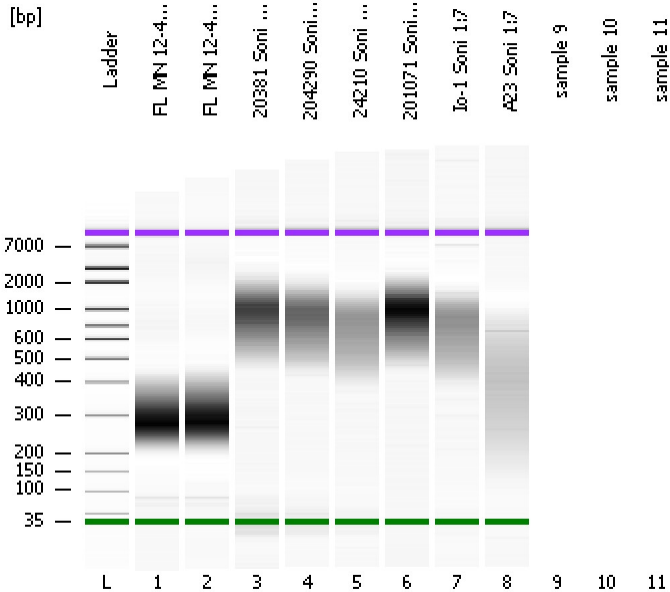


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
Modified: 3/5/2013 11:58:41 AM

Electrophoresis File Run Summary



Instrument Information:

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

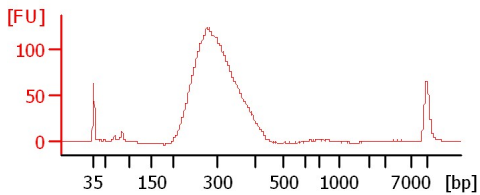
Assay Information:

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

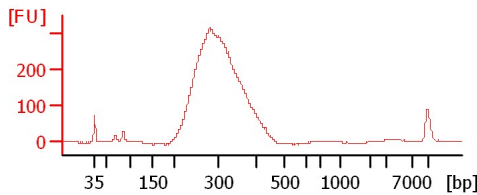
Chip Information:

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

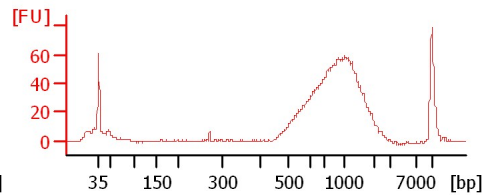
FL MN 12-49 mRNA Lib 1:2



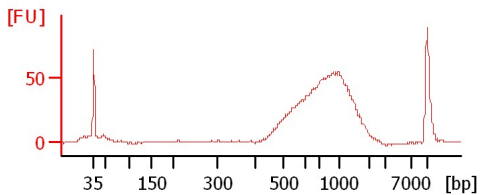
FL MN 12-49 mRNA Lib



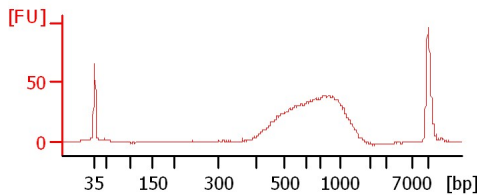
20381 Soni 1:5



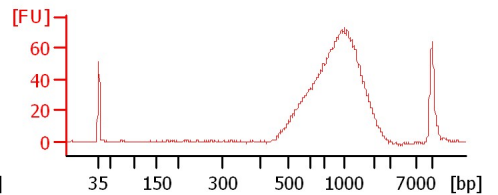
204290 Soni 1:7



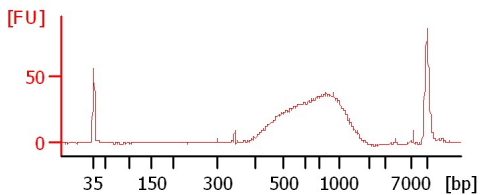
24210 Soni 1:7



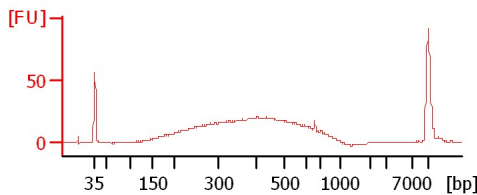
201071 Soni 1:7



Io-1 Soni 1:7



A23 Soni 1:7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
FL MN 12-49 mRNA Lib 1:2		<input type="checkbox"/>	✓			
FL MN 12-49 mRNA Lib		<input type="checkbox"/>	✓			
20381 Soni 1:5		<input type="checkbox"/>	✓			
204290 Soni 1:7		<input type="checkbox"/>	✓			
24210 Soni 1:7		<input type="checkbox"/>	✓			
201071 Soni 1:7		<input type="checkbox"/>	✓			
Io-1 Soni 1:7		<input type="checkbox"/>	✓			
A23 Soni 1:7		<input type="checkbox"/>	✓			
sample 9		<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\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
Modified: 3/5/2013 11:58:41 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

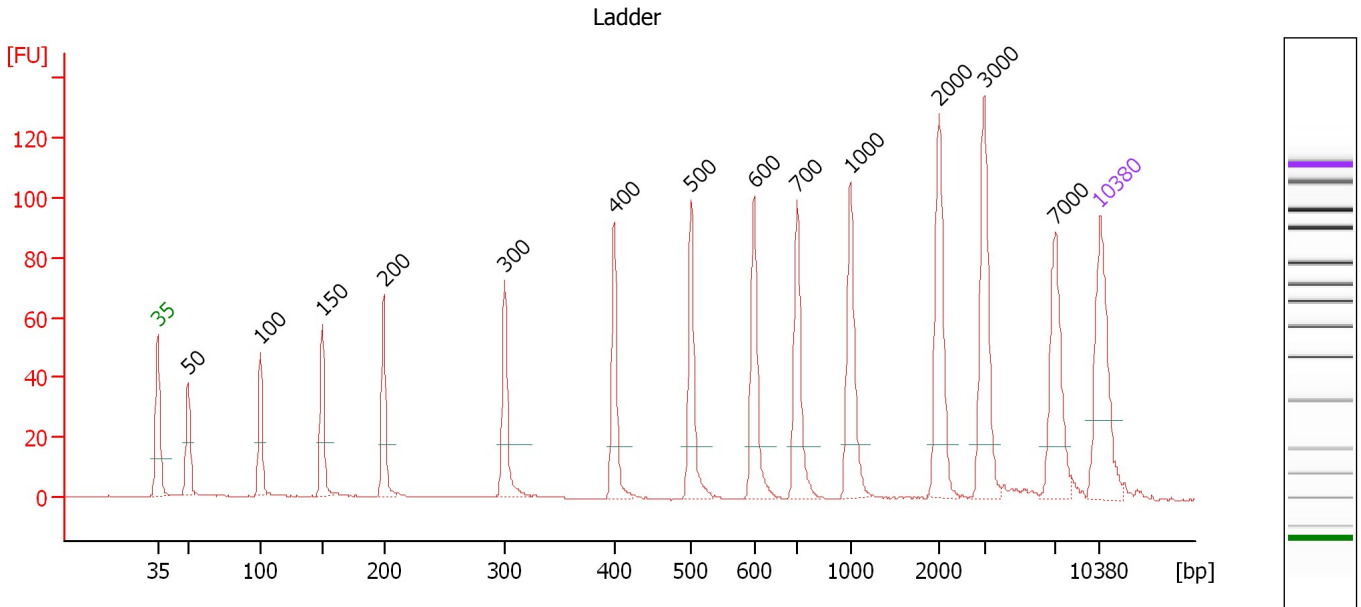
Ladder

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\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

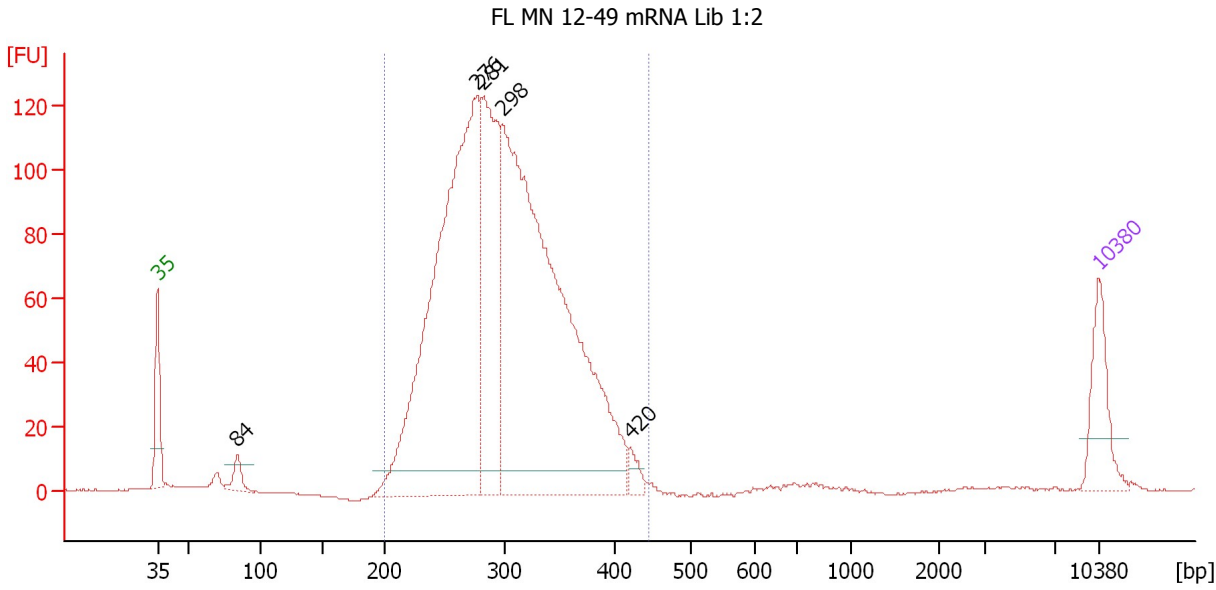
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : FL MN 12-49 mRNA Lib 1:2

Height Threshold [FU] : 8

Overall Results for sample 1 : FL MN 12-49 mRNA Lib 1:2

Number of peaks found: 5 Corr. Area 1: 1,907.9
 Noise: 0.2

Peak table for sample 1 : FL MN 12-49 mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	84	32.81	590.9	
3	276	1,140.52	6,258.1	
4	281	418.31	2,256.2	
5	298	1,360.49	6,925.2	
6	420	22.50	81.1	
7	10,380	75.00	10.9	Upper Marker

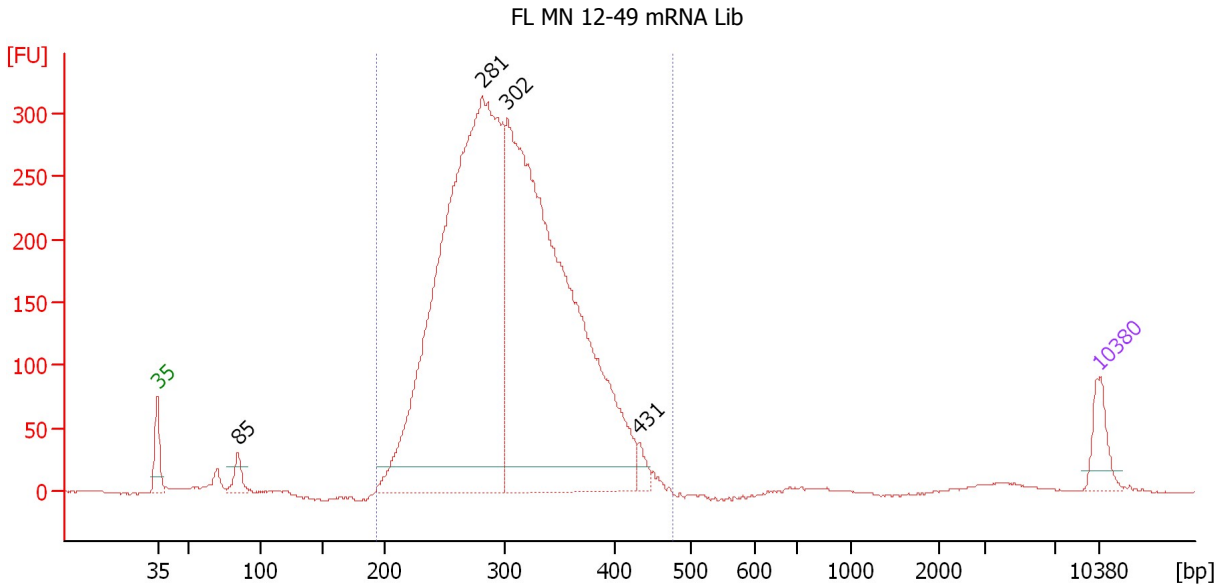
Region table for sample 1 : FL MN 12-49 mRNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	445	300	14,586.5	2,811.21	1,907.9	97	15.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : FL MN 12-49 mRNA Lib

Height Threshold [FU] : 20

Overall Results for sample 2 : FL MN 12-49 mRNA Lib

Number of peaks found: 4 Corr. Area 1: 5,044.5
 Noise: 0.5

Peak table for sample 2 : FL MN 12-49 mRNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	64.63	1,158.8	
3	281	3,073.28	16,548.3	
4	302	2,813.14	14,092.3	
5	431	43.05	151.2	
6	10,380	75.00	10.9	Upper Marker

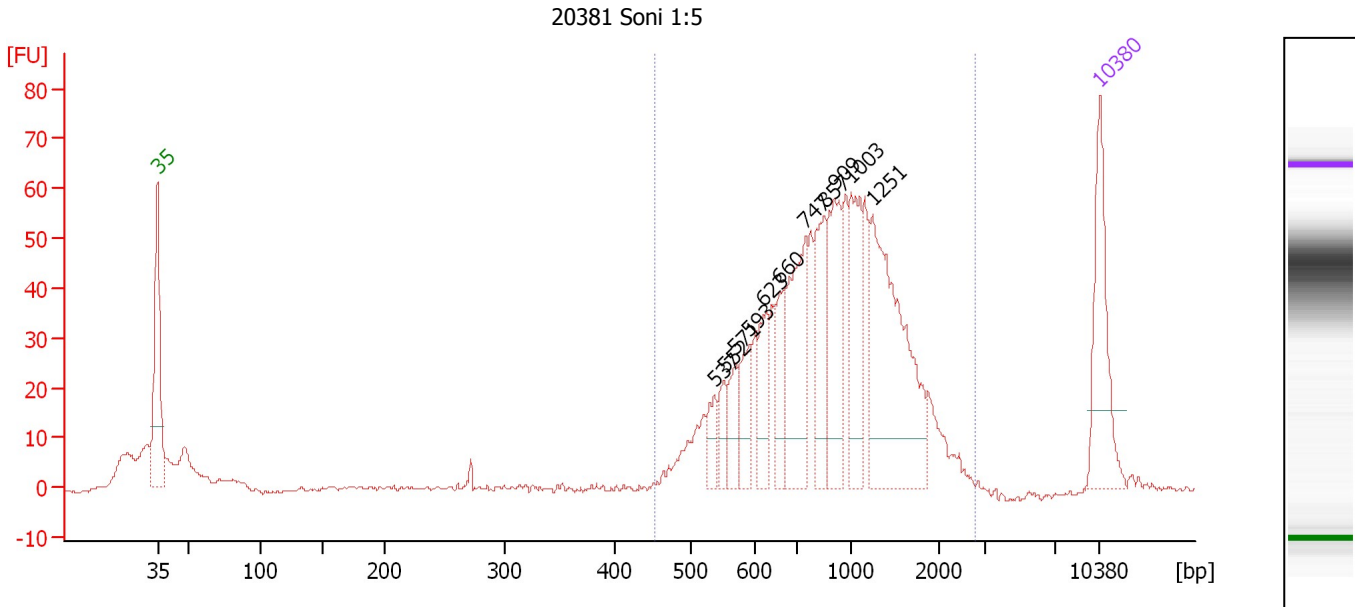
Region table for sample 2 : FL MN 12-49 mRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
194	477	306	29,796.4	5,817.60	5,044.5	97	16.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : 20381 Soni 1:5

Height Threshold [FU] : 10

Overall Results for sample 3 : 20381 Soni 1:5

Number of peaks found: 11 Corr. Area 1: 786.3
 Noise: 0.3

Peak table for sample 3 : 20381 Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	537	23.18	65.4	
3	552	22.64	62.1	
4	571	30.42	80.7	
5	593	39.69	101.3	
6	623	41.64	101.3	
7	660	43.03	98.8	
8	747	105.83	214.8	
9	857	66.85	118.2	
10	909	86.44	144.2	
11	1,003	80.56	121.7	
12	1,251	188.02	227.8	
13	10,380	75.00	10.9	Upper Marker

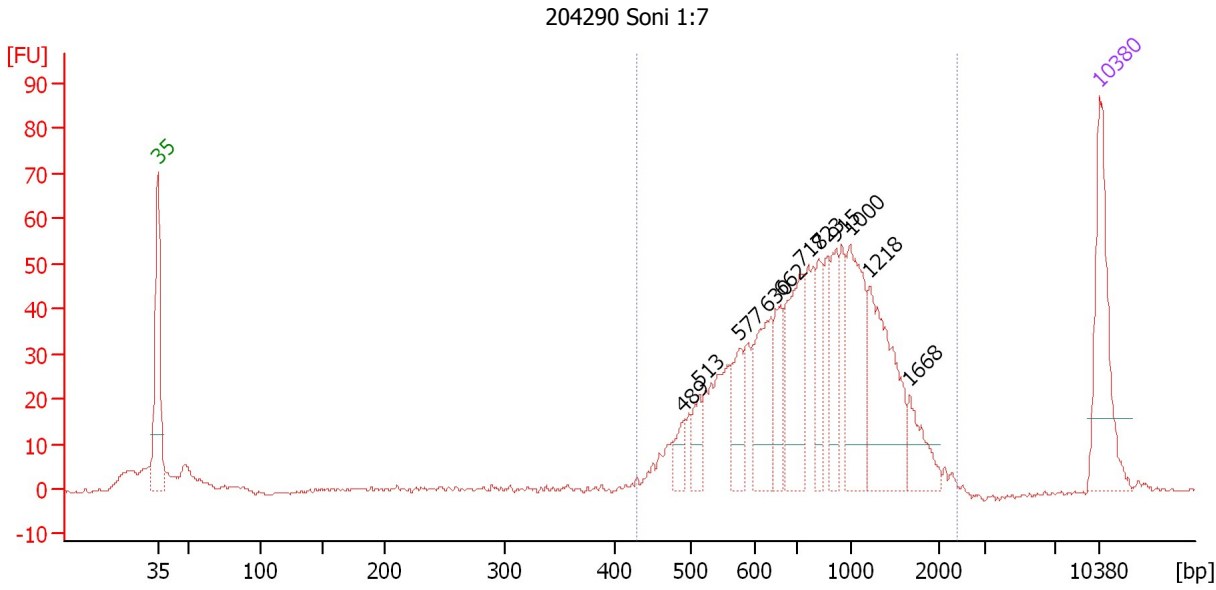
Region table for sample 3 : 20381 Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
452	2,816	994	1,758.1	961.82	786.3	88	41.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : 204290 Soni 1:7

Height Threshold [FU] : 10

Overall Results for sample 4 : 204290 Soni 1:7

Number of peaks found: 11 Corr. Area 1: 752.3
 Noise: 0.3

Peak table for sample 4 : 204290 Soni 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	489	19.78	61.2	
3	513	23.84	70.4	
4	577	39.16	102.8	
5	630	69.19	166.3	
6	662	41.22	94.3	
7	717	88.69	187.3	
8	823	37.10	68.3	
9	915	42.25	70.0	
10	1,000	84.83	128.6	
11	1,218	103.10	128.3	
12	1,668	29.10	26.4	
13	10,380	75.00	10.9	Upper Marker

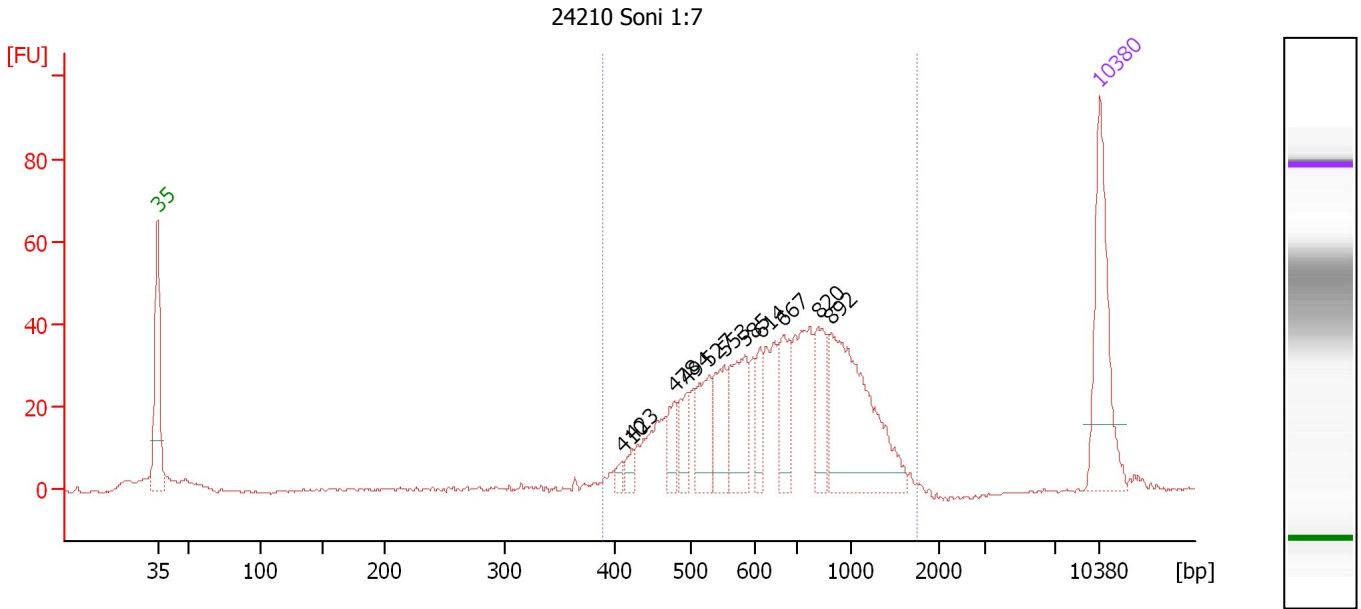
Region table for sample 4 : 204290 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
429	2,380	890	1,634.1	813.66	752.3	93	40.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 24210 Soni 1:7

Number of peaks found: 11 Corr. Area 1: 648.0
 Noise: 0.3

Peak table for sample 5 : 24210 Soni 1:7

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	410	6.85	25.3	
3	423	9.60	34.3	
4	478	24.35	77.2	
5	494	26.98	82.7	
6	527	42.89	123.2	
7	553	43.58	119.4	
8	585	58.73	152.0	
9	614	24.41	60.2	
10	667	43.16	98.0	
11	820	42.58	78.7	
12	892	146.34	248.6	
13	10,380	75.00	10.9	Upper Marker

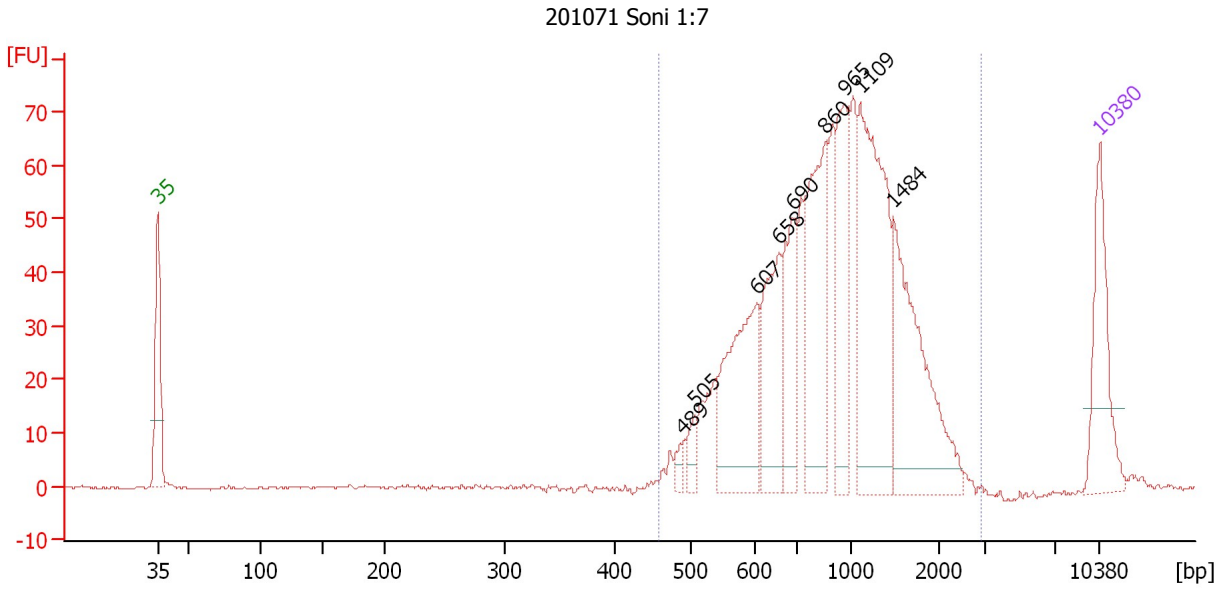
Region table for sample 5 : 24210 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
389	1,740	731	1,543.5	653.81	648.0	93	35.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 201071 Soni 1:7

Number of peaks found: 9 Corr. Area 1: 910.6
 Noise: 0.2

Peak table for sample 6 : 201071 Soni 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	489	11.02	34.1	
3	505	16.91	50.7	
4	607	150.97	376.6	
5	658	108.20	249.3	
6	690	87.81	192.8	
7	860	155.53	274.0	
8	965	105.56	165.8	
9	1,109	222.02	303.2	
10	1,484	166.30	169.8	
11	10,380	75.00	10.9	Upper Marker

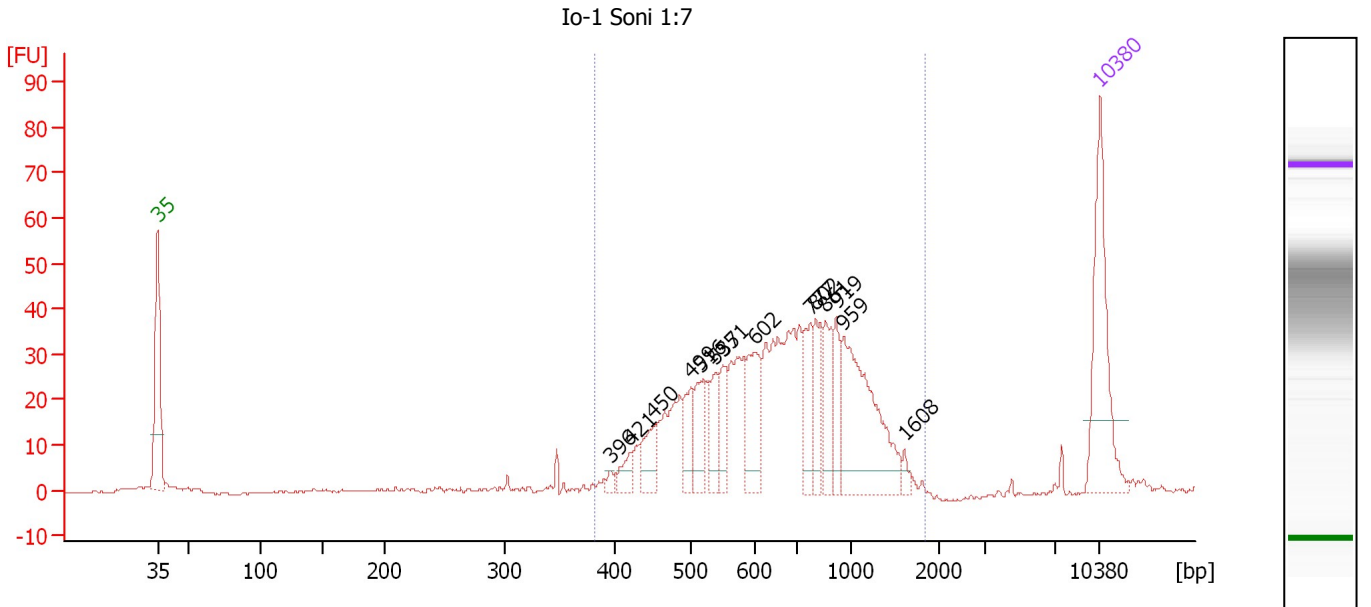
Region table for sample 6 : 201071 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
458	2,930	1,003	2,194.4	1,215.13	910.6	99	41.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Io-1 Soni 1:7

Number of peaks found: 14 Corr. Area 1: 605.4
 Noise: 0.3

Peak table for sample 7 : Io-1 Soni 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	396	5.40	20.7	
3	421	13.65	49.1	
4	450	23.14	77.9	
5	499	23.53	71.4	
6	516	34.02	100.0	
7	537	25.77	72.7	
8	551	24.98	68.7	
9	602	47.61	119.9	
10	777	32.01	62.4	
11	802	32.20	60.8	
12	861	28.43	50.0	
13	919	29.06	47.9	
14	959	113.06	178.6	
15	1,608	4.48	4.2	
16	10,380	75.00	10.9	Upper Marker

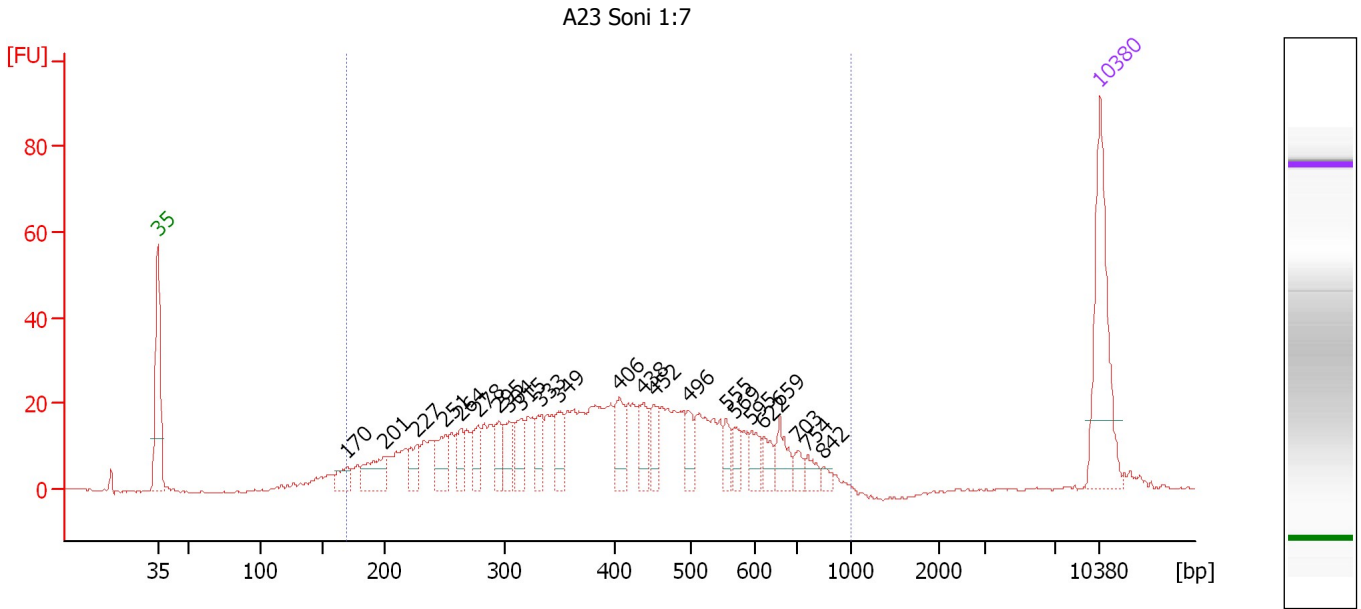
Region table for sample 7 : Io-1 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
382	1,829	739	1,662.4	707.95	605.4	96	36.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : A23 Soni 1:7

Number of peaks found: 23 Corr. Area 1: 674.2
 Noise: 0.2

Peak table for sample 8 : A23 Soni 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	170	16.89	150.9	
3	201	35.00	263.4	
4	227	20.32	135.6	
5	251	29.89	180.4	
6	264	19.32	110.9	
7	278	21.18	115.5	
8	295	20.25	104.0	
9	304	22.99	114.4	
10	315	23.27	111.9	
11	333	22.02	100.2	
12	349	22.10	95.8	
13	406	33.25	124.0	
14	438	25.41	87.8	
15	452	18.97	63.6	
16	496	17.99	55.0	
17	555	13.27	36.2	
18	569	12.09	32.2	
19	595	15.64	39.9	
20	622	14.22	34.6	
21	659	19.15	44.0	
22	703	8.94	19.3	
23	754	10.06	20.2	
24	842	4.64	8.3	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
Modified: 3/5/2013 11:58:41 AM

Electropherogram Summary Continued ...

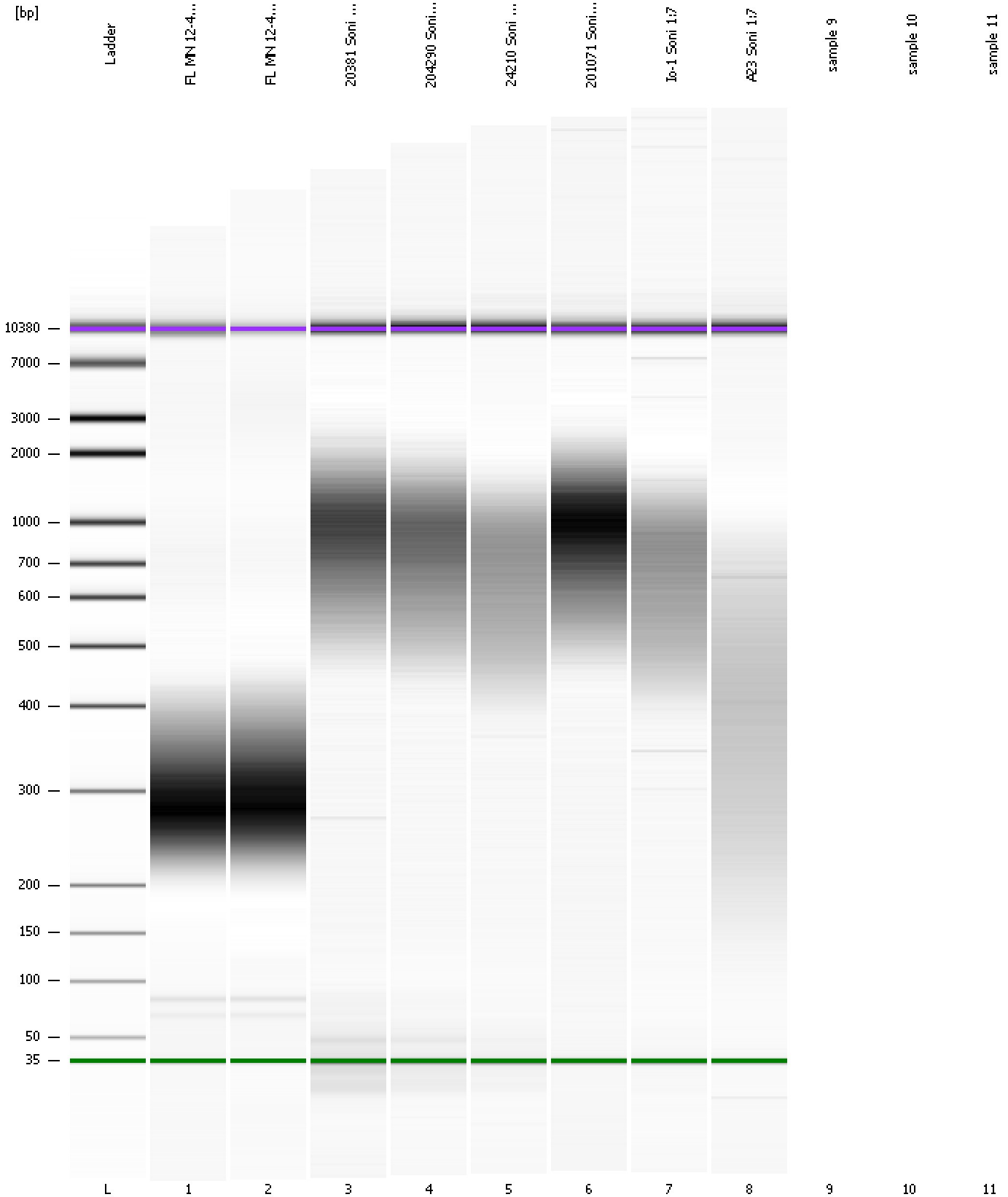
... Region table for sample 8 : A23 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
170	1,000	412	3,831.5	865.37	674.2	96	35.3	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
Modified: 3/5/2013 11:58:41 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
Modified: 3/5/2013 11:58:41 AM

Invalid Samples

Sample 9 has not been run, no results available.

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\2013-03-05\2013-03-05_002.xad

Created: 3/5/2013 11:12:11 AM
 Modified: 3/5/2013 11:58:41 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		3/5/2013 11:44:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-05\2013-03-05_002.xad)		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/5/2013 11:12:16 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1