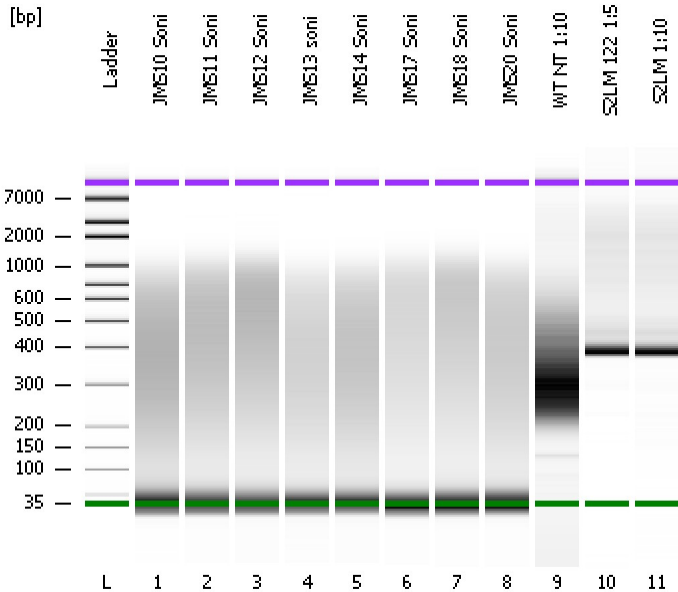


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
Modified: 4/3/2014 5:16:06 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

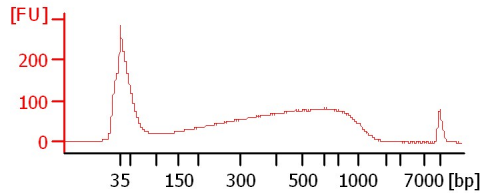
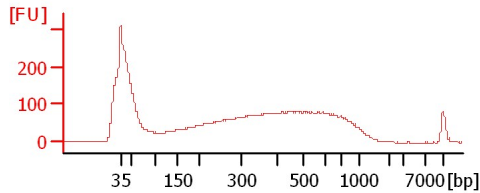
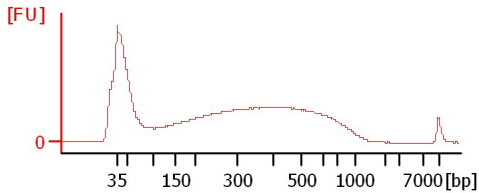
Chip Information:

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

JMS10 Soni

JMS11 Soni

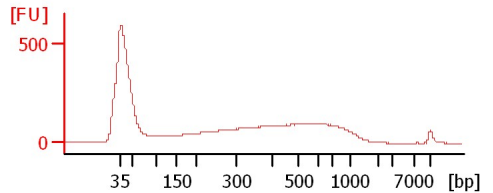
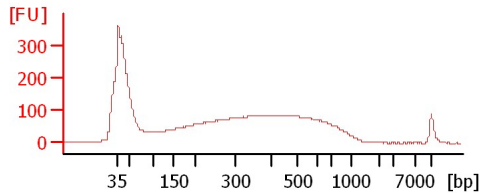
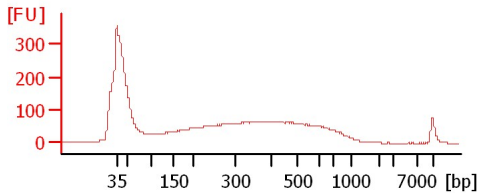
JMS12 Soni



JMS13 soni

JMS14 Soni

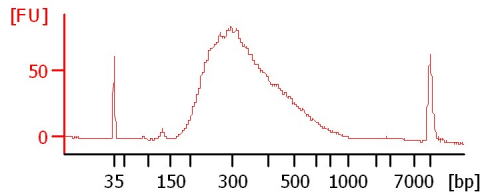
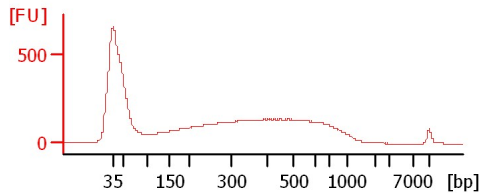
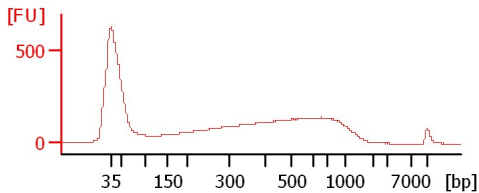
JMS17 Soni



JMS18 Soni

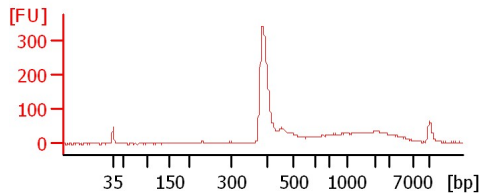
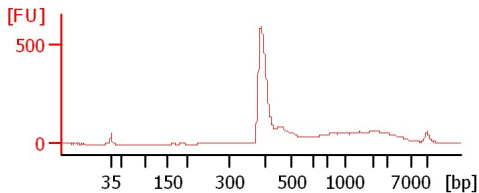
JMS20 Soni

WT NT 1:10



S2LM 122 1:5

S2LM 1:10



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS10 Soni		<input type="checkbox"/>	✓			
JMS11 Soni		<input type="checkbox"/>	✓			
JMS12 Soni		<input type="checkbox"/>	✓			
JMS13 soni		<input type="checkbox"/>	✓			
JMS14 Soni		<input type="checkbox"/>	✓			
JMS17 Soni		<input type="checkbox"/>	✓			
JMS18 Soni		<input type="checkbox"/>	✓			
JMS20 Soni		<input type="checkbox"/>	✓			
WT NT 1:10		<input type="checkbox"/>	✓			
S2LM 122 1:5		<input type="checkbox"/>	✓			
S2LM 1:10		<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\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
Modified: 4/3/2014 5:16:06 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

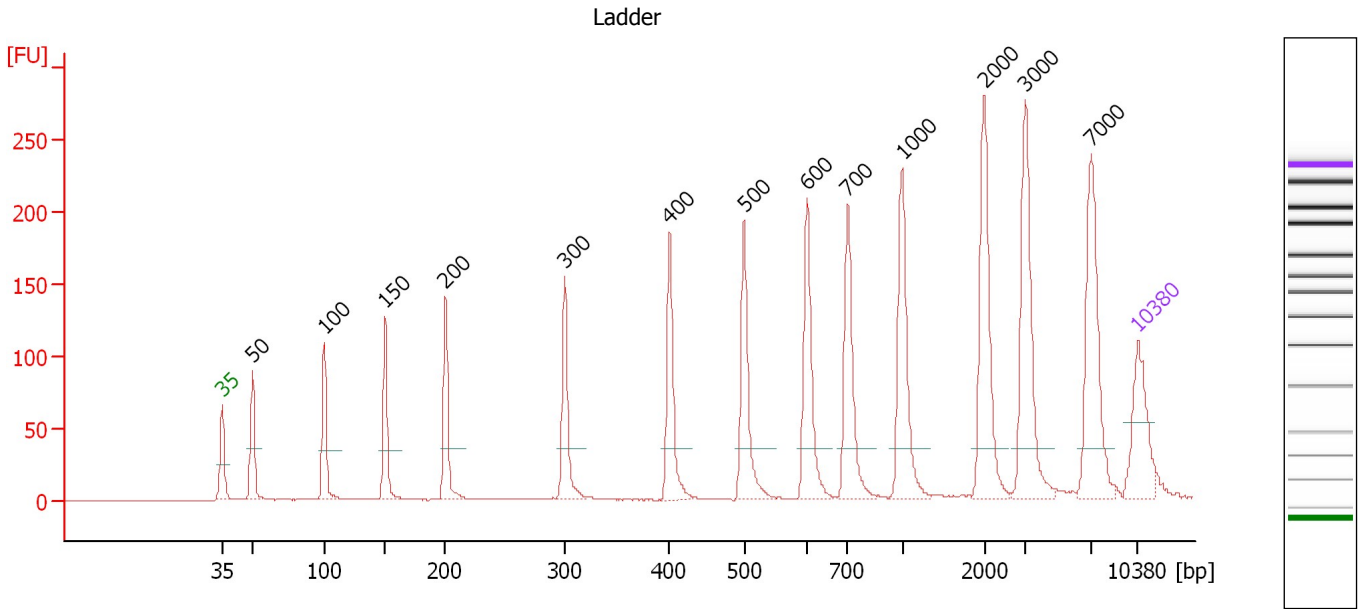
Ladder

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\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

