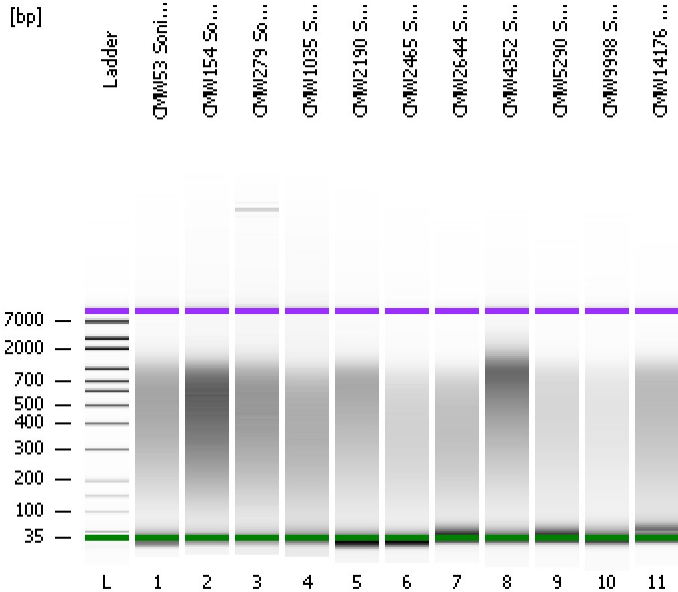


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Electrophoresis File Run Summary



Instrument Information:

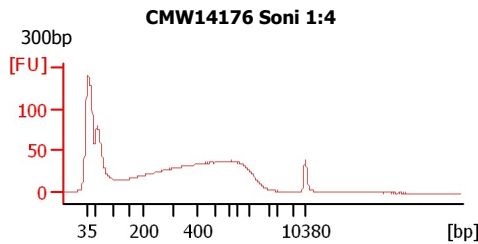
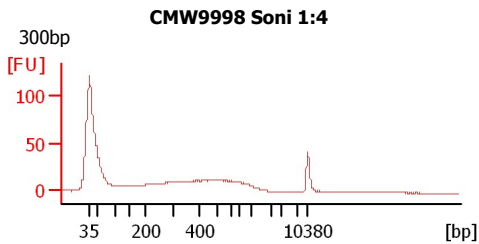
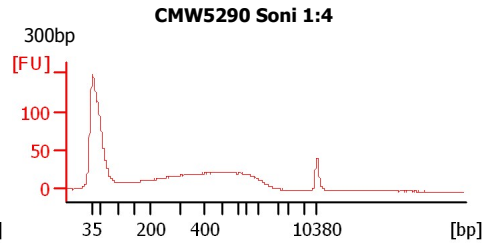
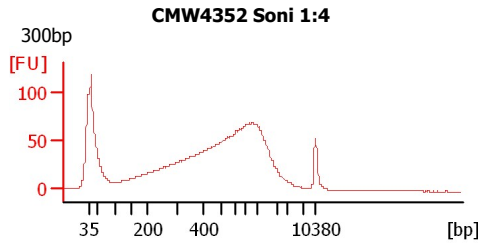
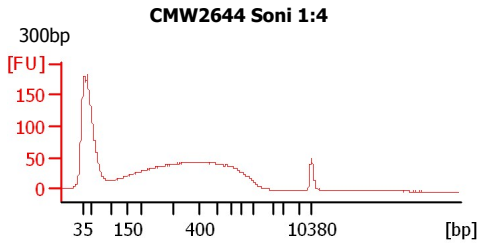
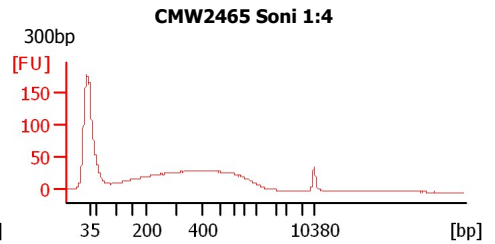
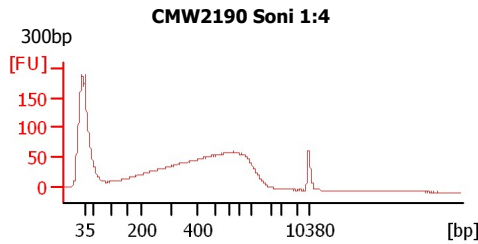
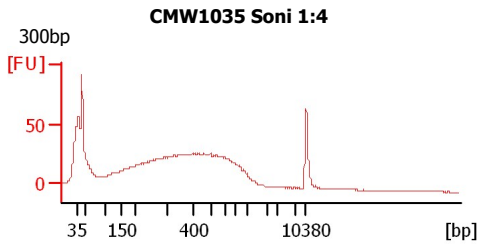
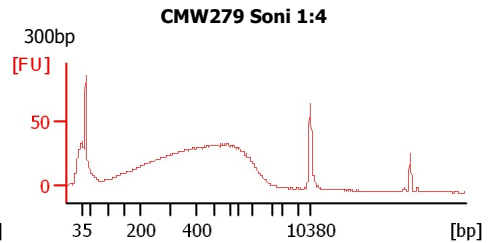
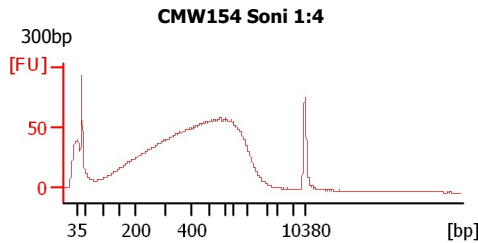
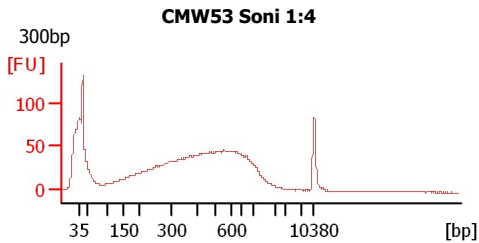
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW53 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW154 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW279 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW1035 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW2190 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW2465 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW2644 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW4352 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW5290 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW9998 Soni 1:4	300bp	<input type="checkbox"/>	✓			
CMW14176 Soni 1:4	300bp	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 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

