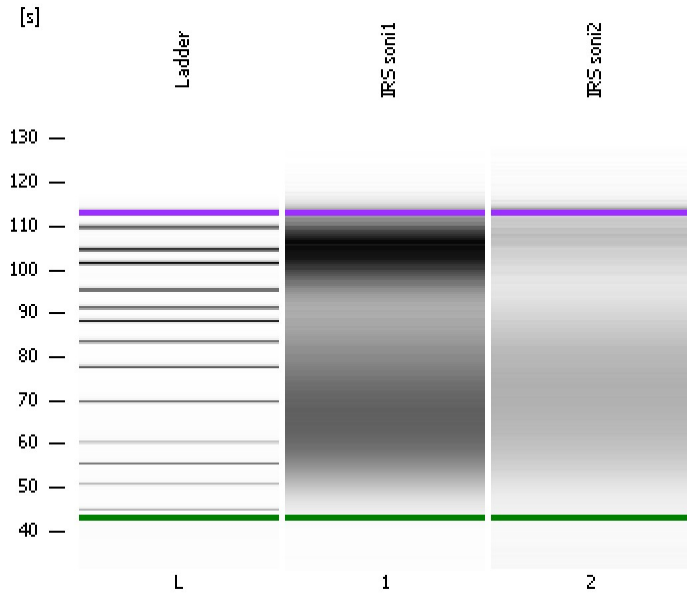


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
Modified: 7/26/2013 2:01:46 PM

Electrophoresis File Run Summary



Instrument Information:

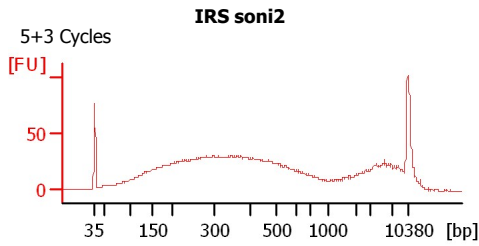
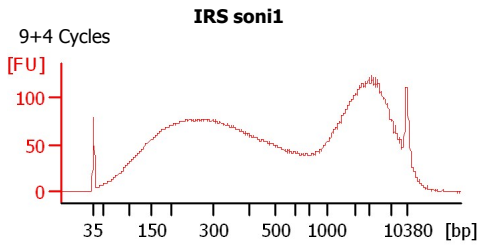
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
 Modified: 7/26/2013 2:01:46 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| IRS soni1 | 9+4 Cycles | <input type="checkbox"/> | ✓ | | | |
| IRS soni2 | 5+3 Cycles | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
Modified: 7/26/2013 2:01:46 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

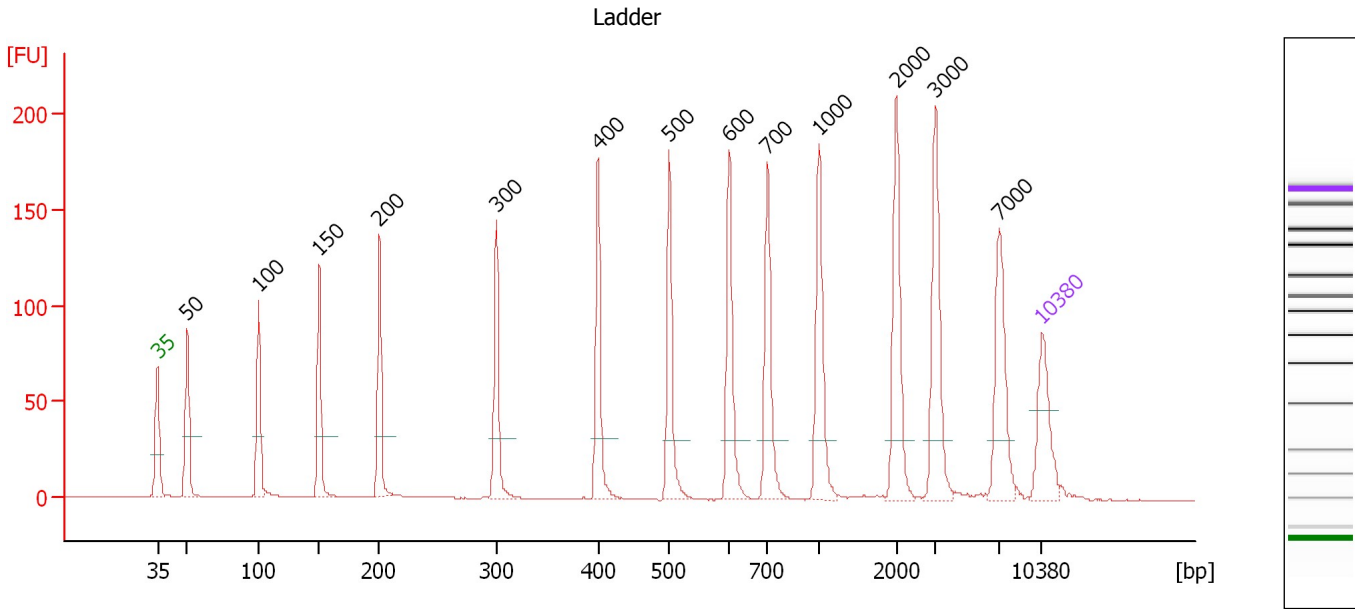
Ladder

| 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:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

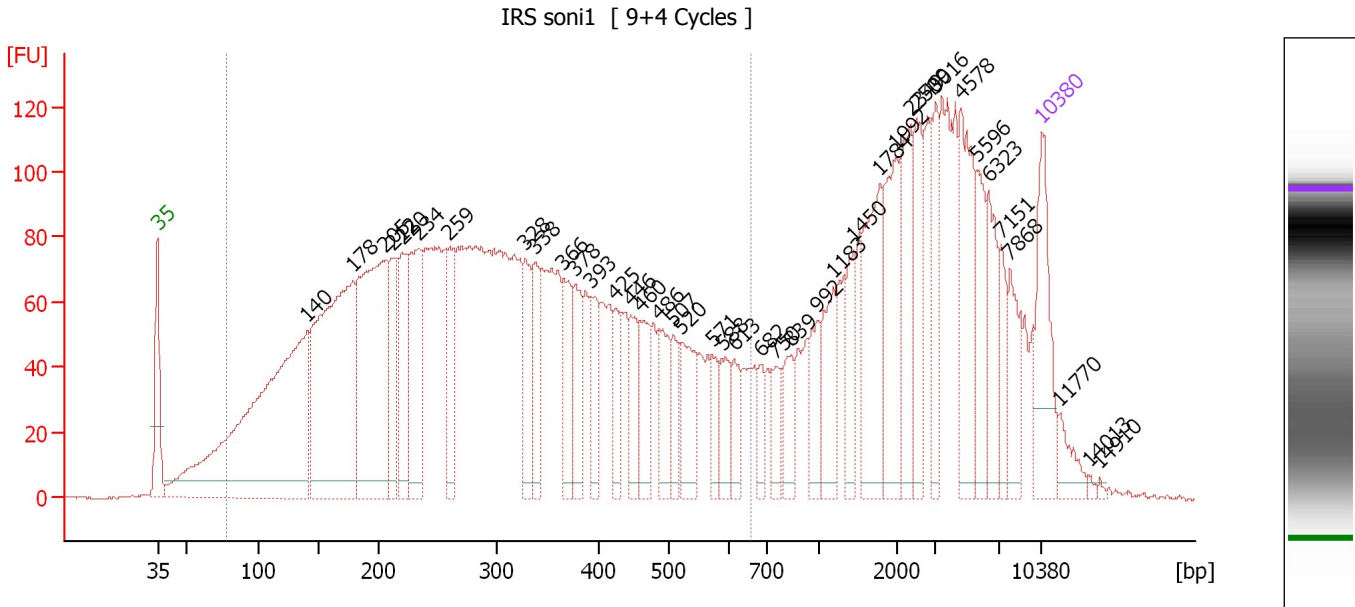
Peak table for Ladder

| 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:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : IRS soni1

Number of peaks found: 40 Corr. Area 1: 3,736.9
 Noise: 0.2

Peak table for sample 1 : IRS soni1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 140 | 641.25 | 6,930.6 | |
| 3 | 178 | 441.29 | 3,761.2 | |
| 4 | 205 | 350.19 | 2,588.0 | |
| 5 | 212 | 85.41 | 610.8 | |
| 6 | 220 | 103.14 | 711.3 | |
| 7 | 234 | 148.16 | 959.7 | |
| 8 | 259 | 84.01 | 490.8 | |
| 9 | 328 | 71.36 | 329.9 | |
| 10 | 338 | 60.46 | 271.1 | |
| 11 | 366 | 67.64 | 280.3 | |
| 12 | 378 | 63.68 | 255.5 | |
| 13 | 393 | 52.18 | 201.2 | |
| 14 | 425 | 41.50 | 148.1 | |
| 15 | 446 | 44.87 | 152.6 | |
| 16 | 460 | 59.44 | 195.8 | |
| 17 | 486 | 52.45 | 163.6 | |
| 18 | 507 | 30.56 | 91.3 | |
| 19 | 520 | 62.92 | 183.2 | |
| 20 | 571 | 28.21 | 74.9 | |
| 21 | 588 | 37.76 | 97.3 | |
| 22 | 613 | 30.89 | 76.4 | |
| 23 | 682 | 22.09 | 49.1 | |
| 24 | 750 | 26.32 | 53.2 | |
| 25 | 839 | 36.58 | 66.0 | |
| 26 | 992 | 39.20 | 59.8 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad


Created: 7/26/2013 12:13:42 PM
 Modified: 7/26/2013 2:01:46 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : IRS soni1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 27 | 1,183 | 55.22 | 70.7 | |
| 28 | 1,450 | 44.84 | 46.8 | |
| 29 | 1,784 | 103.17 | 87.6 | |
| 30 | 1,992 | 89.17 | 67.8 | |
| 31 | 2,349 | 70.82 | 45.7 | |
| 32 | 2,509 | 59.88 | 36.2 | |
| 33 | 3,016 | 44.28 | 22.2 | |
| 34 | 4,578 | 96.76 | 32.0 | |
| 35 | 5,596 | 49.78 | 13.5 | |
| 36 | 6,323 | 51.24 | 12.3 | |
| 37 | 7,151 | 32.60 | 6.9 | |
| 38 | 7,868 | 42.49 | 8.2 | |
| 39 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 40 | 11,770 | 0.00 | 0.0 | |
| 41 | 14,013 | 0.00 | 0.0 | |
| 42 | 14,910 | 0.00 | 0.0 | |

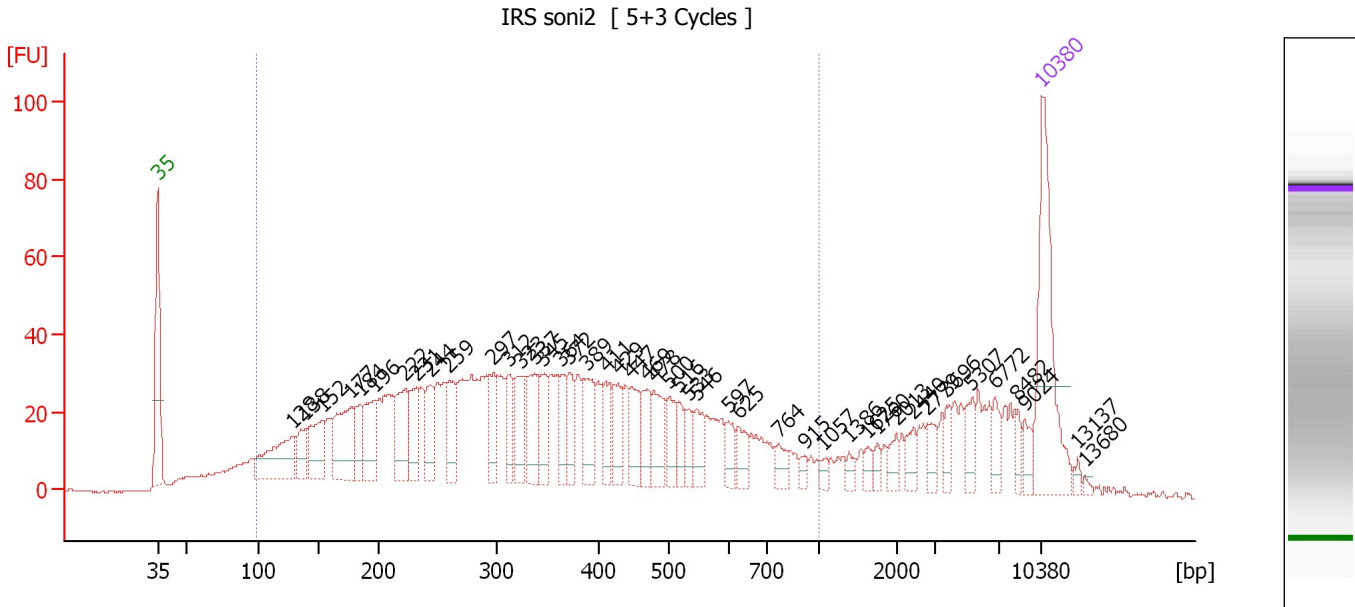
Region table for sample 1 : IRS soni1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 78 | 659 | 311 | 26,308.8 | 3,809.21 | 3,736.9 | 66 | 44.1 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : IRS soni2

Number of peaks found: 45 Corr. Area 1: 1,480.5
 Noise: 0.3

Peak table for sample 2 : IRS soni2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 128 | 61.97 | 735.1 | |
| 3 | 138 | 25.79 | 282.6 | |
| 4 | 152 | 43.11 | 429.2 | |
| 5 | 177 | 60.52 | 519.1 | |
| 6 | 184 | 25.17 | 207.5 | |
| 7 | 196 | 37.85 | 292.1 | |
| 8 | 222 | 44.15 | 301.6 | |
| 9 | 231 | 34.96 | 229.1 | |
| 10 | 244 | 30.94 | 192.5 | |
| 11 | 259 | 33.30 | 194.6 | |
| 12 | 297 | 25.10 | 128.1 | |
| 13 | 312 | 23.88 | 115.8 | |
| 14 | 323 | 32.21 | 151.0 | |
| 15 | 337 | 33.35 | 149.7 | |
| 16 | 345 | 26.11 | 114.7 | |
| 17 | 364 | 21.60 | 90.0 | |
| 18 | 372 | 21.08 | 85.9 | |
| 19 | 389 | 33.23 | 129.5 | |
| 20 | 411 | 22.55 | 83.2 | |
| 21 | 429 | 22.07 | 78.0 | |
| 22 | 447 | 24.90 | 84.5 | |
| 23 | 469 | 21.55 | 69.7 | |
| 24 | 478 | 28.85 | 91.4 | |
| 25 | 500 | 21.36 | 64.7 | |
| 26 | 516 | 13.47 | 39.6 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad


Created: 7/26/2013 12:13:42 PM
 Modified: 7/26/2013 2:01:46 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : IRS soni2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 27 | 533 | 12.42 | 35.3 | |
| 28 | 546 | 18.12 | 50.3 | |
| 29 | 597 | 12.87 | 32.6 | |
| 30 | 625 | 14.20 | 34.4 | |
| 31 | 764 | 10.30 | 20.4 | |
| 32 | 915 | 4.49 | 7.4 | |
| 33 | 1,057 | 3.99 | 5.7 | |
| 34 | 1,386 | 4.99 | 5.5 | |
| 35 | 1,625 | 5.32 | 5.0 | |
| 36 | 1,760 | 5.03 | 4.3 | |
| 37 | 2,013 | 7.95 | 6.0 | |
| 38 | 2,440 | 8.78 | 5.5 | |
| 39 | 2,779 | 10.37 | 5.7 | |
| 40 | 3,696 | 8.89 | 3.6 | |
| 41 | 5,307 | 11.59 | 3.3 | |
| 42 | 6,772 | 11.12 | 2.5 | |
| 43 | 8,482 | 7.35 | 1.3 | |
| 44 | 9,024 | 8.30 | 1.4 | |
| 45 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 46 | 13,137 | 0.00 | 0.0 | |
| 47 | 13,680 | 0.00 | 0.0 | |

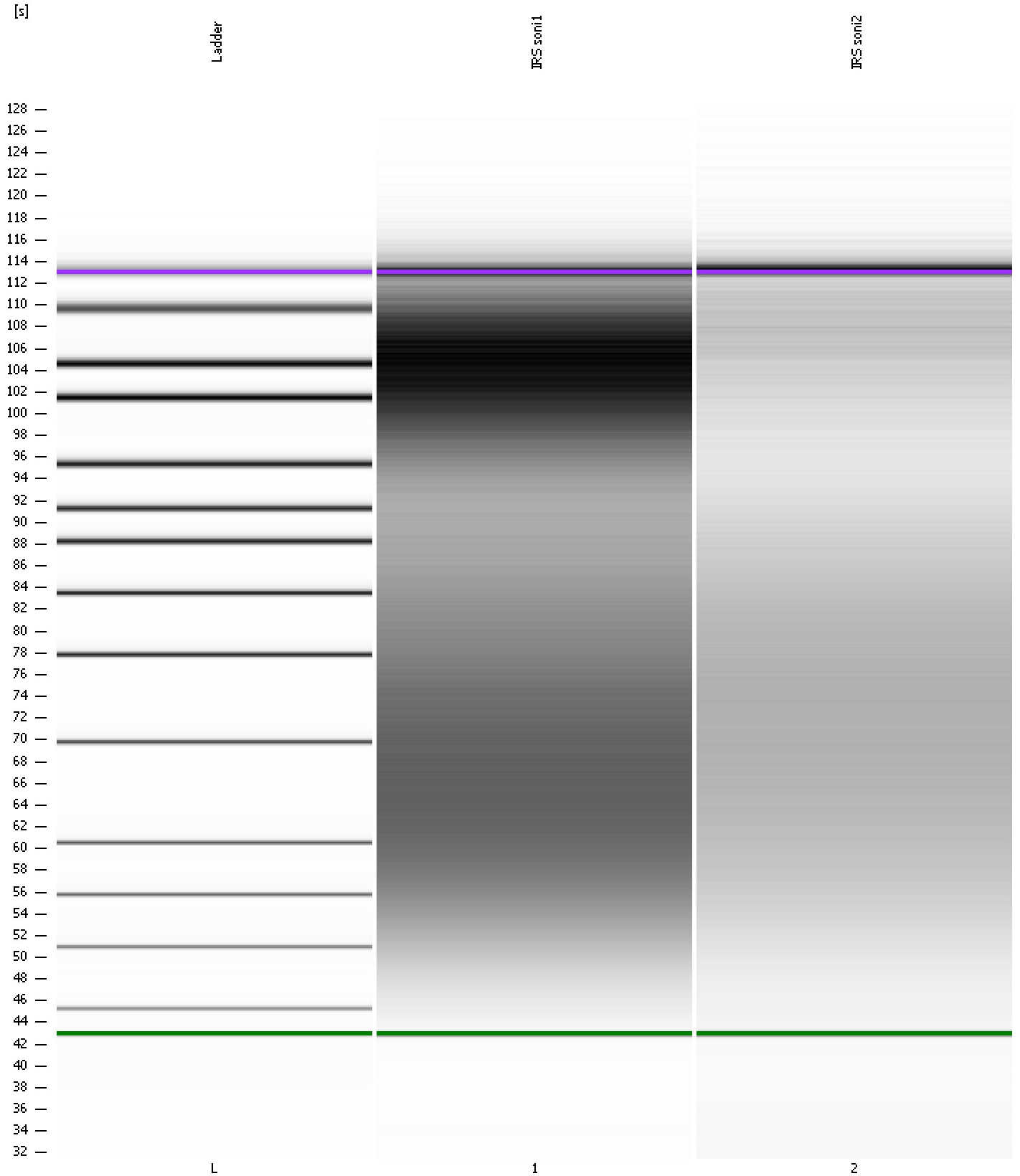
Region table for sample 2 : IRS soni2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 98 | 1,000 | 364 | 8,941.5 | 1,509.22 | 1,480.5 | 79 | 47.5 |  |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
Modified: 7/26/2013 2:01:46 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-07-26\2013-07-26_001_IRS_ReSoni.xad

Created: 7/26/2013 12:13:42 PM
 Modified: 7/26/2013 2:01:46 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 11) | | Instrument | Run | | 7/26/2013 12:52:10 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-26\2013-07-26_001.xad) | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/26/2013 12:13:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |