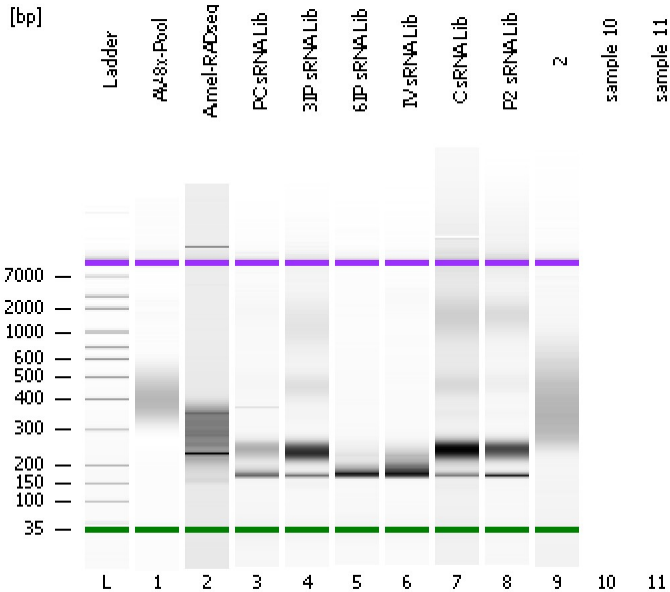


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/16/2013 5:52:05 PM

Electrophoresis File Run Summary



Instrument Information:

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

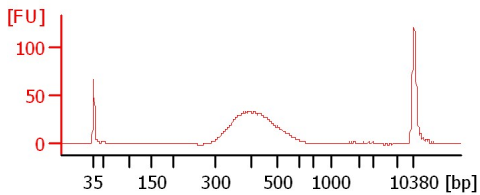
Assay Information:

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

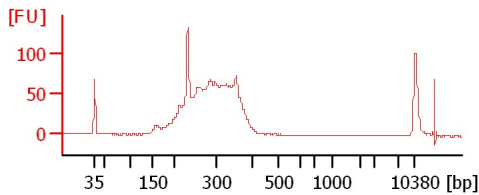
Chip Information:

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

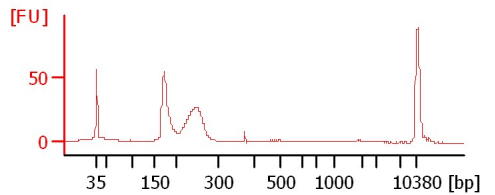
AV-8x-Pool



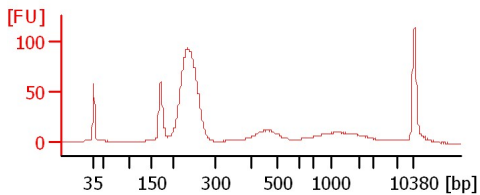
A.mel-RADseq



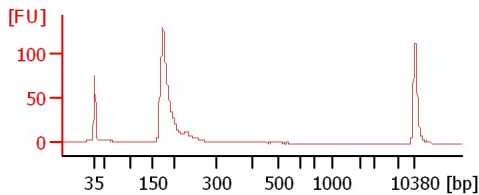
PC sRNA Lib



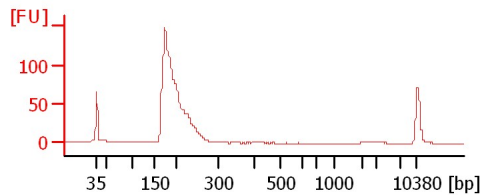
3IP sRNA Lib



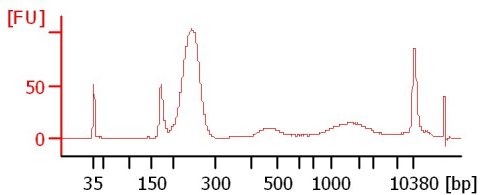
6IP sRNA Lib



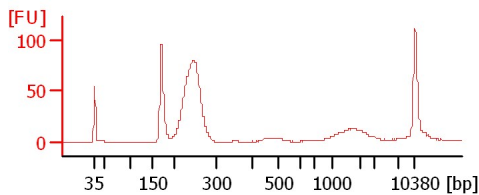
IV sRNA Lib



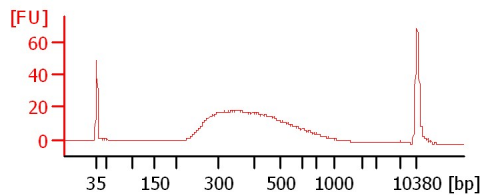
C sRNA Lib



P2 sRNA Lib



2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/16/2013 5:52:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AV-8x-Pool		<input type="checkbox"/>	✓			
A.mel-RADseq		<input type="checkbox"/>	✓			
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"/>	✓			
2		<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\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/16/2013 5:52:05 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

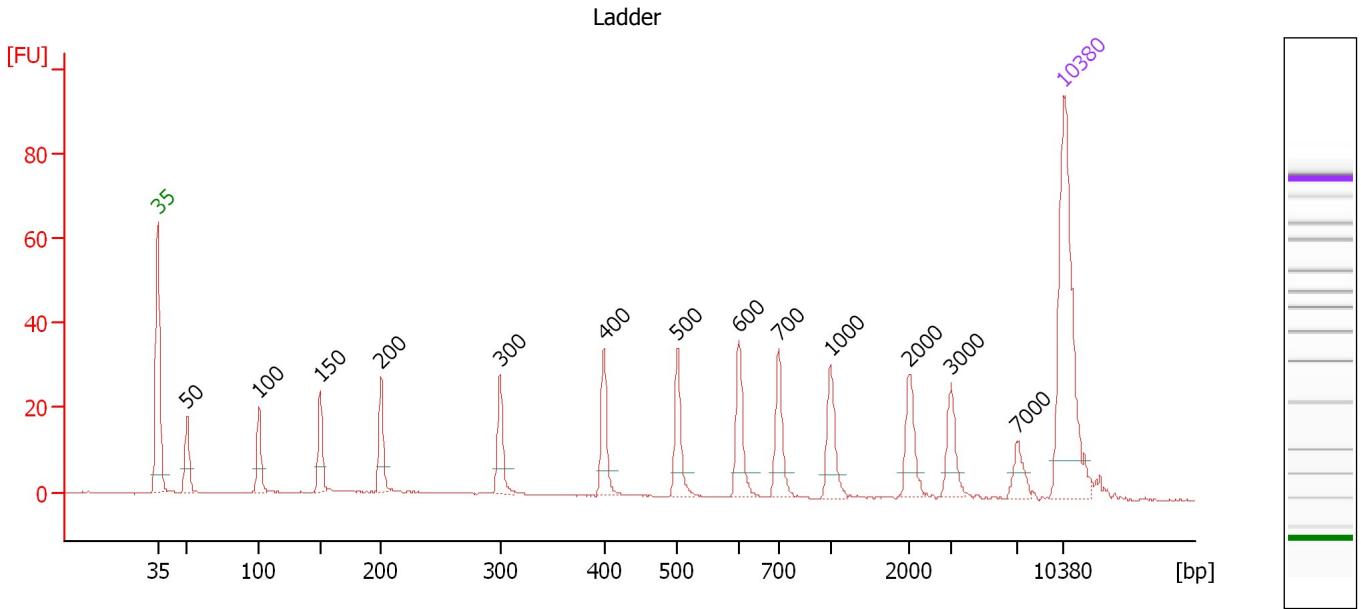
Ladder

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\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

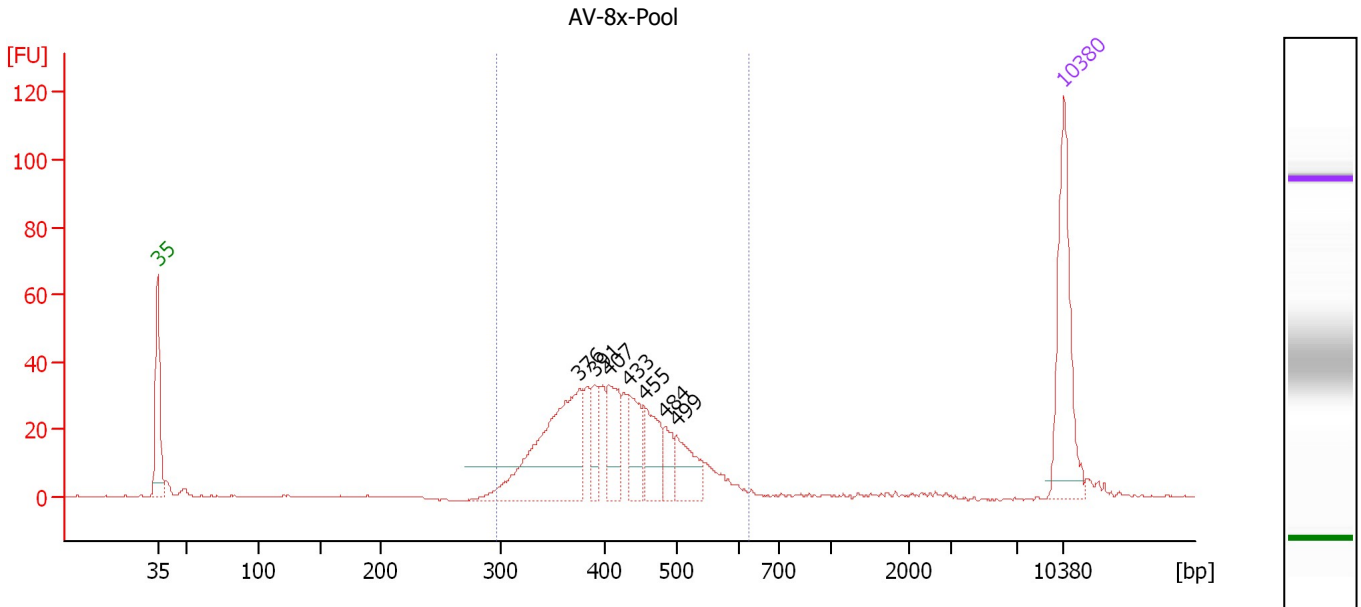
Peak table for Ladder

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\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : AV-8x-Pool

Height Threshold [FU] : 10

Overall Results for sample 1 : AV-8x-Pool

Number of peaks found: 7 Corr. Area 1: 490.1
 Noise: 0.1

Peak table for sample 1 : AV-8x-Pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	376	159.64	643.9	
3	391	24.92	96.6	
4	407	47.32	176.3	
5	433	39.83	139.2	
6	455	43.16	143.6	
7	484	19.13	59.9	
8	499	37.33	113.3	
9	10,380	75.00	10.9	Upper Marker

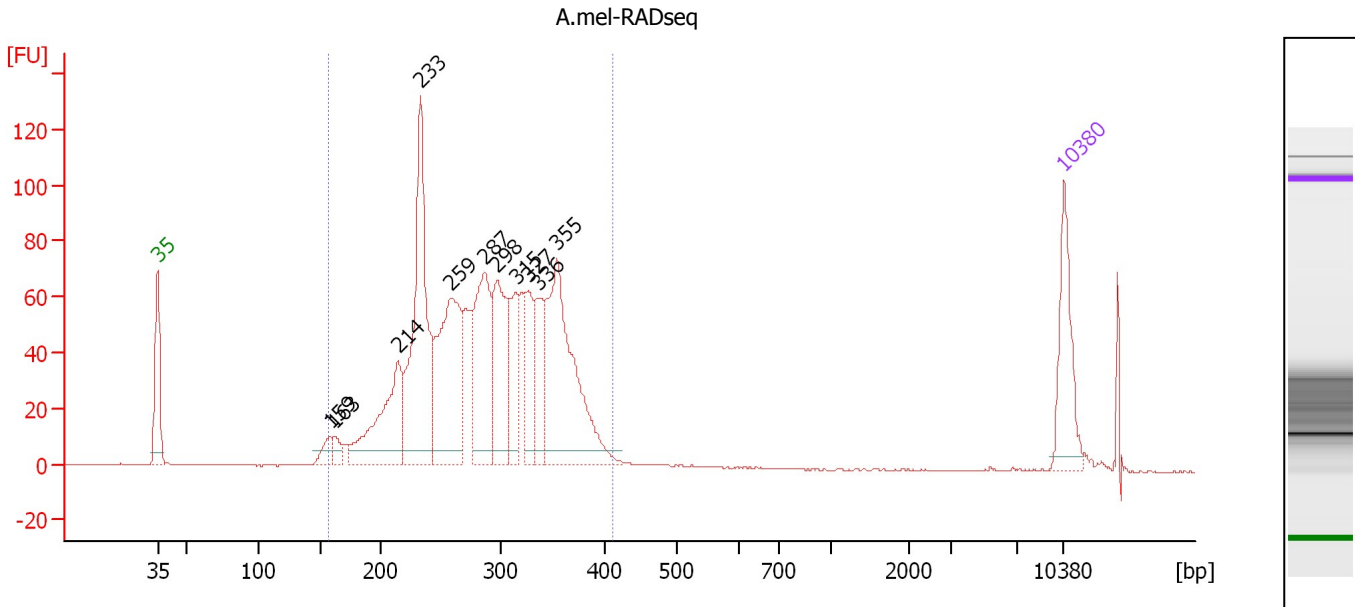
Region table for sample 1 : AV-8x-Pool

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	624	419	1,650.7	443.32	490.1	95	15.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A.mel-RADseq

Number of peaks found: 11 Corr. Area 1: 1,447.7
 Noise: 0.2

Peak table for sample 2 : A.mel-RADseq

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	159	22.91	219.0	
3	163	20.53	191.3	
4	214	175.40	1,240.9	
5	233	322.06	2,092.3	
6	259	244.03	1,427.7	
7	287	182.43	962.1	
8	298	153.07	779.4	
9	315	86.94	418.3	
10	327	80.08	371.3	
11	336	71.53	322.4	
12	355	284.35	1,215.2	
13	10,380	75.00	10.9	Upper Marker

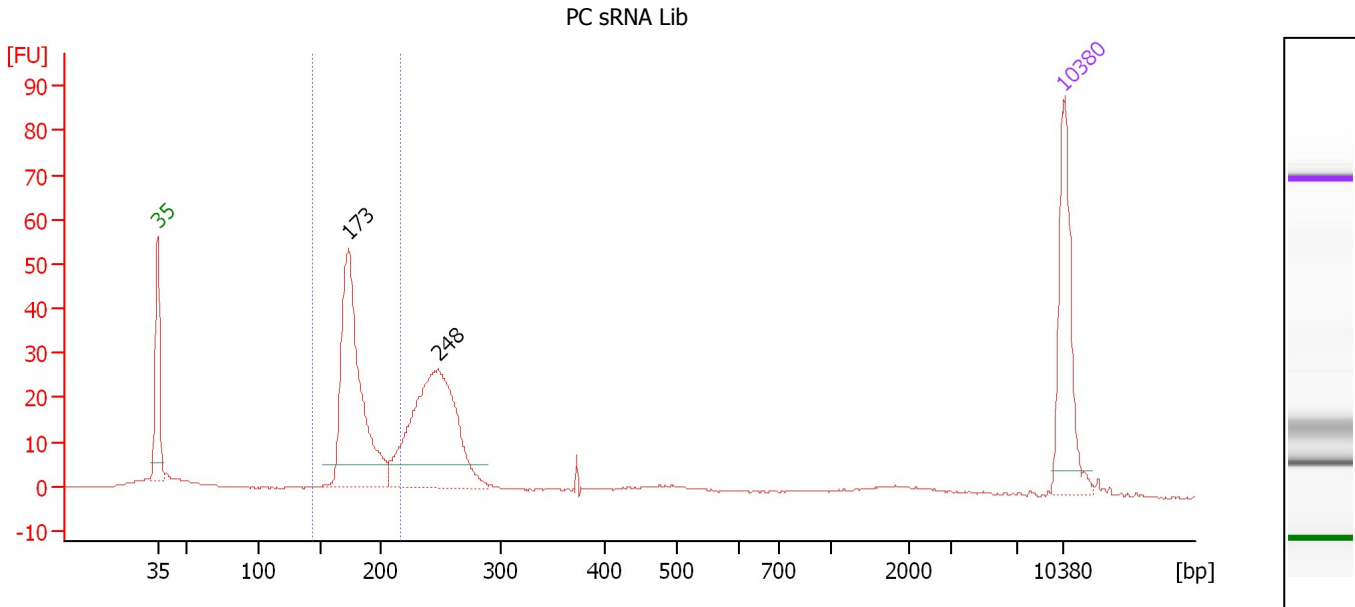
Region table for sample 2 : A.mel-RADseq

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
157	412	287	10,006.6	1,803.28	1,447.7	97	18.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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

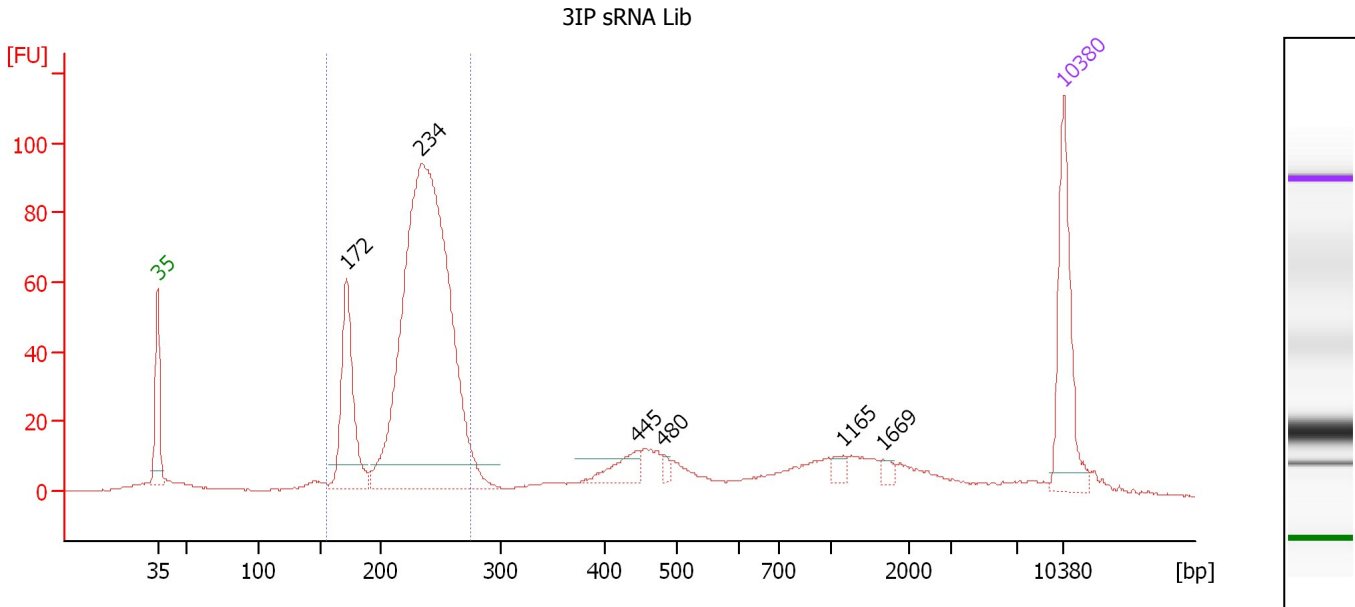
Region table for sample 3 : PC sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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

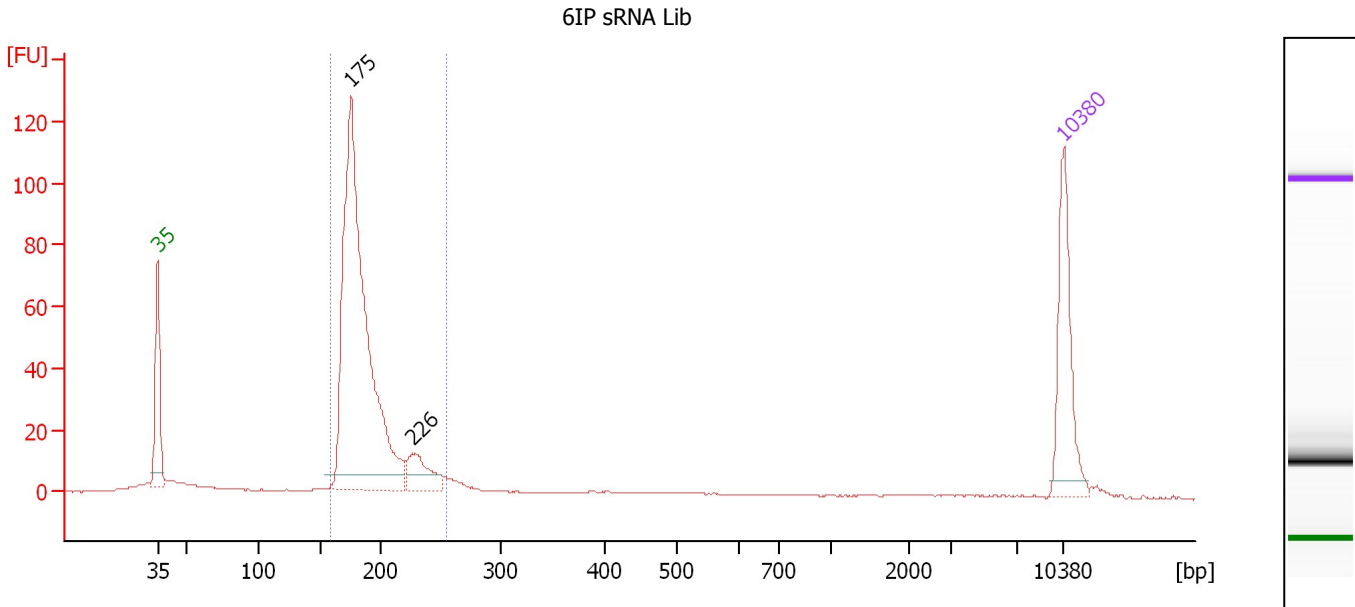
Region table for sample 4 : 3IP sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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

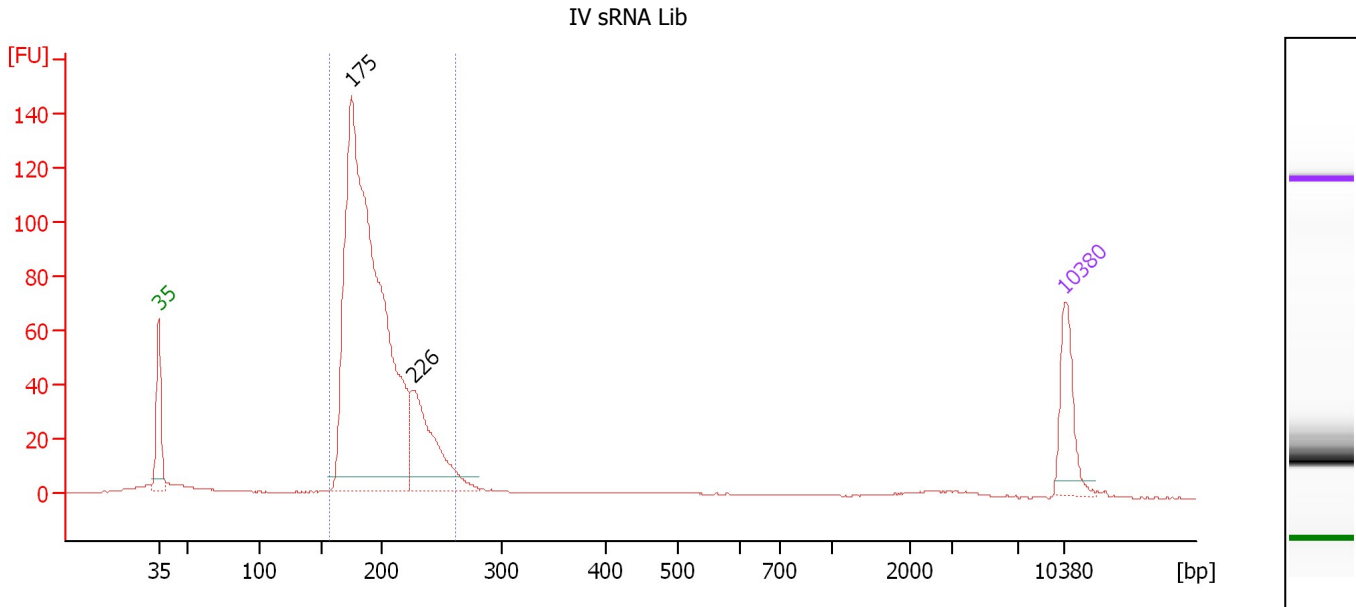
Region table for sample 5 : 6IP sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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

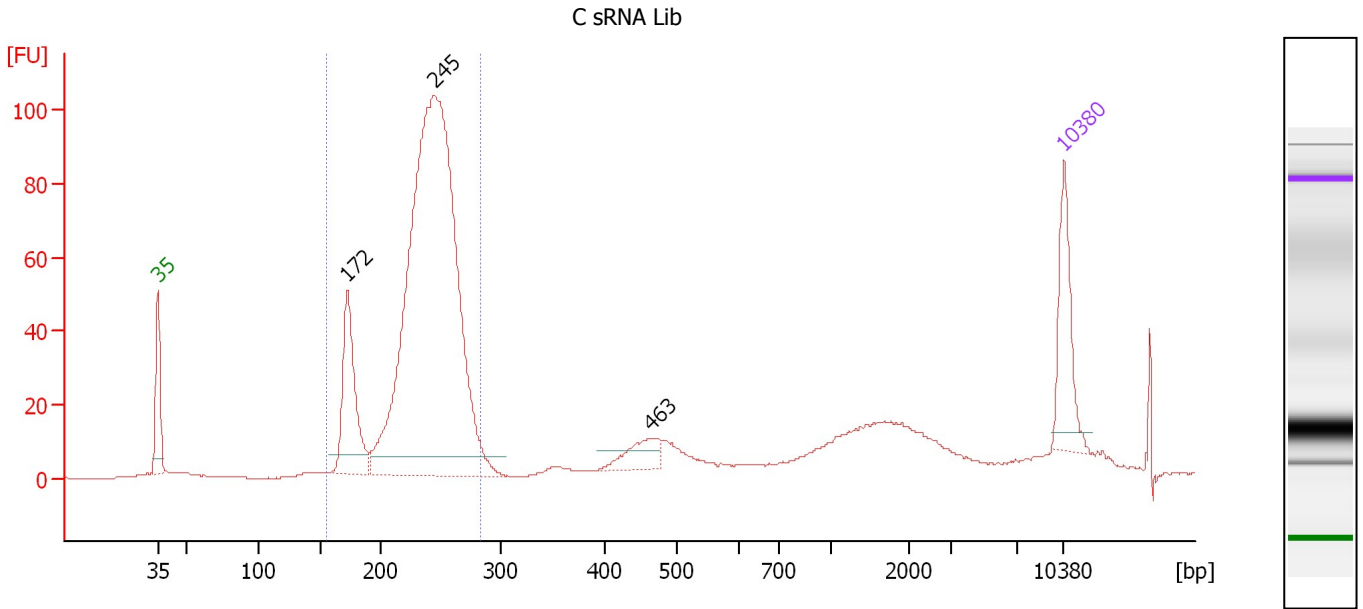
Region table for sample 6 : IV sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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

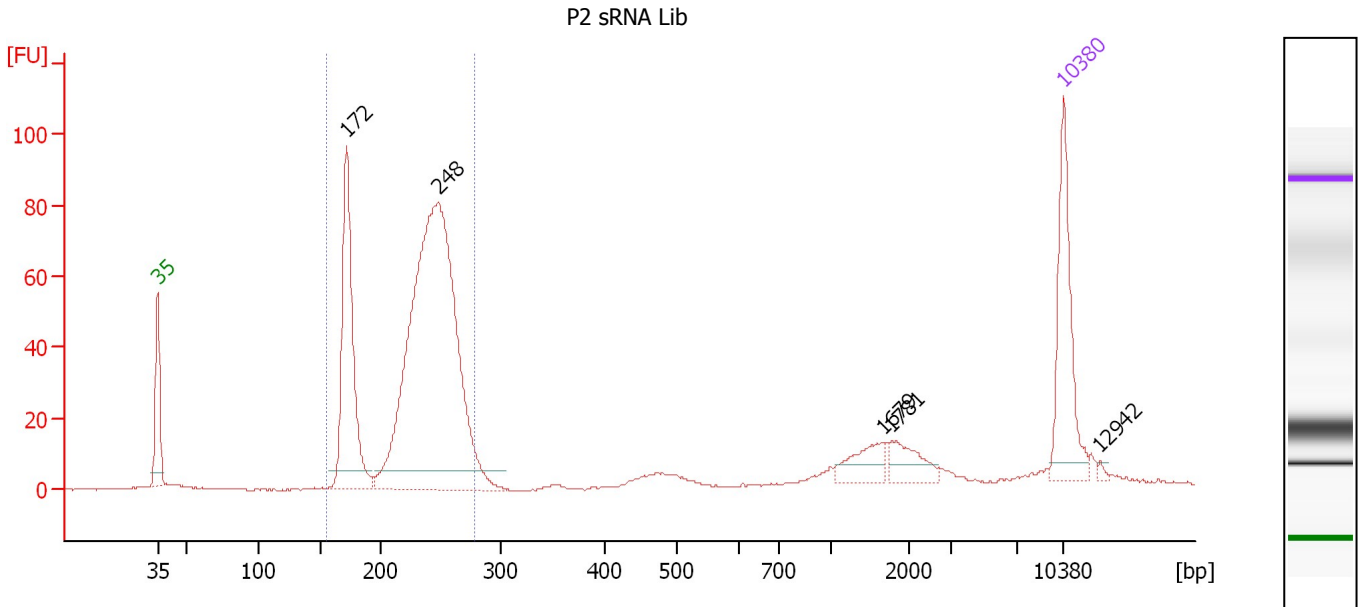
Region table for sample 7 : C sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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	

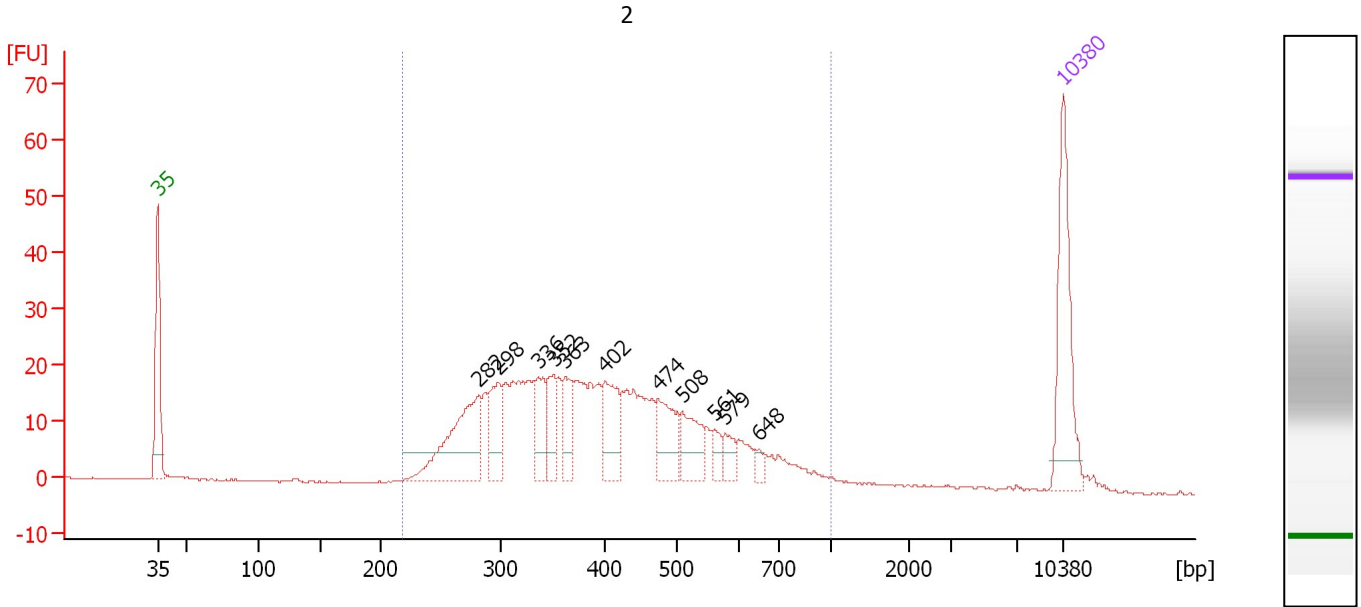
Region table for sample 8 : P2 sRNA Lib

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:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2

Number of peaks found: 11 Corr. Area 1: 518.3
 Noise: 0.2

Peak table for sample 9 : 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	117.51	631.0	
3	298	44.23	224.5	
4	336	41.24	185.8	
5	352	36.22	155.9	
6	363	34.48	144.0	
7	402	51.43	193.7	
8	474	45.53	145.6	
9	508	40.38	120.5	
10	561	12.13	32.7	
11	579	13.64	35.7	
12	648	6.20	14.5	
13	10,380	75.00	10.9	Upper Marker

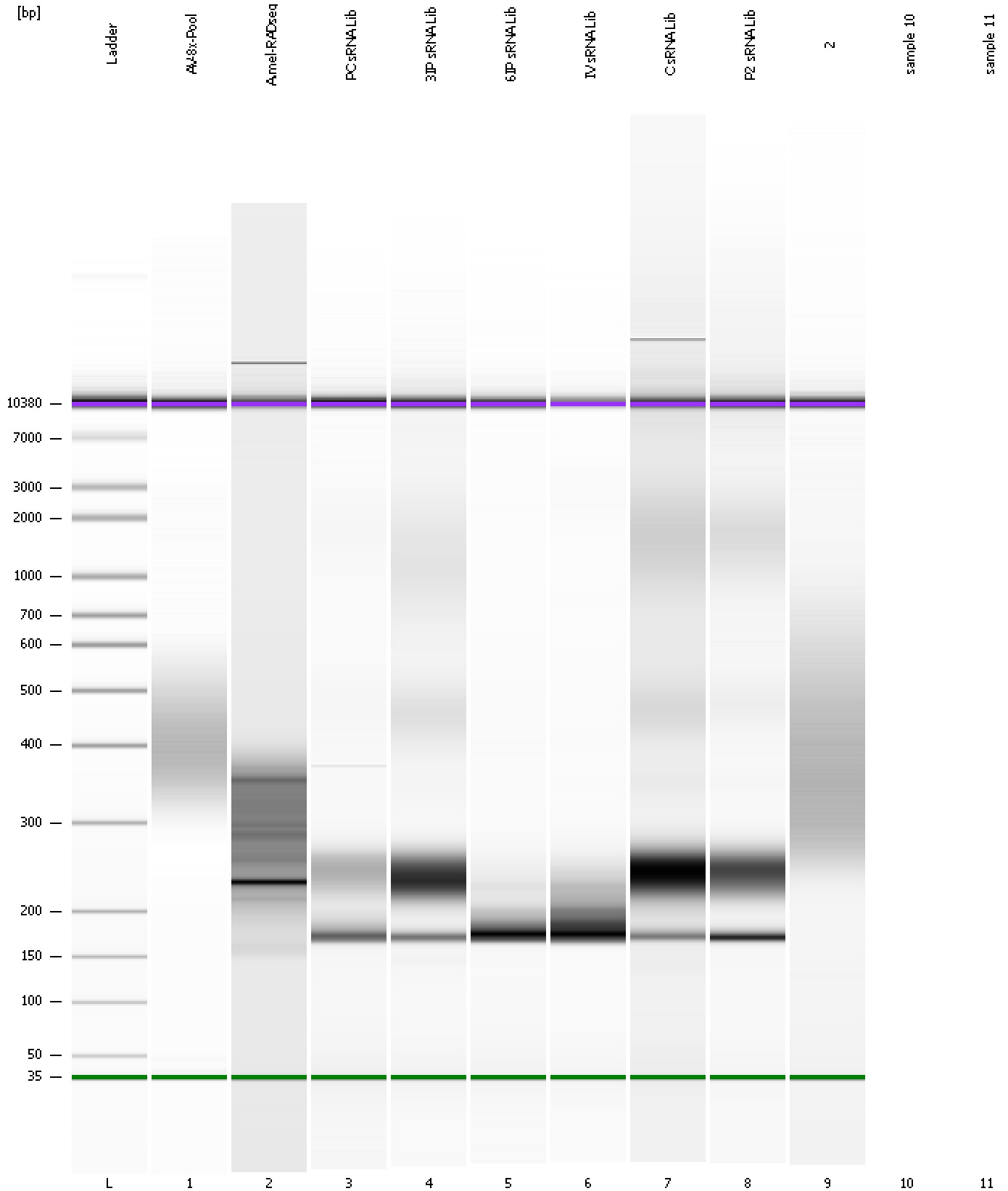
Region table for sample 9 : 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	1,000	417	3,588.0	876.55	518.3	96	31.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/16/2013 5:52:05 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
Modified: 5/16/2013 5:52:05 PM

Invalid Samples

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\2013-05-16\2013-05-16_002.xad

Created: 5/16/2013 4:49:08 PM
 Modified: 5/16/2013 5:52:05 PM

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