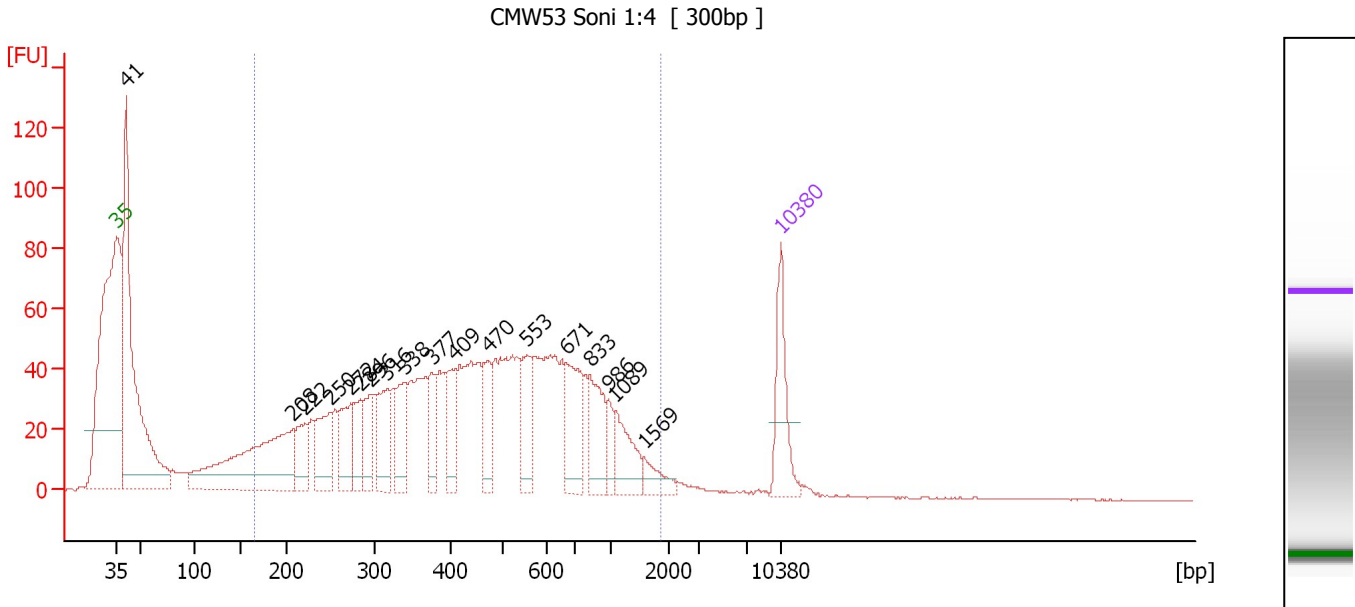
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary



Overall Results for sample 1 : CMW53 Soni 1:4

Number of peaks found: 18 Corr. Area 1: 1,828.6
 Noise: 0.2

Peak table for sample 1 : CMW53 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	719.74	26,402.5	
3	208	354.96	2,587.5	
4	222	68.44	467.8	
5	250	107.10	647.9	
6	272	90.95	506.4	
7	284	63.15	337.5	
8	296	64.51	330.1	
9	316	93.81	450.0	
10	338	81.00	362.6	
11	377	59.31	238.7	
12	409	69.07	256.0	
13	470	70.11	225.8	
14	553	80.12	219.4	
15	671	105.72	238.7	
16	833	83.88	152.6	
17	986	25.68	39.4	
18	1,089	61.52	85.6	
19	1,569	26.32	25.4	
20	10,380	75.00	10.9	Upper Marker

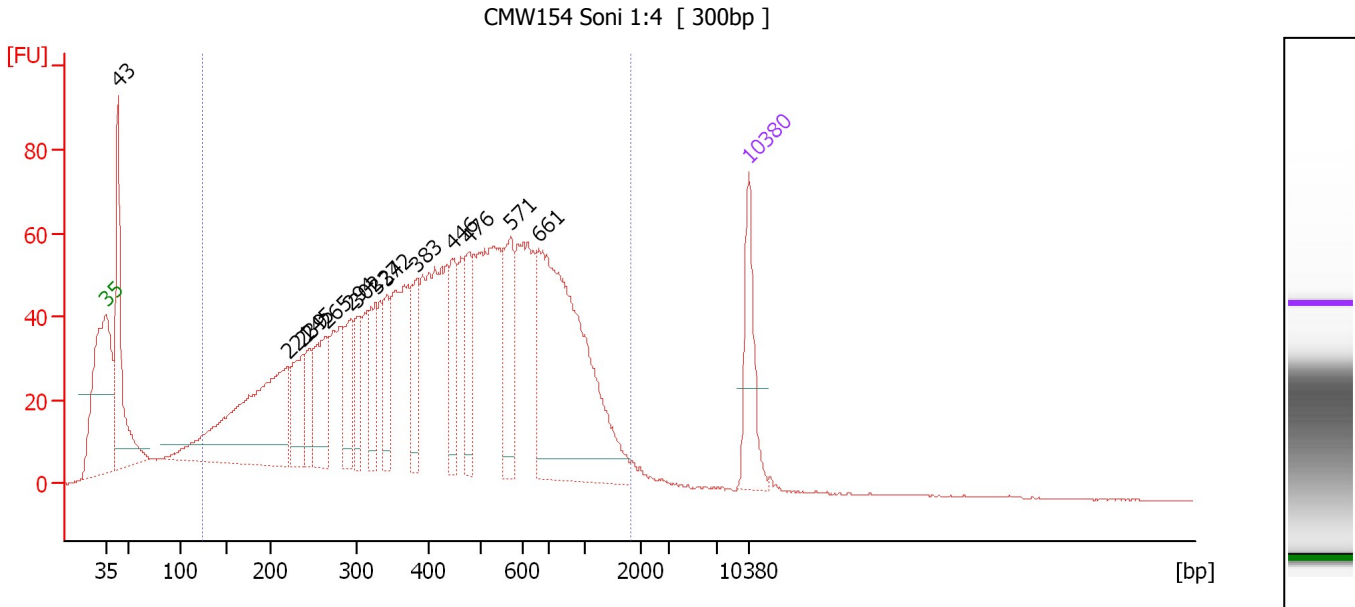
Region table for sample 1 : CMW53 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
165	1,851	512	9,749.0	2,328.13	1,828.6	76	55.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW154 Soni 1:4

Number of peaks found: 14 Corr. Area 1: 2,398.4
 Noise: 0.1

Peak table for sample 2 : CMW154 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	308.90	10,803.6	
3	221	405.55	2,776.9	
4	239	96.05	609.8	
5	245	55.76	344.2	
6	265	118.00	675.5	
7	294	88.58	456.7	
8	302	63.59	319.6	
9	327	82.27	381.2	
10	342	61.07	270.9	
11	383	65.89	260.6	
12	446	73.32	249.2	
13	476	74.31	236.6	
14	571	101.49	269.5	
15	661	467.05	1,070.6	
16	10,380	75.00	10.9	Upper Marker

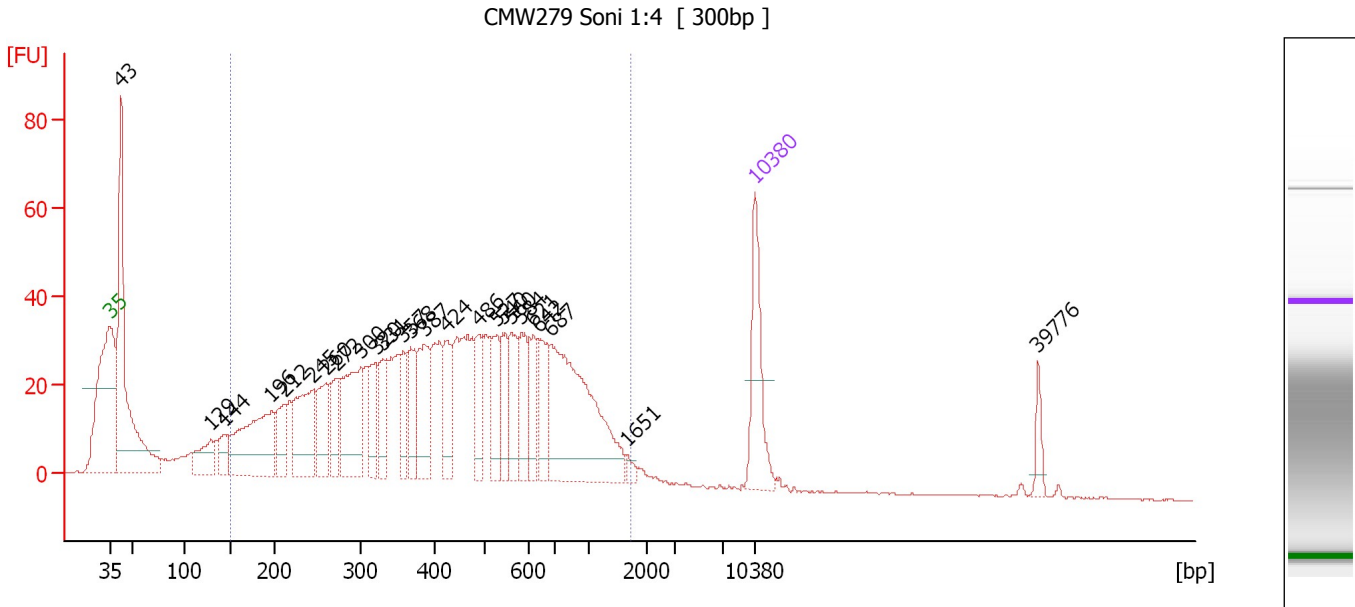
Region table for sample 2 : CMW154 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
123	1,827	494	15,151.1	3,307.00	2,398.4	88	56.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW279 Soni 1:4

Number of peaks found: 25 Corr. Area 1: 1,382.8
 Noise: 0.1

Peak table for sample 3 : CMW279 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	418.41	14,893.1	
3	129	56.60	666.0	
4	144	36.88	389.0	
5	196	188.79	1,456.3	
6	212	55.31	395.8	
7	245	126.34	781.0	
8	260	77.49	451.7	
9	272	53.60	298.9	
10	300	140.71	710.4	
11	320	59.07	279.3	
12	331	56.30	258.0	
13	357	46.00	195.0	
14	368	56.34	231.8	
15	387	83.20	325.6	
16	424	61.66	220.2	
17	486	45.03	140.5	
18	527	62.07	178.6	
19	540	51.73	145.1	
20	560	56.70	153.3	
21	584	57.78	149.8	
22	621	44.11	107.5	
23	642	54.63	128.9	
24	687	261.29	576.5	
25	1,651	7.32	6.7	
26	10,380	75.00	10.9	Upper Marker


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...**... Peak table for sample 3 : CMW279 Soni 1:4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	39,776	0.00	0.0	

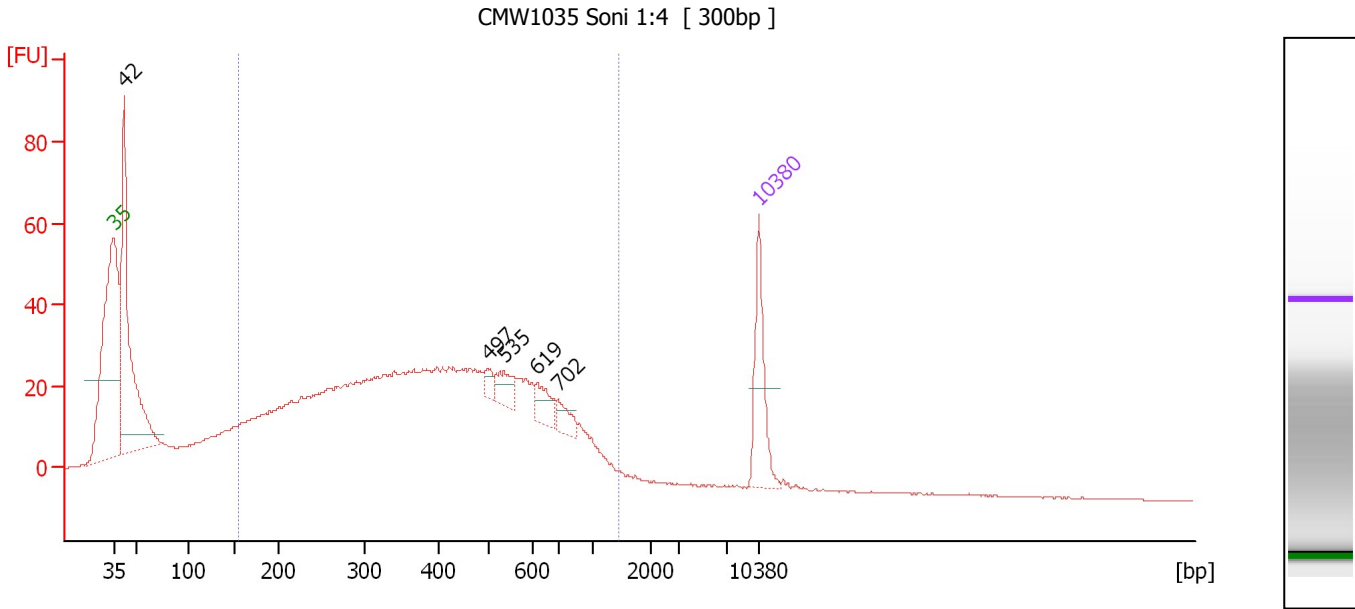
Region table for sample 3 : CMW279 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
151	1,731	494	9,526.6	2,184.66	1,382.8	82	54.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW1035 Soni 1:4

Number of peaks found: 5 Corr. Area 1: 1,139.5
 Noise: 0.1

Peak table for sample 4 : CMW1035 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	518.73	18,621.5	
3	497	13.44	41.0	
4	535	29.96	84.8	
5	619	29.79	72.9	
6	702	22.69	49.0	
7	10,380	75.00	10.9	Upper Marker

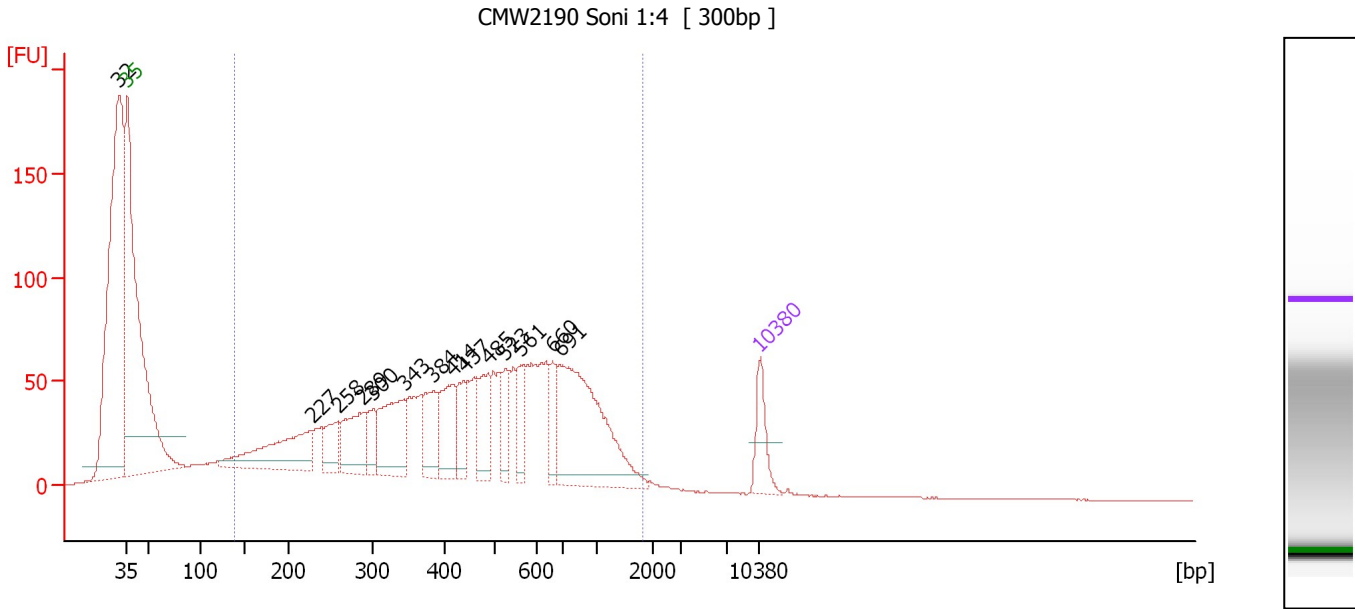
Region table for sample 4 : CMW1035 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
155	1,460	433	9,286.2	1,984.02	1,139.5	74	47.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW2190 Soni 1:4

Number of peaks found: 14 Corr. Area 1: 2,255.6
 Noise: 0.1

Peak table for sample 5 : CMW2190 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	227	309.29	2,060.9	
4	258	97.86	574.1	
5	289	176.35	926.0	
6	300	71.60	361.7	
7	343	234.68	1,037.1	
8	384	134.62	531.7	
9	414	151.42	554.6	
10	437	103.60	359.2	
11	485	129.41	404.5	
12	523	78.86	228.6	
13	561	72.78	196.5	
14	660	67.01	153.9	
15	691	509.53	1,117.1	
16	10,380	75.00	10.9	Upper Marker

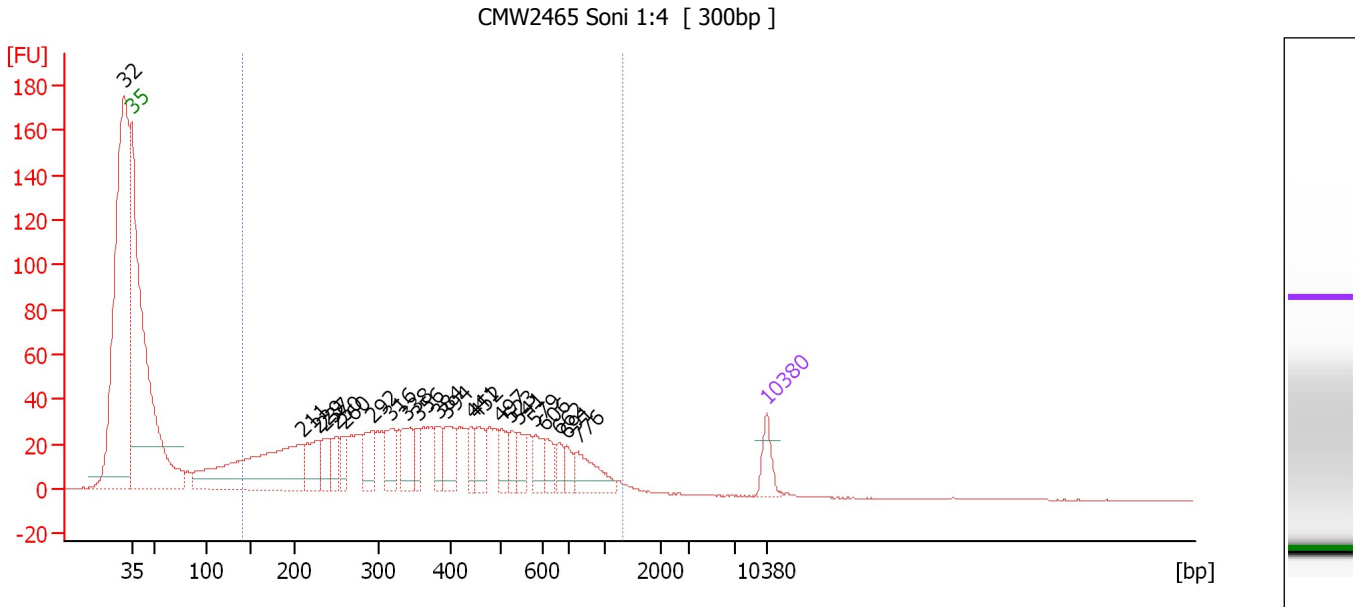
Region table for sample 5 : CMW2190 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
137	1,805	514	15,161.4	3,484.25	2,255.6	70	55.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW2465 Soni 1:4

Number of peaks found: 22 Corr. Area 1: 1,260.9
 Noise: 0.1

Peak table for sample 6 : CMW2465 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	211	947.04	6,813.7	
4	229	198.16	1,312.3	
5	237	117.83	753.5	
6	250	103.10	624.5	
7	260	89.49	522.5	
8	292	164.89	855.1	
9	316	143.01	686.0	
10	338	158.37	710.0	
11	356	82.95	352.6	
12	384	110.73	437.3	
13	394	144.59	556.0	
14	441	74.54	256.1	
15	452	112.89	378.8	
16	497	94.52	288.1	
17	523	64.93	188.0	
18	541	89.96	251.9	
19	579	79.96	209.1	
20	606	79.84	199.7	
21	662	57.31	131.2	
22	691	58.45	128.2	
23	776	150.84	294.5	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...

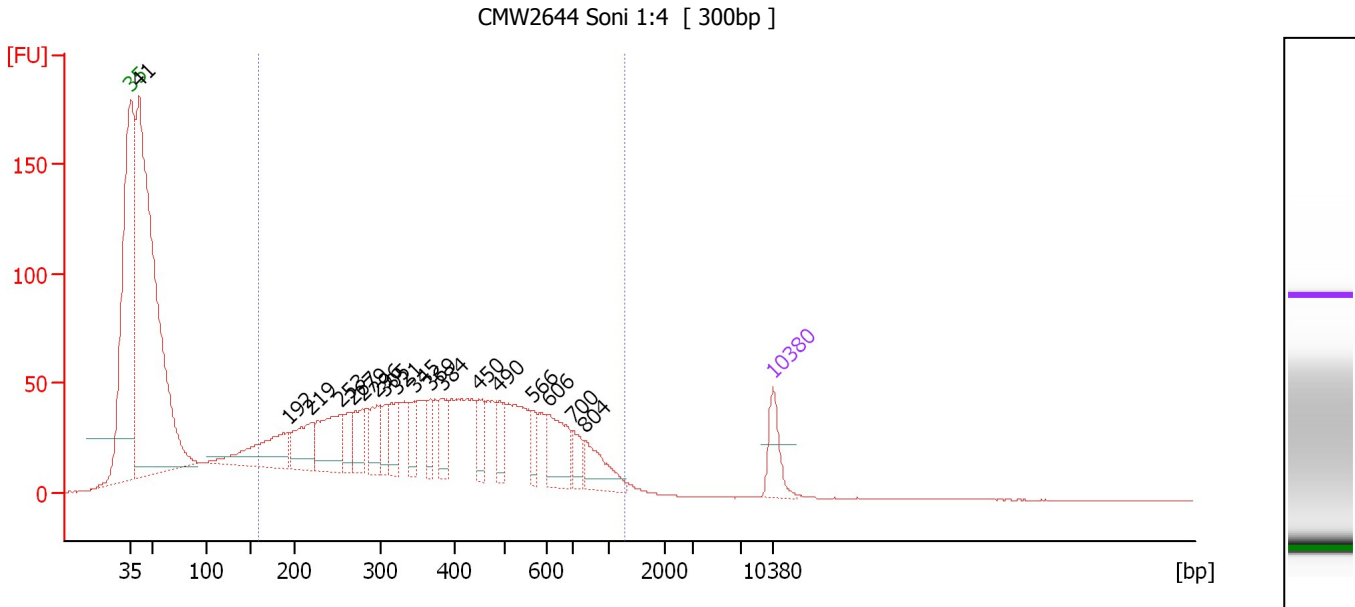
... Region table for sample 6 : CMW2465 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
142	1,320	413	19,267.5	3,865.82	1,260.9	60	47.6	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW2644 Soni 1:4

Number of peaks found: 18 Corr. Area 1: 1,825.5
 Noise: 0.1

Peak table for sample 7 : CMW2644 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	2,543.53	94,481.6	
3	192	262.56	2,068.3	
4	219	170.49	1,180.6	
5	253	227.68	1,364.0	
6	267	85.78	487.6	
7	279	107.20	582.3	
8	296	105.64	541.3	
9	305	71.70	356.0	
10	321	91.15	430.0	
11	345	75.33	330.6	
12	369	64.61	265.6	
13	384	97.66	385.5	
14	450	78.67	264.9	
15	490	67.65	209.4	
16	566	48.13	128.9	
17	606	139.67	349.4	
18	700	56.87	123.1	
19	804	103.85	195.7	
20	10,380	75.00	10.9	Upper Marker

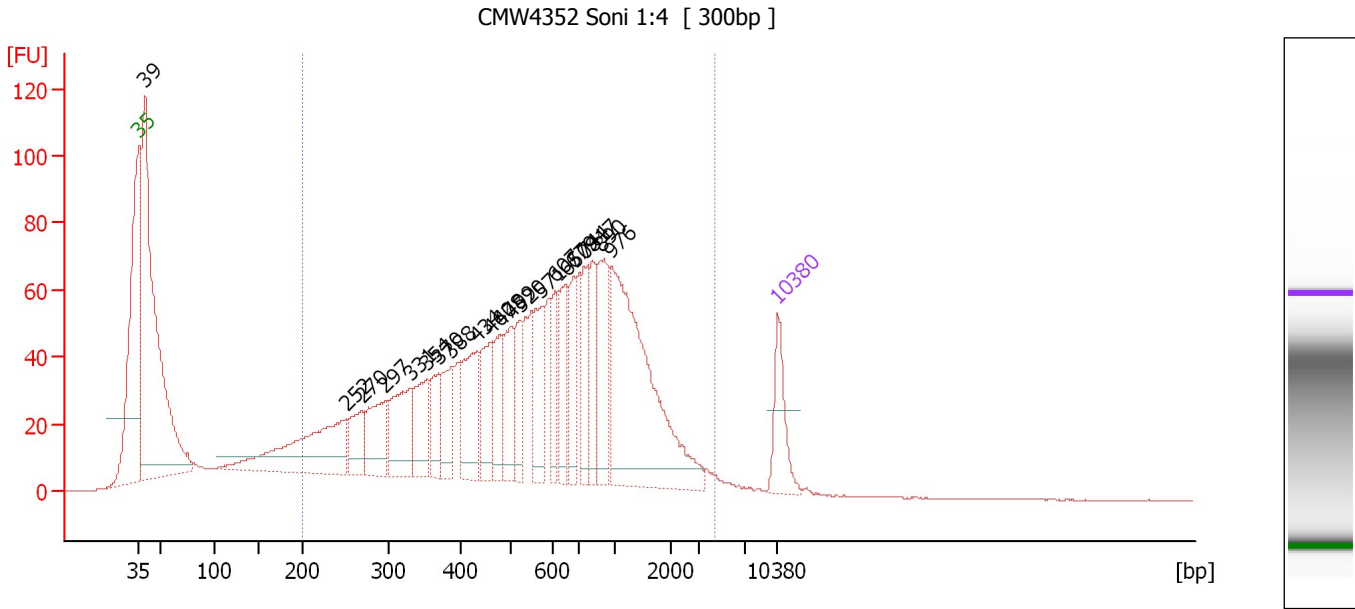
Region table for sample 7 : CMW2644 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
159	1,277	418	16,555.9	3,478.48	1,825.5	59	45.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CMW4352 Soni 1:4

Number of peaks found: 21 Corr. Area 1: 2,022.4
 Noise: 0.1

Peak table for sample 8 : CMW4352 Soni 1:4


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	1,161.34	45,114.3	
3	252	324.04	1,949.5	
4	270	89.53	502.6	
5	297	137.14	698.7	
6	331	164.26	752.7	
7	354	111.37	476.5	
8	370	72.74	297.7	
9	388	95.16	371.8	
10	434	152.03	530.8	
11	460	119.38	393.0	
12	478	85.60	271.3	
13	499	104.63	317.7	
14	520	79.98	232.9	
15	571	103.20	273.8	
16	607	73.47	183.4	
17	650	106.61	248.5	
18	679	92.90	207.3	
19	744	89.38	181.9	
20	817	81.53	151.2	
21	890	139.76	237.9	
22	976	490.40	760.9	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...

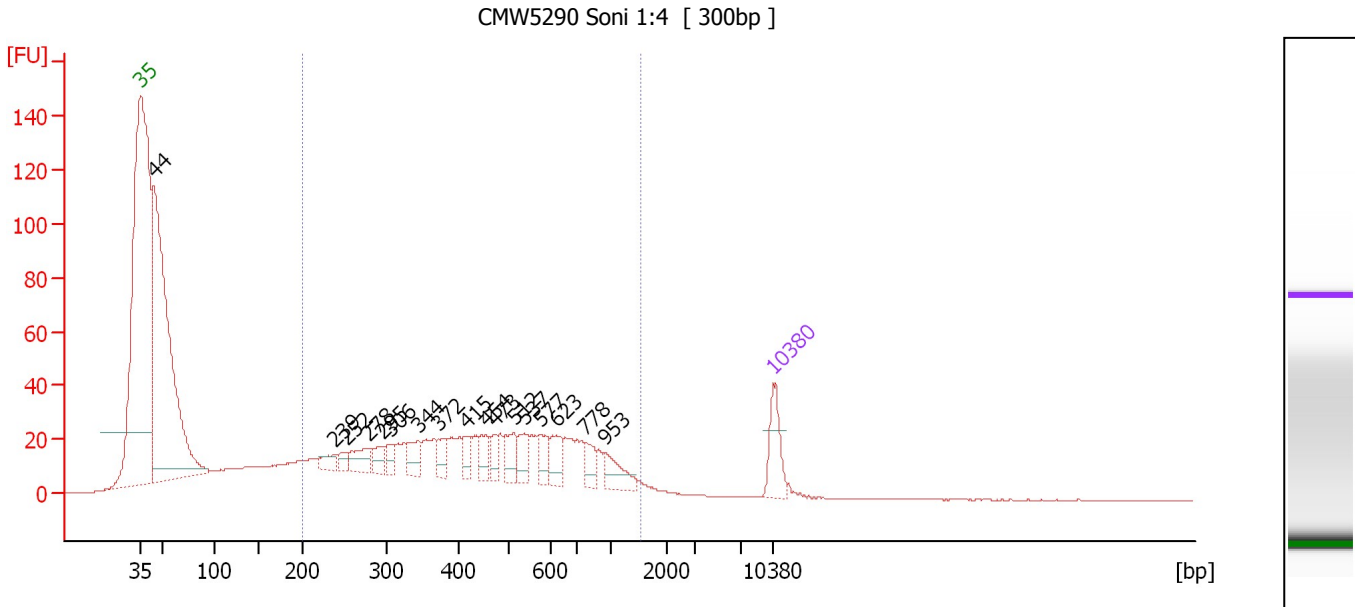
... Region table for sample 8 : CMW4352 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	4,398	732	11,275.0	3,392.61	2,022.4	73	74.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW5290 Soni 1:4

Number of peaks found: 17 Corr. Area 1: 851.9
 Noise: 0.1

Peak table for sample 9 : CMW5290 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	1,603.82	55,451.2	
3	239	38.66	244.9	
4	252	26.61	160.2	
5	278	67.72	369.6	
6	295	42.73	219.8	
7	306	31.24	154.6	
8	344	55.05	242.5	
9	372	40.57	165.2	
10	415	36.85	134.4	
11	454	47.88	159.6	
12	473	35.54	114.0	
13	512	63.26	187.3	
14	537	52.21	147.2	
15	577	47.43	124.5	
16	623	55.18	134.2	
17	778	44.13	85.9	
18	953	60.16	95.7	
19	10,380	75.00	10.9	Upper Marker

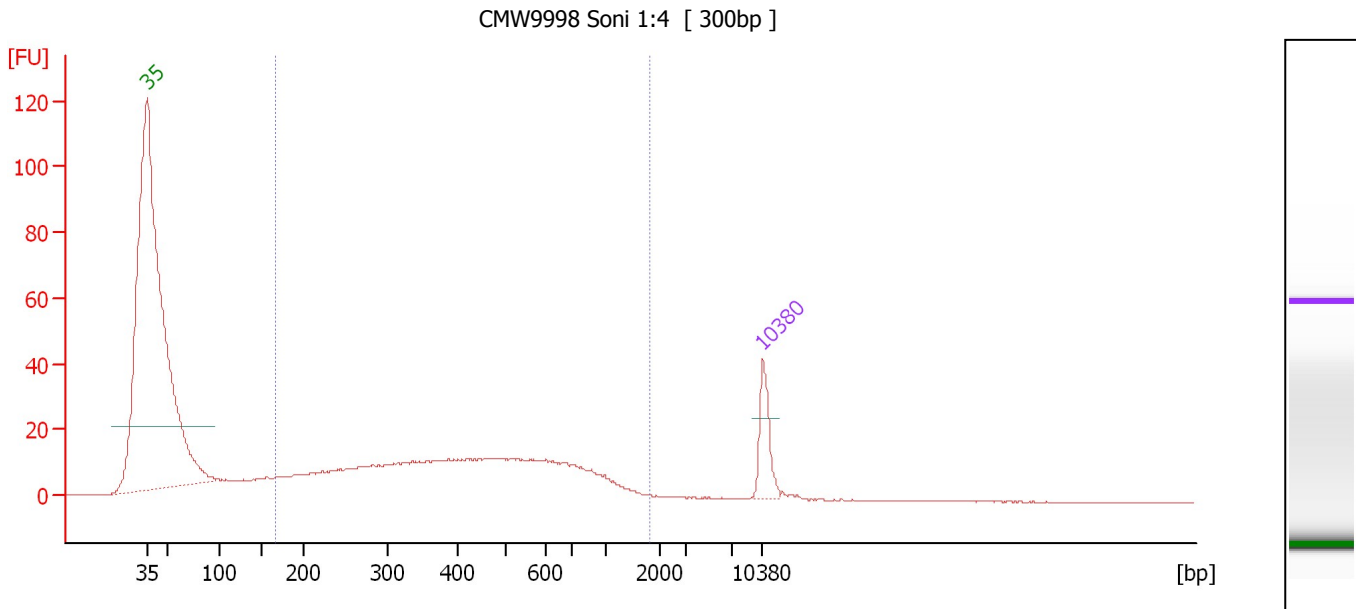
Region table for sample 9 : CMW5290 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,519	492	7,650.5	1,901.06	851.9	52	48.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMW9998 Soni 1:4

Number of peaks found: 0 Corr. Area 1: 467.4
 Noise: 0.1

Peak table for sample 10 : CMW9998 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

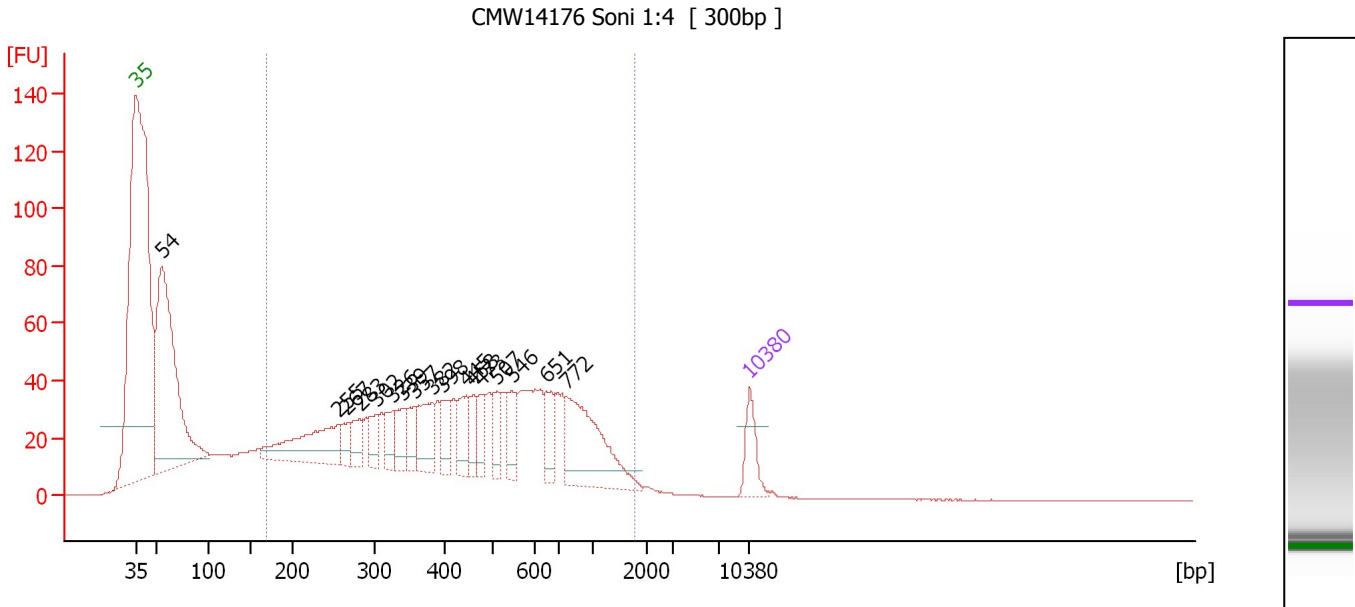
Region table for sample 10 : CMW9998 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
166	1,829	474	5,031.1	1,141.21	467.4	87	54.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
 Modified: 5/1/2014 11:59:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMW14176 Soni 1:4

Number of peaks found: 17 Corr. Area 1: 1,456.9
 Noise: 0.1

Peak table for sample 11 : CMW14176 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	1,227.11	34,164.8	
3	255	311.92	1,851.5	
4	267	54.96	311.9	
5	283	81.01	434.4	
6	302	67.50	338.3	
7	326	78.01	362.6	
8	339	89.55	400.3	
9	357	72.70	309.0	
10	382	141.97	562.4	
11	398	81.12	308.5	
12	445	101.78	346.7	
13	458	61.67	204.1	
14	473	62.31	199.5	
15	507	63.11	188.5	
16	546	84.73	235.3	
17	651	85.61	199.2	
18	772	332.61	653.0	
19	10,380	75.00	10.9	Upper Marker

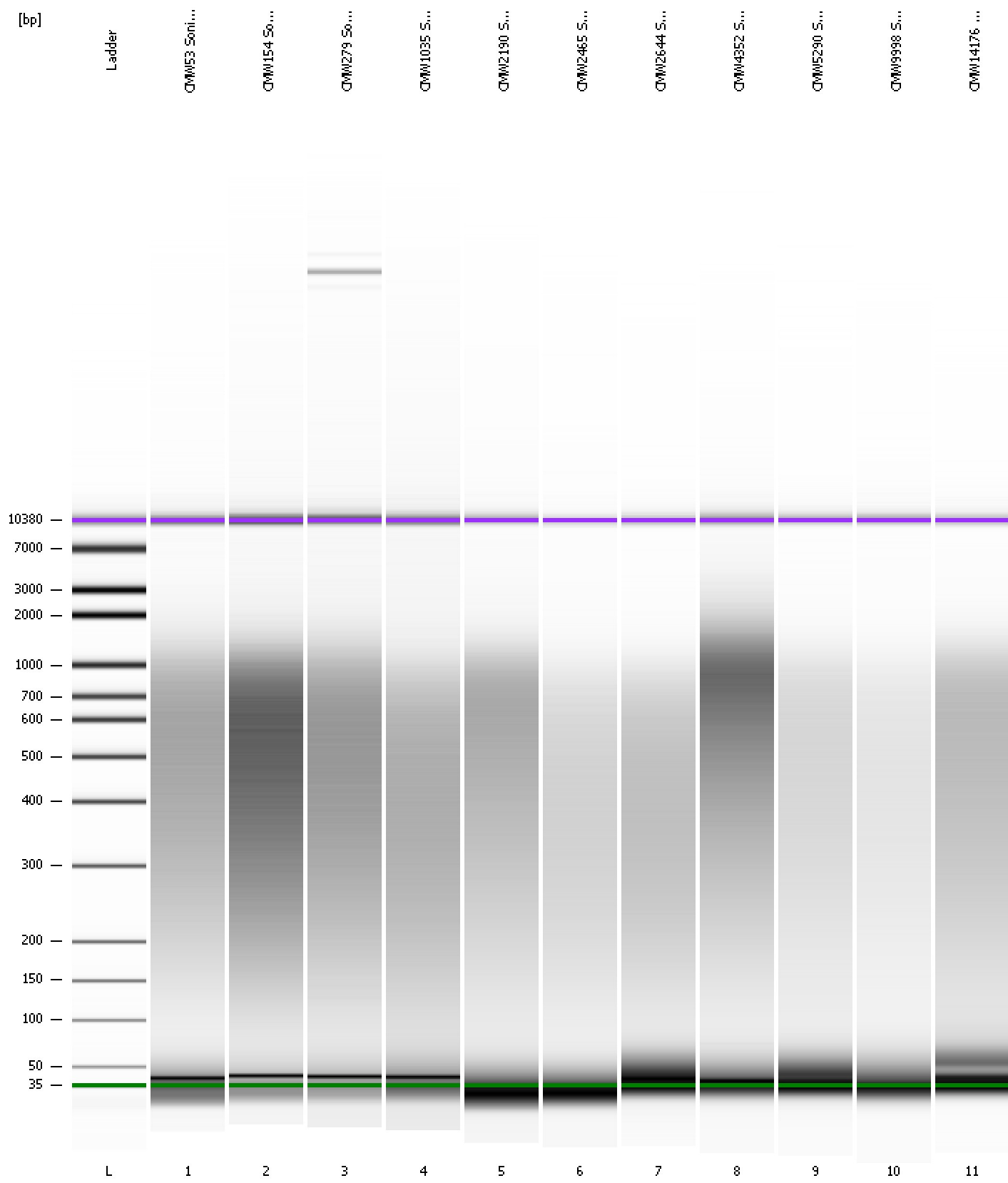
Region table for sample 11 : CMW14176 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
170	1,795	507	15,256.2	3,594.40	1,456.9	68	56.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-01\2014-05-01_003.xad

Created: 5/1/2014 11:13:25 AM
Modified: 5/1/2014 11:59:24 AM

Curves

Standard Curve

