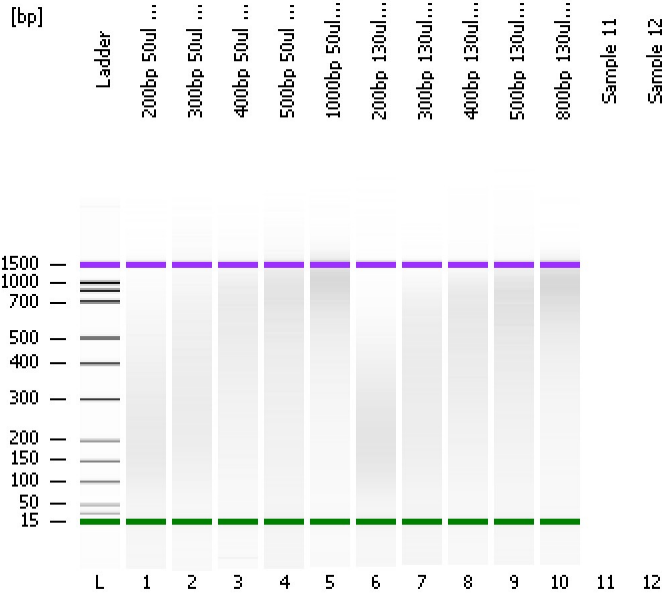


Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

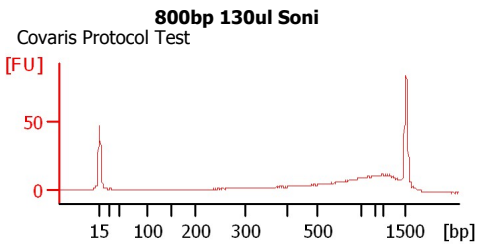
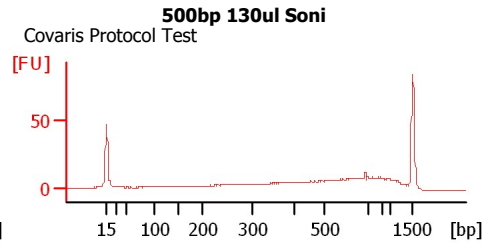
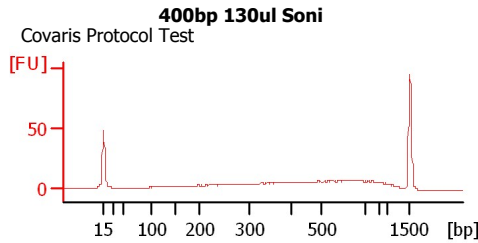
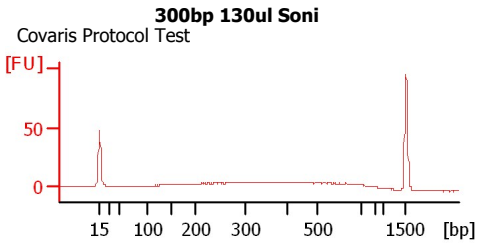
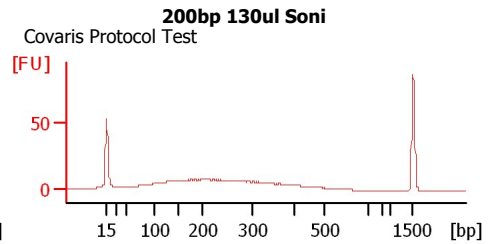
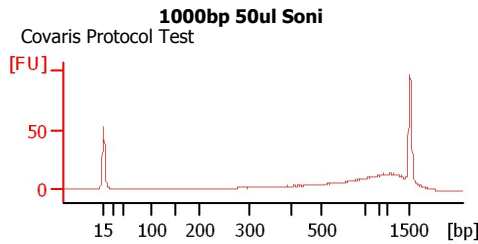
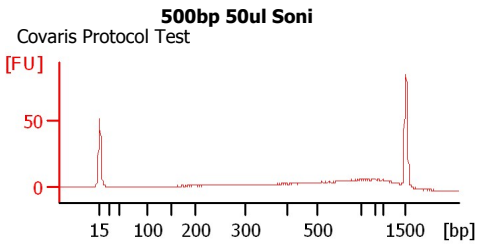
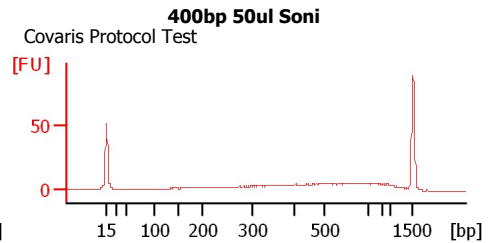
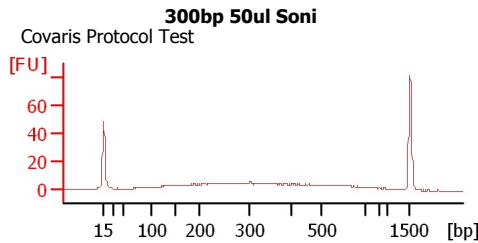
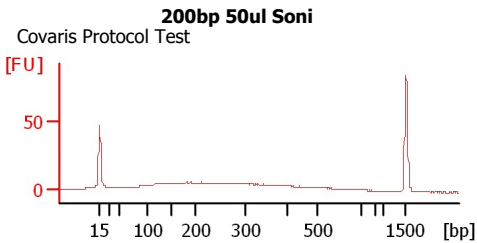
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

Assay Class: DNA 1000
Version: 2.3
Assay Comments: DNA Analysis 25 -1000 bp

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Chip Information:

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



Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|------------------|-----------------------|--------------------------|--------|-------------|--------------|--------------|
| 200bp 50ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 300bp 50ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 400bp 50ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 500bp 50ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 1000bp 50ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 200bp 130ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 300bp 130ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 400bp 130ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 500bp 130ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| 800bp 130ul Soni | Covaris Protocol Test | <input type="checkbox"/> | ✓ | | | |
| Sample 11 | | <input type="checkbox"/> | | | | |
| Sample 12 | | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 30
Maximum Visible Range [s] : 129
Start Analysis Time Range [s] : 30
End Analysis Time Range [s] : 128.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 4.2
Upper Marker Concentration [ng/μl] : 2.1
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] : 30
Integration End Time [s] : 128.95
Slope Threshold : 0.5
Height Threshold [FU] : 0.5
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

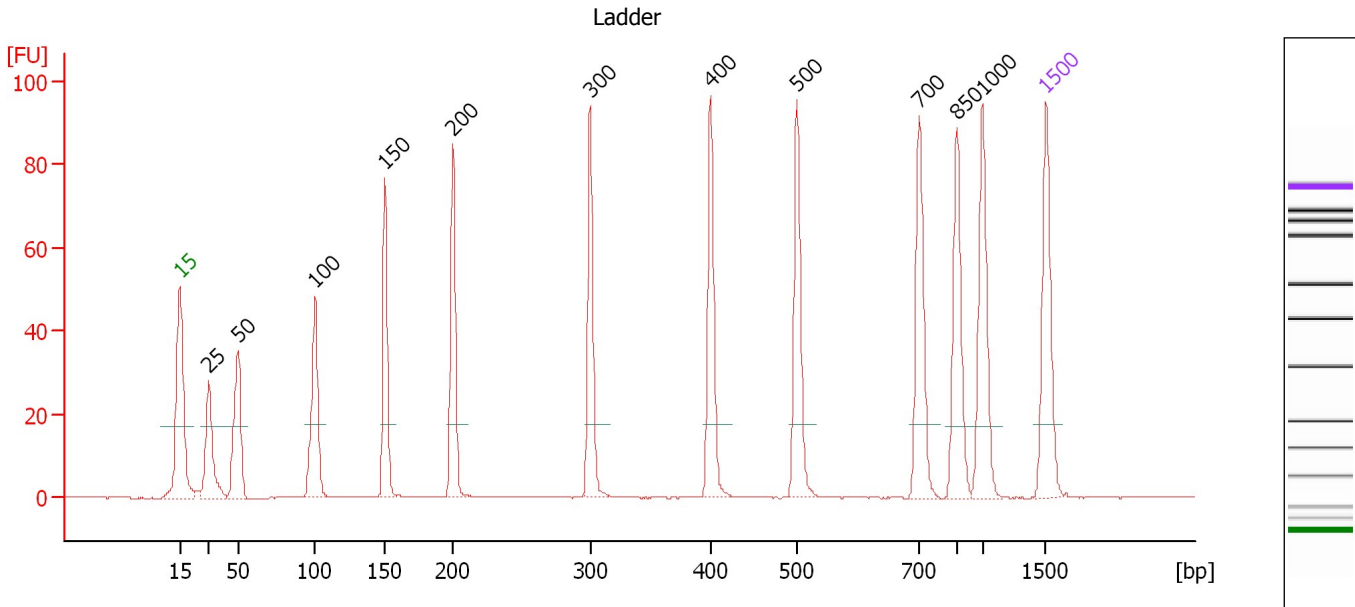
Ladder

| Ladder Peak | Size | Area |
|-------------|------|------|
| 1 | 15 | 25 |
| 2 | 25 | 26 |
| 3 | 50 | 34 |
| 4 | 100 | 41 |
| 5 | 150 | 45 |
| 6 | 200 | 52 |
| 7 | 300 | 63 |
| 8 | 400 | 76 |
| 9 | 500 | 83 |
| 10 | 700 | 88 |
| 11 | 850 | 86 |
| 12 | 1000 | 90 |
| 13 | 1500 | 52 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary



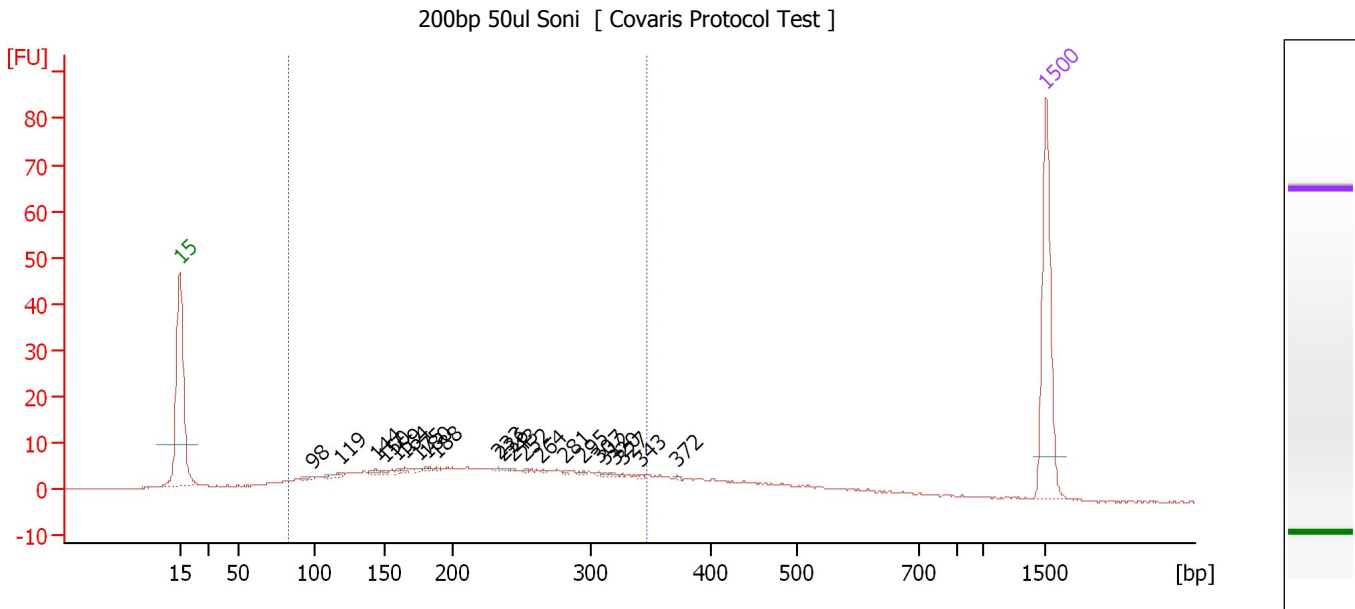
Peak table for Ladder

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 25 | 4.00 | 242.4 | Ladder Peak |
| 3 | 50 | 4.00 | 121.2 | Ladder Peak |
| 4 | 100 | 4.00 | 60.6 | Ladder Peak |
| 5 | 150 | 4.00 | 40.4 | Ladder Peak |
| 6 | 200 | 4.00 | 30.3 | Ladder Peak |
| 7 | 300 | 4.00 | 20.2 | Ladder Peak |
| 8 | 400 | 4.00 | 15.2 | Ladder Peak |
| 9 | 500 | 4.00 | 12.1 | Ladder Peak |
| 10 | 700 | 4.00 | 8.7 | Ladder Peak |
| 11 | 850 | 4.00 | 7.1 | Ladder Peak |
| 12 | 1,000 | 4.00 | 6.1 | Ladder Peak |
| 13 | 1,500 | 2.10 | 2.1 | Upper Marker |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 200bp 50ul Soni

Number of peaks found: 22 Area 1: 132.6

Peak table for sample 1 : 200bp 50ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 98 | 0.04 | 0.7 | |
| 3 | 119 | 0.09 | 1.1 | |
| 4 | 144 | 0.07 | 0.7 | |
| 5 | 150 | 0.03 | 0.3 | |
| 6 | 159 | 0.03 | 0.3 | |
| 7 | 164 | 0.03 | 0.3 | |
| 8 | 175 | 0.02 | 0.2 | |
| 9 | 180 | 0.04 | 0.3 | |
| 10 | 188 | 0.02 | 0.1 | |
| 11 | 233 | 0.02 | 0.1 | |
| 12 | 236 | 0.01 | 0.1 | |
| 13 | 243 | 0.01 | 0.1 | |
| 14 | 252 | 0.02 | 0.1 | |
| 15 | 264 | 0.02 | 0.1 | |
| 16 | 281 | 0.02 | 0.1 | |
| 17 | 295 | 0.02 | 0.1 | |
| 18 | 307 | 0.02 | 0.1 | |
| 19 | 312 | 0.02 | 0.1 | |
| 20 | 320 | 0.02 | 0.1 | |
| 21 | 327 | 0.01 | 0.1 | |
| 22 | 343 | 0.02 | 0.1 | |
| 23 | 372 | 0.02 | 0.1 | |
| 24 | 1,500 | 2.10 | 2.1 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

... Region table for sample 1 : 200bp 50ul Soni

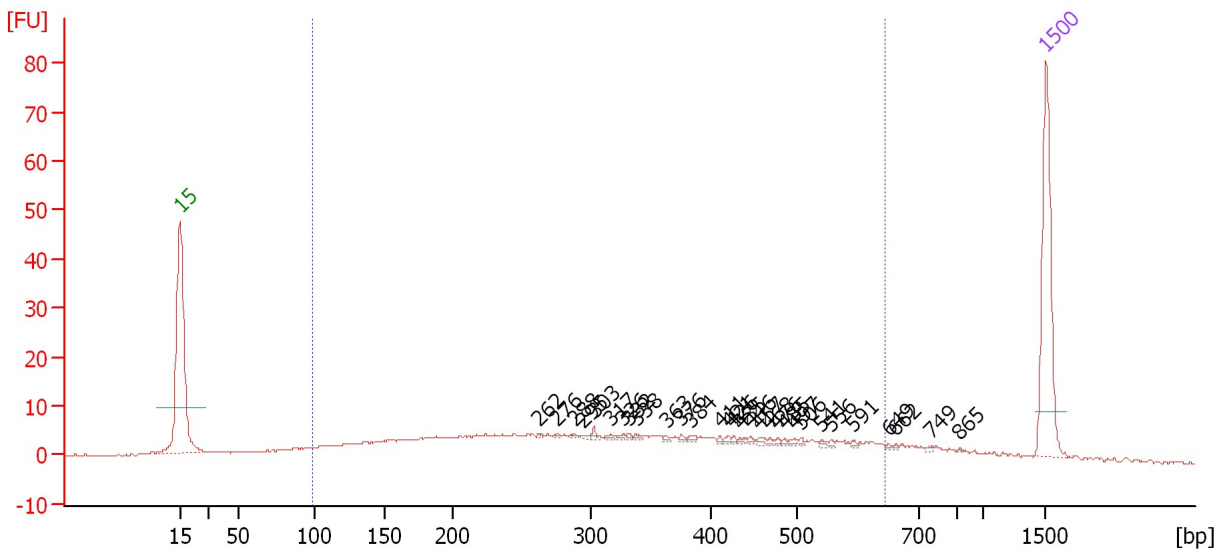
| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 83 | 347 | 132.6 | 65 | 64.2 | 7.72 | 217 | 32.6 |  Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

300bp 50ul Soni [Covaris Protocol Test]



Overall Results for sample 2 : 300bp 50ul Soni

Number of peaks found: 30 Area 1: 192.4

Peak table for sample 2 : 300bp 50ul Soni

| Peak | Size [bp] | Conc. [ng/µl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 262 | 0.01 | 0.1 | |
| 3 | 276 | 0.02 | 0.1 | |
| 4 | 288 | 0.03 | 0.1 | |
| 5 | 295 | 0.03 | 0.1 | |
| 6 | 303 | 0.05 | 0.3 | |
| 7 | 317 | 0.03 | 0.2 | |
| 8 | 326 | 0.03 | 0.2 | |
| 9 | 332 | 0.03 | 0.1 | |
| 10 | 338 | 0.04 | 0.2 | |
| 11 | 363 | 0.03 | 0.1 | |
| 12 | 376 | 0.03 | 0.1 | |
| 13 | 384 | 0.04 | 0.1 | |
| 14 | 411 | 0.03 | 0.1 | |
| 15 | 421 | 0.03 | 0.1 | |
| 16 | 426 | 0.03 | 0.1 | |
| 17 | 435 | 0.03 | 0.1 | |
| 18 | 446 | 0.04 | 0.1 | |
| 19 | 457 | 0.04 | 0.1 | |
| 20 | 468 | 0.03 | 0.1 | |
| 21 | 476 | 0.03 | 0.1 | |
| 22 | 485 | 0.02 | 0.1 | |
| 23 | 497 | 0.04 | 0.1 | |
| 24 | 506 | 0.03 | 0.1 | |
| 25 | 541 | 0.03 | 0.1 | |
| 26 | 556 | 0.03 | 0.1 | |
| 27 | 591 | 0.03 | 0.1 | |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 300bp 50ul Soni

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 28 | 649 | 0.02 | 0.0 | |
| 29 | 662 | 0.02 | 0.0 | |
| 30 | 749 | 0.02 | 0.0 | |
| 31 | 865 | 0.01 | 0.0 | |
| 32 | 1,500 | 2.10 | 2.1 | Upper Marker |

Region table for sample 2 : 300bp 50ul Soni

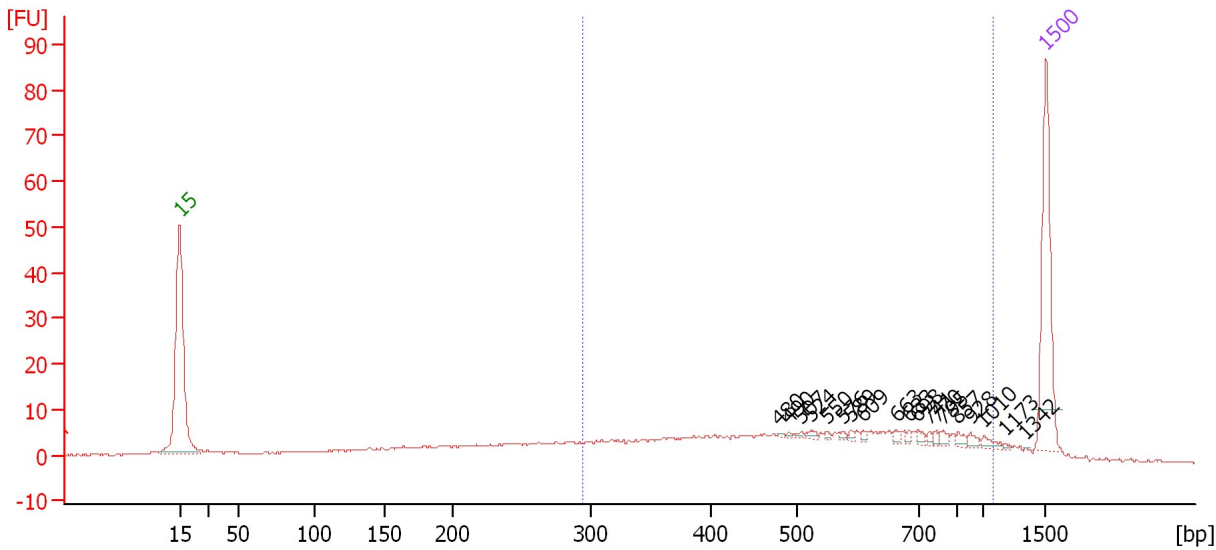
| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|----------|
| 99 | 643 | 192.4 | 80 | 59.7 | 9.91 | 334 | 41.2 | Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

400bp 50ul Soni [Covaris Protocol Test]



Overall Results for sample 3 : 400bp 50ul Soni

Number of peaks found: 19 Area 1: 171.3

Peak table for sample 3 : 400bp 50ul Soni

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|---------------|
| 1 | 4 | 0.00 | 0.0 | excluded peak |
| 2 | 15 | 4.20 | 424.2 | Lower Marker |
| 3 | 480 | 0.02 | 0.0 | |
| 4 | 490 | 0.02 | 0.1 | |
| 5 | 507 | 0.02 | 0.1 | |
| 6 | 524 | 0.05 | 0.1 | |
| 7 | 550 | 0.03 | 0.1 | |
| 8 | 576 | 0.04 | 0.1 | |
| 9 | 589 | 0.04 | 0.1 | |
| 10 | 609 | 0.04 | 0.1 | |
| 11 | 663 | 0.06 | 0.1 | |
| 12 | 683 | 0.05 | 0.1 | |
| 13 | 698 | 0.07 | 0.1 | |
| 14 | 741 | 0.05 | 0.1 | |
| 15 | 770 | 0.06 | 0.1 | |
| 16 | 795 | 0.08 | 0.1 | |
| 17 | 857 | 0.08 | 0.1 | |
| 18 | 928 | 0.09 | 0.2 | |
| 19 | 1,010 | 0.10 | 0.1 | |
| 20 | 1,173 | 0.02 | 0.0 | |
| 21 | 1,342 | 0.01 | 0.0 | |
| 22 | 1,500 | 2.10 | 2.1 | Upper Marker |

Region table for sample 3 : 400bp 50ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|----------|
| 294 | 1,085 | 171.3 | 68 | 20.9 | 6.76 | 557 | 33.6 | Region 1 |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

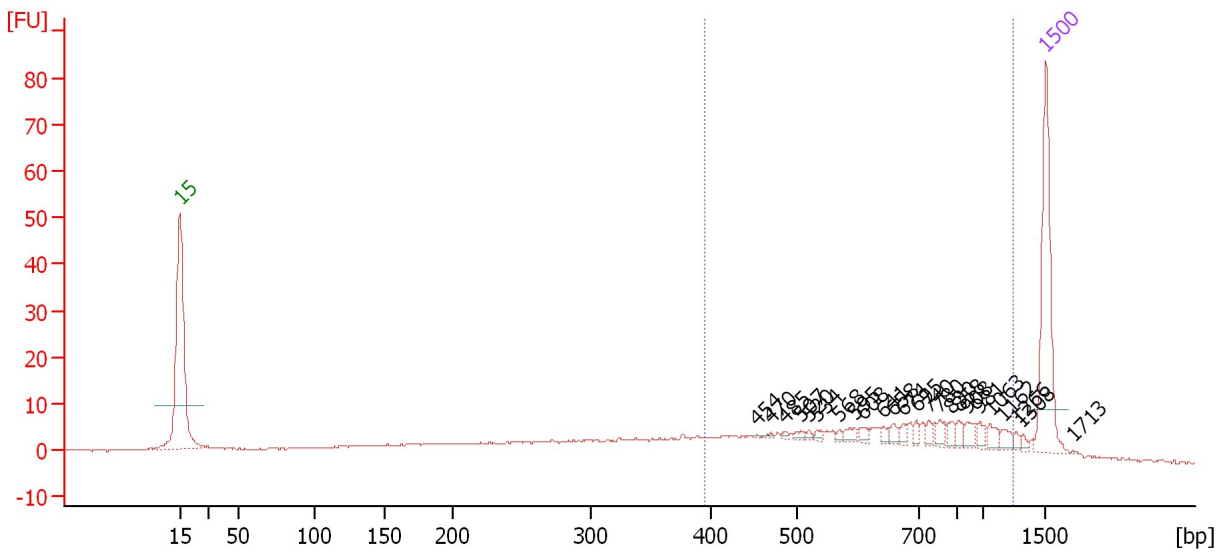
Electropherogram Summary Continued ...

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

500bp 50ul Soni [Covaris Protocol Test]



Overall Results for sample 4 : 500bp 50ul Soni

Number of peaks found: 23 Area 1: 152.5

Peak table for sample 4 : 500bp 50ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 454 | 0.01 | 0.0 | |
| 3 | 470 | 0.03 | 0.1 | |
| 4 | 485 | 0.03 | 0.1 | |
| 5 | 507 | 0.06 | 0.2 | |
| 6 | 520 | 0.04 | 0.1 | |
| 7 | 534 | 0.06 | 0.2 | |
| 8 | 568 | 0.04 | 0.1 | |
| 9 | 595 | 0.11 | 0.3 | |
| 10 | 608 | 0.08 | 0.2 | |
| 11 | 641 | 0.08 | 0.2 | |
| 12 | 658 | 0.11 | 0.2 | |
| 13 | 674 | 0.08 | 0.2 | |
| 14 | 695 | 0.10 | 0.2 | |
| 15 | 740 | 0.09 | 0.2 | |
| 16 | 780 | 0.15 | 0.3 | |
| 17 | 830 | 0.12 | 0.2 | |
| 18 | 858 | 0.12 | 0.2 | |
| 19 | 908 | 0.17 | 0.3 | |
| 20 | 981 | 0.13 | 0.2 | |
| 21 | 1,063 | 0.16 | 0.2 | |
| 22 | 1,162 | 0.14 | 0.2 | |
| 23 | 1,266 | 0.06 | 0.1 | |
| 24 | 1,308 | 0.05 | 0.1 | |
| 25 | 1,500 | 2.10 | 2.1 | Upper Marker |
| 26 | 1,713 | 0.00 | 0.0 | |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

... Region table for sample 4 : 500bp 50ul Soni

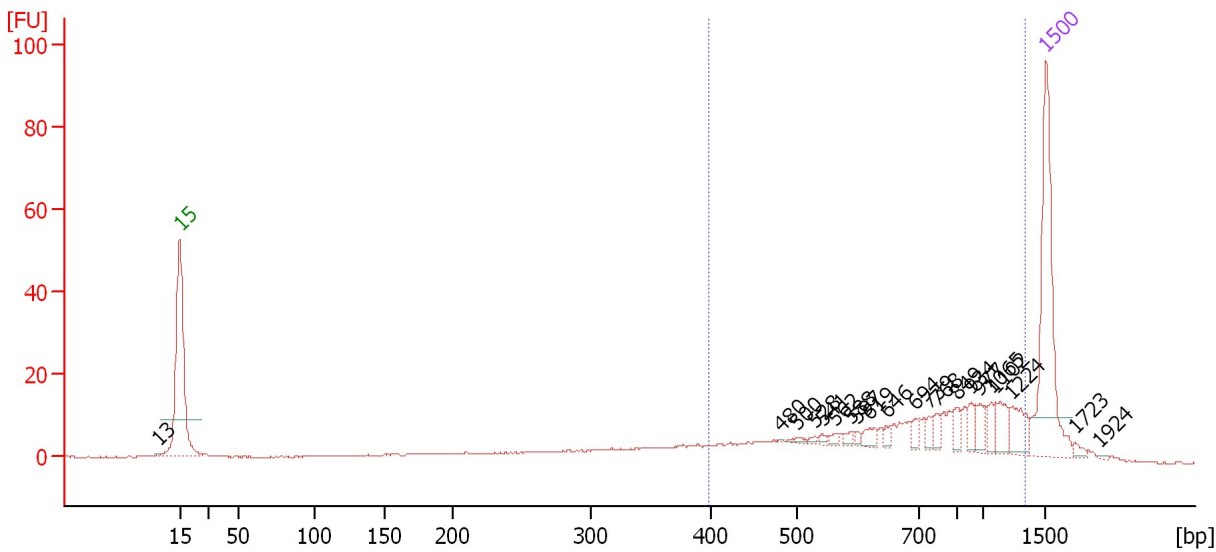
| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 395 | 1,245 | 152.5 | 58 | 13.8 | 5.67 | 683 | 31.1 |  Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

1000bp 50ul Soni [Covaris Protocol Test]



Overall Results for sample 5 : 1000bp 50ul Soni

Number of peaks found: 18 Area 1: 203.0

Peak table for sample 5 : 1000bp 50ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 13 | 0.00 | 0.0 | |
| 2 | 15 | 4.20 | 424.2 | Lower Marker |
| 3 | 480 | 0.01 | 0.0 | |
| 4 | 500 | 0.04 | 0.1 | |
| 5 | 528 | 0.04 | 0.1 | |
| 6 | 541 | 0.04 | 0.1 | |
| 7 | 562 | 0.05 | 0.1 | |
| 8 | 588 | 0.06 | 0.2 | |
| 9 | 597 | 0.05 | 0.1 | |
| 10 | 619 | 0.13 | 0.3 | |
| 11 | 646 | 0.08 | 0.2 | |
| 12 | 694 | 0.14 | 0.3 | |
| 13 | 739 | 0.13 | 0.3 | |
| 14 | 768 | 0.14 | 0.3 | |
| 15 | 849 | 0.17 | 0.3 | |
| 16 | 934 | 0.19 | 0.3 | |
| 17 | 977 | 0.20 | 0.3 | |
| 18 | 1,065 | 0.17 | 0.2 | |
| 19 | 1,102 | 0.33 | 0.5 | |
| 20 | 1,224 | 0.40 | 0.5 | |
| 21 | 1,500 | 2.10 | 2.1 | Upper Marker |
| 22 | 1,723 | 0.00 | 0.0 | |
| 23 | 1,924 | 0.00 | 0.0 | |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

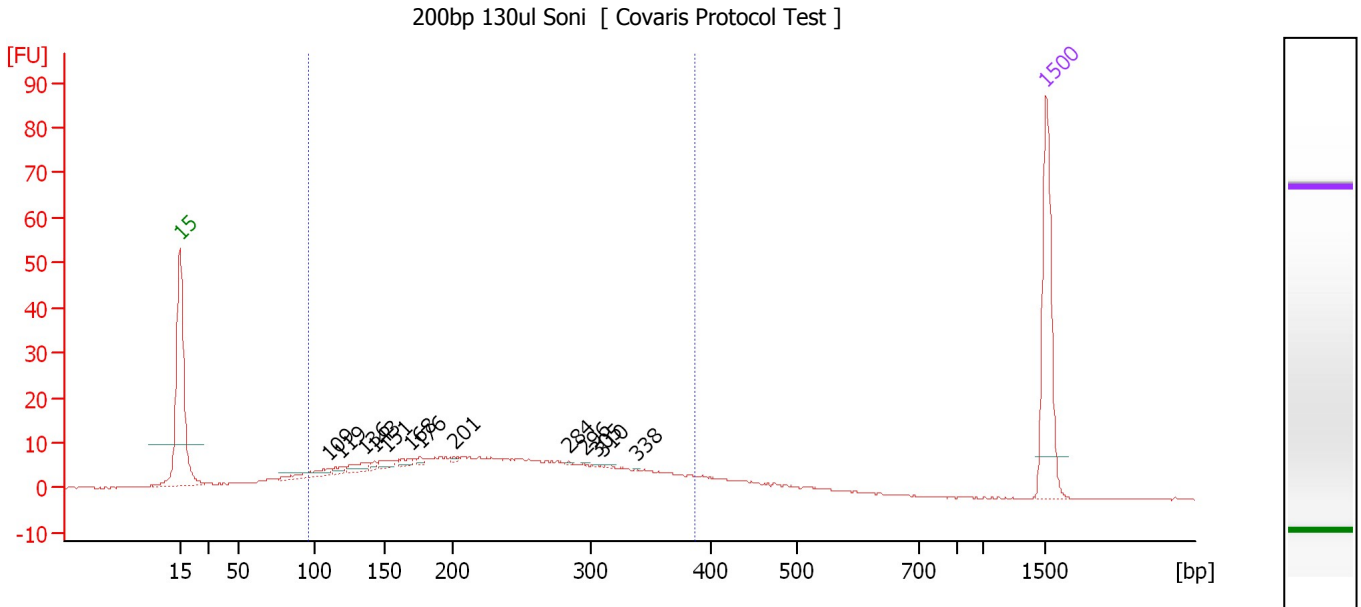
... Region table for sample 5 : 1000bp 50ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 398 | 1,336 | 203.0 | 72 | 12.3 | 5.60 | 772 | 32.8 |  Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 200bp 130ul Soni

Number of peaks found: 13 Area 1: 178.6

Peak table for sample 6 : 200bp 130ul Soni

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 109 | 0.25 | 3.5 | |
| 3 | 119 | 0.09 | 1.1 | |
| 4 | 136 | 0.20 | 2.2 | |
| 5 | 143 | 0.06 | 0.6 | |
| 6 | 151 | 0.15 | 1.5 | |
| 7 | 168 | 0.12 | 1.0 | |
| 8 | 176 | 0.06 | 0.5 | |
| 9 | 201 | 0.03 | 0.2 | |
| 10 | 284 | 0.01 | 0.1 | |
| 11 | 296 | 0.01 | 0.0 | |
| 12 | 305 | 0.01 | 0.1 | |
| 13 | 310 | 0.03 | 0.1 | |
| 14 | 338 | 0.01 | 0.0 | |
| 15 | 1,500 | 2.10 | 2.1 | Upper Marker |

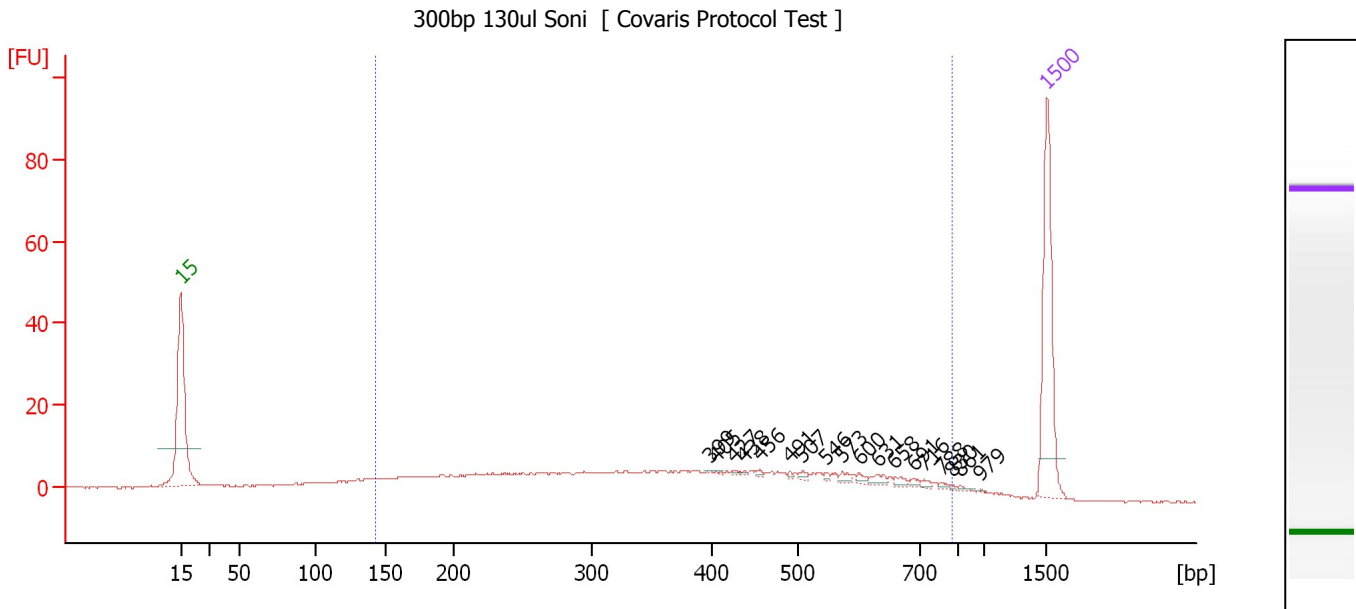
Region table for sample 6 : 200bp 130ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|----------|
| 96 | 387 | 178.6 | 78 | 81.2 | 10.52 | 232 | 33.1 | Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 300bp 130ul Soni

Number of peaks found: 18 Area 1: 199.6

Peak table for sample 7 : 300bp 130ul Soni

| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 399 | 0.01 | 0.0 | |
| 3 | 405 | 0.01 | 0.0 | |
| 4 | 427 | 0.02 | 0.1 | |
| 5 | 438 | 0.02 | 0.1 | |
| 6 | 456 | 0.03 | 0.1 | |
| 7 | 491 | 0.03 | 0.1 | |
| 8 | 507 | 0.05 | 0.1 | |
| 9 | 546 | 0.03 | 0.1 | |
| 10 | 573 | 0.07 | 0.2 | |
| 11 | 600 | 0.06 | 0.2 | |
| 12 | 631 | 0.10 | 0.2 | |
| 13 | 658 | 0.07 | 0.2 | |
| 14 | 691 | 0.05 | 0.1 | |
| 15 | 716 | 0.05 | 0.1 | |
| 16 | 788 | 0.04 | 0.1 | |
| 17 | 830 | 0.02 | 0.0 | |
| 18 | 861 | 0.03 | 0.1 | |
| 19 | 979 | 0.01 | 0.0 | |
| 20 | 1,500 | 2.10 | 2.1 | Upper Marker |

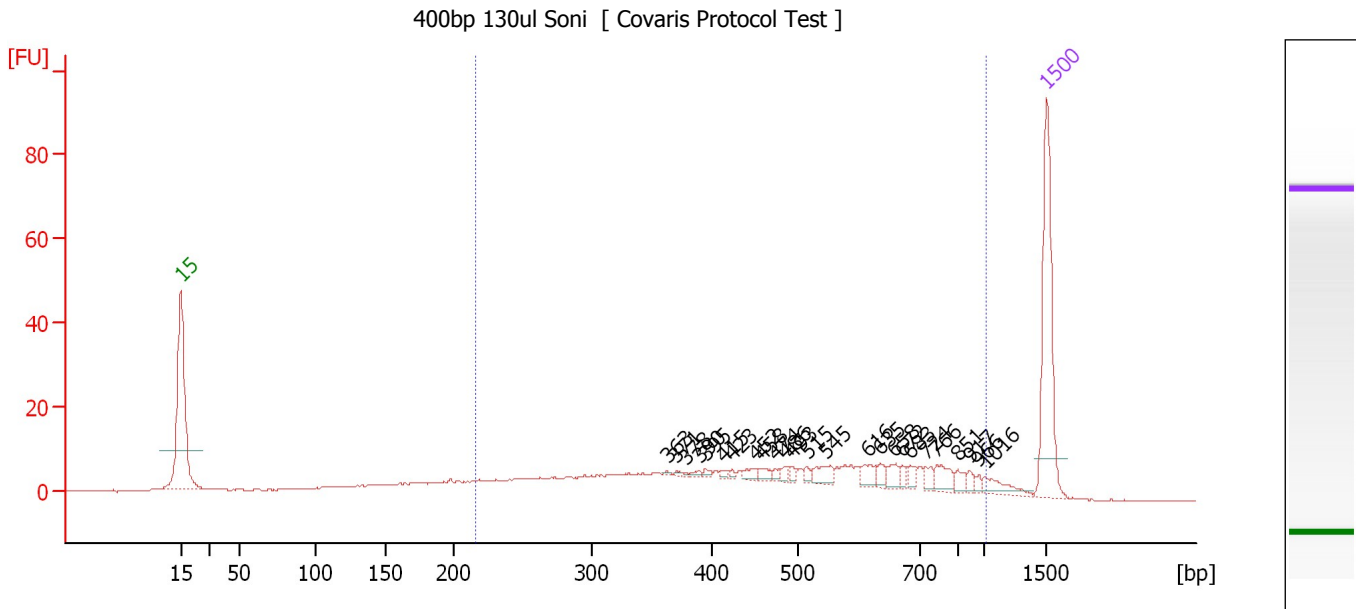
Region table for sample 7 : 300bp 130ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|----------|
| 142 | 825 | 199.6 | 87 | 43.7 | 8.98 | 399 | 40.4 | Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 400bp 130ul Soni

Number of peaks found: 25 Area 1: 213.6

Peak table for sample 8 : 400bp 130ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 363 | 0.02 | 0.1 | |
| 3 | 371 | 0.02 | 0.1 | |
| 4 | 378 | 0.02 | 0.1 | |
| 5 | 390 | 0.03 | 0.1 | |
| 6 | 395 | 0.05 | 0.2 | |
| 7 | 415 | 0.04 | 0.1 | |
| 8 | 423 | 0.04 | 0.1 | |
| 9 | 452 | 0.10 | 0.3 | |
| 10 | 458 | 0.10 | 0.3 | |
| 11 | 474 | 0.06 | 0.2 | |
| 12 | 486 | 0.07 | 0.2 | |
| 13 | 493 | 0.07 | 0.2 | |
| 14 | 515 | 0.08 | 0.2 | |
| 15 | 545 | 0.23 | 0.6 | |
| 16 | 616 | 0.19 | 0.5 | |
| 17 | 635 | 0.14 | 0.3 | |
| 18 | 658 | 0.17 | 0.4 | |
| 19 | 672 | 0.09 | 0.2 | |
| 20 | 683 | 0.11 | 0.3 | |
| 21 | 724 | 0.12 | 0.3 | |
| 22 | 766 | 0.28 | 0.6 | |
| 23 | 851 | 0.13 | 0.2 | |
| 24 | 917 | 0.10 | 0.2 | |
| 25 | 966 | 0.08 | 0.1 | |
| 26 | 1,016 | 0.28 | 0.4 | |
| 27 | 1,500 | 2.10 | 2.1 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

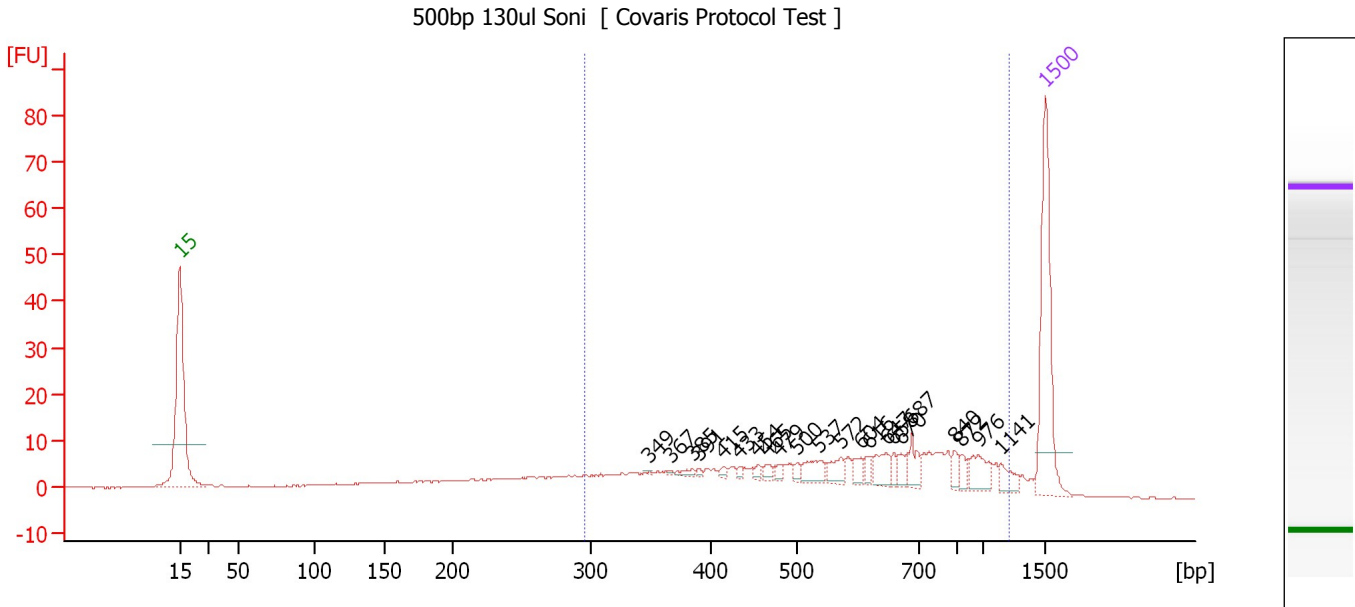
... Region table for sample 8 : 400bp 130ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 216 | 1,017 | 213.6 | 82 | 31.2 | 8.57 | 501 | 37.3 |  Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 500bp 130ul Soni

Number of peaks found: 22 Area 1: 195.8

Peak table for sample 9 : 500bp 130ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 349 | 0.01 | 0.0 | |
| 3 | 367 | 0.02 | 0.1 | |
| 4 | 385 | 0.07 | 0.3 | |
| 5 | 391 | 0.03 | 0.1 | |
| 6 | 415 | 0.06 | 0.2 | |
| 7 | 433 | 0.05 | 0.2 | |
| 8 | 454 | 0.07 | 0.2 | |
| 9 | 465 | 0.09 | 0.3 | |
| 10 | 479 | 0.09 | 0.3 | |
| 11 | 500 | 0.08 | 0.2 | |
| 12 | 537 | 0.28 | 0.8 | |
| 13 | 572 | 0.24 | 0.6 | |
| 14 | 604 | 0.15 | 0.4 | |
| 15 | 616 | 0.12 | 0.3 | |
| 16 | 647 | 0.31 | 0.7 | |
| 17 | 658 | 0.13 | 0.3 | |
| 18 | 670 | 0.17 | 0.4 | |
| 19 | 687 | 0.29 | 0.6 | |
| 20 | 840 | 0.16 | 0.3 | |
| 21 | 872 | 0.15 | 0.3 | |
| 22 | 976 | 0.42 | 0.7 | |
| 23 | 1,141 | 0.23 | 0.3 | |
| 24 | 1,500 | 2.10 | 2.1 | Upper Marker |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

... Region table for sample 9 : 500bp 130ul Soni

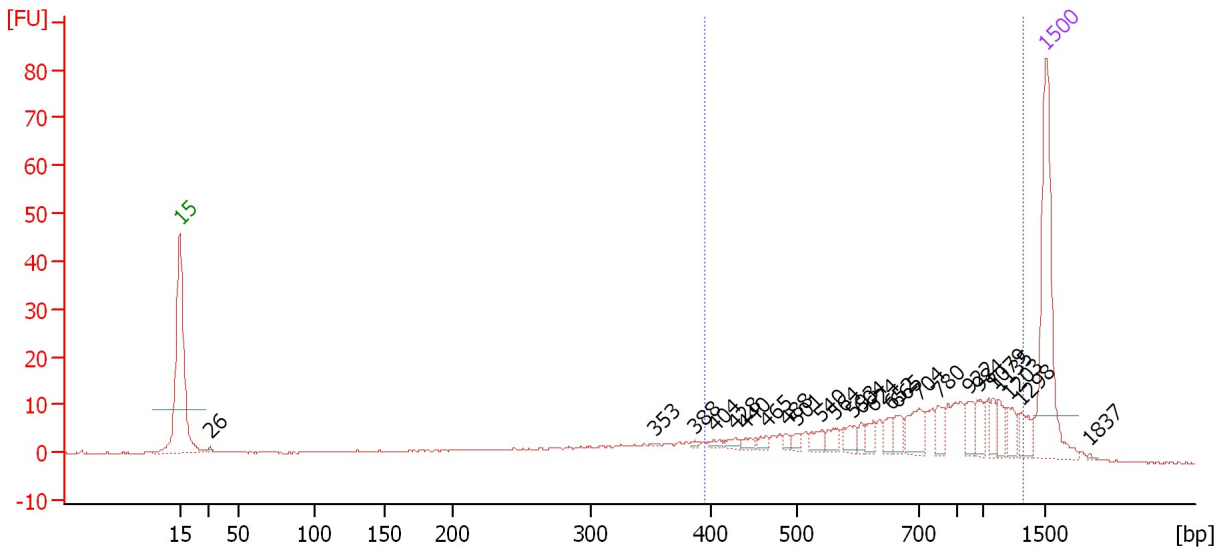
| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 295 | 1,207 | 195.8 | 78 | 22.7 | 7.83 | 605 | 35.7 |  Region 1 |

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 PM

Electropherogram Summary Continued ...

800bp 130ul Soni [Covaris Protocol Test]



Overall Results for sample 10 : 800bp 130ul Soni

Number of peaks found: 24 Area 1: 170.8

Peak table for sample 10 : 800bp 130ul Soni


| Peak | Size [bp] | Conc. [ng/μl] | Molarity [nmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 15 | 4.20 | 424.2 | Lower Marker |
| 2 | 26 | 0.04 | 2.2 | |
| 3 | 353 | 0.01 | 0.1 | |
| 4 | 388 | 0.03 | 0.1 | |
| 5 | 404 | 0.06 | 0.2 | |
| 6 | 428 | 0.08 | 0.3 | |
| 7 | 440 | 0.07 | 0.3 | |
| 8 | 465 | 0.08 | 0.3 | |
| 9 | 488 | 0.06 | 0.2 | |
| 10 | 501 | 0.08 | 0.2 | |
| 11 | 540 | 0.16 | 0.4 | |
| 12 | 564 | 0.14 | 0.4 | |
| 13 | 593 | 0.16 | 0.4 | |
| 14 | 604 | 0.11 | 0.3 | |
| 15 | 624 | 0.14 | 0.3 | |
| 16 | 652 | 0.17 | 0.4 | |
| 17 | 665 | 0.18 | 0.4 | |
| 18 | 704 | 0.41 | 0.9 | |
| 19 | 780 | 0.22 | 0.4 | |
| 20 | 922 | 0.23 | 0.4 | |
| 21 | 984 | 0.25 | 0.4 | |
| 22 | 1,079 | 0.21 | 0.3 | |
| 23 | 1,135 | 0.21 | 0.3 | |
| 24 | 1,203 | 0.25 | 0.3 | |
| 25 | 1,298 | 0.27 | 0.3 | |
| 26 | 1,500 | 2.10 | 2.1 | Upper Marker |
| 27 | 1,837 | 0.00 | 0.0 | |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Gel Image

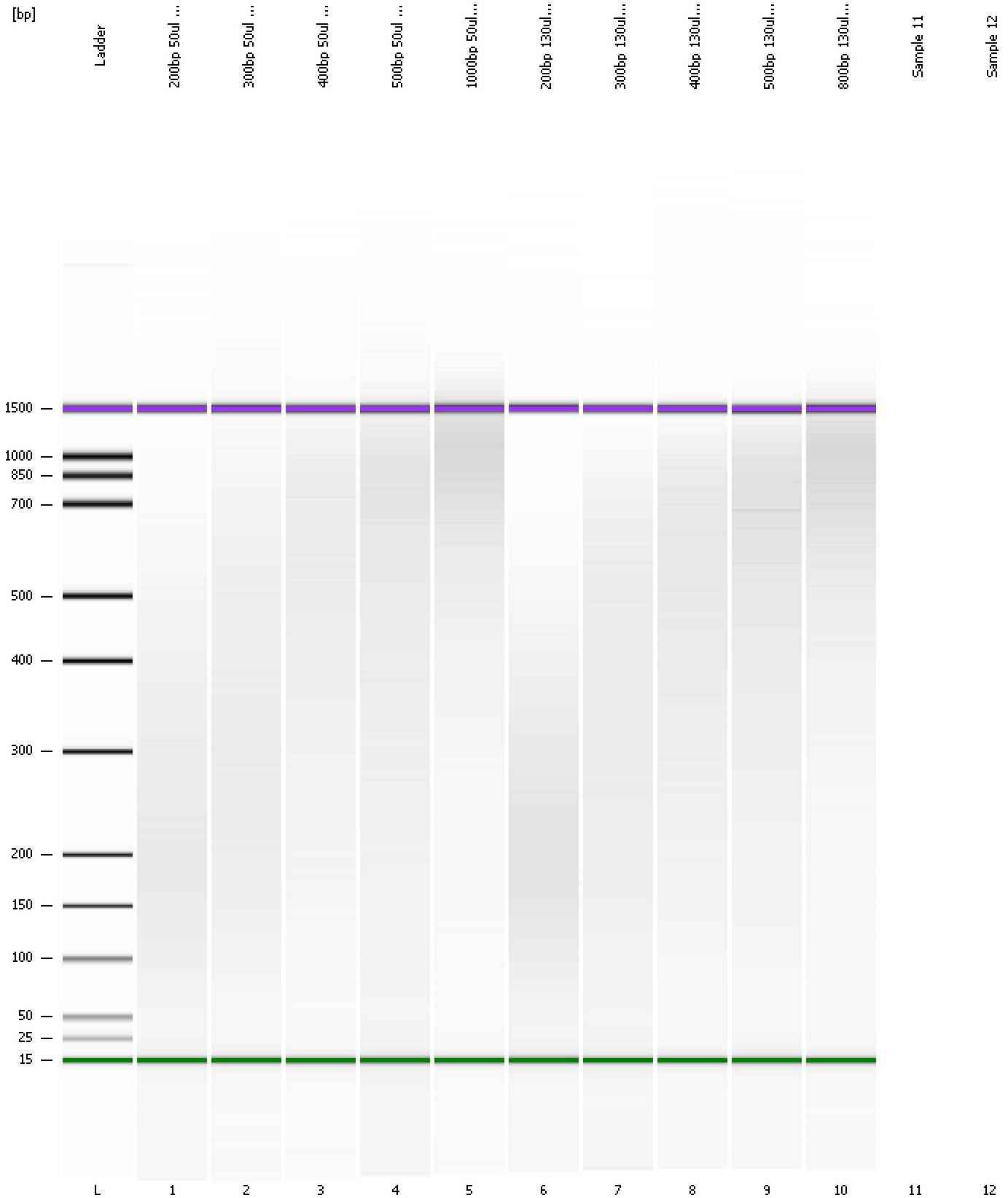
... Region table for sample 10 : 800bp 130ul Soni

| From [bp] | To [bp] | Area | % of Total | Molarity [nmol/l] | Conc. [ng/μl] | Average Size [bp] | Size distribution in CV [%] | Co Name |
|-----------|---------|-------|------------|-------------------|---------------|-------------------|-----------------------------|--|
| 395 | 1,316 | 170.8 | 75 | 12.9 | 5.75 | 753 | 32.0 |  Region 1 |

Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Invalid Samples



Assay Class: DNA 1000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
Modified: 2/15/2013 3:07:20 PM

Run Logbook

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: DNA 1000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad

Created: 2/15/2013 2:21:30 PM
 Modified: 2/15/2013 3:07:20 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 | | 2/15/2013 2:58:08 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-15\2013-02-15_004.xad) | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 2/15/2013 2:21:35 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |