

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

Created: 5/2/2014 7:36:50 AM
Modified: 5/2/2014 8:20:22 AM

Electrophoresis File Run Summary

Instrument Information:

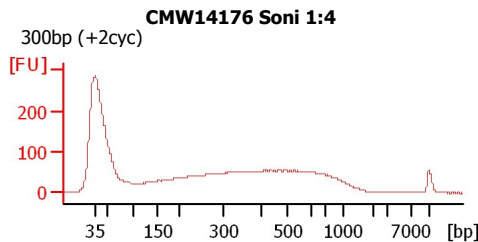
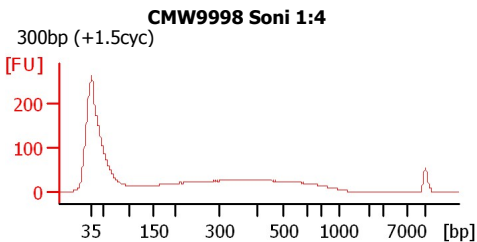
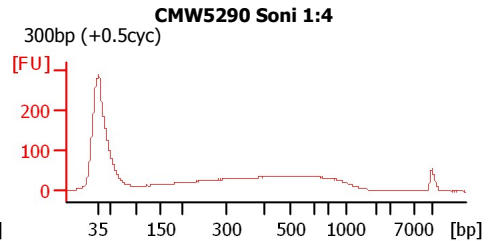
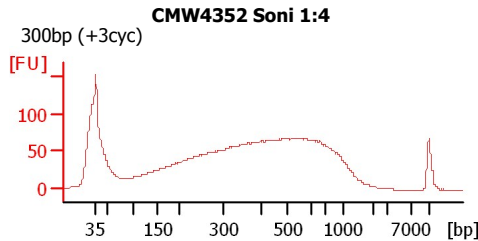
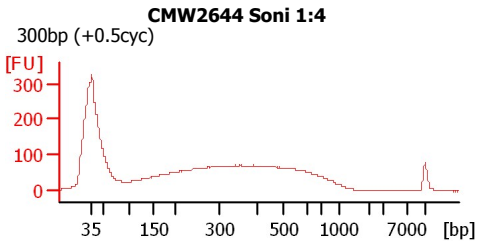
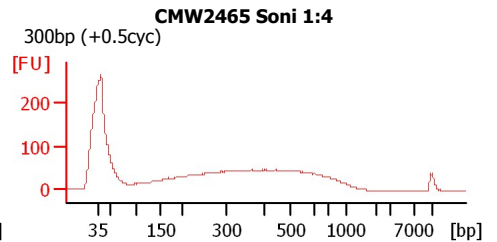
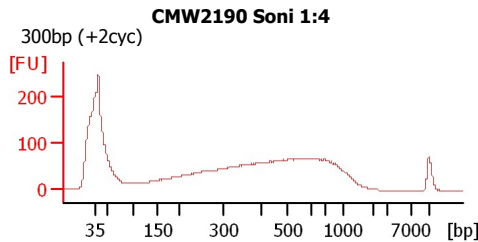
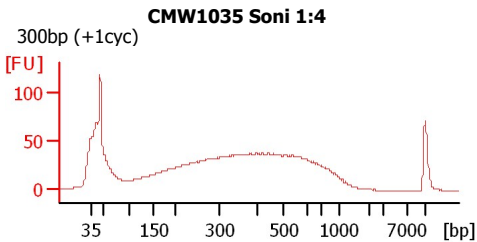
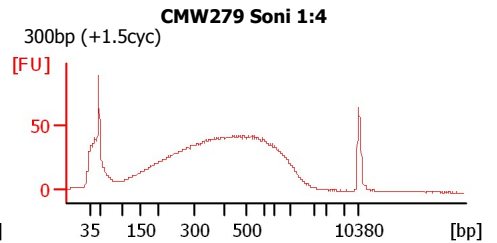
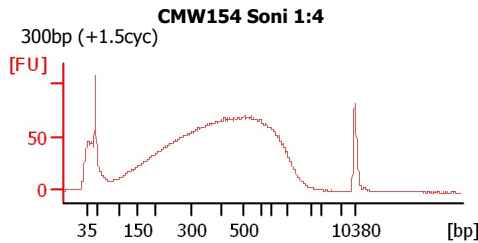
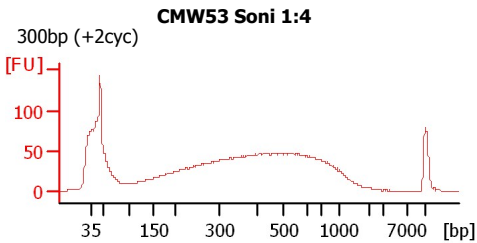
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW53 Soni 1:4	300bp (+2cyc)	<input type="checkbox"/>	✓			
CMW154 Soni 1:4	300bp (+1.5cyc)	<input type="checkbox"/>	✓			
CMW279 Soni 1:4	300bp (+1.5cyc)	<input type="checkbox"/>	✓			
CMW1035 Soni 1:4	300bp (+1cyc)	<input type="checkbox"/>	✓			
CMW2190 Soni 1:4	300bp (+2cyc)	<input type="checkbox"/>	✓			
CMW2465 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW2644 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW4352 Soni 1:4	300bp (+3cyc)	<input type="checkbox"/>	✓			
CMW5290 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW9998 Soni 1:4	300bp (+1.5cyc)	<input type="checkbox"/>	✓			
CMW14176 Soni 1:4	300bp (+2cyc)	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

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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

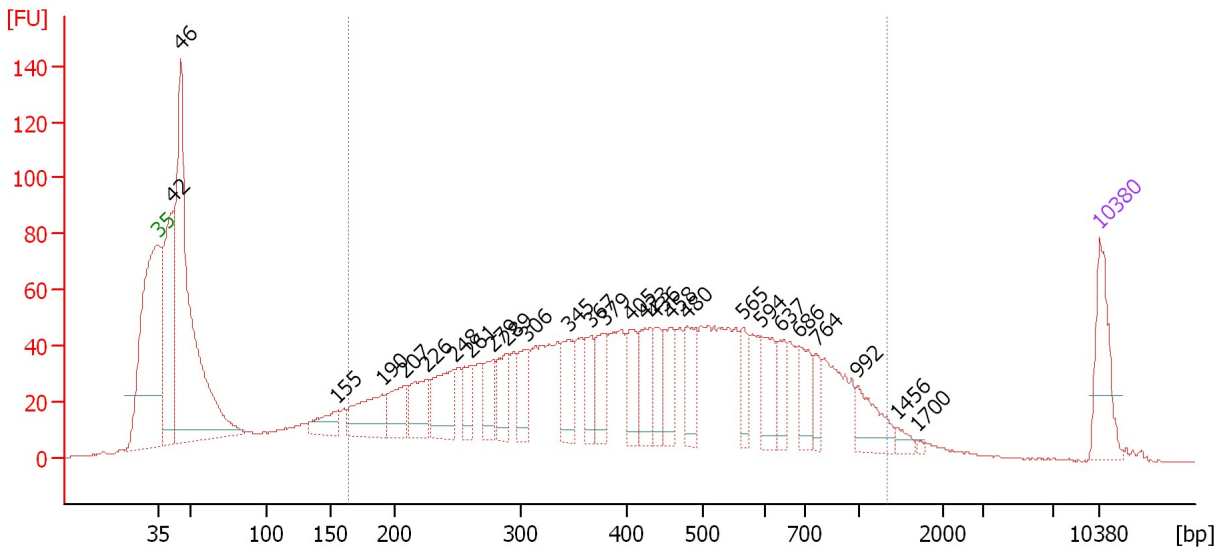
Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

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Electropherogram Summary

CMW53 Soni 1:4 [300bp (+2cyc)]



Overall Results for sample 1 : CMW53 Soni 1:4

Number of peaks found: 27 Corr. Area 1: 2,060.1
 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	42	356.90	12,870.4	
3	46	790.62	26,226.6	
4	155	49.89	486.8	
5	190	109.90	877.1	
6	207	72.87	532.5	
7	226	83.86	562.9	
8	248	102.93	629.6	
9	261	49.87	289.7	
10	279	57.85	314.6	
11	289	62.87	329.5	
12	306	54.94	271.8	
13	345	73.90	324.1	
14	367	52.25	215.8	
15	379	66.23	265.1	
16	405	62.20	232.6	
17	423	79.53	284.6	
18	436	48.44	168.2	
19	458	61.22	202.5	
20	480	64.52	203.7	
21	565	38.92	104.3	
22	594	62.14	158.4	
23	637	39.45	93.8	
24	686	51.22	113.1	
25	764	29.00	57.5	
26	992	56.40	86.1	

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Electropherogram Summary Continued ...

... Peak table for sample 1 : CMW53 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,456	11.48	11.9	
28	1,700	3.26	2.9	
29	10,380	75.00	10.9	Upper Marker

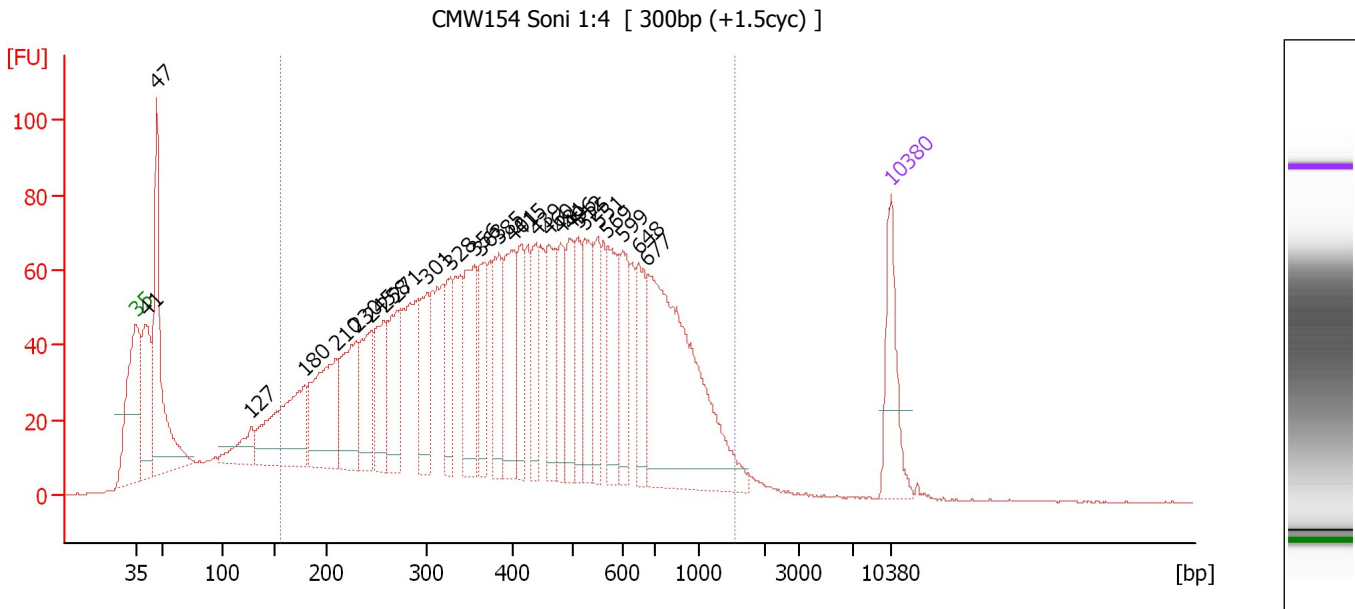
Region table for sample 1 : CMW53 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
164	1,338	461	12,219.3	2,771.75	2,060.1	68	47.0	■

