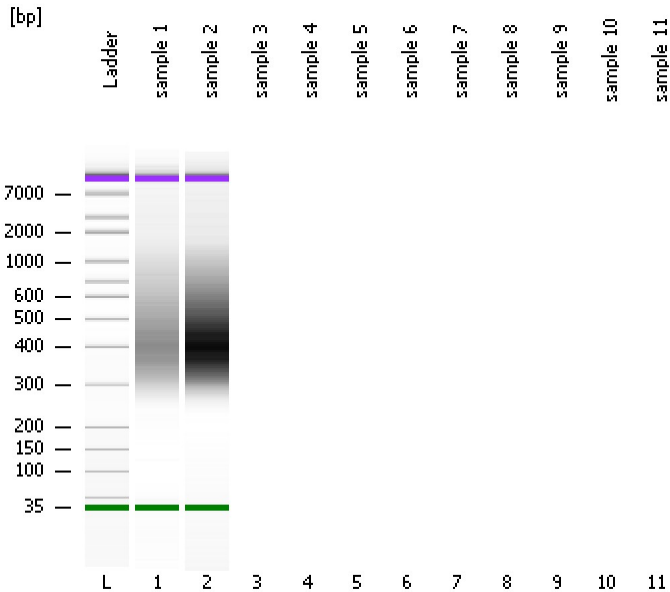


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
Modified: 8/13/2013 12:54:59 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

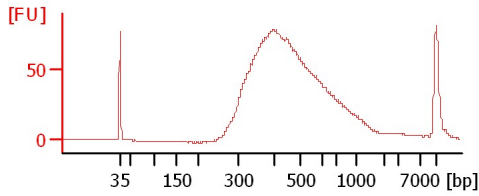
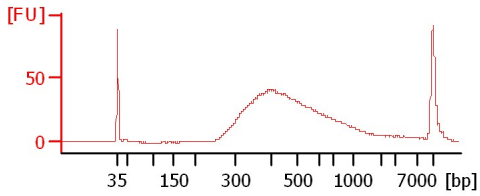
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

sample 1

sample 2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
 Modified: 8/13/2013 12:54:59 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:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
Modified: 8/13/2013 12:54:59 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

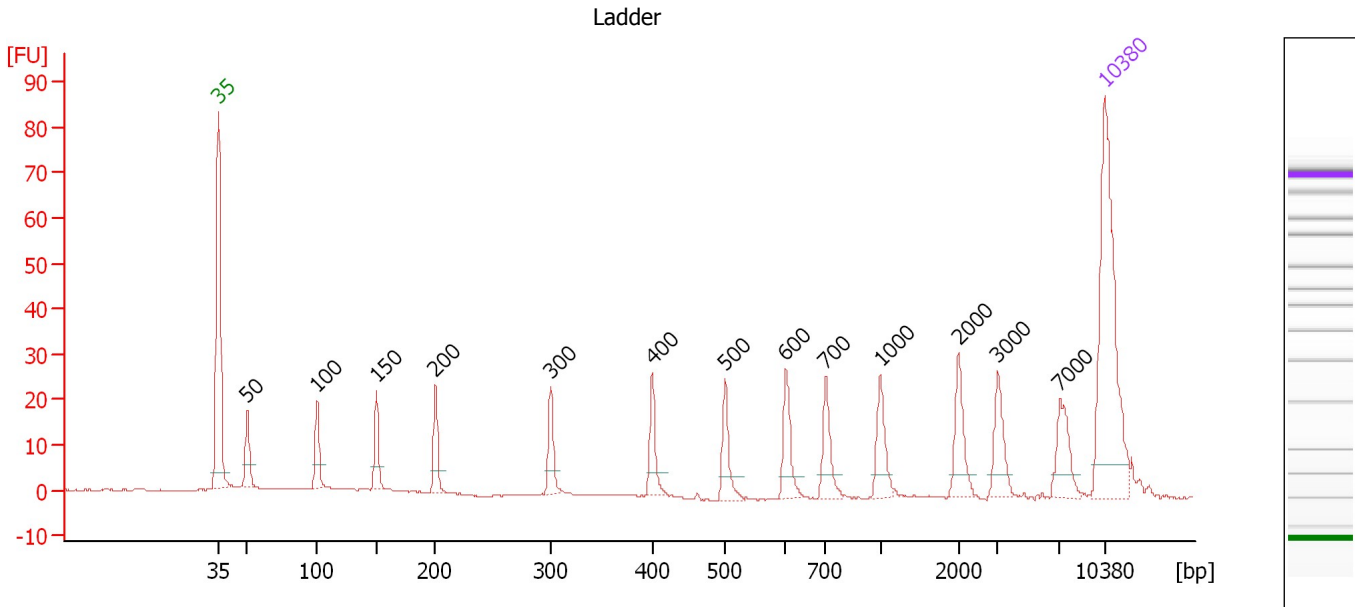
Ladder

| 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:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
 Modified: 8/13/2013 12:54:59 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

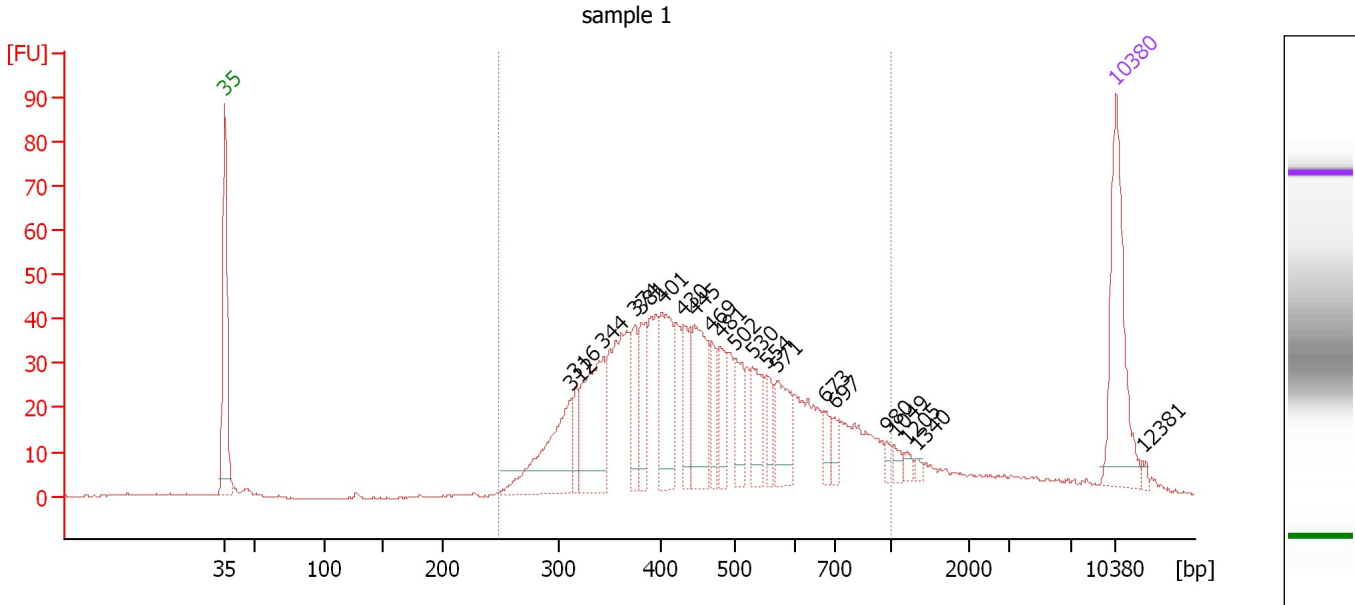
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
 Modified: 8/13/2013 12:54:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 21 Corr. Area 1: 980.6
 Noise: 0.2

Peak table for sample 1 : sample 1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 312 | 95.11 | 462.2 | |
| 3 | 316 | 22.48 | 107.6 | |
| 4 | 344 | 98.66 | 435.1 | |
| 5 | 374 | 33.88 | 137.2 | |
| 6 | 381 | 41.45 | 165.0 | |
| 7 | 401 | 65.83 | 248.6 | |
| 8 | 430 | 31.15 | 109.6 | |
| 9 | 445 | 71.91 | 244.8 | |
| 10 | 469 | 26.69 | 86.2 | |
| 11 | 481 | 31.05 | 97.8 | |
| 12 | 502 | 33.88 | 102.3 | |
| 13 | 530 | 35.74 | 102.1 | |
| 14 | 554 | 16.60 | 45.4 | |
| 15 | 571 | 39.11 | 103.7 | |
| 16 | 673 | 11.78 | 26.5 | |
| 17 | 697 | 11.01 | 23.9 | |
| 18 | 980 | 5.14 | 7.9 | |
| 19 | 1,049 | 5.52 | 8.0 | |
| 20 | 1,205 | 4.59 | 5.8 | |
| 21 | 1,340 | 2.71 | 3.1 | |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 23 | 12,381 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
Modified: 8/13/2013 12:54:59 PM

Electropherogram Summary Continued ...

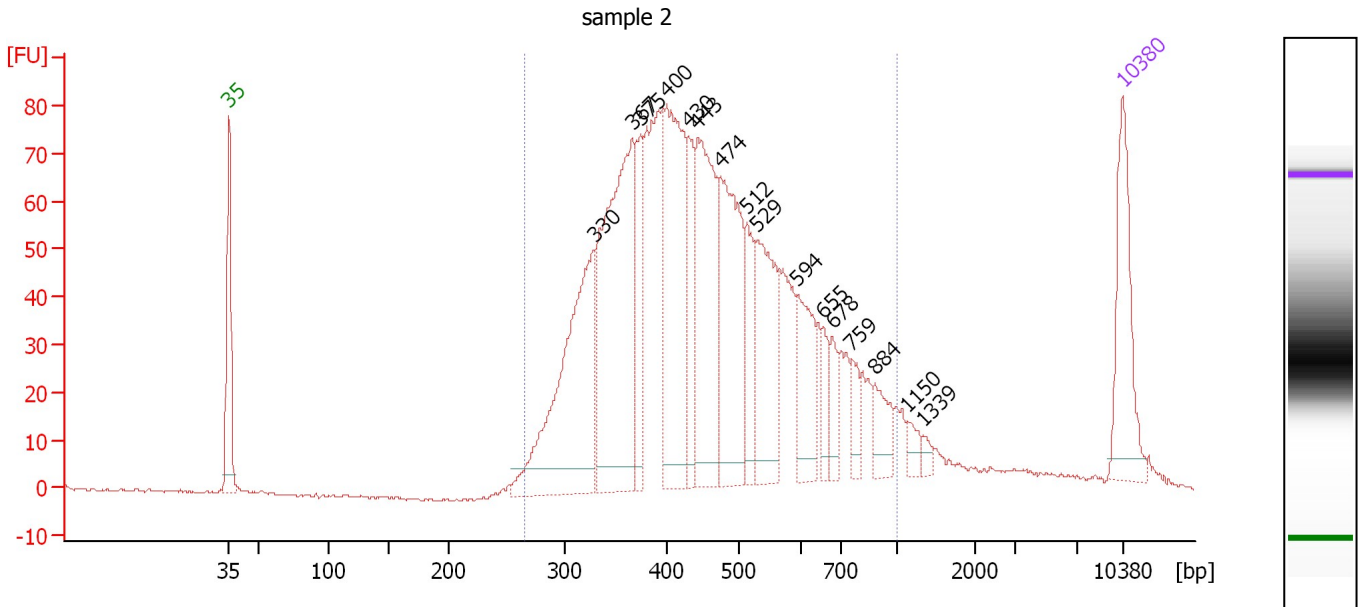
... Region table for sample 1 : sample 1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 248 | 1,000 | 475 | 3,883.0 | 1,085.41 | 980.6 | 90 | 31.3 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
 Modified: 8/13/2013 12:54:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 16 Corr. Area 1: 1,780.9
 Noise: 0.3

Peak table for sample 2 : sample 2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 330 | 282.76 | 1,297.5 | |
| 3 | 367 | 318.02 | 1,314.5 | |
| 4 | 375 | 80.88 | 326.9 | |
| 5 | 400 | 214.80 | 814.0 | |
| 6 | 430 | 73.58 | 259.5 | |
| 7 | 443 | 186.53 | 638.3 | |
| 8 | 474 | 184.68 | 590.1 | |
| 9 | 512 | 58.94 | 174.5 | |
| 10 | 529 | 123.82 | 354.5 | |
| 11 | 594 | 71.98 | 183.7 | |
| 12 | 655 | 23.88 | 55.2 | |
| 13 | 678 | 25.21 | 56.4 | |
| 14 | 759 | 22.56 | 45.1 | |
| 15 | 884 | 31.04 | 53.2 | |
| 16 | 1,150 | 12.42 | 16.4 | |
| 17 | 1,339 | 6.01 | 6.8 | |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker |

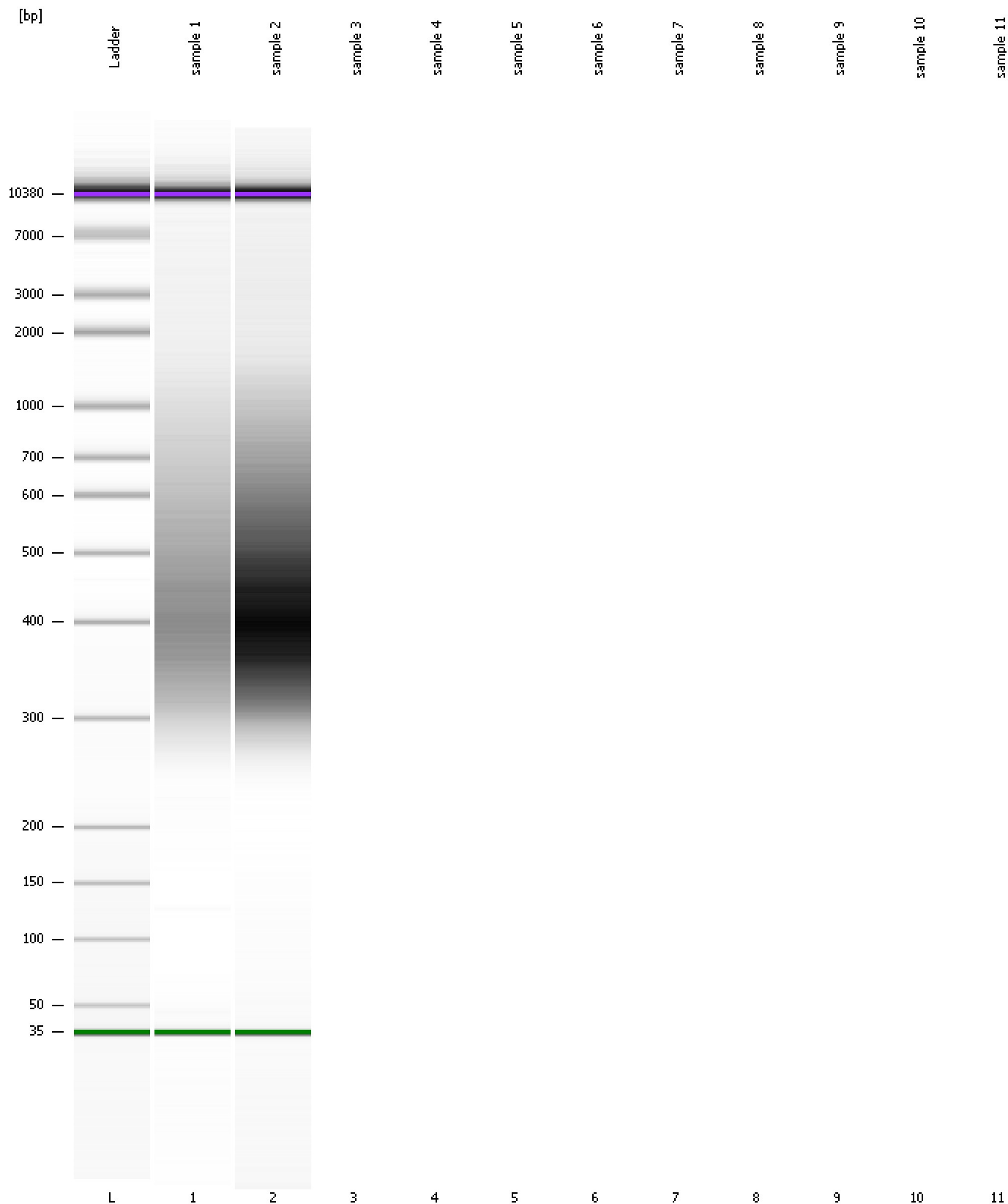
Region table for sample 2 : sample 2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 266 | 1,000 | 470 | 7,332.0 | 2,055.10 | 1,780.9 | 95 | 30.0 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
Modified: 8/13/2013 12:54:59 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
Modified: 8/13/2013 12:54:59 PM

Invalid Samples

- Sample 3 has not been run, no results available.
- Sample 4 has not been run, no results available.
- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- 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:\...ents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad

Created: 8/13/2013 12:35:28 PM
 Modified: 8/13/2013 12:54:59 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 3) | | Instrument | Run | | 8/13/2013 12:51:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-13\2013-08-13_002.xad) | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 8/13/2013 12:35:34 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |