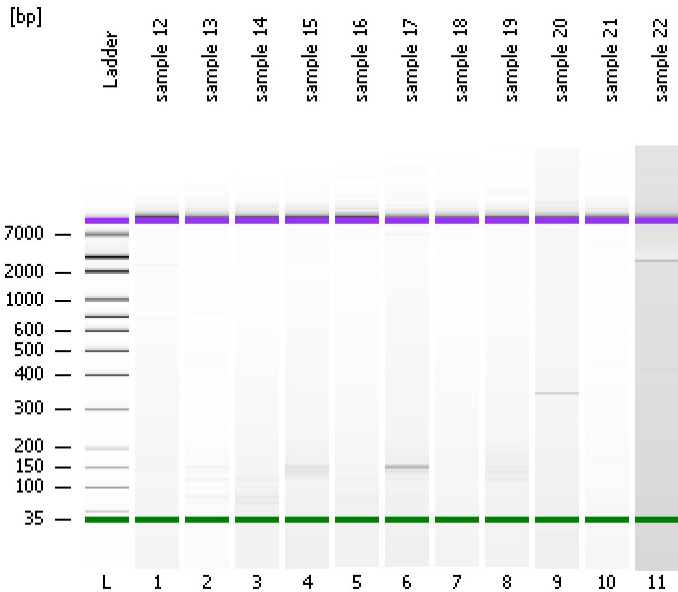


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
Modified: 2/2/2015 11:46:33 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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

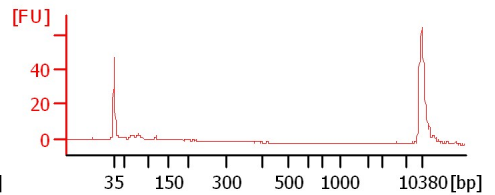
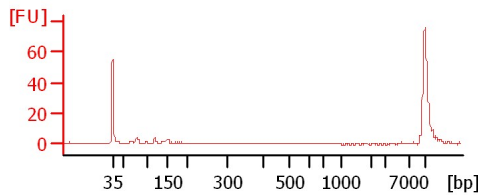
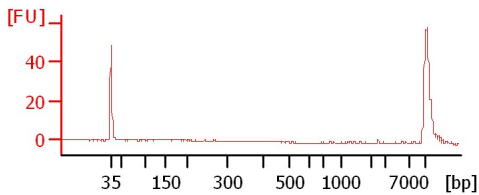
Chip Information:

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

sample 12

sample 13

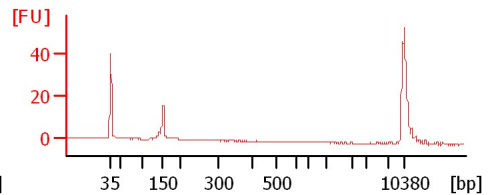
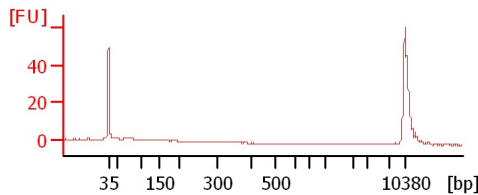
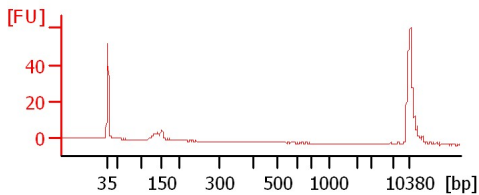
sample 14



sample 15

sample 16

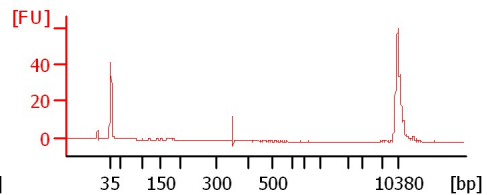
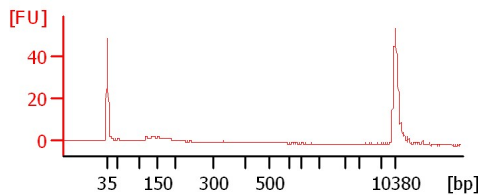
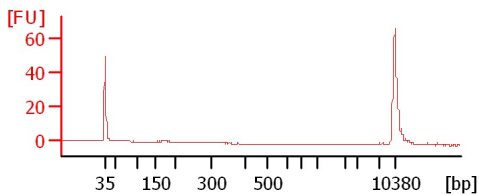
sample 17



sample 18

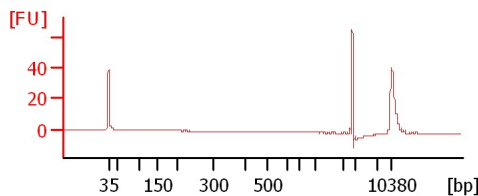
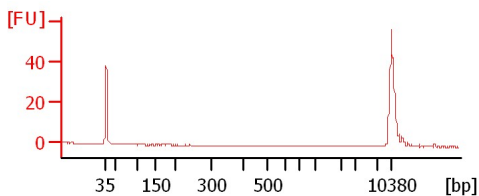
sample 19

sample 20



sample 21

sample 22



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| sample 12 | | <input type="checkbox"/> | ✓ | | | |
| sample 13 | | <input type="checkbox"/> | ✓ | | | |
| sample 14 | | <input type="checkbox"/> | ✓ | | | |
| sample 15 | | <input type="checkbox"/> | ✓ | | | |
| sample 16 | | <input type="checkbox"/> | ✓ | | | |
| sample 17 | | <input type="checkbox"/> | ✓ | | | |
| sample 18 | | <input type="checkbox"/> | ✓ | | | |
| sample 19 | | <input type="checkbox"/> | ✓ | | | |
| sample 20 | | <input type="checkbox"/> | ✓ | | | |
| sample 21 | | <input type="checkbox"/> | ✓ | | | |
| sample 22 | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
Modified: 2/2/2015 11:46:33 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

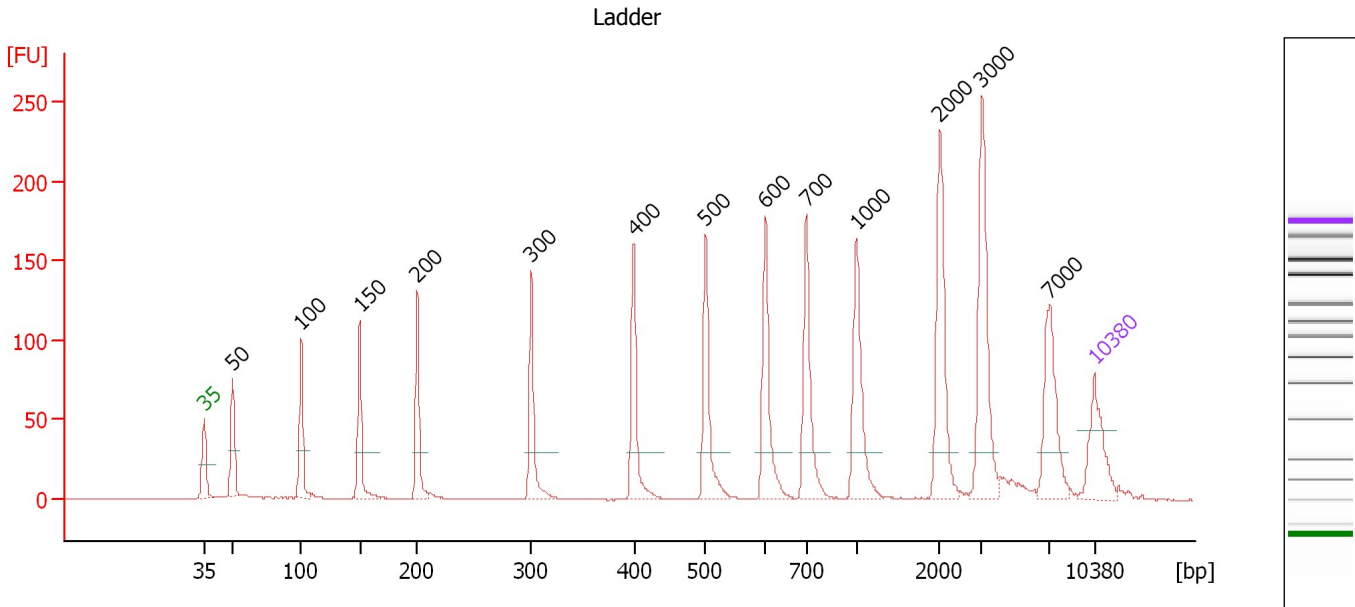
Ladder

| 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:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

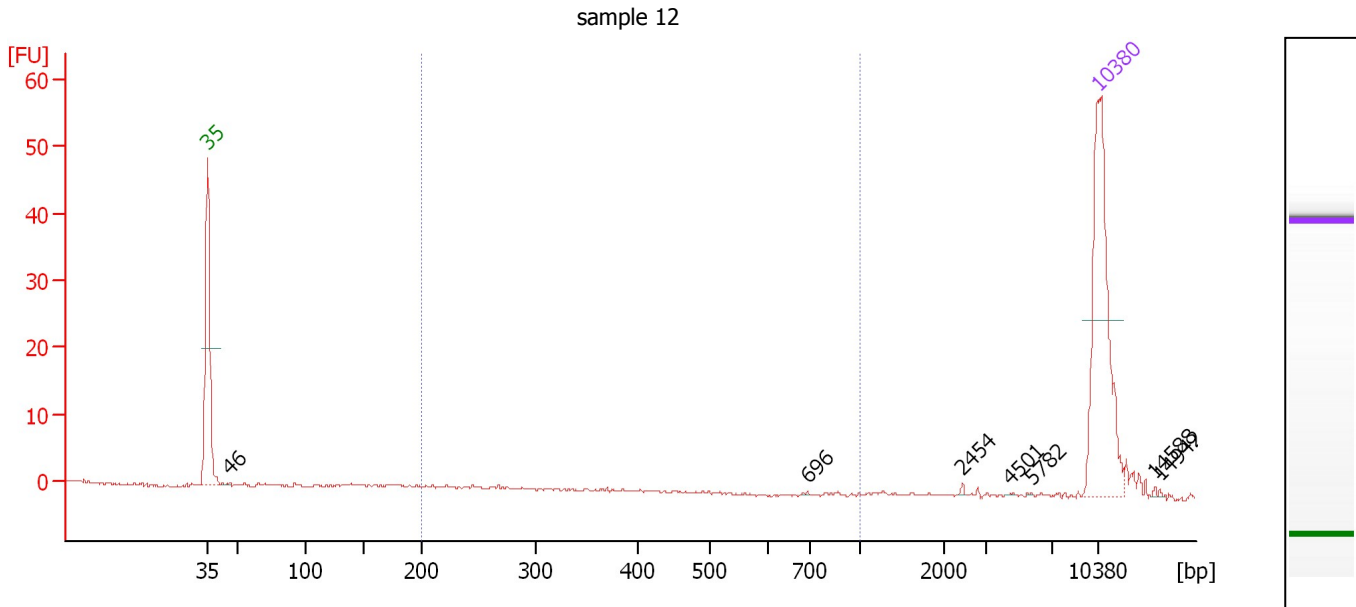
Peak table for Ladder

| 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 | 45.26 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.63 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.24 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.77 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.74 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.78 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.44 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.14 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.32 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.31 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.84 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.16 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.40 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : sample 12

Height Threshold [FU] : 0.1

Overall Results for sample 1 : sample 12

Number of peaks found: 7 Corr. Area 1: 0.9
 Noise: 0.2

Peak table for sample 1 : sample 12

| Pea k | 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 | 46 | 0.78 | 25.6 | | 44.72 |
| 3 | 696 | 0.25 | 0.5 | | 90.18 |
| 4 | 2,454 | 0.51 | 0.3 | | 102.35 |
| 5 | 4,501 | 0.12 | 0.0 | | 106.12 |
| 6 | 5,782 | 0.13 | 0.0 | | 107.80 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 8 | 14,588 | 0.00 | 0.0 | | 117.49 |
| 9 | 14,942 | 0.00 | 0.0 | | 117.87 |

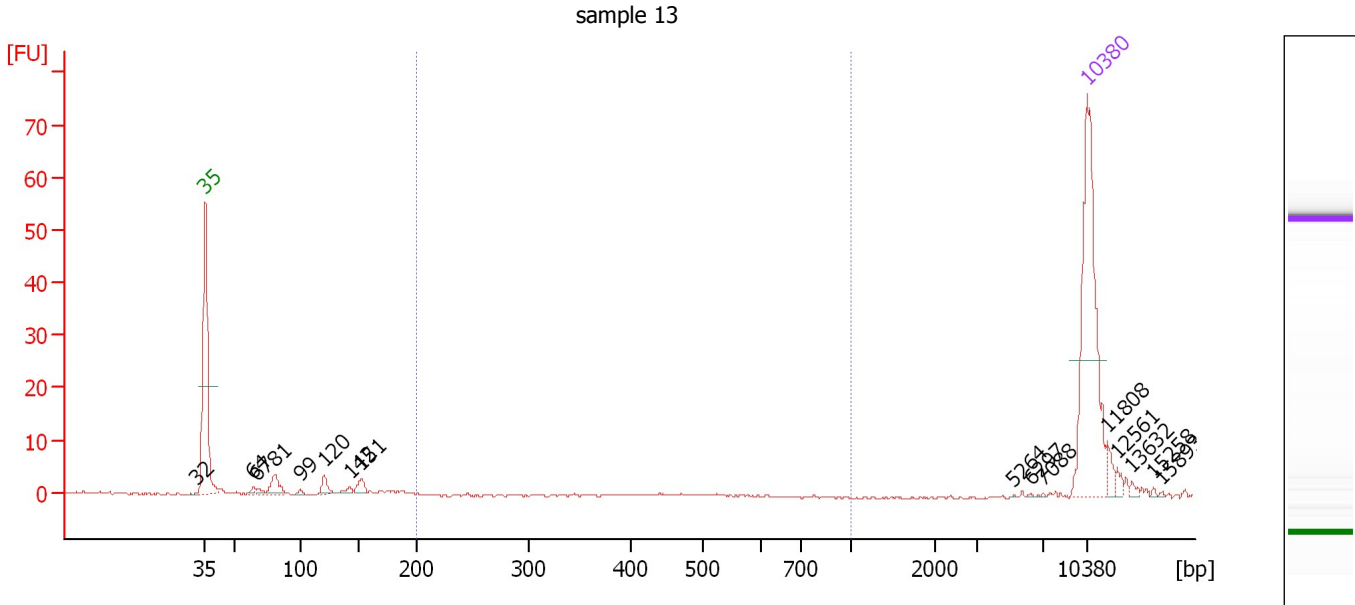
Region table for sample 1 : sample 12

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 368 | 1,000 | 0.9 | 7 | 59.2 | 1.42 | 7.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : sample 13

Height Threshold [FU] : 0.1

Overall Results for sample 2 : sample 13

Number of peaks found: 16 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for sample 2 : sample 13


| Pea k | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|----------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.28 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 64 | 2.03 | 48.1 | | 46.76 |
| 4 | 67 | 2.43 | 54.9 | | 47.10 |
| 5 | 81 | 11.80 | 222.0 | | 48.54 |
| 6 | 99 | 1.58 | 24.2 | | 50.53 |
| 7 | 120 | 6.48 | 82.1 | | 52.43 |
| 8 | 142 | 2.33 | 24.9 | | 54.50 |
| 9 | 151 | 5.46 | 54.7 | | 55.35 |
| 10 | 5,264 | 0.13 | 0.0 | | 107.12 |
| 11 | 6,297 | 0.18 | 0.0 | | 108.47 |
| 12 | 7,088 | 0.27 | 0.1 | | 109.49 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 14 | 11,808 | 0.00 | 0.0 | | 114.52 |
| 15 | 12,561 | 0.00 | 0.0 | | 115.33 |
| 16 | 13,632 | 0.00 | 0.0 | | 116.47 |
| 17 | 15,258 | 0.00 | 0.0 | | 118.20 |
| 18 | 15,893 | 0.00 | 0.0 | | 118.88 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...

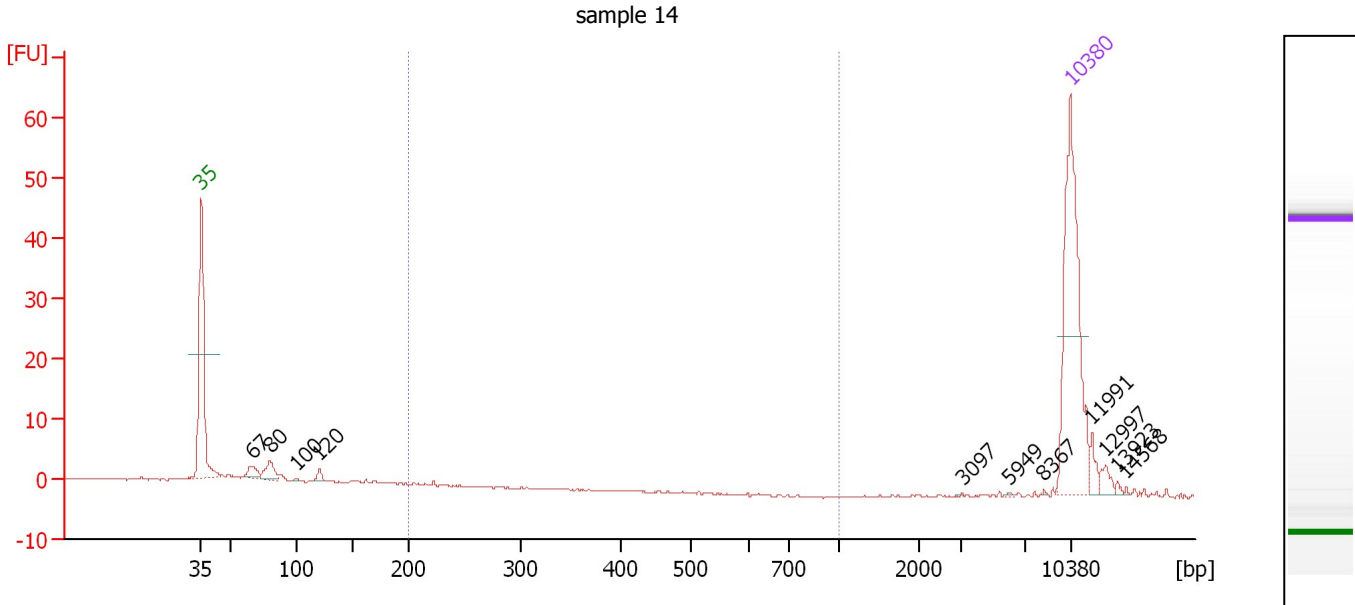
... Region table for sample 2 : sample 13

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/ μ l] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------------|-------------------|---|
| 200 | 394 | 1,000 | 0.1 | 0 | 38.8 | 0.12 | 0.6 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : sample 14

Height Threshold [FU] : 0.1

Overall Results for sample 3 : sample 14

Number of peaks found: 11 Corr. Area 1: 1.0
 Noise: 0.1

Peak table for sample 3 : sample 14

| 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 | 67 | 7.04 | 160.4 | | 47.04 |
| 3 | 80 | 11.06 | 209.1 | | 48.50 |
| 4 | 100 | 0.65 | 9.9 | | 50.64 |
| 5 | 120 | 3.01 | 37.9 | | 52.49 |
| 6 | 3,097 | 0.12 | 0.1 | | 104.28 |
| 7 | 5,949 | 0.24 | 0.1 | | 108.02 |
| 8 | 8,367 | 0.30 | 0.1 | | 110.85 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 10 | 11,991 | 0.00 | 0.0 | | 114.72 |
| 11 | 12,997 | 0.00 | 0.0 | | 115.79 |
| 12 | 13,923 | 0.00 | 0.0 | | 116.78 |
| 13 | 14,568 | 0.00 | 0.0 | | 117.47 |

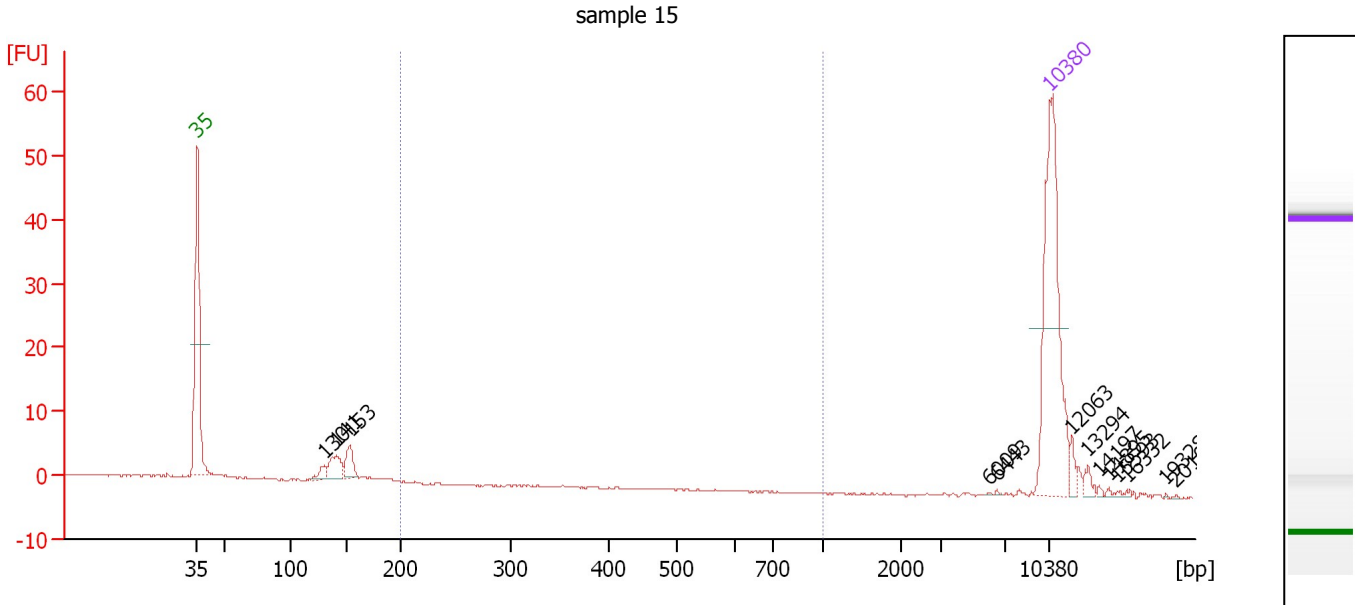
Region table for sample 3 : sample 14

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 215 | 1,000 | 1.0 | 2 | 4.5 | 1.55 | 10.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : sample 15

Height Threshold [FU] : 0.1

Overall Results for sample 4 : sample 15

Number of peaks found: 13 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 4 : sample 15

| 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 | 130 | 5.37 | 62.4 | | 53.42 |
| 3 | 141 | 14.47 | 155.3 | | 54.43 |
| 4 | 153 | 12.18 | 120.6 | | 55.52 |
| 5 | 6,009 | 0.13 | 0.0 | | 108.10 |
| 6 | 6,443 | 0.23 | 0.1 | | 108.67 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 8 | 12,063 | 0.00 | 0.0 | | 114.79 |
| 9 | 13,294 | 0.00 | 0.0 | | 116.11 |
| 10 | 14,197 | 0.00 | 0.0 | | 117.07 |
| 11 | 14,895 | 0.00 | 0.0 | | 117.82 |
| 12 | 15,593 | 0.00 | 0.0 | | 118.56 |
| 13 | 16,332 | 0.00 | 0.0 | | 119.35 |
| 14 | 19,328 | 0.00 | 0.0 | | 122.54 |
| 15 | 20,108 | 0.00 | 0.0 | | 123.38 |

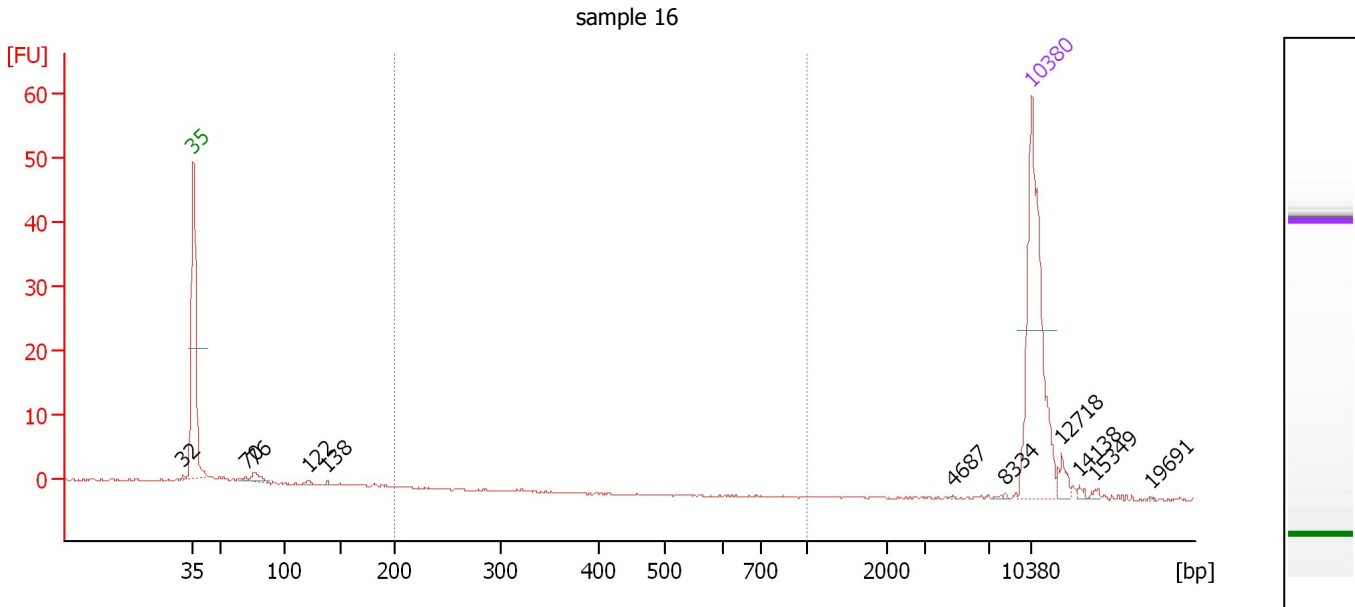
Region table for sample 4 : sample 15

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 202 | 1,000 | 0.0 | 0 | 0.0 | 0.00 | 0.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : sample 16

Height Threshold [FU] : 0.1

Overall Results for sample 5 : sample 16

Number of peaks found: 11 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 5 : sample 16

| Pea k | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|----------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.15 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 70 | 1.45 | 31.6 | | 47.36 |
| 4 | 76 | 5.28 | 105.6 | | 48.03 |
| 5 | 122 | 1.21 | 15.0 | | 52.62 |
| 6 | 138 | 0.58 | 6.4 | | 54.13 |
| 7 | 4,687 | 0.13 | 0.0 | | 106.37 |
| 8 | 8,334 | 0.53 | 0.1 | | 110.82 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 10 | 12,718 | 0.00 | 0.0 | | 115.49 |
| 11 | 14,138 | 0.00 | 0.0 | | 117.01 |
| 12 | 15,349 | 0.00 | 0.0 | | 118.30 |
| 13 | 19,691 | 0.00 | 0.0 | | 122.93 |

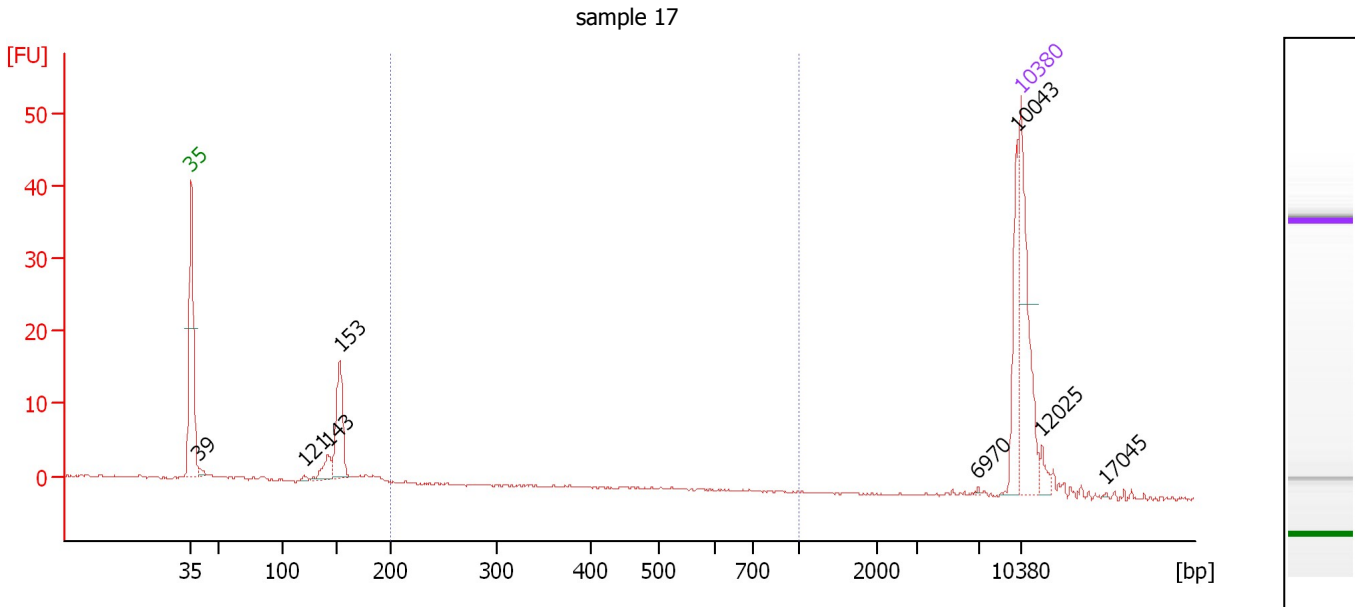
Region table for sample 5 : sample 16

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Co lor |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-----------|
| 200 | 0 | 1,000 | 0.0 | 0 | 0.0 | 0.00 | 0.0 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : sample 17

Height Threshold [FU] : 0.1

Overall Results for sample 6 : sample 17

Number of peaks found: 8 Corr. Area 1: 2.3
 Noise: 0.1

Peak table for sample 6 : sample 17

| 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 | 39 | 4.23 | 162.5 | | 43.67 |
| 3 | 121 | 2.79 | 35.0 | | 52.54 |
| 4 | 143 | 18.49 | 196.3 | | 54.56 |
| 5 | 153 | 66.04 | 652.1 | | 55.55 |
| 6 | 6,970 | 0.60 | 0.1 | | 109.36 |
| 7 | 10,043 | 36.90 | 5.6 | | 112.64 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 9 | 12,025 | 0.00 | 0.0 | | 114.75 |
| 10 | 17,045 | 0.00 | 0.0 | | 120.11 |

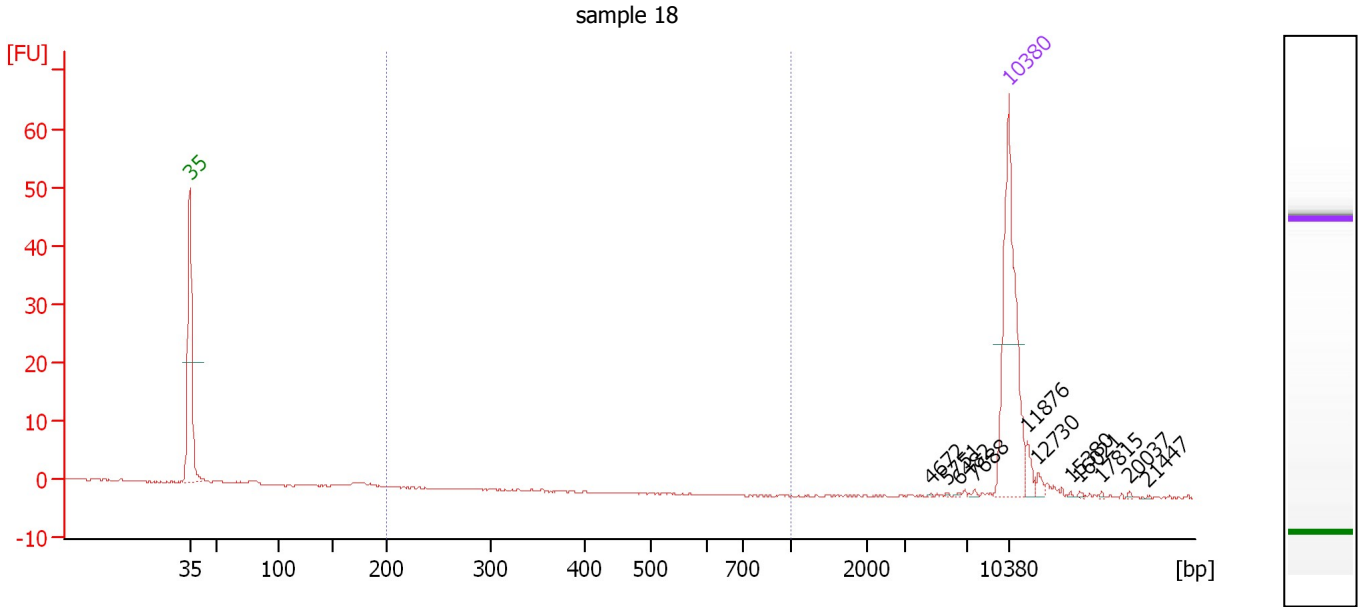
Region table for sample 6 : sample 17

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 412 | 1,000 | 2.3 | 3 | 37.7 | 5.82 | 26.7 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : sample 18

Height Threshold [FU] : 0.1

Overall Results for sample 7 : sample 18

Number of peaks found: 11 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 7 : sample 18

| Pea k | 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 | 4,672 | 0.17 | 0.1 | | 106.35 |
| 3 | 5,751 | 0.26 | 0.1 | | 107.76 |
| 4 | 6,482 | 0.28 | 0.1 | | 108.72 |
| 5 | 7,688 | 0.54 | 0.1 | | 110.13 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 7 | 11,876 | 0.00 | 0.0 | | 114.60 |
| 8 | 12,730 | 0.00 | 0.0 | | 115.51 |
| 9 | 15,380 | 0.00 | 0.0 | | 118.33 |
| 10 | 16,021 | 0.00 | 0.0 | | 119.02 |
| 11 | 17,815 | 0.00 | 0.0 | | 120.93 |
| 12 | 20,037 | 0.00 | 0.0 | | 123.30 |
| 13 | 21,447 | 0.00 | 0.0 | | 124.80 |

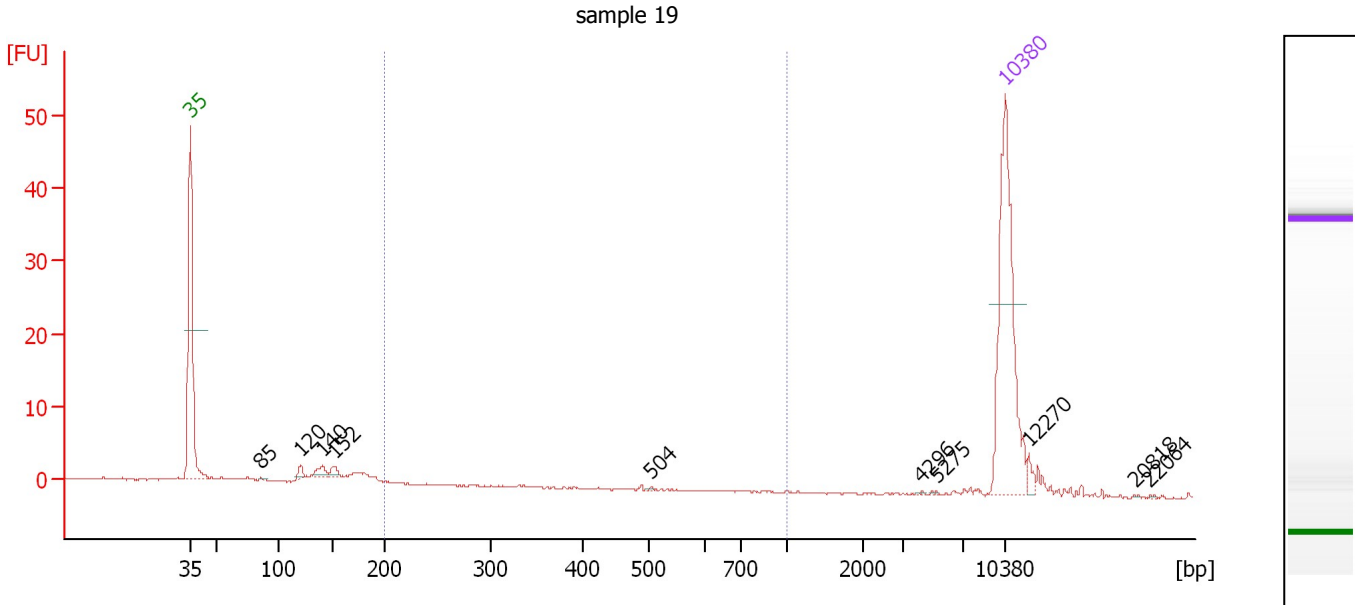
Region table for sample 7 : sample 18

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Co lor |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|--------|
| 200 | 0 | 1,000 | 0.0 | 0 | 0.0 | 0.00 | 0.0 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : sample 19

Height Threshold [FU] : 0.1

Overall Results for sample 8 : sample 19

Number of peaks found: 10 Corr. Area 1: 0.1
 Noise: 0.1

Peak table for sample 8 : sample 19

| 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 | 85 | 0.90 | 15.9 | | 49.05 |
| 3 | 120 | 3.70 | 46.7 | | 52.48 |
| 4 | 140 | 4.70 | 50.7 | | 54.36 |
| 5 | 152 | 3.52 | 35.1 | | 55.41 |
| 6 | 504 | 0.28 | 0.8 | | 82.63 |
| 7 | 4,296 | 0.19 | 0.1 | | 105.85 |
| 8 | 5,275 | 0.25 | 0.1 | | 107.14 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 10 | 12,270 | 0.00 | 0.0 | | 115.02 |
| 11 | 20,818 | 0.00 | 0.0 | | 124.13 |
| 12 | 22,064 | 0.00 | 0.0 | | 125.46 |

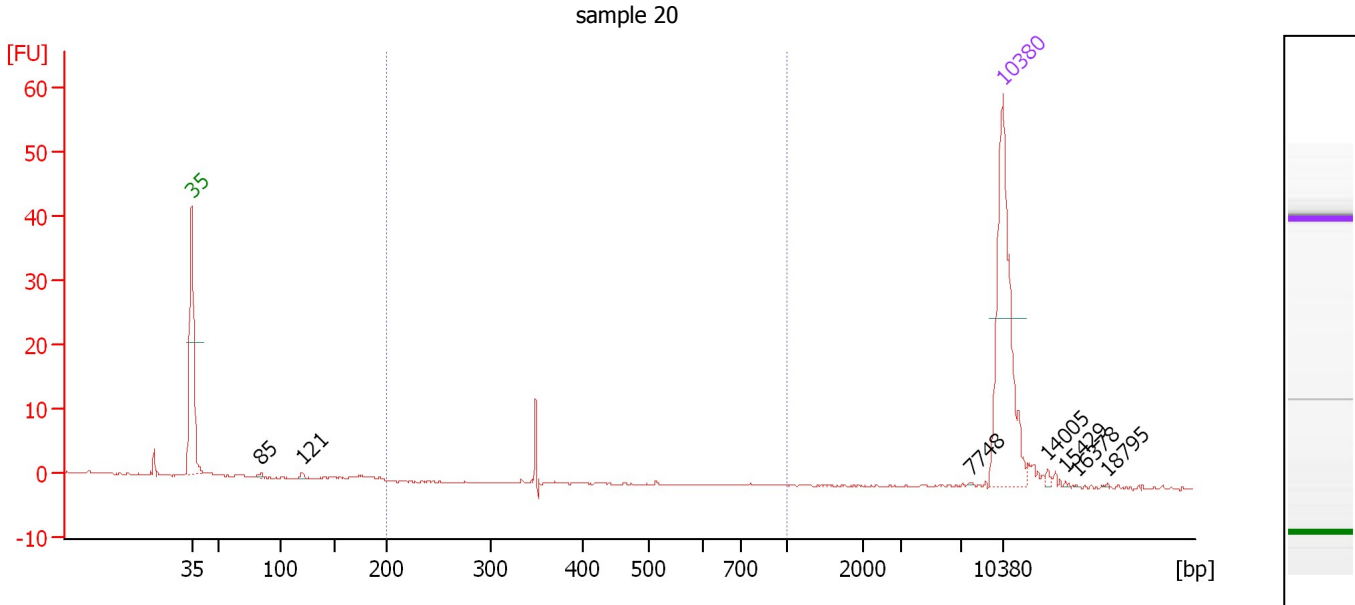
Region table for sample 8 : sample 19

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 291 | 1,000 | 0.1 | 0 | 43.1 | 0.17 | 1.1 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : sample 20

Height Threshold [FU] : 0.1

Overall Results for sample 9 : sample 20

Number of peaks found: 7 Corr. Area 1: 3.2
 Noise: 0.1

Peak table for sample 9 : sample 20

| 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 | 85 | 1.14 | 20.5 | | 48.98 |
| 3 | 121 | 1.63 | 20.4 | | 52.57 |
| 4 | 7,748 | 0.25 | 0.0 | | 110.19 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 6 | 14,005 | 0.00 | 0.0 | | 116.87 |
| 7 | 15,429 | 0.00 | 0.0 | | 118.38 |
| 8 | 16,378 | 0.00 | 0.0 | | 119.40 |
| 9 | 18,795 | 0.00 | 0.0 | | 121.97 |

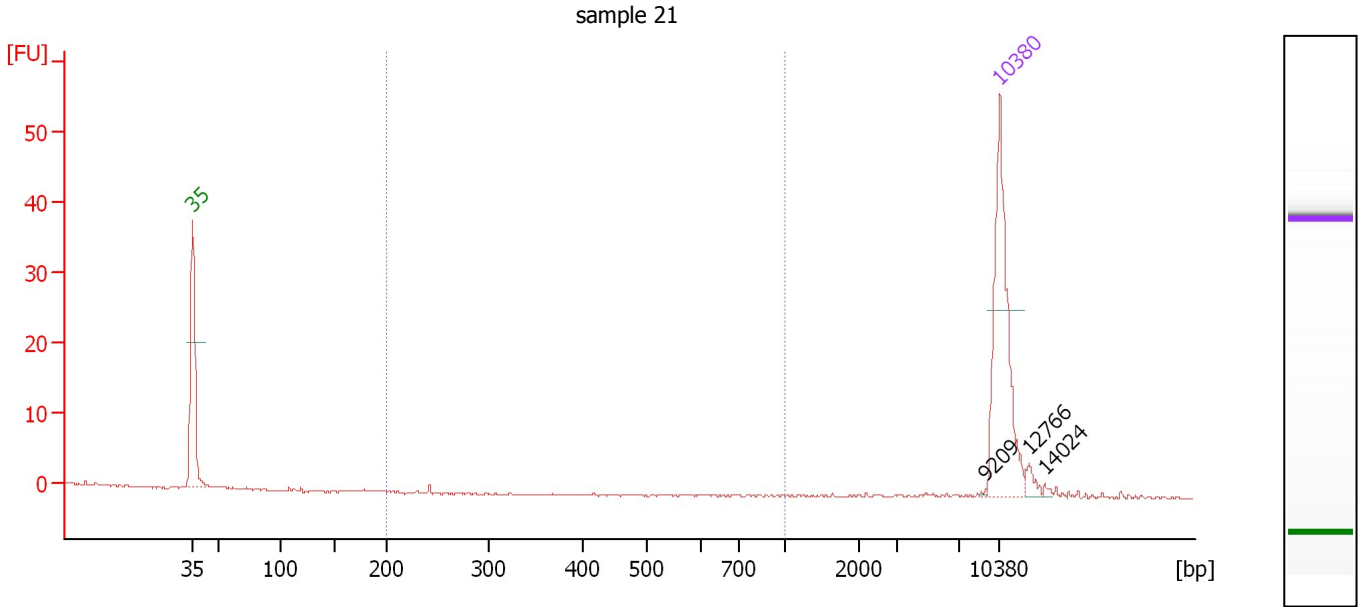
Region table for sample 9 : sample 20

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 349 | 1,000 | 3.2 | 18 | 2.7 | 5.03 | 21.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : sample 21

Height Threshold [FU] : 0.1

Overall Results for sample 10 : sample 21

Number of peaks found: 3 Corr. Area 1: 0.1
 Noise: 0.1

Peak table for sample 10 : sample 21

| 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 | 9,209 | 0.43 | 0.1 | | 111.75 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 4 | 12,766 | 0.00 | 0.0 | | 115.54 |
| 5 | 14,024 | 0.00 | 0.0 | | 116.89 |

