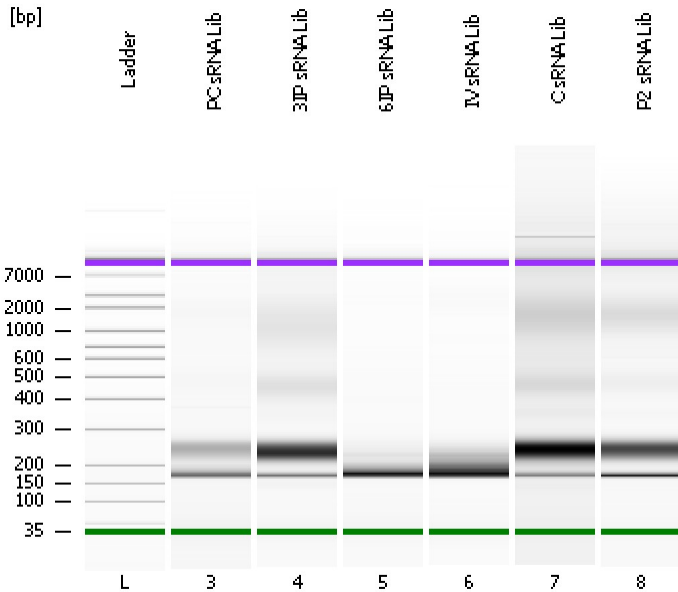


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/17/2013 10:10:47 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

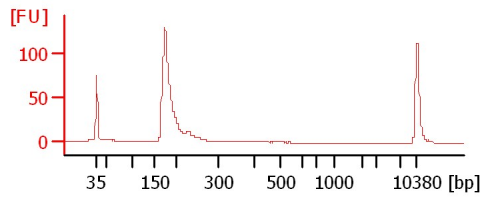
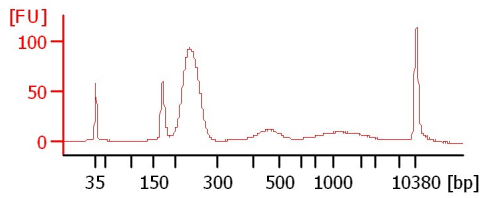
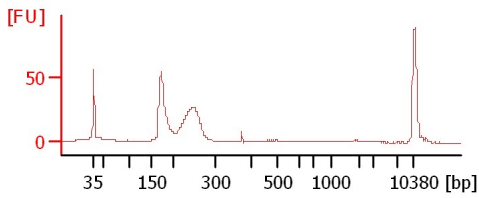
Chip Information:

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

PC sRNA Lib

3IP sRNA Lib

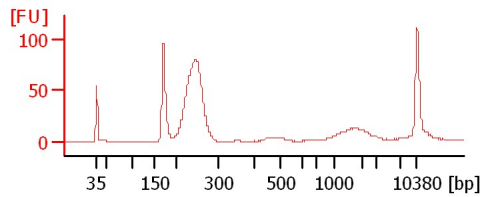
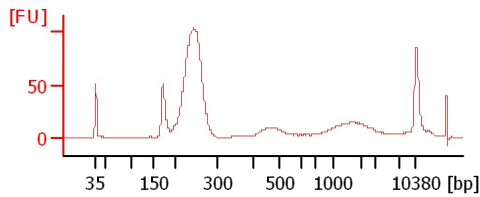
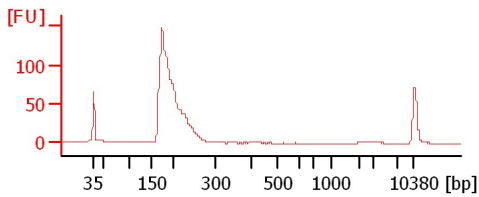
6IP sRNA Lib



IV sRNA Lib

C sRNA Lib

P2 sRNA Lib



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|--------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| PC sRNA Lib | | <input type="checkbox"/> | ✓ | | | |
| 3IP sRNA Lib | | <input type="checkbox"/> | ✓ | | | |
| 6IP sRNA Lib | | <input type="checkbox"/> | ✓ | | | |
| IV sRNA Lib | | <input type="checkbox"/> | ✓ | | | |
| C sRNA Lib | | <input type="checkbox"/> | ✓ | | | |
| P2 sRNA Lib | | <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\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/17/2013 10:10:47 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

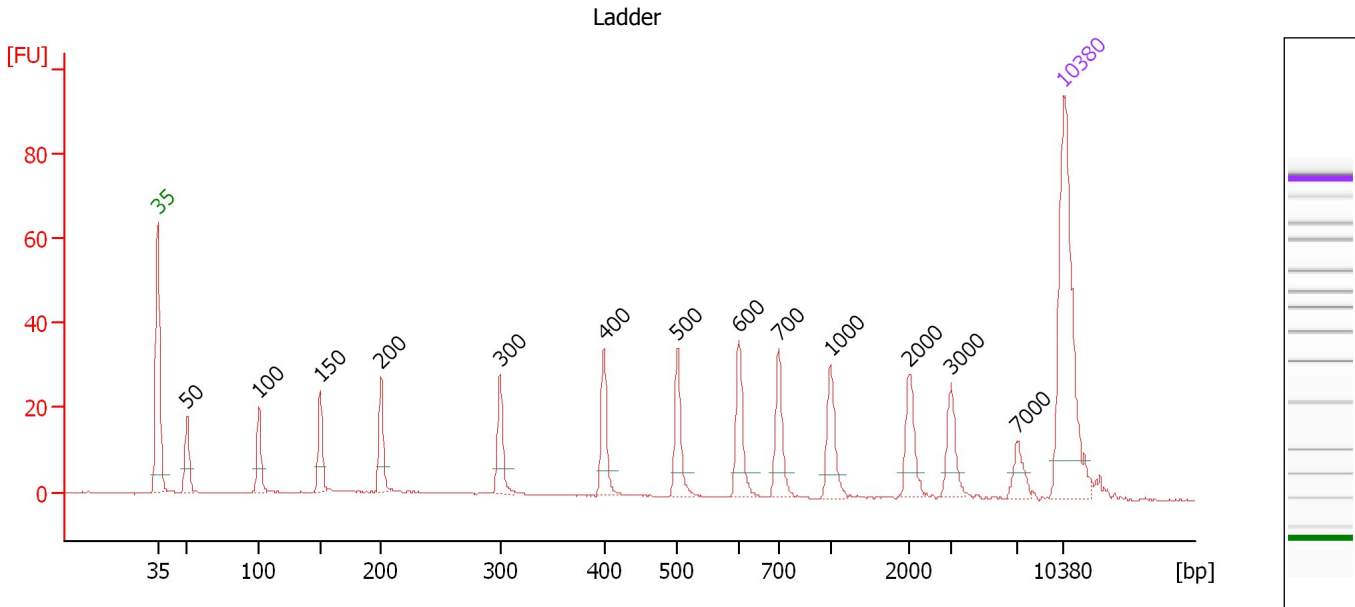
Ladder

| 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:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