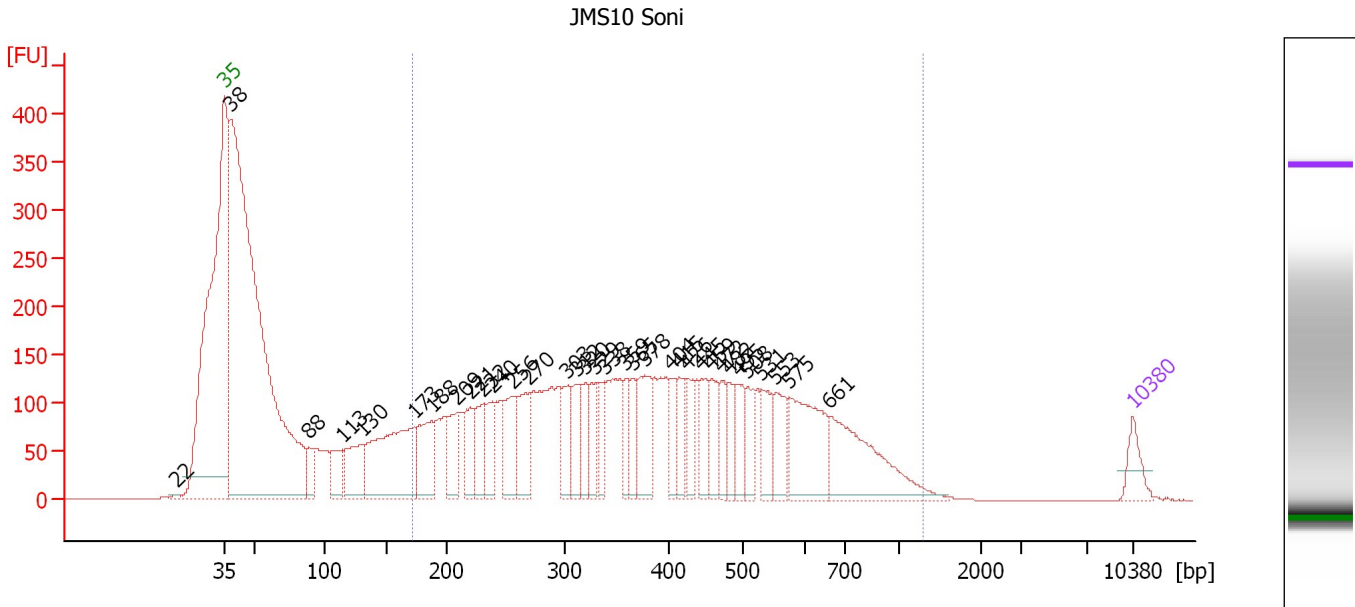
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.32	50	150.00	4,545.5	Ladder Peak
3	50.79	100	150.00	2,272.7	Ladder Peak
4	55.48	150	150.00	1,515.2	Ladder Peak
5	60.08	200	150.00	1,136.4	Ladder Peak
6	69.21	300	150.00	757.6	Ladder Peak
7	77.21	400	150.00	568.2	Ladder Peak
8	82.91	500	150.00	454.5	Ladder Peak
9	87.72	600	150.00	378.8	Ladder Peak
10	90.82	700	150.00	324.7	Ladder Peak
11	94.98	1,000	150.00	227.3	Ladder Peak
12	101.26	2,000	150.00	113.6	Ladder Peak
13	104.40	3,000	150.00	75.8	Ladder Peak
14	109.45	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS10 Soni

Number of peaks found: 34 Corr. Area 1: 5,628.2
 Noise: 0.3

Peak table for sample 1 : JMS10 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	39.26	22	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.49	38	5,018.47	199,144.5	
4	49.49	88	109.60	1,884.2	
5	52.04	113	179.44	2,398.9	
6	53.60	130	289.76	3,377.5	
7	57.62	173	776.14	6,784.7	
8	58.98	188	298.52	2,405.3	
9	60.91	209	218.57	1,584.0	
10	61.98	221	195.85	1,344.1	
11	62.96	232	197.62	1,293.0	
12	63.70	240	180.04	1,138.2	
13	65.22	256	250.92	1,483.3	
14	66.50	270	261.48	1,466.0	
15	69.46	303	188.73	943.7	
16	70.15	312	187.76	912.5	
17	70.81	320	146.44	693.4	
18	71.55	329	143.82	661.9	
19	72.25	338	123.60	554.1	
20	73.89	359	120.36	508.6	
21	74.43	365	127.93	530.7	
22	75.41	378	252.21	1,012.1	
23	77.42	404	118.58	444.9	
24	78.08	415	134.18	489.5	
25	78.70	426	131.89	468.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

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 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : JMS10 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	79.77	445	146.29	498.2	
27	80.55	459	159.09	525.7	
28	81.33	472	108.45	348.0	
29	81.86	482	106.56	335.2	
30	82.60	495	148.24	454.2	
31	83.30	508	120.62	359.7	
32	84.41	531	153.32	437.4	
33	85.48	553	174.32	477.4	
34	86.54	575	408.83	1,076.4	
35	89.63	661	488.58	1,119.3	
36	113.00	10,380	75.00	10.9	Upper Marker

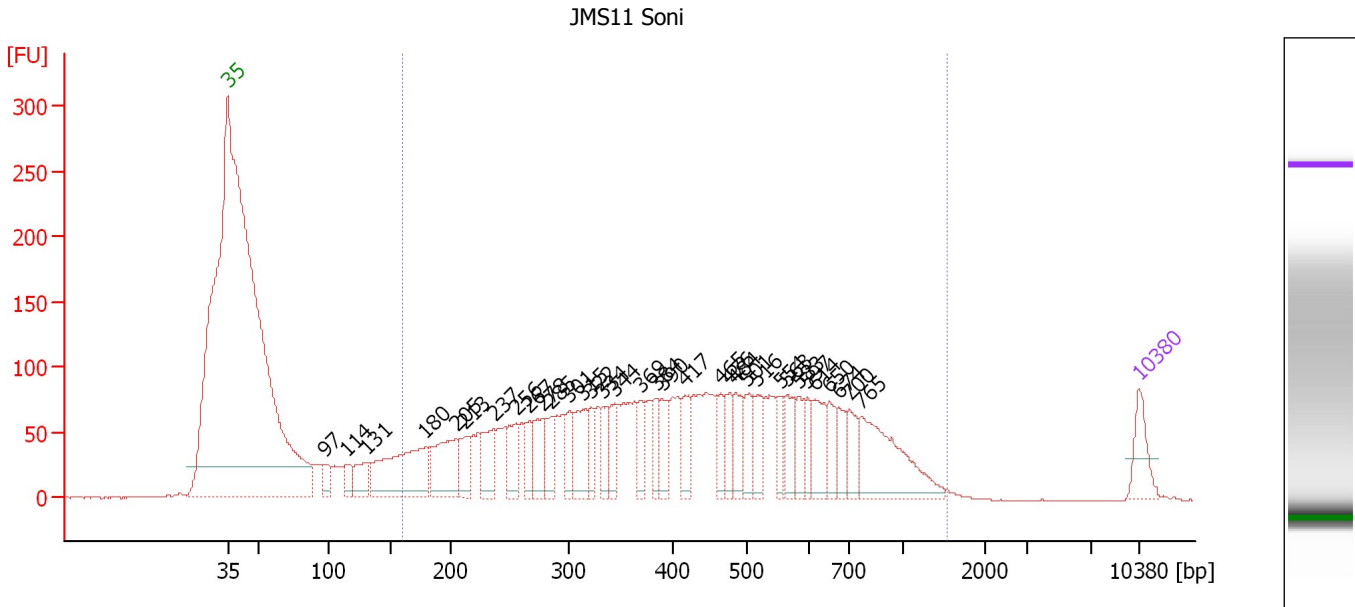
Region table for sample 1 : JMS10 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
171	1,304	418	33,486.0	7,204.61	5,628.2	61	43.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS11 Soni

Number of peaks found: 34 Corr. Area 1: 3,575.1
 Noise: 0.3

Peak table for sample 2 : JMS11 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	50.46	97	62.59	977.7	
3	52.10	114	59.26	787.7	
4	53.70	131	106.73	1,234.2	
5	58.20	180	431.45	3,639.3	
6	60.58	205	257.99	1,902.4	
7	61.24	213	106.23	756.9	
8	63.49	237	136.14	869.1	
9	65.17	256	114.70	679.6	
10	66.20	267	82.85	470.2	
11	67.18	278	133.18	726.6	
12	67.88	285	100.63	534.3	
13	69.27	301	74.12	373.5	
14	70.38	315	158.15	761.8	
15	70.99	322	73.79	347.0	
16	71.89	334	90.04	409.0	
17	72.71	344	78.21	344.7	
18	74.76	369	71.42	292.9	
19	75.95	384	70.34	277.3	
20	76.40	390	95.98	372.9	
21	78.16	417	95.28	346.4	
22	80.91	465	77.71	253.3	
23	81.57	476	82.74	263.1	
24	82.02	484	97.53	305.1	
25	82.96	501	80.40	243.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : JMS11 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	83.70	516	87.76	257.5	
27	85.50	554	59.50	162.8	
28	85.95	563	94.35	253.9	
29	86.89	583	68.89	179.1	
30	87.59	597	58.47	148.3	
31	88.16	614	117.56	290.0	
32	89.27	650	74.91	174.6	
33	90.01	674	67.53	151.9	
34	90.83	700	82.29	178.0	
35	91.73	765	302.36	598.5	
36	113.00	10,380	75.00	10.9	Upper Marker

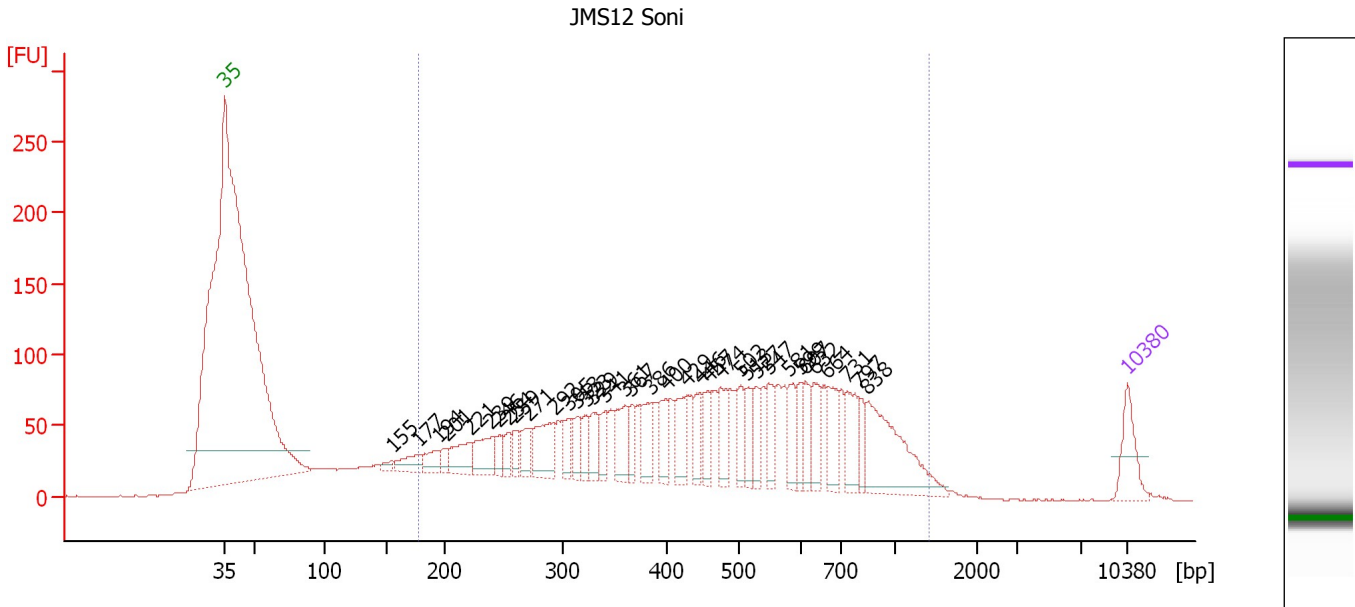
Region table for sample 2 : JMS11 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
161	1,521	459	20,666.6	4,640.40	3,575.1	90	47.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS12 Soni

Number of peaks found: 36 Corr. Area 1: 3,236.0
 Noise: 0.3

Peak table for sample 3 : JMS12 Soni


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	55.94	155	18.99	185.6	
3	58.01	177	63.07	538.4	
4	59.50	194	54.13	423.5	
5	60.16	201	29.28	220.9	
6	62.02	221	94.84	649.6	
7	63.67	239	106.98	677.3	
8	64.25	246	37.25	229.7	
9	65.04	254	47.63	283.8	
10	65.45	259	41.05	240.3	
11	66.57	271	67.88	379.5	
12	68.51	292	144.78	750.5	
13	69.63	305	54.57	271.0	
14	70.29	313	59.79	289.0	
15	71.03	323	52.96	248.6	
16	71.57	329	69.76	320.8	
17	72.52	341	57.93	257.1	
18	74.05	361	107.48	451.7	
19	74.55	367	53.11	219.4	
20	76.08	386	96.74	379.9	
21	77.19	400	78.61	297.9	
22	78.85	429	100.60	355.5	
23	79.84	446	60.92	206.9	
24	80.46	457	66.28	219.7	
25	81.45	474	86.07	274.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad


Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : JMS12 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
26	83.02	502	63.28	190.9	
27	83.52	513	62.29	184.1	
28	84.22	527	57.00	163.8	
29	85.17	547	74.77	207.1	
30	86.79	581	71.71	187.2	
31	87.70	599	54.46	137.7	
32	87.94	607	62.86	156.9	
33	88.73	632	75.37	180.5	
34	89.72	664	93.62	213.5	
35	91.25	731	95.60	198.1	
36	92.16	797	45.38	86.3	
37	92.74	838	275.77	498.4	
38	 113.00	10,380	75.00	10.9	Upper Marker

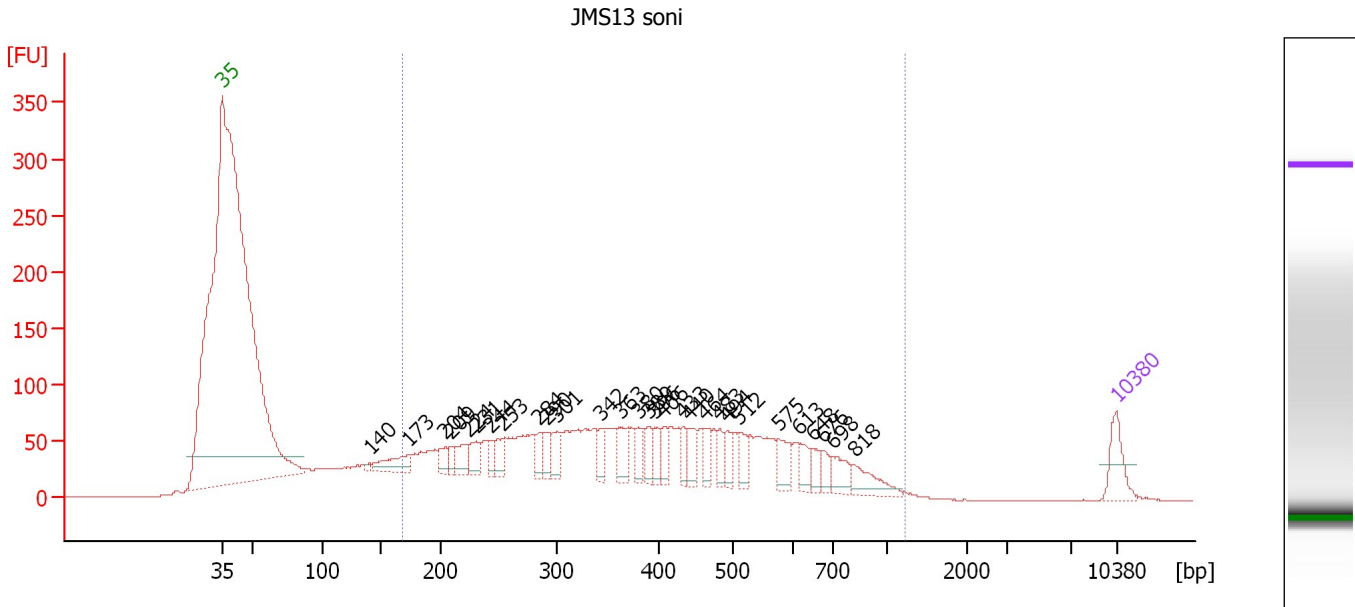
Region table for sample 3 : JMS12 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
177	1,429	496	16,939.2	4,149.64	 3,236.0	88	46.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

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 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS13 soni

Number of peaks found: 29 Corr. Area 1: 2,811.3
 Noise: 0.2

Peak table for sample 4 : JMS13 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	54.56	140	9.99	107.9	
3	57.57	173	98.75	866.3	
4	60.45	204	47.34	351.6	
5	60.91	209	36.38	263.7	
6	62.24	224	72.28	489.7	
7	62.87	231	70.16	461.2	
8	64.08	244	46.94	291.7	
9	64.96	253	65.37	390.9	
10	67.75	284	57.06	304.4	
11	68.34	290	53.16	277.4	
12	69.26	301	76.45	385.4	
13	72.59	342	50.07	221.6	
14	74.26	363	83.81	349.6	
15	75.60	380	55.79	222.5	
16	76.35	389	59.04	229.8	
17	76.85	396	47.30	181.2	
18	77.56	406	50.67	189.0	
19	79.06	433	46.87	164.2	
20	79.48	440	67.07	231.0	
21	80.86	464	52.72	172.2	
22	81.94	483	47.73	149.7	
23	82.57	494	46.73	143.3	
24	83.49	512	60.26	178.3	
25	86.54	575	75.65	199.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : JMS13 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	88.12	613	54.22	134.1	
27	89.21	648	36.99	86.5	
28	90.08	676	36.92	82.7	
29	90.75	698	65.72	142.7	
30	92.46	818	78.31	145.0	
31	113.00	10,380	75.00	10.9	Upper Marker

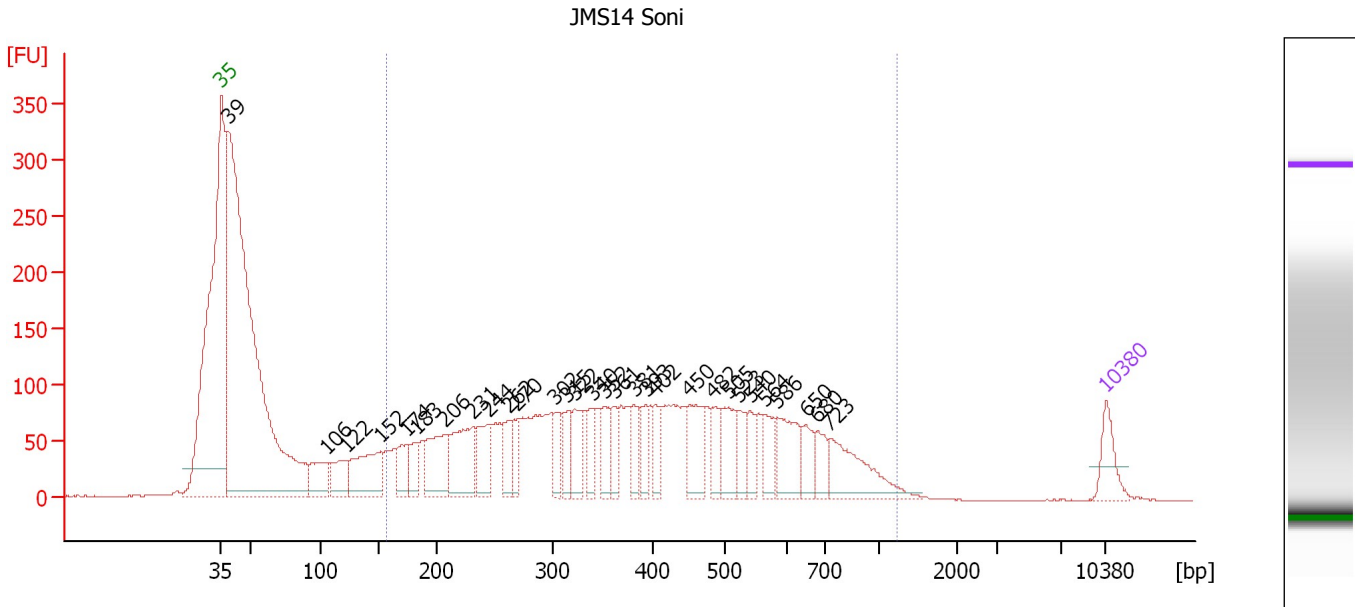
Region table for sample 4 : JMS13 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
169	1,239	415	17,941.0	3,828.93	2,811.3	85	42.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS14 Soni

Number of peaks found: 30 Corr. Area 1: 3,757.5
 Noise: 0.2

Peak table for sample 5 : JMS14 Soni


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	43.55	39	3,408.07	133,981.5	
3	51.35	106	163.06	2,329.6	
4	52.87	122	138.29	1,713.9	
5	55.66	152	279.69	2,788.2	
6	57.68	174	115.06	1,002.1	
7	58.49	183	96.82	803.1	
8	60.64	206	231.93	1,705.2	
9	62.87	231	285.86	1,878.5	
10	64.10	244	166.55	1,034.3	
11	65.78	262	108.50	626.4	
12	66.46	270	85.04	477.5	
13	69.41	302	97.36	487.7	
14	70.38	315	95.88	461.7	
15	70.97	322	119.52	562.3	
16	72.41	340	93.24	415.5	
17	73.38	352	98.16	422.4	
18	74.10	361	79.44	333.3	
19	75.70	381	71.46	284.0	
20	76.63	393	80.16	309.2	
21	77.35	402	73.68	277.4	
22	80.05	450	172.11	579.8	
23	81.86	482	106.51	335.1	
24	83.17	505	135.45	406.1	
25	84.01	523	74.90	217.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad


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 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : JMS14 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	84.86	540	72.23	202.5	
27	86.00	564	98.26	263.9	
28	87.05	586	167.51	433.1	
29	89.29	650	80.57	187.7	
30	90.22	680	73.47	163.6	
31	91.14	723	228.71	479.2	
32	 113.00	10,380	75.00	10.9	Upper Marker

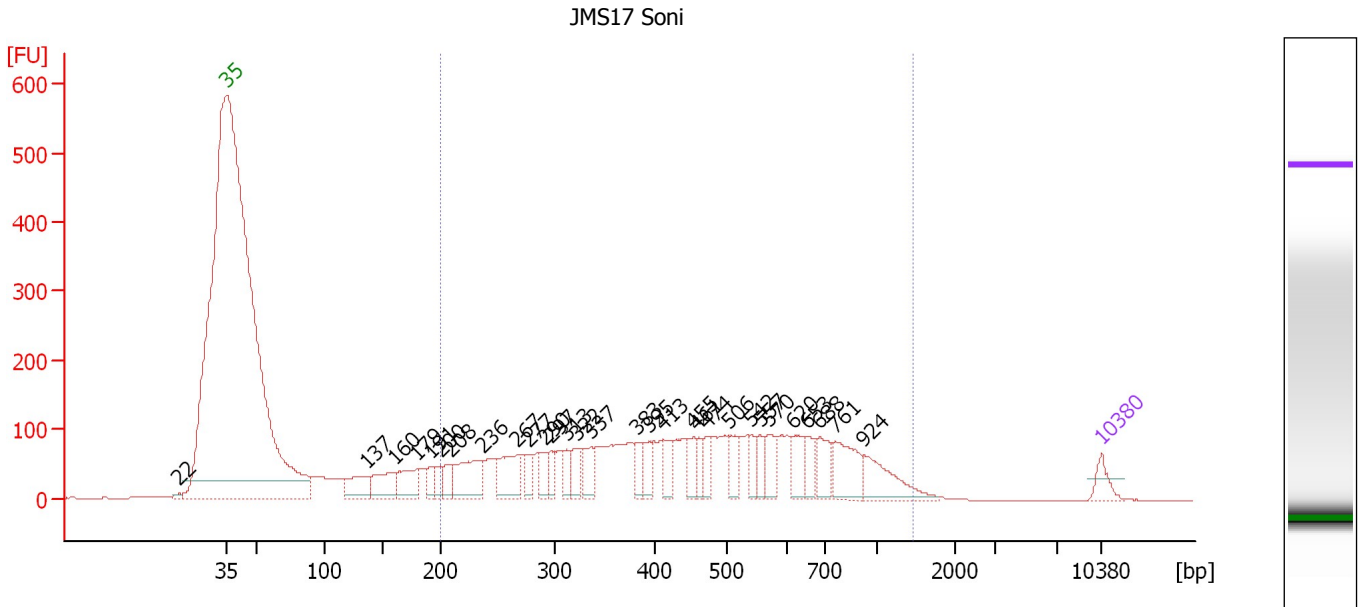
Region table for sample 5 : JMS14 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
157	1,241	421	21,335.1	4,504.02	 3,757.5	61	44.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JMS17 Soni

Number of peaks found: 30 Corr. Area 1: 3,712.6
 Noise: 0.2

Peak table for sample 6 : JMS17 Soni


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	39.16	22	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	54.22	137	253.33	2,810.0	
4	56.39	160	275.64	2,610.7	
5	58.19	179	265.99	2,246.3	
6	59.29	191	86.29	682.9	
7	60.06	200	113.45	860.3	
8	60.83	208	108.19	787.4	
9	63.39	236	403.77	2,589.8	
10	66.21	267	328.44	1,863.4	
11	67.14	277	105.31	575.4	
12	68.34	290	121.98	636.4	
13	68.94	297	99.10	505.7	
14	70.22	313	114.66	555.9	
15	70.98	322	129.06	607.0	
16	72.18	337	142.70	641.4	
17	75.85	383	118.94	470.5	
18	76.78	395	117.34	450.4	
19	77.94	413	139.74	512.9	
20	80.32	455	140.82	469.3	
21	80.67	461	103.83	341.5	
22	81.43	474	104.16	332.9	
23	83.18	506	147.09	440.8	
24	84.93	542	90.81	253.9	
25	85.66	557	102.43	278.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad


Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : JMS17 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	86.30	570	168.40	447.4	
27	88.34	620	173.15	423.1	
28	89.37	653	126.53	293.6	
29	90.43	688	163.88	361.2	
30	91.67	761	288.80	574.8	
31	93.93	924	273.84	448.8	
32	 113.00	10,380	75.00	10.9	Upper Marker

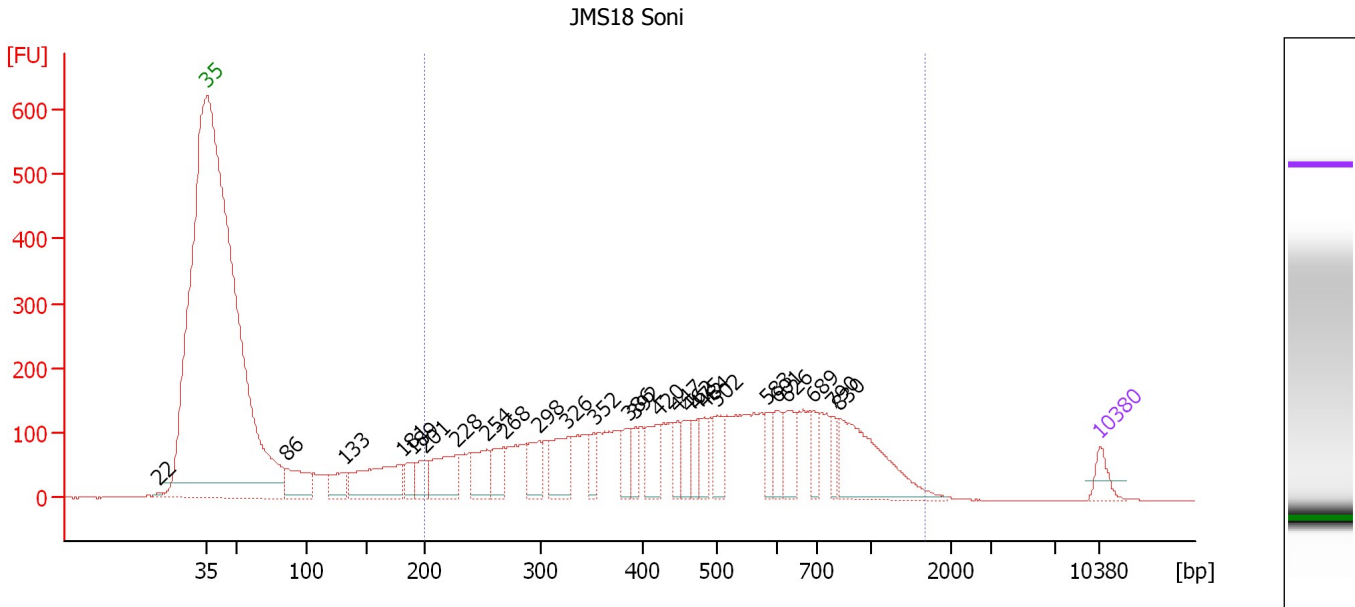
Region table for sample 6 : JMS17 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,469	496	23,160.1	5,837.20	 3,712.6	83	46.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JMS18 Soni

Number of peaks found: 26 Corr. Area 1: 5,119.3
 Noise: 0.2

Peak table for sample 7 : JMS18 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	39.30	22	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	49.29	86	322.20	5,657.2	
4	53.86	133	174.99	1,997.7	
5	58.29	181	542.69	4,553.6	
6	59.11	189	118.49	947.6	
7	60.14	201	159.15	1,201.6	
8	62.60	228	351.29	2,338.9	
9	65.01	254	238.32	1,421.7	
10	66.30	268	201.05	1,136.1	
11	69.06	298	203.02	1,031.1	
12	71.26	326	284.48	1,323.9	
13	73.37	352	98.99	426.1	
14	76.08	386	129.26	507.4	
15	76.60	392	114.63	442.6	
16	78.37	420	220.02	793.1	
17	79.87	447	125.04	424.1	
18	80.74	462	141.86	465.4	
19	81.47	475	110.42	352.5	
20	81.98	484	127.27	398.6	
21	83.02	502	152.91	461.3	
22	86.90	583	111.50	289.9	
23	87.76	601	139.44	351.5	
24	88.53	626	176.66	427.5	
25	90.47	689	125.55	276.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : JMS18 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	92.06	790	85.87	164.8	
27	92.62	830	589.29	1,075.7	
28	▶ 113.00	10,380	75.00	10.9	Upper Marker

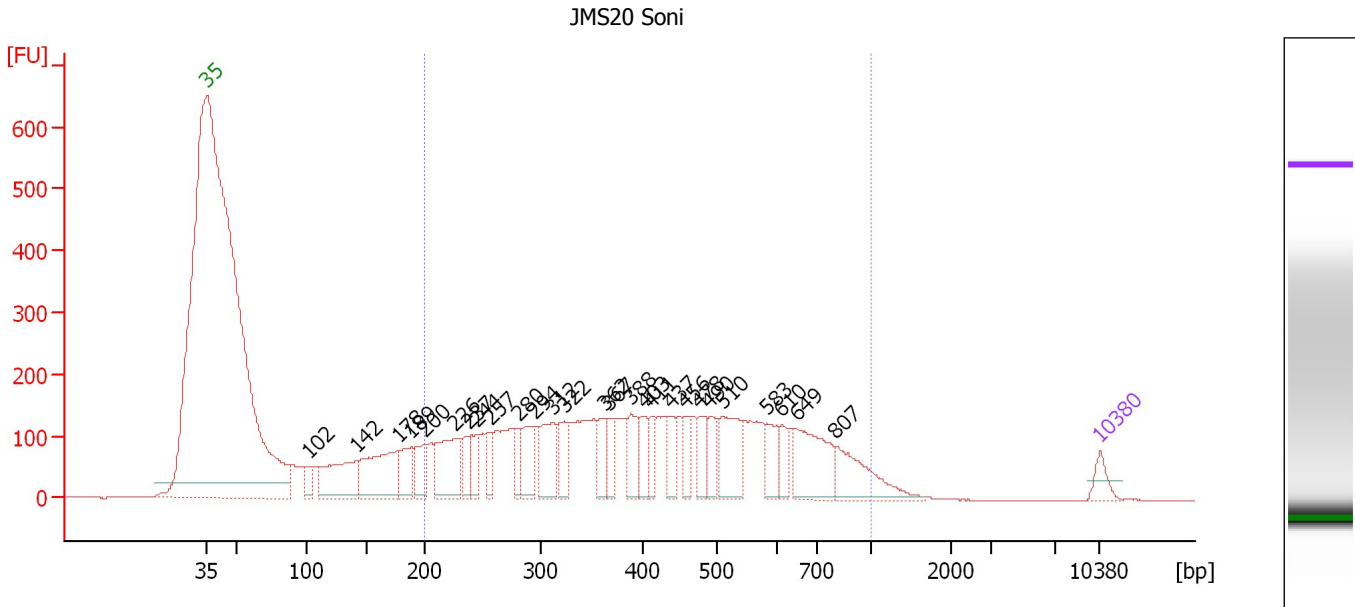
Region table for sample 7 : JMS18 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,680	527	23,618.6	6,173.46	■ 5,119.3	84	48.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JMS20 Soni

Number of peaks found: 27 Corr. Area 1: 5,433.0
 Noise: 0.2

Peak table for sample 8 : JMS20 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	50.95	102	121.54	1,809.9	
3	54.75	142	591.91	6,302.5	
4	58.04	178	677.55	5,773.7	
5	59.03	189	269.59	2,165.9	
6	60.11	200	255.01	1,928.8	
7	62.49	226	524.77	3,512.9	
8	63.48	237	191.90	1,225.7	
9	64.09	244	148.28	921.3	
10	65.25	257	149.74	884.1	
11	67.41	280	149.96	810.7	
12	68.71	294	285.05	1,466.6	
13	70.18	312	385.29	1,870.6	
14	71.00	322	204.24	960.0	
15	74.15	362	194.71	815.4	
16	74.59	367	140.32	578.9	
17	76.27	388	232.06	905.5	
18	77.35	403	162.47	611.5	
19	77.83	411	131.32	484.2	
20	79.30	437	148.79	516.3	
21	80.42	456	146.65	486.9	
22	81.63	478	164.09	520.6	
23	82.32	490	199.03	615.9	
24	83.40	510	393.21	1,167.8	
25	86.90	583	173.77	451.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : JMS20 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	88.02	610	122.89	305.4	
27	89.23	649	465.39	1,086.9	
28	92.30	807	373.04	700.5	
29	113.00	10,380	75.00	10.9	Upper Marker

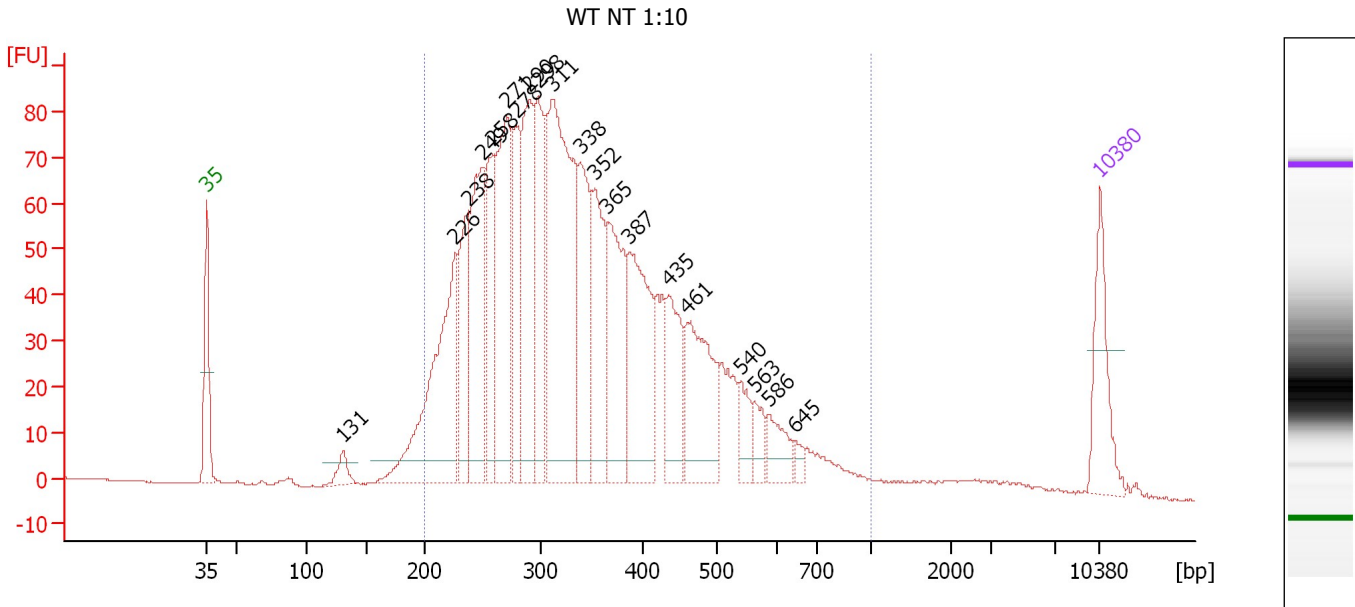
Region table for sample 8 : JMS20 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	440	32,173.4	7,600.17	5,433.0	80	39.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WT NT 1:10

Number of peaks found: 20 Corr. Area 1: 2,104.8
 Noise: 0.1

Peak table for sample 9 : WT NT 1:10


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.70	131	29.46	340.5	
3	62.48	226	350.99	2,350.4	
4	63.51	238	147.39	940.2	
5	64.58	249	246.43	1,498.1	
6	65.39	258	152.25	893.6	
7	66.55	271	279.37	1,563.1	
8	67.23	278	149.12	811.8	
9	68.30	290	237.99	1,243.3	
10	68.99	298	179.44	913.8	
11	70.06	311	484.31	2,362.8	
12	72.24	338	175.23	785.8	
13	73.40	352	164.92	709.2	
14	74.38	365	192.96	801.7	
15	76.14	387	217.82	853.6	
16	79.22	435	110.02	382.9	
17	80.68	461	169.90	558.6	
18	84.83	540	40.55	113.8	
19	85.94	563	28.28	76.1	
20	87.06	586	42.93	111.0	
21	89.11	645	11.21	26.3	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...

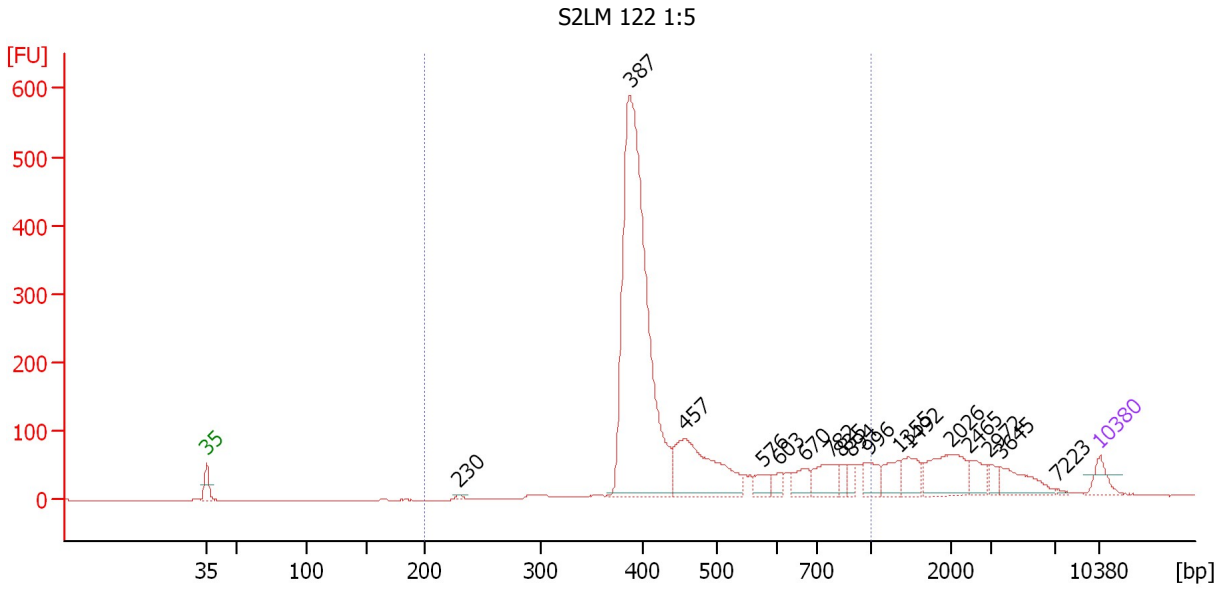
... Region table for sample 9 : WT NT 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	355	17,453.4	3,633.60	 2,104.8	95	32.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : S2LM 122 1:5

Number of peaks found: 17 Corr. Area 1: 2,613.0
 Noise: 0.3

Peak table for sample 10 : S2LM 122 1:5

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	62.79	230	15.39	101.5	
3	76.17	387	3,090.90	12,099.2	
4	80.47	457	711.52	2,357.6	
5	86.58	576	83.54	219.6	
6	87.83	603	55.46	139.3	
7	89.90	670	108.40	245.1	
8	91.96	782	176.41	341.7	
9	92.69	835	50.88	92.3	
10	93.51	894	46.03	78.0	
11	94.93	996	112.28	170.7	
12	97.21	1,355	107.01	119.6	
13	98.07	1,492	124.58	126.5	
14	101.34	2,026	260.91	195.1	
15	102.72	2,465	97.06	59.7	
16	104.31	2,972	42.85	21.8	
17	105.21	3,645	151.17	62.8	
18	109.69	7,223	7.67	1.6	
19	113.00	10,380	75.00	10.9	Upper Marker

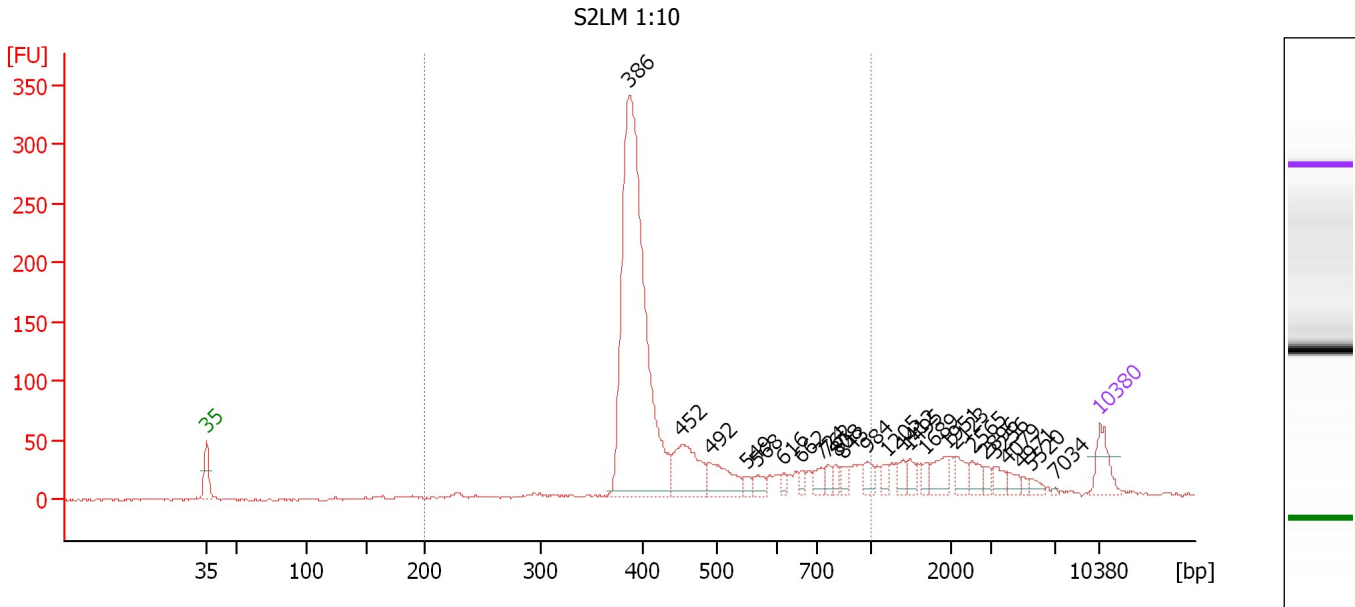
Region table for sample 10 : S2LM 122 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	474	15,796.0	4,551.58	2,613.0	79	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
 Modified: 4/3/2014 5:16:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : S2LM 1:10

Number of peaks found: 25 Corr. Area 1: 1,403.0
 Noise: 1.0

Peak table for sample 11 : S2LM 1:10

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.11	386	1,726.80	6,772.0	
3	80.19	452	223.63	749.2	
4	82.44	492	138.45	426.6	
5	85.26	549	21.94	60.6	
6	86.17	568	36.19	96.6	
7	88.21	616	19.15	47.1	
8	89.64	662	21.93	50.2	
9	91.15	724	37.70	78.9	
10	91.67	762	27.37	54.5	
11	92.33	808	25.02	46.9	
12	92.80	843	31.44	56.5	
13	94.75	984	42.57	65.6	
14	96.27	1,205	27.23	34.2	
15	97.57	1,412	32.15	34.5	
16	98.09	1,495	35.85	36.3	
17	99.30	1,689	21.15	19.0	
18	100.95	1,951	58.07	45.1	
19	101.64	2,123	45.03	32.1	
20	103.03	2,565	38.09	22.5	
21	104.07	2,896	18.41	9.6	
22	104.72	3,256	31.16	14.5	
23	105.76	4,079	24.50	9.1	
24	106.89	4,971	10.80	3.3	
25	107.58	5,520	16.90	4.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

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Electropherogram Summary Continued ...

... Peak table for sample 11 : S2LM 1:10

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	109.49	7,034	3.07	0.7	
27	113.00	10,380	75.00	10.9	Upper Marker

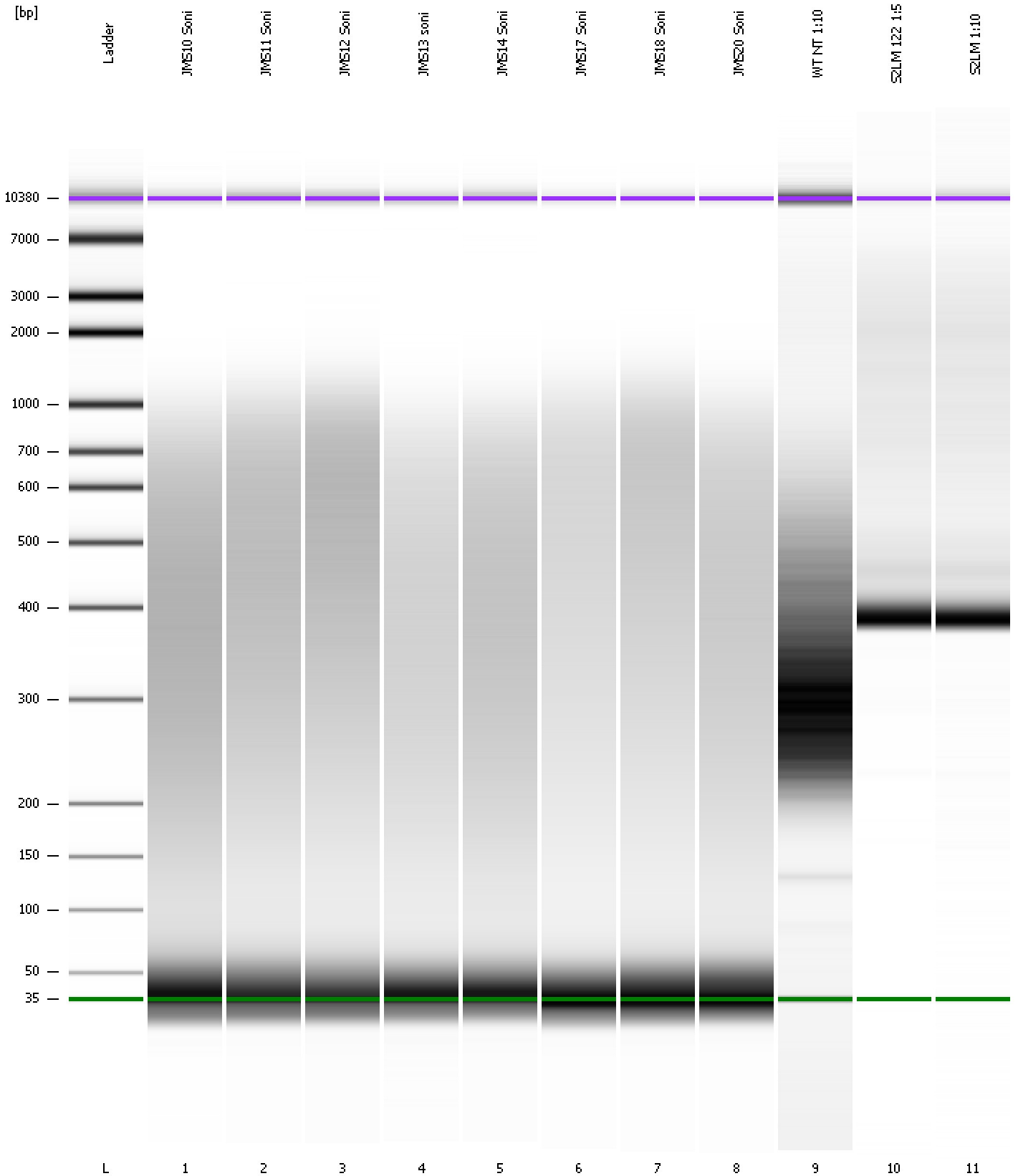
Region table for sample 11 : S2LM 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	470	8,782.9	2,499.55	1,403.0	80	31.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad

Created: 4/3/2014 4:34:36 PM
Modified: 4/3/2014 5:16:06 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 4/3/2014 4:34:36 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad Modified: 4/3/2014 5:16:06 PM

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		4/3/2014 5:15:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-03\2014-04-03_008.xad)		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2014 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1