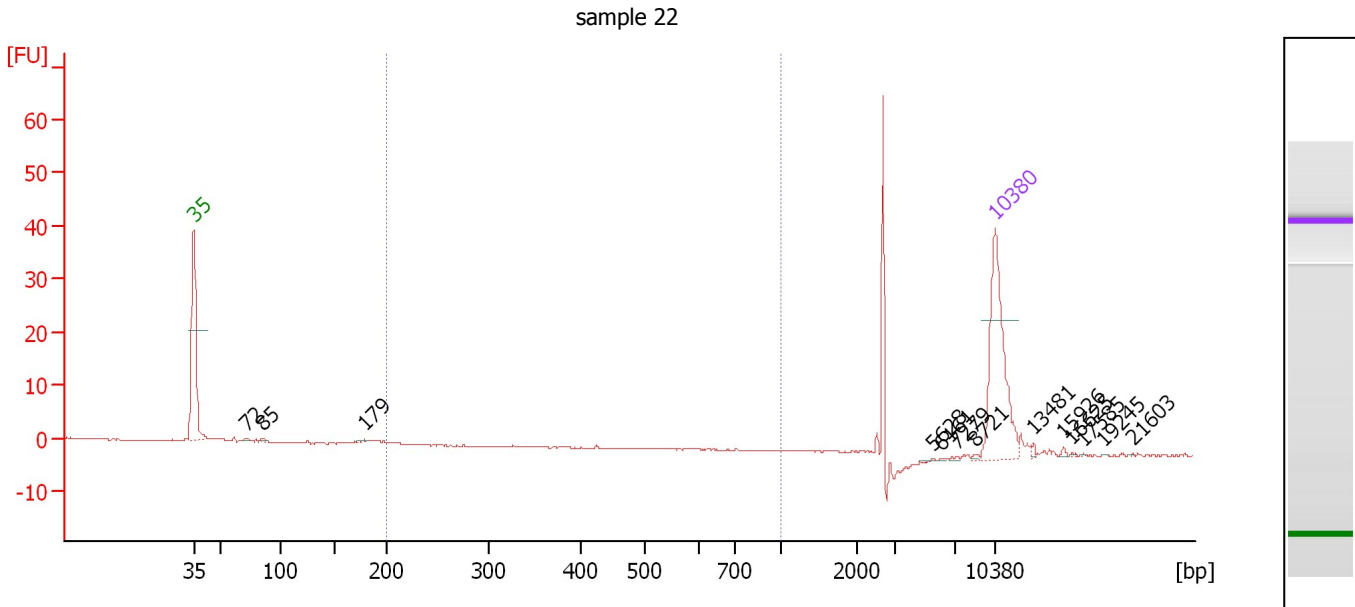
Region table for sample 10 : sample 21

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 242 | 1,000 | 0.1 | 1 | 0.2 | 0.15 | 0.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : sample 22

Height Threshold [FU] : 0.1

Overall Results for sample 11 : sample 22

Number of peaks found: 13 Corr. Area 1: 0.2
 Noise: 0.1

Peak table for sample 11 : sample 22

| Pea k | 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 | 72 | 1.45 | 30.3 | | 47.66 |
| 3 | 85 | 1.81 | 32.3 | | 49.01 |
| 4 | 179 | 0.69 | 5.8 | | 57.90 |
| 5 | 5,628 | 0.40 | 0.1 | | 107.60 |
| 6 | 6,161 | 0.55 | 0.1 | | 108.30 |
| 7 | 7,279 | 0.90 | 0.2 | | 109.69 |
| 8 | 8,721 | 0.77 | 0.1 | | 111.23 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 10 | 13,481 | 0.00 | 0.0 | | 116.31 |
| 11 | 15,926 | 0.00 | 0.0 | | 118.91 |
| 12 | 16,625 | 0.00 | 0.0 | | 119.66 |
| 13 | 17,585 | 0.00 | 0.0 | | 120.68 |
| 14 | 19,245 | 0.00 | 0.0 | | 122.45 |
| 15 | 21,603 | 0.00 | 0.0 | | 124.97 |

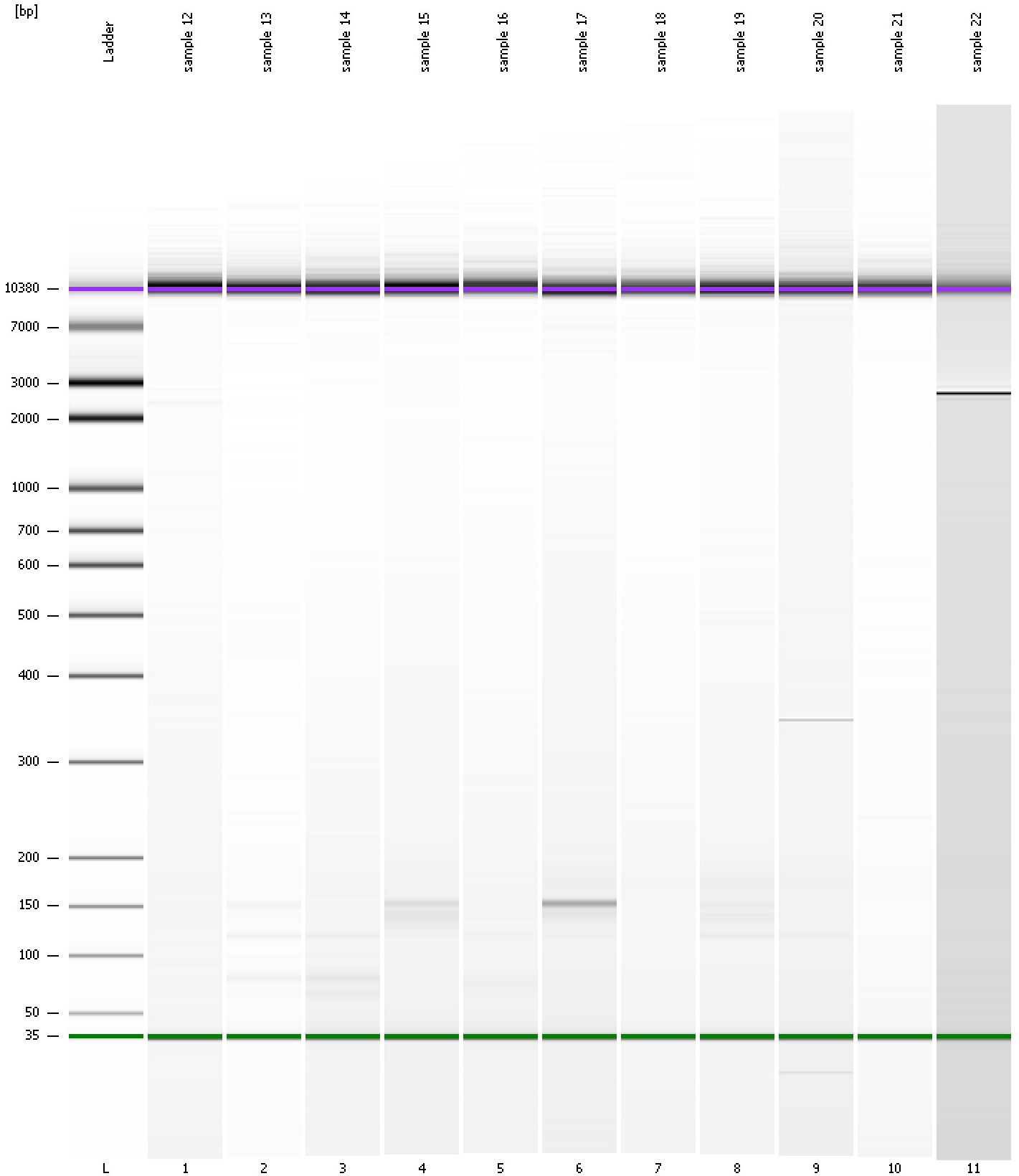
Region table for sample 11 : sample 22

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Co lor |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-----------|
| 200 | 358 | 1,000 | 0.2 | 1 | 48.7 | 0.36 | 2.1 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
Modified: 2/2/2015 11:46:33 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad

Created: 2/2/2015 11:06:02 AM
 Modified: 2/2/2015 11:46:33 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 2/2/2015 11:46:30 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-02\2015-02-02_002.xad) | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 2/2/2015 11:06:08 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |