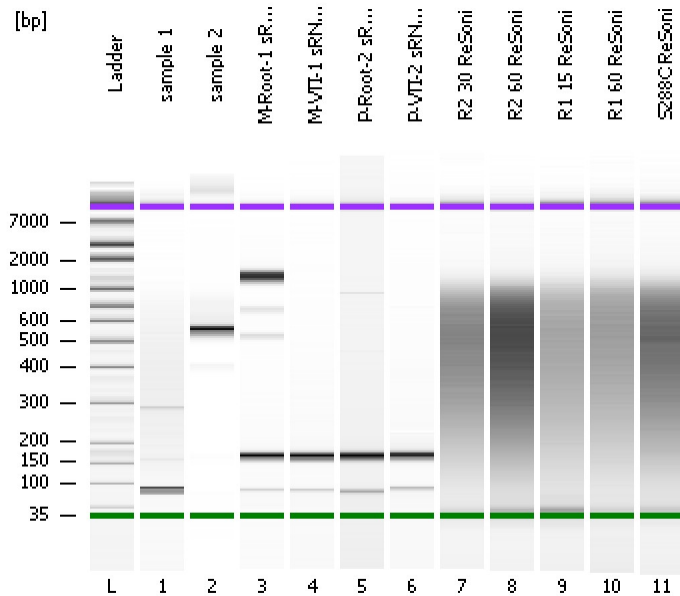


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
Modified: 2/4/2013 11:07:15 AM

Electrophoresis File Run Summary



Instrument Information:

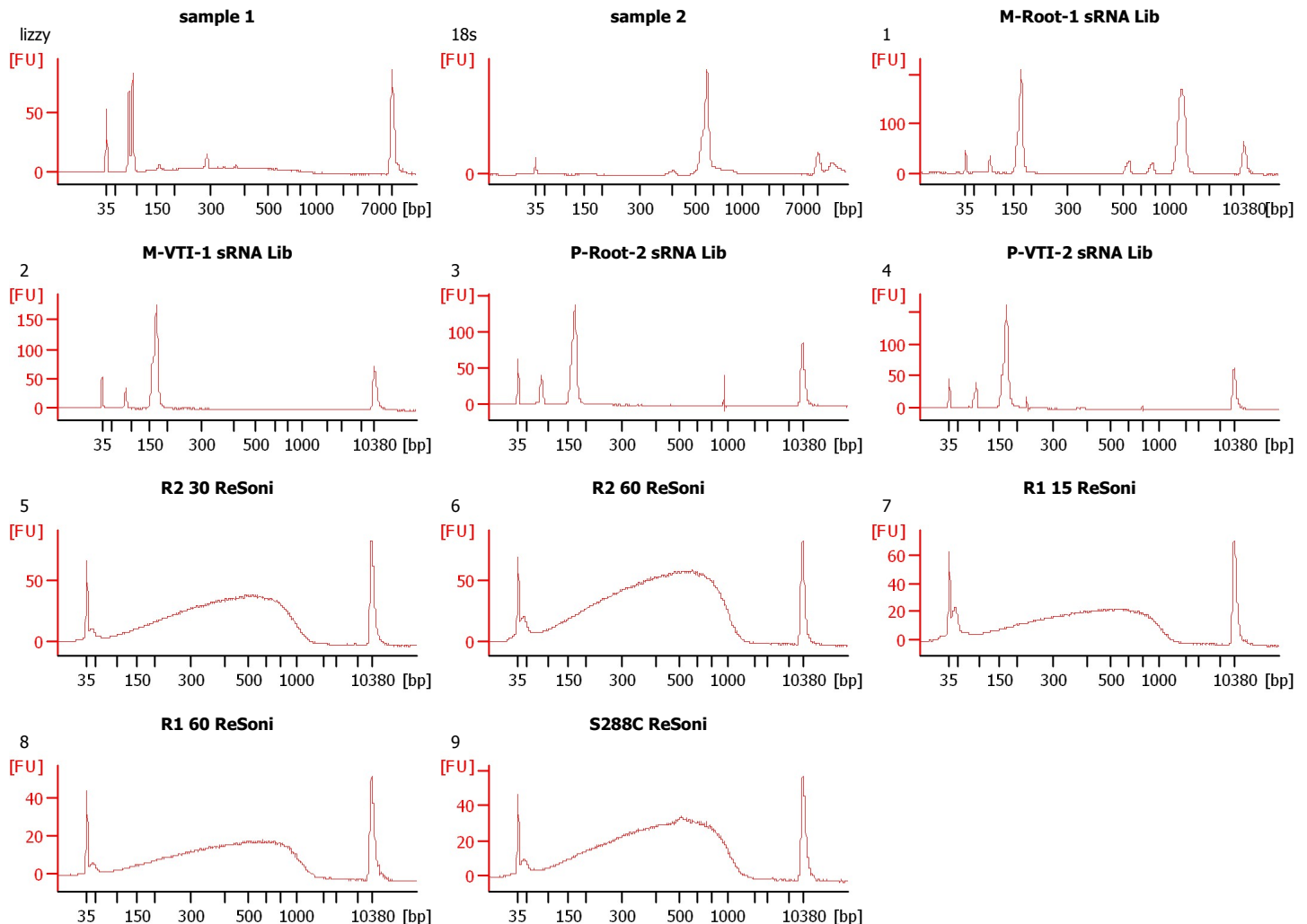
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
Modified: 2/4/2013 11:07:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	lizzy	<input type="checkbox"/>	✓			
sample 2	18s	<input type="checkbox"/>	✓			
M-Root-1 sRNA Lib	1	<input type="checkbox"/>	✓			
M-VTI-1 sRNA Lib	2	<input type="checkbox"/>	✓			
P-Root-2 sRNA Lib	3	<input type="checkbox"/>	✓			
P-VTI-2 sRNA Lib	4	<input type="checkbox"/>	✓			
R2 30 ReSoni	5	<input type="checkbox"/>	✓			
R2 60 ReSoni	6	<input type="checkbox"/>	✓			
R1 15 ReSoni	7	<input type="checkbox"/>	✓			
R1 60 ReSoni	8	<input type="checkbox"/>	✓			
S288C ReSoni	9	<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\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
Modified: 2/4/2013 11:07:15 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

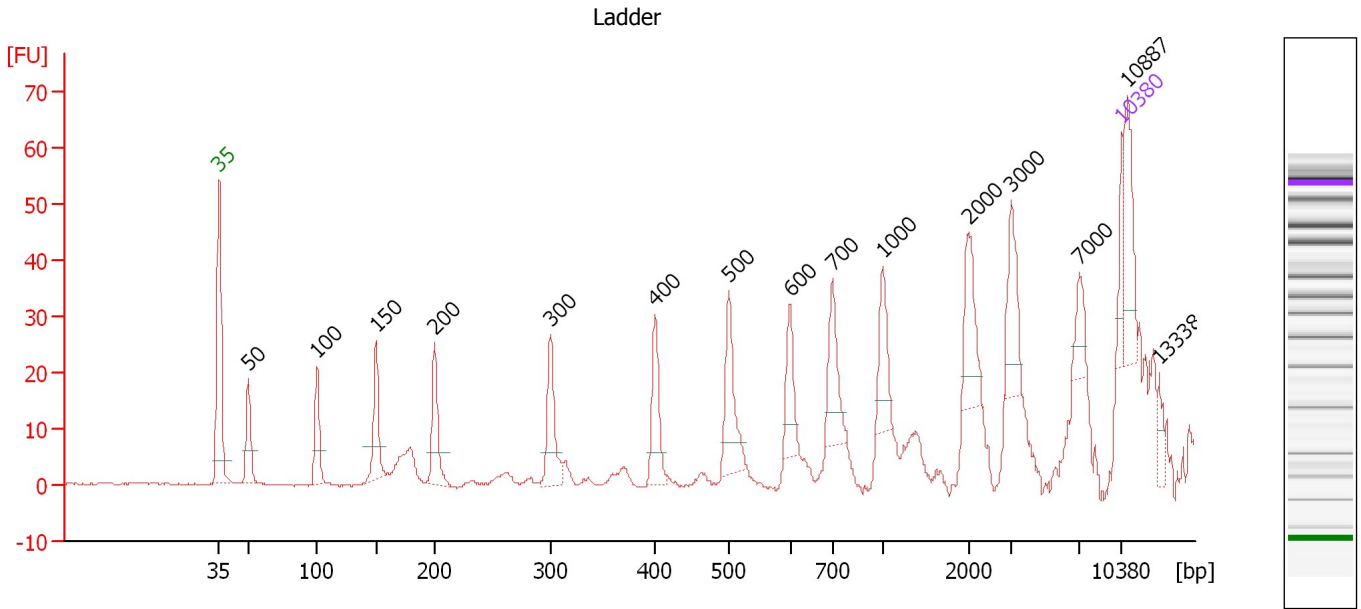
Ladder

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:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

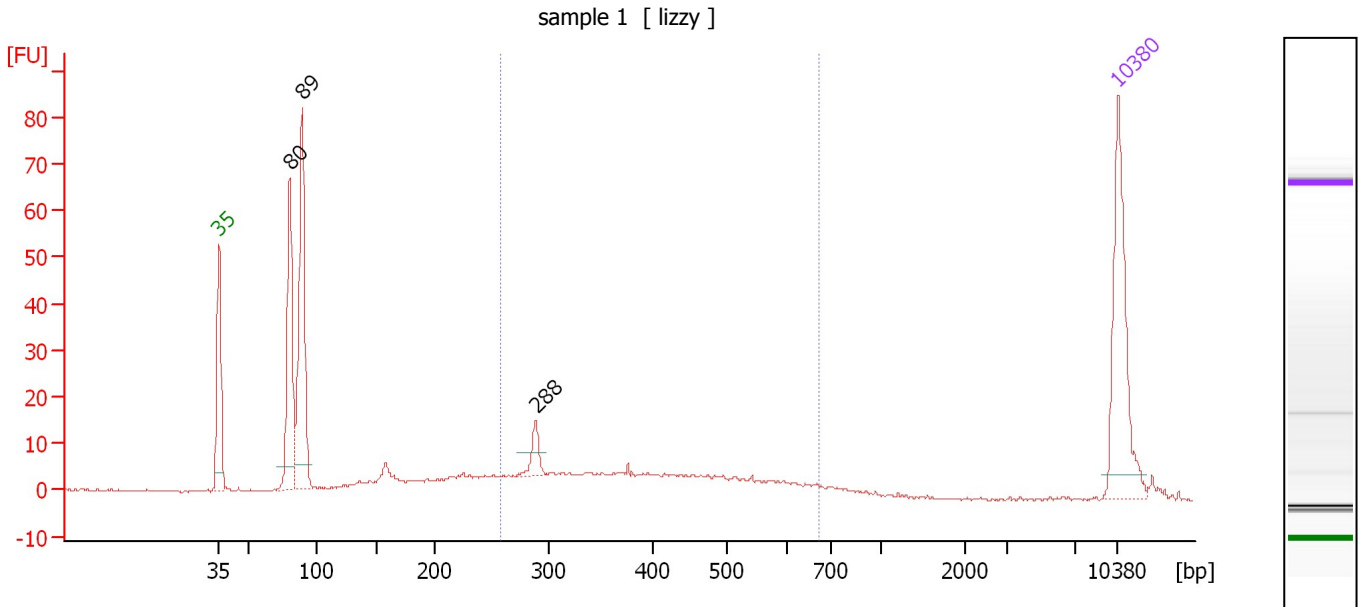
Peak table for Ladder

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
16	10,887	0.00	0.0	
17	13,338	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 3 Corr. Area 1: 144.5
 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	80	126.73	2,386.8	
3	89	169.12	2,866.4	
4	288	17.16	90.2	
5	10,380	75.00	10.9	Upper Marker

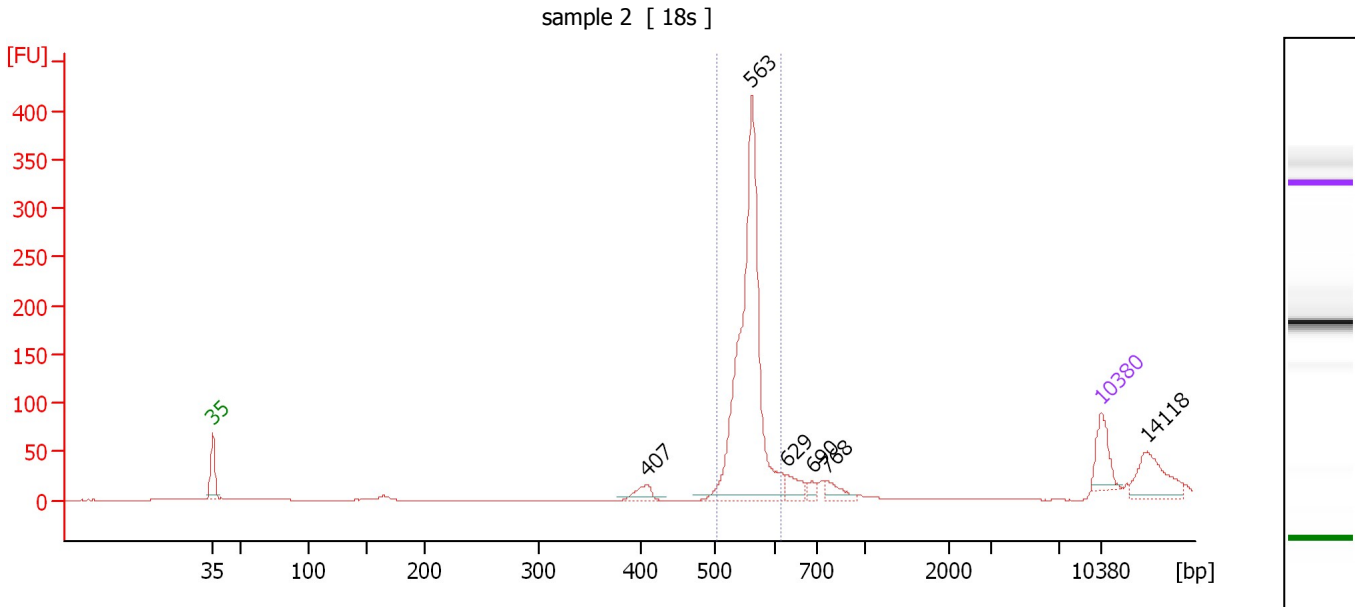
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
257	674	404	765.5	184.43	144.5	36	26.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 6 Corr. Area 1: 764.4
 Noise: 0.2

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	407	44.73	166.5	
3	563	1,006.47	2,710.5	
4	629	52.77	127.1	
5	690	21.01	46.1	
6	768	40.46	79.8	
7	10,380	75.00	10.9	Upper Marker
8	14,118	0.00	0.0	

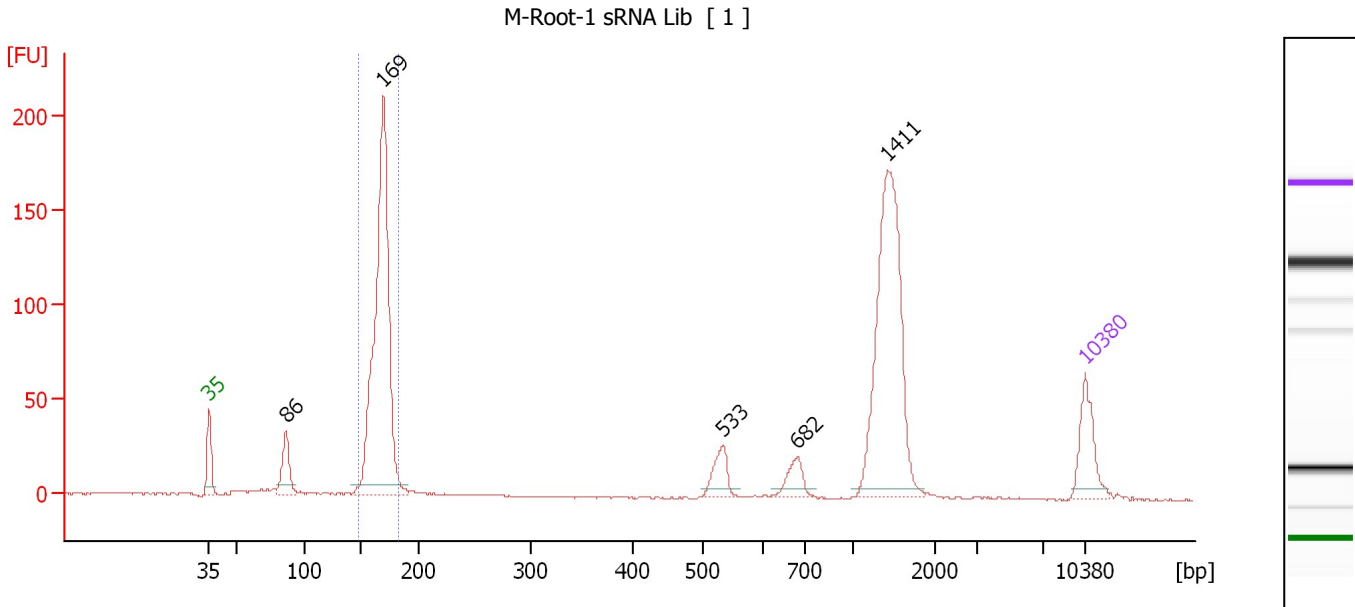
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
505	614	557	2,514.2	924.57	764.4	84	3.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M-Root-1 sRNA Lib

Number of peaks found: 5 Corr. Area 1: 496.6
 Noise: 0.4

Peak table for sample 3 : M-Root-1 sRNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	101.58	1,785.6	
3	169	937.78	8,404.1	
4	533	59.79	169.8	
5	682	48.44	107.6	
6	1,411	470.39	505.2	
7	10,380	75.00	10.9	Upper Marker

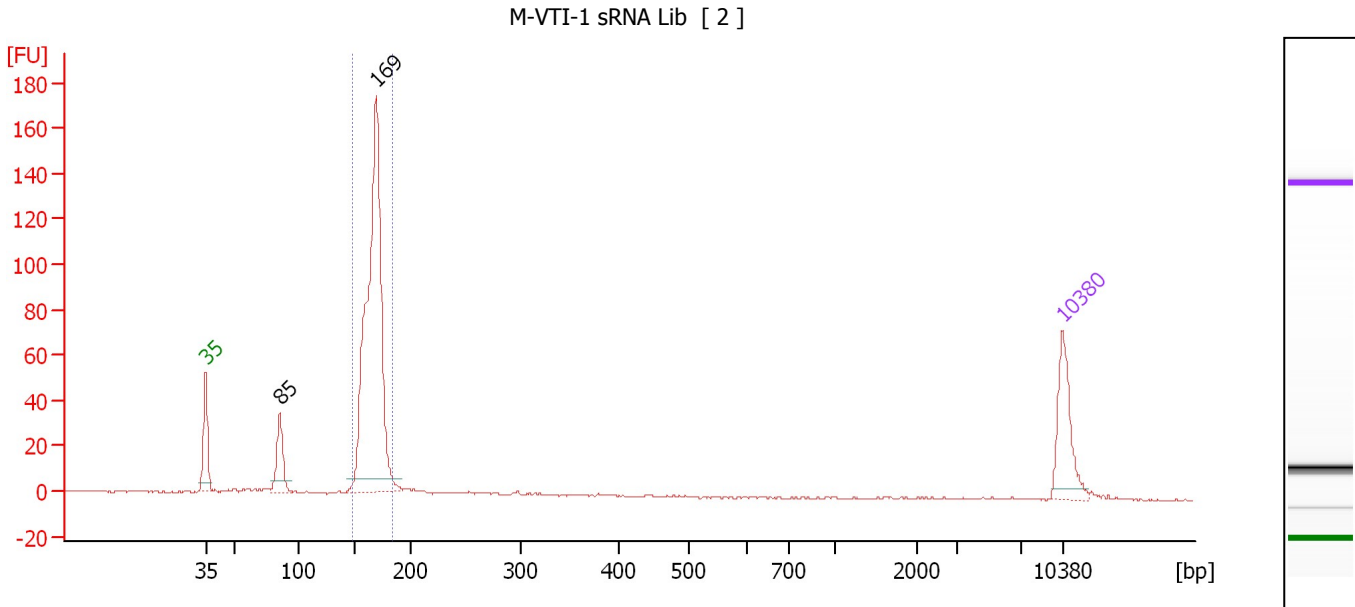
Region table for sample 3 : M-Root-1 sRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	183	167	8,482.2	934.78	496.6	44	3.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : M-VTI-1 sRNA Lib

Number of peaks found: 2 Corr. Area 1: 435.3
 Noise: 0.4

Peak table for sample 4 : M-VTI-1 sRNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	87.16	1,545.6	
3	169	742.12	6,647.5	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : M-VTI-1 sRNA Lib

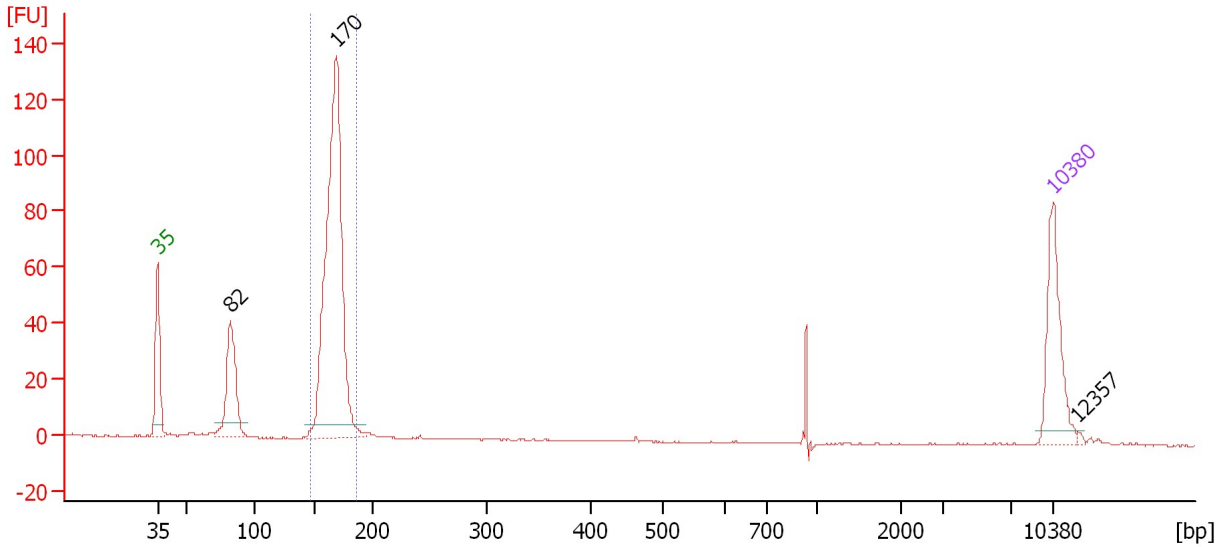
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	183	166	6,879.9	754.30	435.3	80	4.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...

P-Root-2 sRNA Lib [3]



Overall Results for sample 5 : P-Root-2 sRNA Lib

Number of peaks found: 3 Corr. Area 1: 355.2
 Noise: 0.2

Peak table for sample 5 : P-Root-2 sRNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	126.84	2,347.9	
3	170	532.16	4,753.4	
4	10,380	75.00	10.9	Upper Marker
5	12,357	0.00	0.0	

Region table for sample 5 : P-Root-2 sRNA Lib

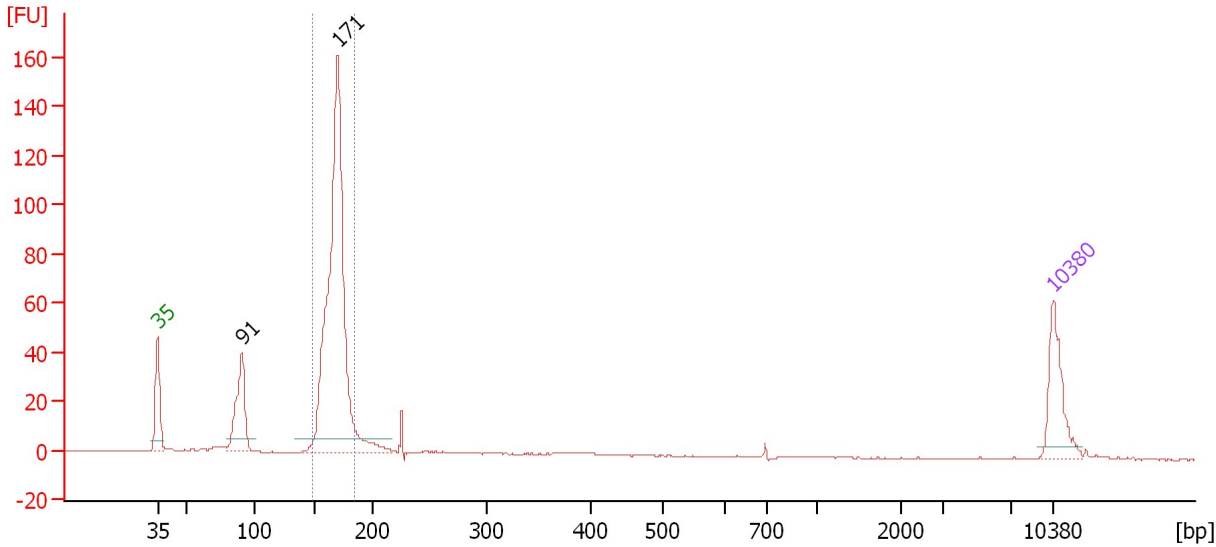
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	188	167	4,782.9	527.52	355.2	78	4.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...

P-VTI-2 sRNA Lib [4]



Overall Results for sample 6 : P-VTI-2 sRNA Lib

Number of peaks found: 2 Corr. Area 1: 383.7
 Noise: 0.2

Peak table for sample 6 : P-VTI-2 sRNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	91	149.57	2,502.4	
3	171	820.18	7,276.0	
4	10,380	75.00	10.9	Upper Marker

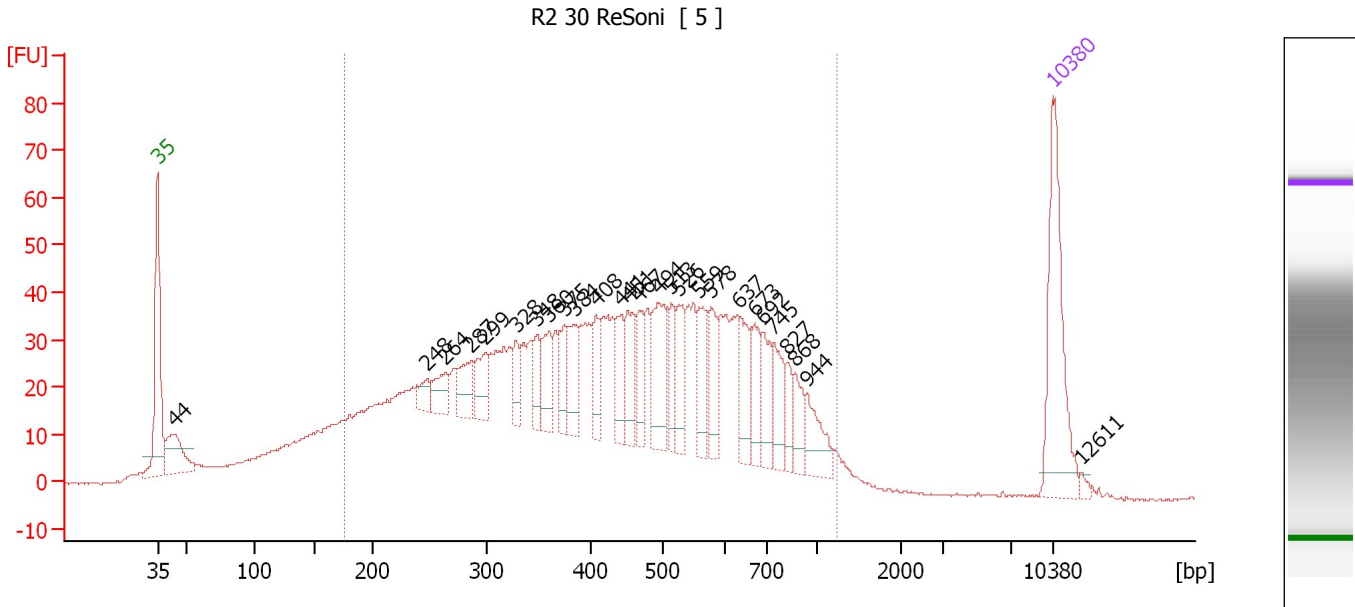
Region table for sample 6 : P-VTI-2 sRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
150	185	168	7,053.5	783.90	383.7	75	4.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : R2 30 ReSoni

Number of peaks found: 27 Corr. Area 1: 1,524.3
 Noise: 0.2

Peak table for sample 7 : R2 30 ReSoni


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	51.87	1,793.4	
3	248	14.00	85.6	
4	264	22.11	127.1	
5	287	28.38	150.1	
6	299	28.36	143.8	
7	328	17.70	81.6	
8	348	19.01	82.7	
9	360	28.22	118.6	
10	375	22.10	89.4	
11	384	30.73	121.2	
12	408	23.72	88.1	
13	441	27.71	95.1	
14	451	33.76	113.3	
15	467	25.18	81.7	
16	494	54.51	167.3	
17	513	24.21	71.5	
18	526	31.29	90.1	
19	559	33.61	91.1	
20	578	29.02	76.1	
21	637	31.79	75.7	
22	673	27.96	63.0	
23	692	26.17	57.3	
24	745	28.15	57.3	
25	827	14.28	26.2	
26	868	19.21	33.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : R2 30 ReSoni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	944	25.59	41.1	
28	 10,380	75.00	10.9	Upper Marker
29	12,611	0.00	0.0	

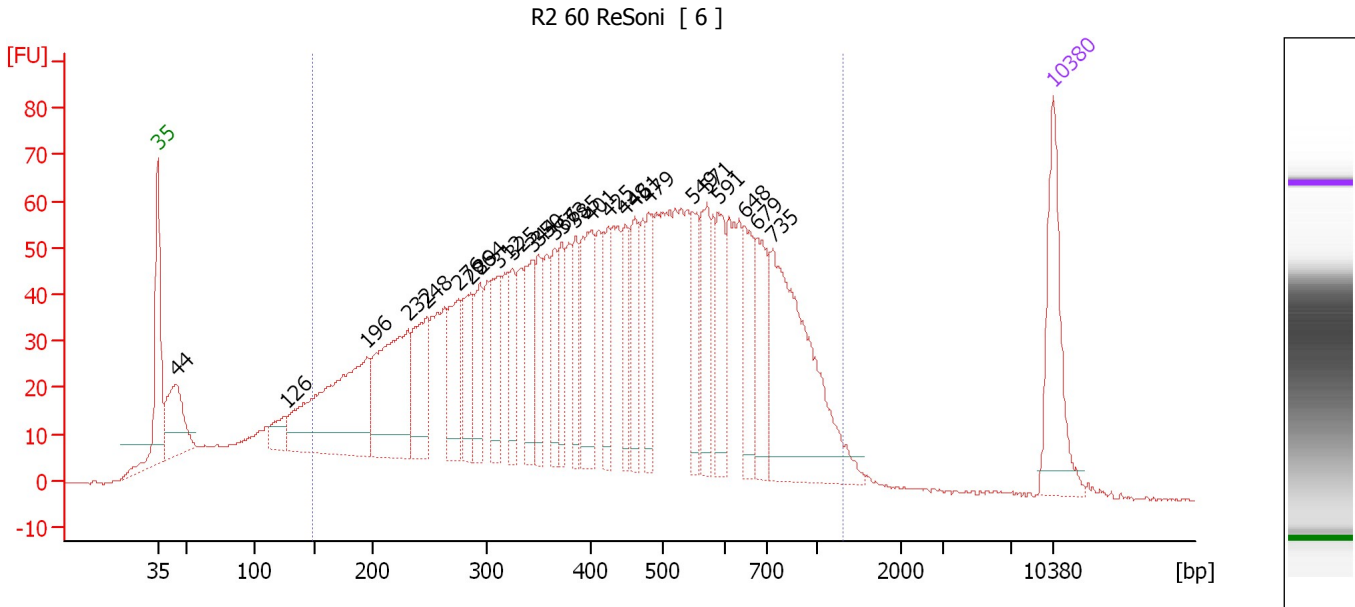
Region table for sample 7 : R2 30 ReSoni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
176	1,238	466	7,417.1	1,772.31	1,524.3	86	42.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : R2 60 ReSoni

Number of peaks found: 26 Corr. Area 1: 2,497.6
 Noise: 0.2

Peak table for sample 8 : R2 60 ReSoni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	93.03	3,174.7	
3	126	28.09	337.0	
4	196	229.26	1,771.7	
5	232	169.36	1,107.3	
6	248	86.54	528.5	
7	276	72.94	400.6	
8	286	59.24	314.0	
9	294	57.48	296.0	
10	312	62.20	302.3	
11	325	46.30	215.9	
12	344	62.77	276.7	
13	350	46.90	203.2	
14	366	43.44	179.7	
15	373	43.80	178.0	
16	385	43.87	172.5	
17	401	90.68	342.5	
18	425	47.29	168.8	
19	448	43.80	148.1	
20	461	57.90	190.2	
21	479	45.17	142.8	
22	549	51.55	142.3	
23	571	59.97	159.0	
24	591	56.78	145.5	
25	648	53.60	125.4	
26	679	64.81	144.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...**... Peak table for sample 8 : R2 60 ReSoni**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	735	219.13	451.5	
28	▶ 10,380	75.00	10.9	Upper Marker

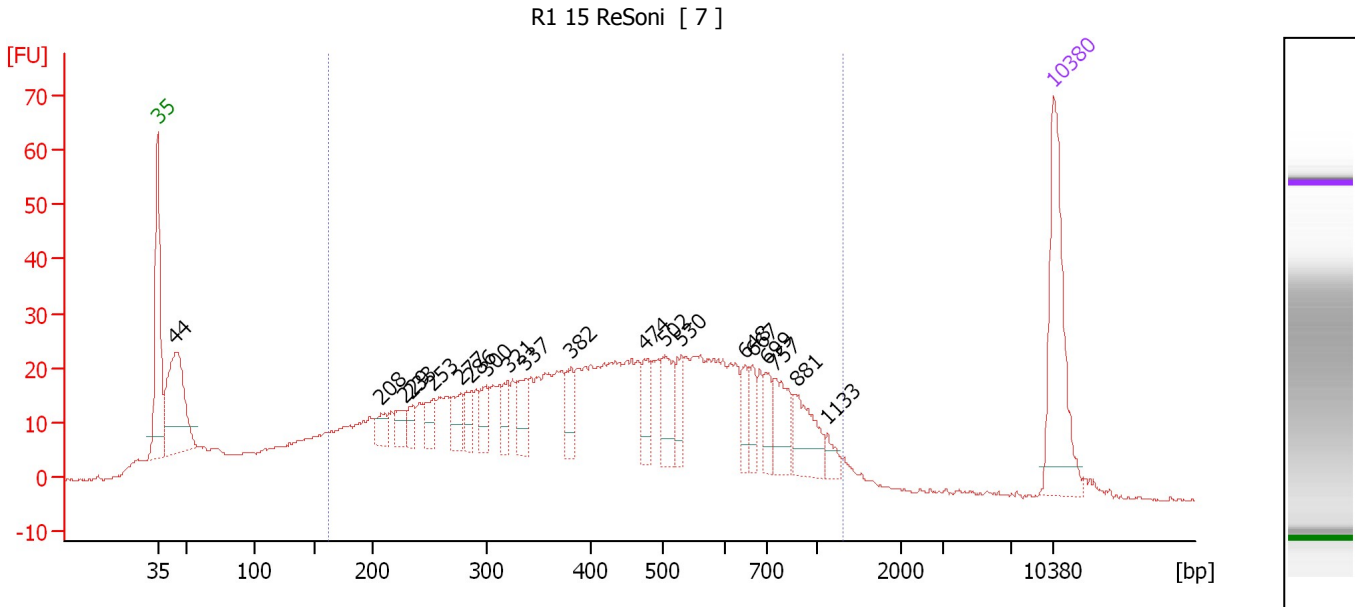
Region table for sample 8 : R2 60 ReSoni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
148	1,321	463	13,057.8	2,940.99	2,497.6	88	45.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : R1 15 ReSoni

Number of peaks found: 20 Corr. Area 1: 988.4
 Noise: 0.2

Peak table for sample 9 : R1 15 ReSoni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	130.82	4,488.7	
3	208	15.54	113.2	
4	229	13.52	89.7	
5	233	12.48	81.0	
6	253	15.77	94.3	
7	277	22.39	122.3	
8	286	17.30	91.5	
9	300	19.35	97.8	
10	321	17.53	82.8	
11	337	24.22	108.9	
12	382	20.43	81.1	
13	474	23.04	73.6	
14	502	31.37	94.6	
15	530	18.49	52.9	
16	648	14.97	35.0	
17	667	14.78	33.6	
18	699	17.43	37.8	
19	757	31.65	63.4	
20	881	34.99	60.2	
21	1,133	8.47	11.3	
22	10,380	75.00	10.9	Upper Marker

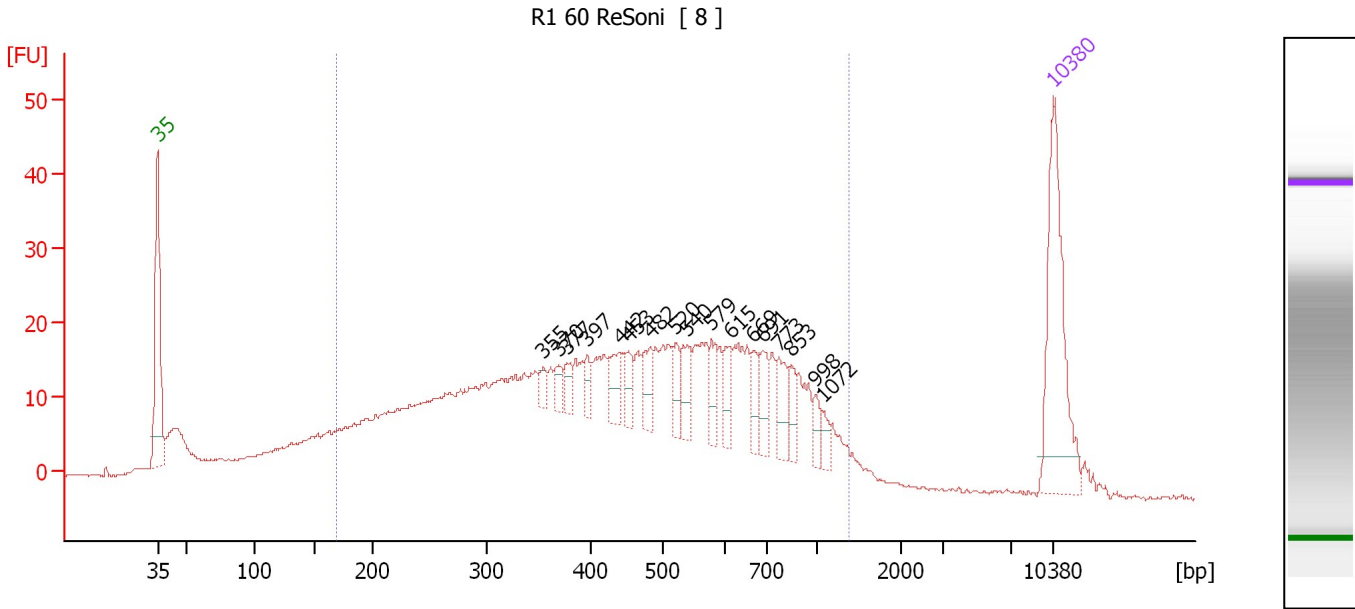
Region table for sample 9 : R1 15 ReSoni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
163	1,327	469	5,644.6	1,304.61	988.4	79	45.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : R1 60 ReSoni

Number of peaks found: 17 Corr. Area 1: 766.5
 Noise: 0.2

Peak table for sample 10 : R1 60 ReSoni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	355	7.39	31.5	
3	370	8.98	36.8	
4	377	9.06	36.4	
5	397	9.54	36.4	
6	442	18.38	63.1	
7	453	12.31	41.2	
8	482	17.84	56.0	
9	520	14.27	41.5	
10	540	19.00	53.3	
11	579	15.35	40.2	
12	615	14.12	34.8	
13	669	13.26	30.0	
14	691	17.57	38.5	
15	773	19.68	38.6	
16	853	11.20	19.9	
17	998	7.94	12.0	
18	1,072	6.59	9.3	
19	10,380	75.00	10.9	Upper Marker

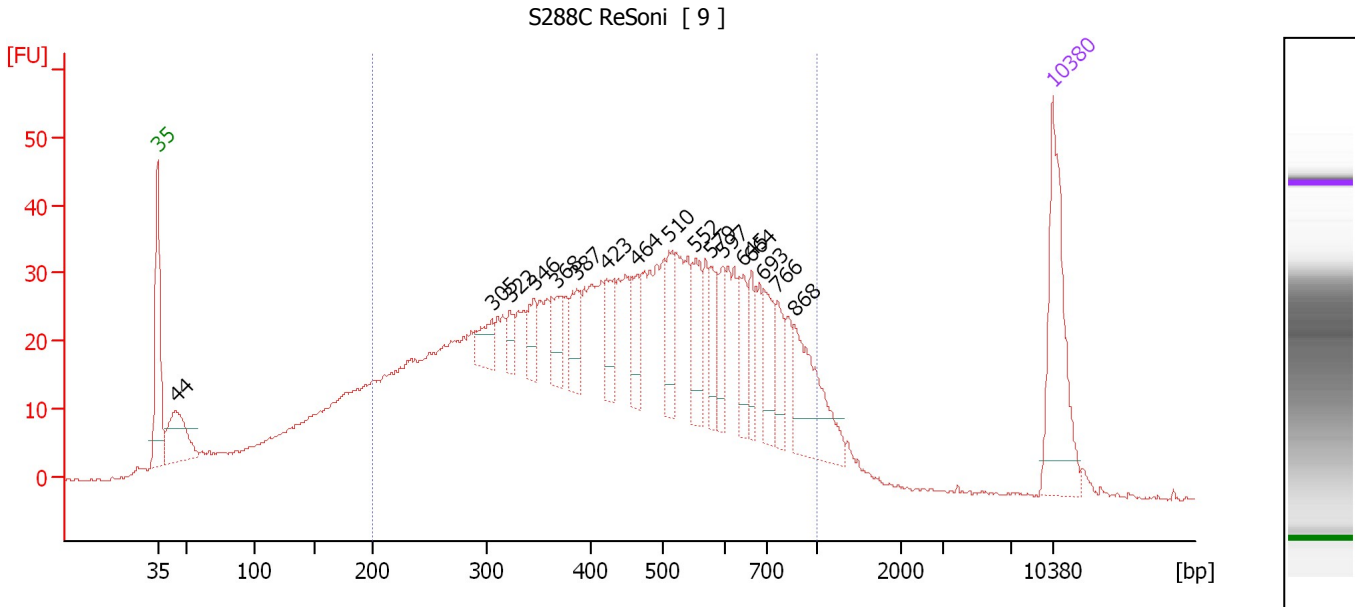
Region table for sample 10 : R1 60 ReSoni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
170	1,398	494	5,124.1	1,239.70	766.5	85	46.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : S288C ReSoni

Number of peaks found: 17 Corr. Area 1: 1,213.9
 Noise: 0.2

Peak table for sample 11 : S288C ReSoni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	65.64	2,247.0	
3	305	23.22	115.3	
4	322	13.18	62.0	
5	346	21.50	94.2	
6	368	26.50	109.0	
7	387	27.00	105.7	
8	423	25.18	90.2	
9	464	26.50	86.5	
10	510	33.64	100.0	
11	552	34.65	95.0	
12	579	24.27	63.5	
13	597	22.24	56.4	
14	645	28.58	67.1	
15	664	21.78	49.7	
16	693	33.13	72.4	
17	766	25.44	50.3	
18	868	64.63	112.9	
19	10,380	75.00	10.9	Upper Marker

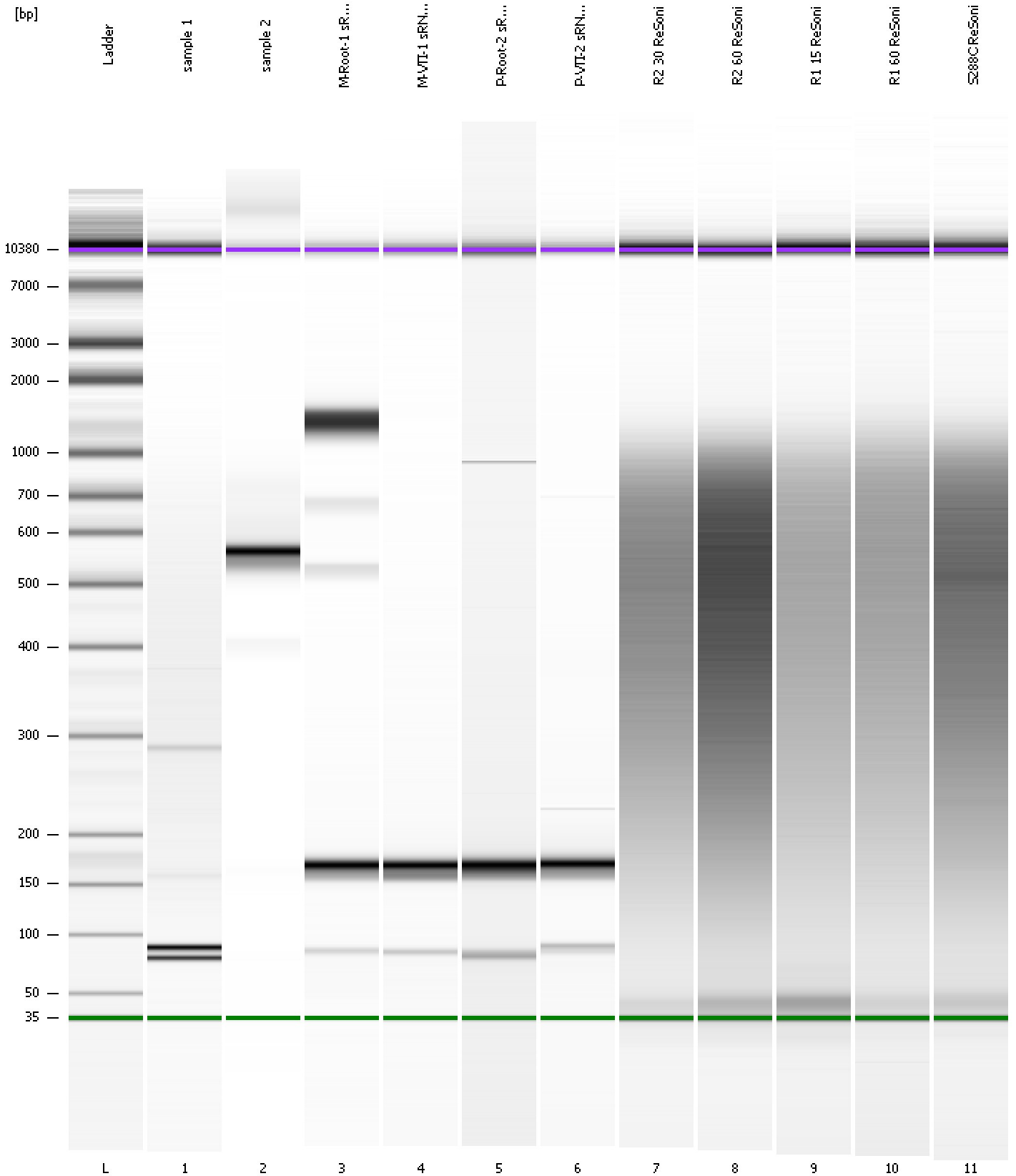
Region table for sample 11 : S288C ReSoni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	469	7,467.7	1,871.64	1,213.9	80	38.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
Modified: 2/4/2013 11:07:15 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad

Created: 2/4/2013 10:13:14 AM
 Modified: 2/4/2013 11:07:15 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		2/4/2013 10:54:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-04\2013-02-04_001.xad)		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/4/2013 10:13:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1