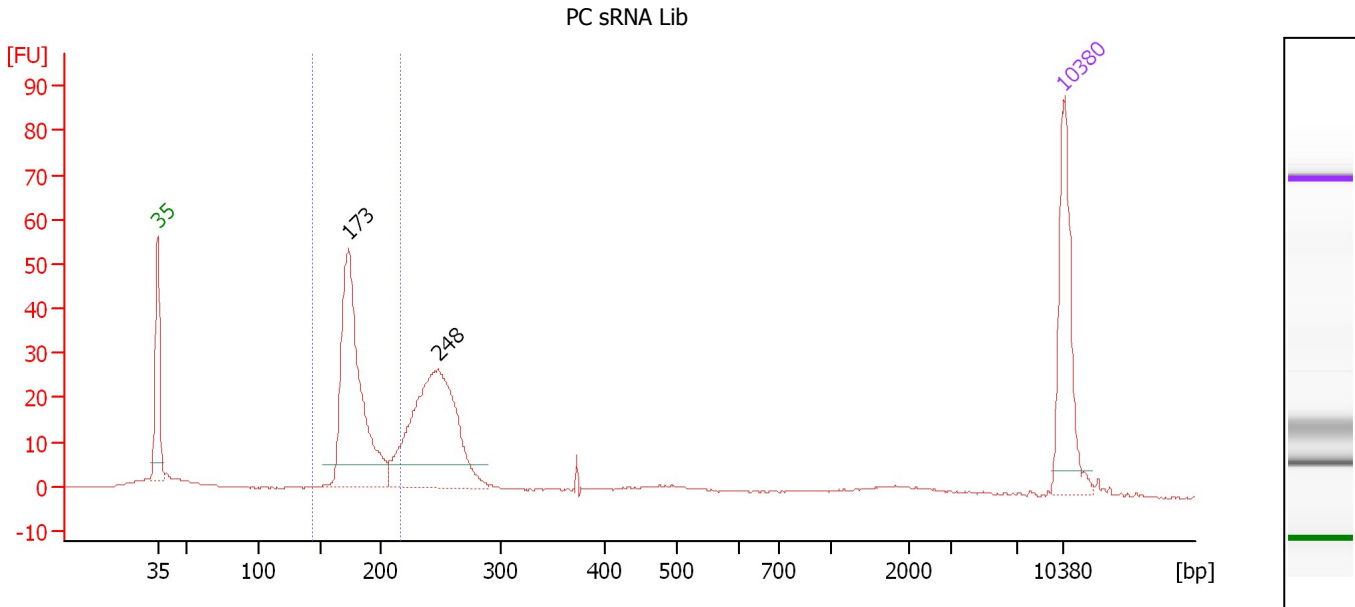
Peak table for Ladder

| 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\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PC sRNA Lib

Number of peaks found: 2 Corr. Area 1: 184.2
 Noise: 0.1

Peak table for sample 3 : PC sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 173 | 259.56 | 2,268.5 | |
| 3 | 248 | 251.53 | 1,538.8 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

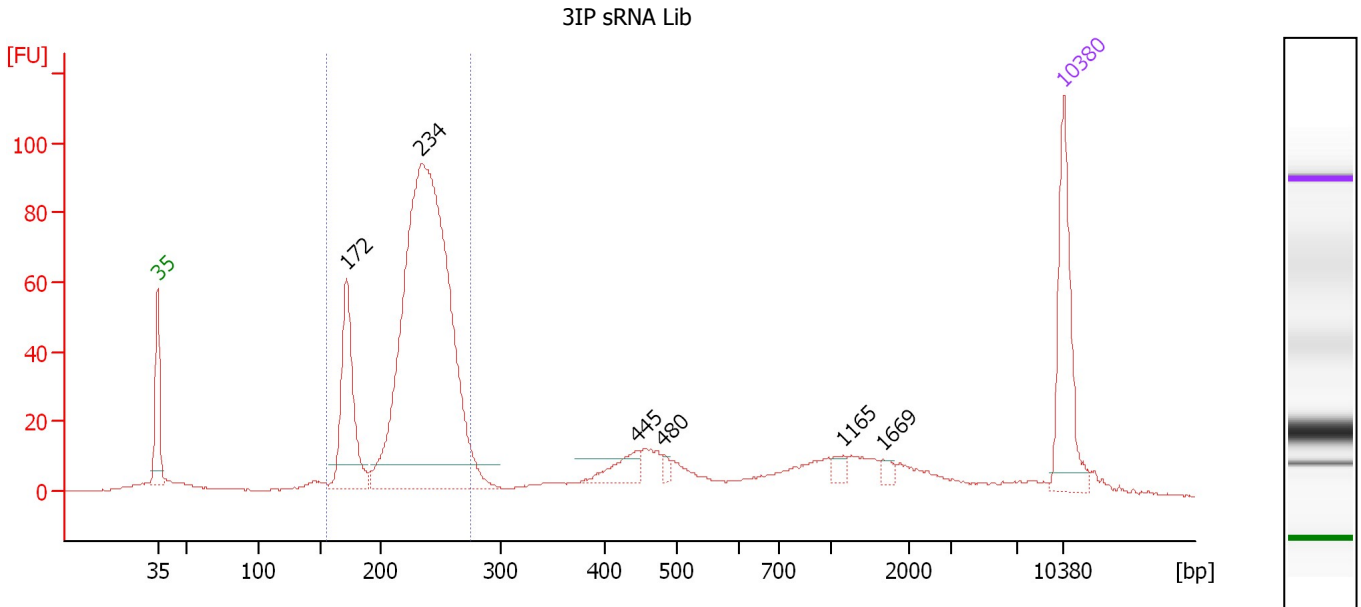
Region table for sample 3 : PC sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 144 | 217 | 181 | 2,408.8 | 285.73 | 184.2 | 43 | 7.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : 3IP sRNA Lib

Height Threshold [FU] : 7

Overall Results for sample 4 : 3IP sRNA Lib

Number of peaks found: 6 Corr. Area 1: 779.9
 Noise: 0.1

Peak table for sample 4 : 3IP sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 172 | 146.95 | 1,295.3 | |
| 3 | 234 | 750.06 | 4,857.0 | |
| 4 | 445 | 26.00 | 88.5 | |
| 5 | 480 | 5.87 | 18.5 | |
| 6 | 1,165 | 7.30 | 9.5 | |
| 7 | 1,669 | 5.43 | 4.9 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |

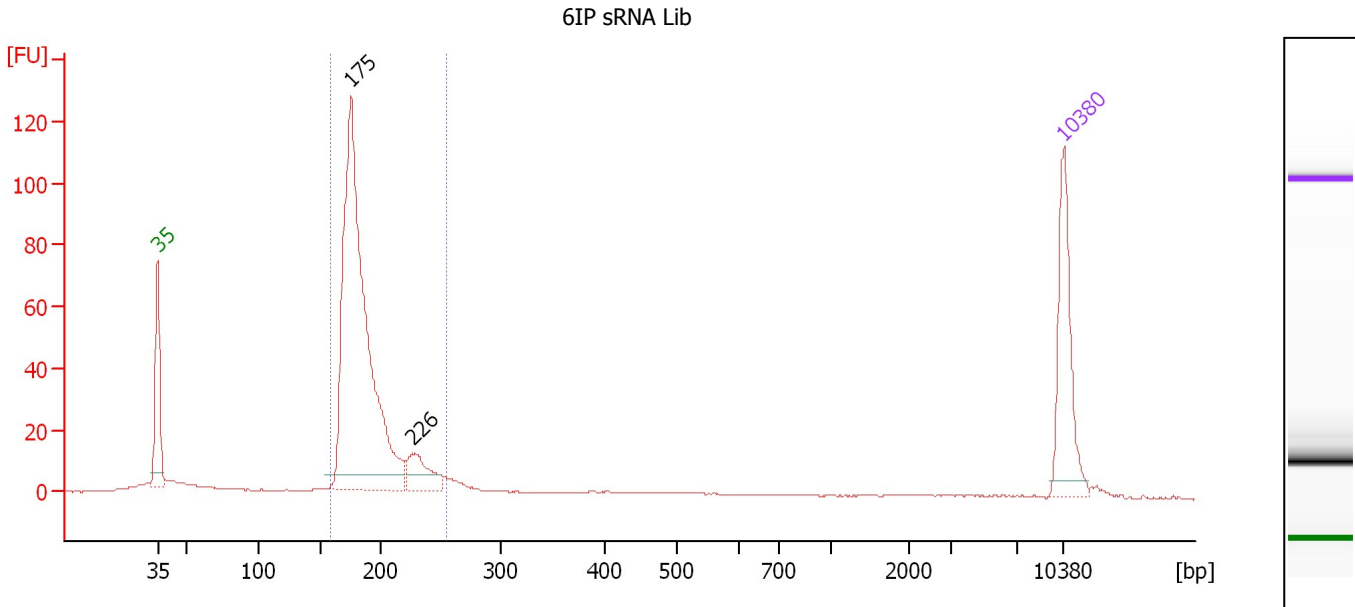
Region table for sample 4 : 3IP sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 156 | 275 | 228 | 6,135.1 | 903.30 | 779.9 | 65 | 12.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 6IP sRNA Lib

Number of peaks found: 2 Corr. Area 1: 516.5
 Noise: 0.2

Peak table for sample 5 : 6IP sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 175 | 572.86 | 4,952.0 | |
| 3 | 226 | 43.19 | 289.0 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

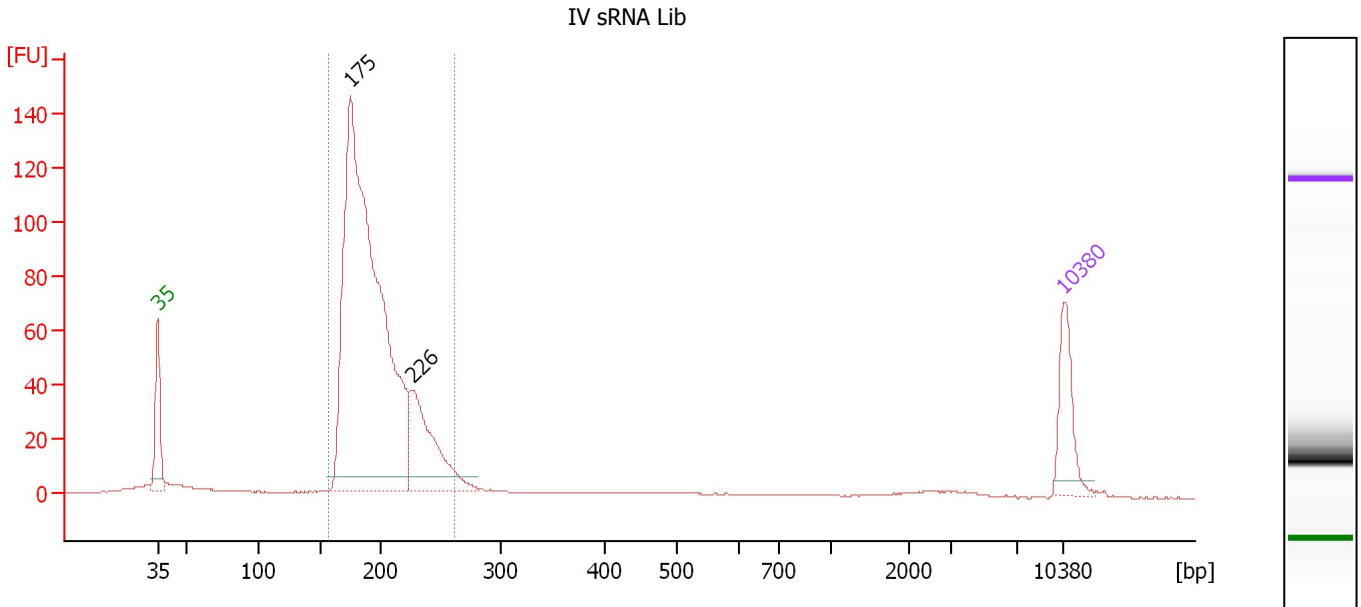
Region table for sample 5 : 6IP sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 158 | 254 | 188 | 5,119.5 | 626.87 | 516.5 | 82 | 10.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : IV sRNA Lib

Number of peaks found: 2 Corr. Area 1: 925.3
 Noise: 0.2

Peak table for sample 6 : IV sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 175 | 1,475.47 | 12,760.9 | |
| 3 | 226 | 226.95 | 1,518.4 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

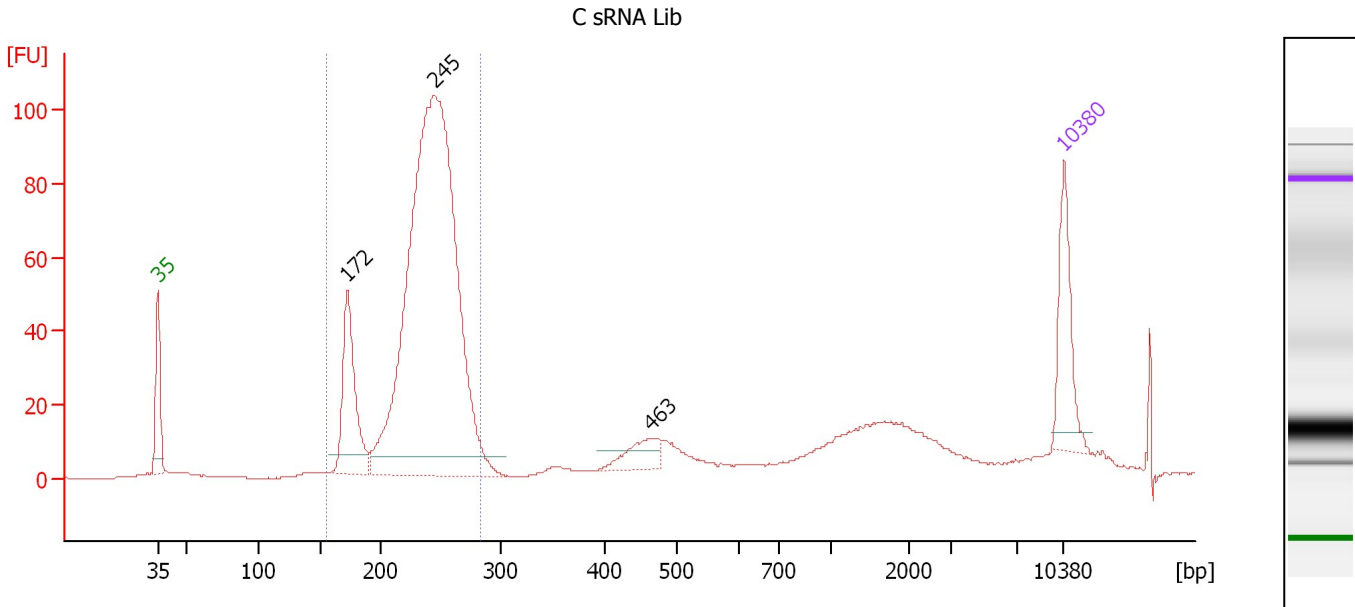
Region table for sample 6 : IV sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 156 | 263 | 196 | 13,048.7 | 1,662.24 | 925.3 | 89 | 11.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C sRNA Lib

Number of peaks found: 3 Corr. Area 1: 850.1
 Noise: 0.2

Peak table for sample 7 : C sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 172 | 182.95 | 1,608.4 | |
| 3 | 245 | 1,228.93 | 7,610.9 | |
| 4 | 463 | 43.29 | 141.8 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

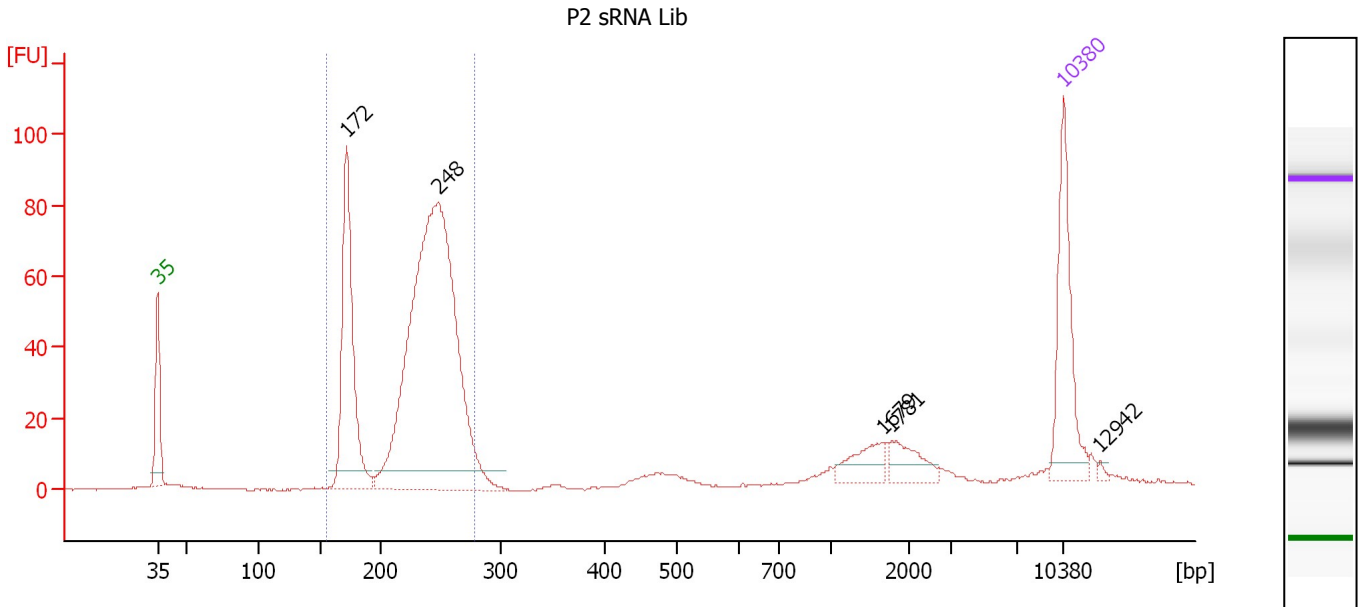
Region table for sample 7 : C sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 155 | 284 | 234 | 9,672.4 | 1,465.10 | 850.1 | 64 | 11.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : P2 sRNA Lib

Number of peaks found: 5 Corr. Area 1: 706.4
 Noise: 0.1

Peak table for sample 8 : P2 sRNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 172 | 210.92 | 1,863.3 | |
| 3 | 248 | 627.48 | 3,840.9 | |
| 4 | 1,679 | 26.09 | 23.5 | |
| 5 | 1,781 | 24.56 | 20.9 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 7 | 12,942 | 0.00 | 0.0 | |

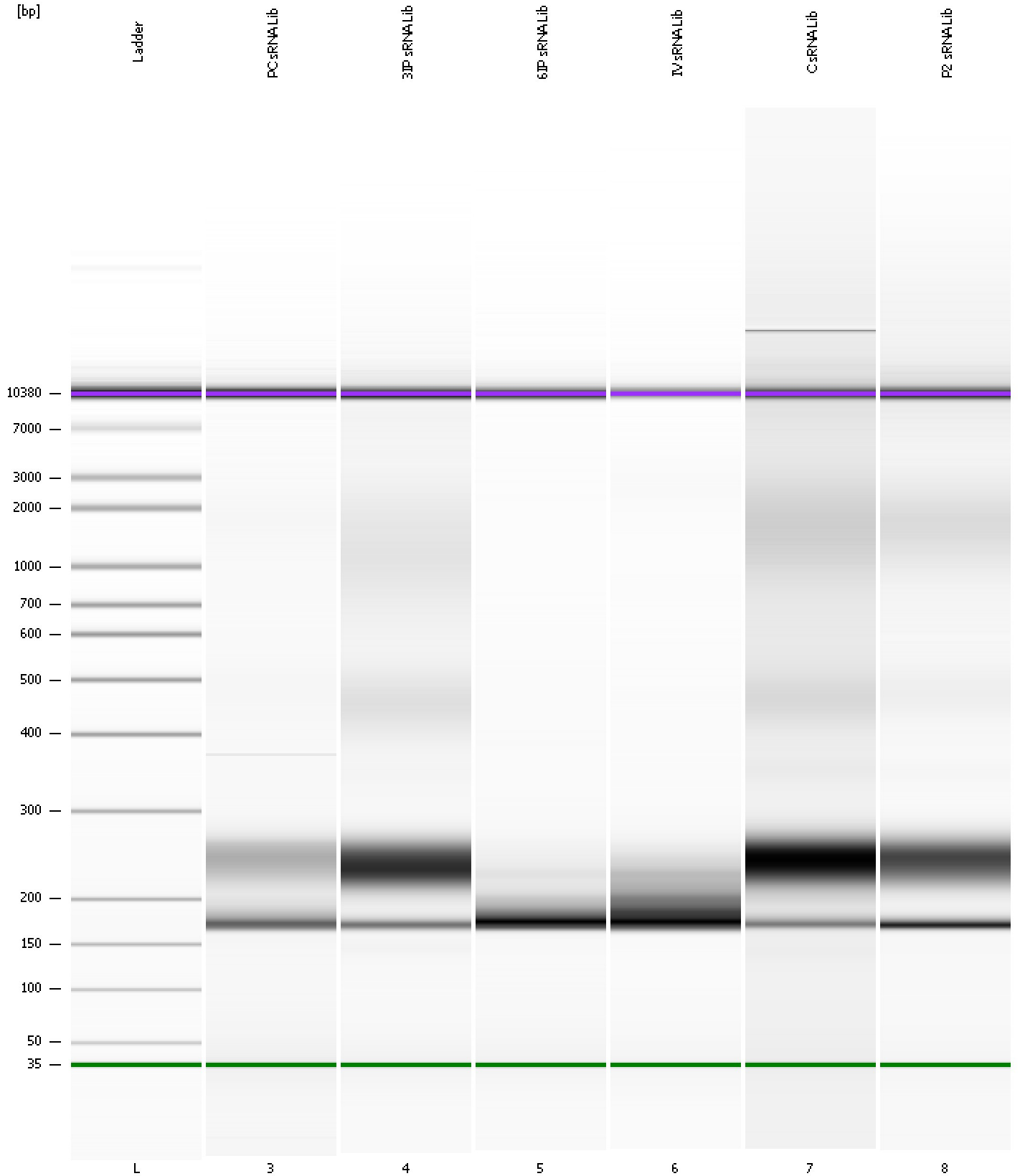
Region table for sample 8 : P2 sRNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 155 | 279 | 227 | 5,882.7 | 853.27 | 706.4 | 67 | 14.2 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/17/2013 10:10:47 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-05-16\2013-05-16_002_sRNA_Lib-2.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/17/2013 10:10:47 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 10) | | Instrument | Run | | 5/16/2013 5:24:39 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad) | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 5/16/2013 4:49:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |