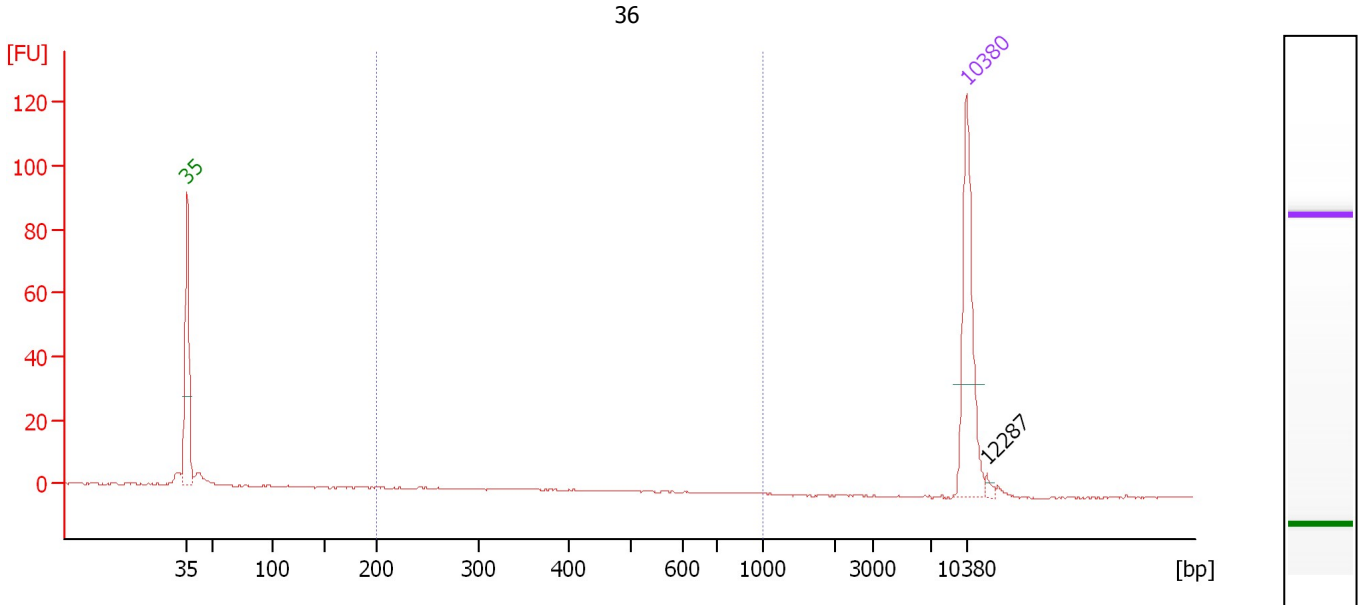
Region table for sample 2 : 35

| 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 | 404 | 53.44 | 59.3 | 228.4 | 52 | 32.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 36

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 3 : 36

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 3 | 12,287 | 0.00 | 0.0 | | 114.82 |

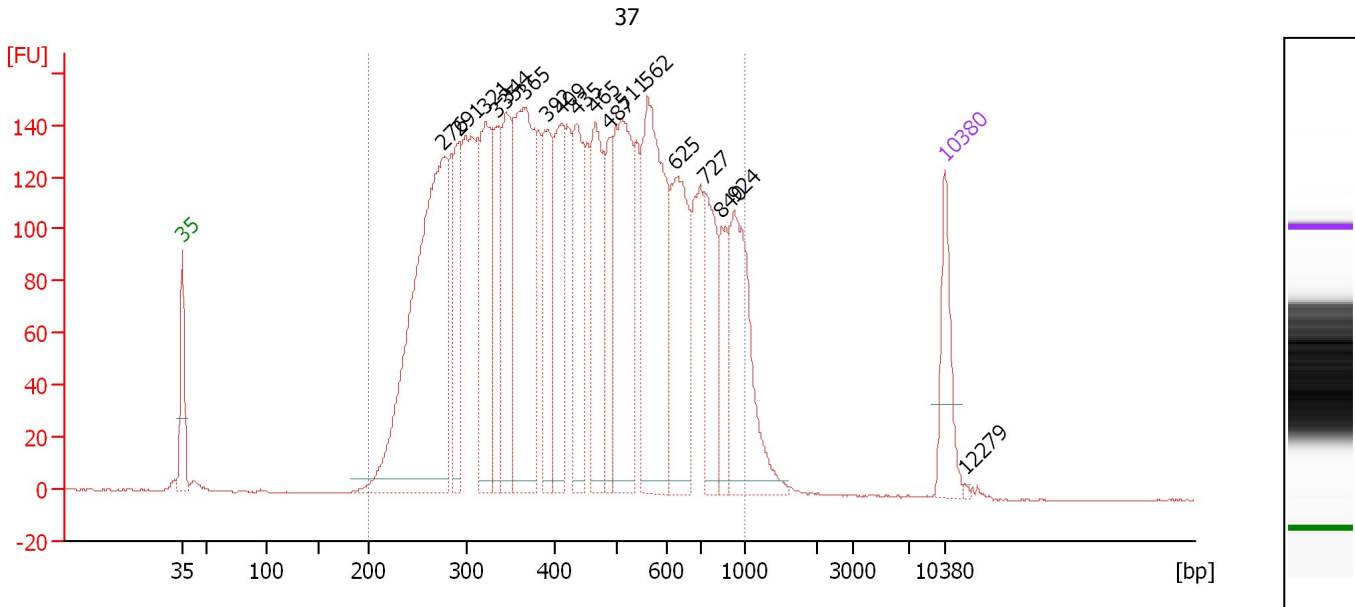
Region table for sample 3 : 36

| 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 | 336 | 0.01 | 0.0 | 0.0 | 0 | 0.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : 37

Number of peaks found: 18 Corr. Area 1: 5,265.7
 Noise: 0.3

Peak table for sample 4 : 37

| 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 | 276 | 763.18 | 4,191.1 | | 66.94 |
| 3 | 291 | 159.16 | 828.6 | | 68.31 |
| 4 | 321 | 252.08 | 1,188.3 | | 70.85 |
| 5 | 335 | 132.19 | 598.4 | | 71.93 |
| 6 | 344 | 180.09 | 792.2 | | 72.71 |
| 7 | 365 | 389.59 | 1,617.2 | | 74.38 |
| 8 | 392 | 163.57 | 632.8 | | 76.53 |
| 9 | 409 | 185.34 | 686.9 | | 77.71 |
| 10 | 435 | 171.89 | 599.4 | | 79.17 |
| 11 | 465 | 196.11 | 639.5 | | 80.89 |
| 12 | 487 | 117.21 | 364.7 | | 82.16 |
| 13 | 511 | 295.41 | 876.7 | | 83.38 |
| 14 | 562 | 362.59 | 976.9 | | 85.73 |
| 15 | 625 | 223.33 | 541.8 | | 88.23 |
| 16 | 727 | 135.31 | 282.1 | | 91.02 |
| 17 | 840 | 78.59 | 141.8 | | 92.54 |
| 18 | 924 | 218.67 | 358.6 | | 93.66 |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 20 | 12,279 | 0.00 | 0.0 | | 114.81 |

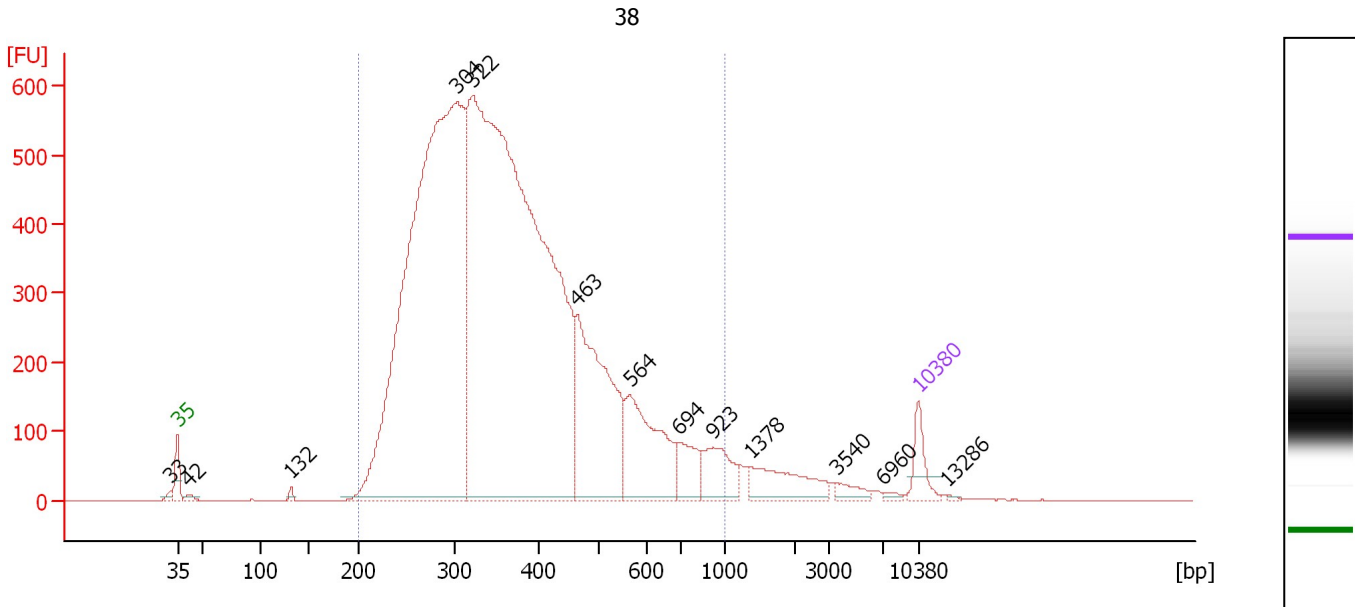
Region table for sample 4 : 37

| 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 | 466 | 4,911.41 | 5,265.7 | 19,260.8 | 97 | 38.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 38

Number of peaks found: 13 Corr. Area 1: 13,602.9
 Noise: 0.3

Peak table for sample 5 : 38

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 33 | 0.00 | 0.0 | | 42.34 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 42 | 20.86 | 747.9 | | 44.11 |
| 4 | 132 | 15.67 | 180.0 | | 53.73 |
| 5 | 304 | 4,175.79 | 20,801.3 | | 69.46 |
| 6 | 322 | 5,250.42 | 24,687.1 | | 70.92 |
| 7 | 463 | 843.43 | 2,760.1 | | 80.80 |
| 8 | 564 | 453.42 | 1,219.1 | | 85.79 |
| 9 | 694 | 140.05 | 305.7 | | 90.47 |
| 10 | 923 | 165.86 | 272.3 | | 93.65 |
| 11 | 1,378 | 173.37 | 190.6 | | 97.18 |
| 12 | 3,540 | 35.80 | 15.3 | | 105.29 |
| 13 | 6,960 | 10.58 | 2.3 | | 109.72 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 15 | 13,286 | 0.00 | 0.0 | | 115.77 |

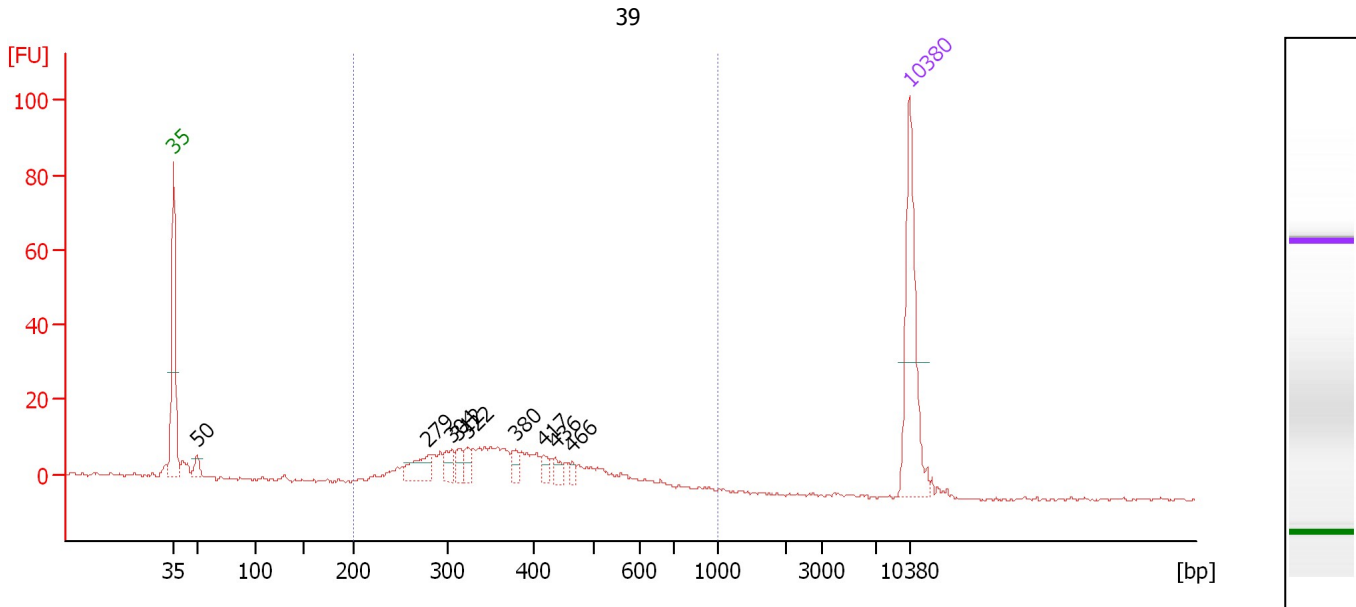
Region table for sample 5 : 38

| 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 | 379 | 10,687.02 | 13,602.9 | 48,068.0 | 96 | 33.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
 Modified: 1/28/2019 3:27:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 39

Number of peaks found: 9 Corr. Area 1: 214.1
 Noise: 0.4

Peak table for sample 6 : 39

| 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 | 10.76 | 328.6 | | 45.23 |
| 3 | 279 | 25.49 | 138.3 | | 67.25 |
| 4 | 304 | 13.96 | 69.5 | | 69.48 |
| 5 | 312 | 10.88 | 52.8 | | 70.09 |
| 6 | 322 | 10.24 | 48.2 | | 70.90 |
| 7 | 380 | 9.21 | 36.7 | | 75.57 |
| 8 | 417 | 7.31 | 26.6 | | 78.15 |
| 9 | 436 | 7.92 | 27.5 | | 79.27 |
| 10 | 466 | 4.77 | 15.5 | | 80.94 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 6 : 39

| 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 | 382 | 236.03 | 214.1 | 1,019.1 | 91 | 25.7 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-28\2019-01-28_004.xad

Created: 1/28/2019 2:46:47 PM
Modified: 1/28/2019 3:27:09 PM

Gel Image