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW154 Soni 1:4

Number of peaks found: 27 Corr. Area 1: 2,999.3
 Noise: 0.2

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	41	185.81	6,886.5	
3	47	344.74	11,096.7	
4	127	62.51	743.2	
5	180	218.95	1,847.8	
6	210	200.81	1,450.6	
7	230	149.43	984.6	
8	245	117.45	726.8	
9	258	109.84	646.0	
10	271	114.26	639.0	
11	301	94.52	476.1	
12	328	71.55	331.0	
13	356	141.70	602.9	
14	363	82.34	343.7	
15	385	96.12	378.6	
16	401	129.60	489.4	
17	415	75.95	277.1	
18	439	70.28	242.5	
19	460	98.56	324.4	
20	481	83.07	261.9	
21	496	78.90	240.8	
22	512	73.04	216.3	
23	525	90.18	260.1	
24	551	77.88	214.3	
25	569	90.40	240.5	
26	599	76.90	194.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 2 : CMW154 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	648	76.77	179.4	
28	677	404.28	905.3	
29	▶ 10,380	75.00	10.9	Upper Marker

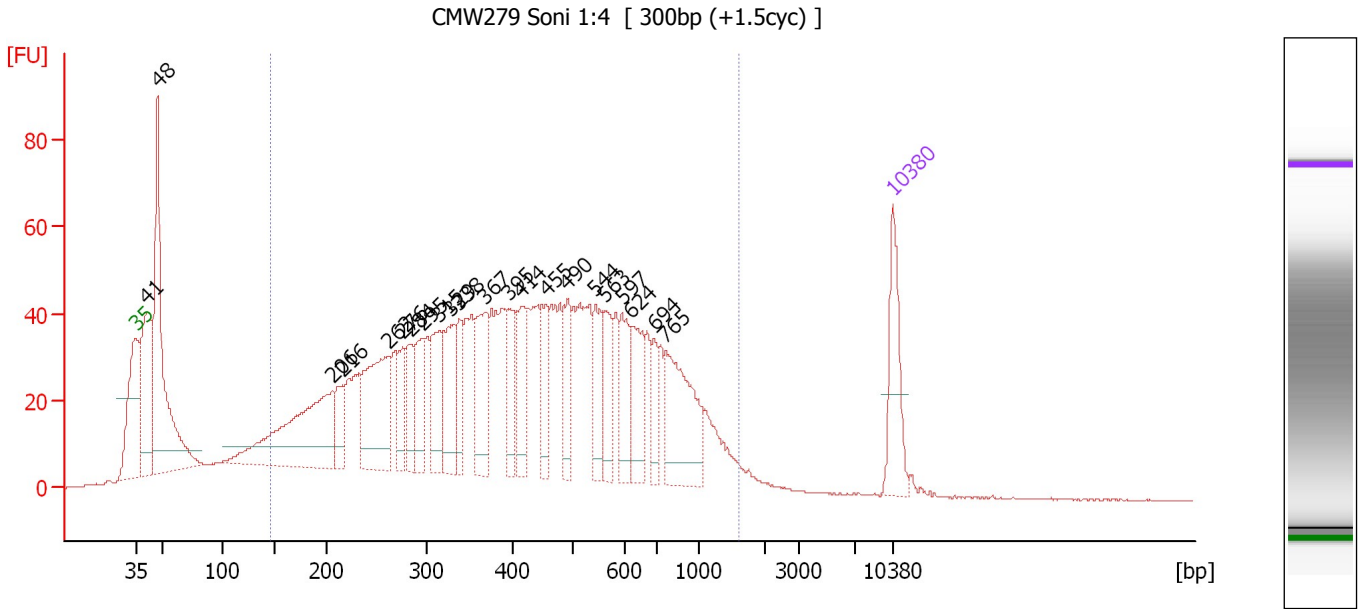
Region table for sample 2 : CMW154 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
156	1,542	468	17,318.0	3,887.08	2,999.3	82	49.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW279 Soni 1:4

Number of peaks found: 22 Corr. Area 1: 1,934.9
 Noise: 0.2


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	41	264.83	9,670.8	
3	48	456.20	14,499.2	
4	206	318.09	2,336.4	
5	216	55.07	386.6	
6	262	206.06	1,193.9	
7	276	57.99	318.5	
8	284	67.61	360.3	
9	295	72.65	373.2	
10	315	99.56	479.5	
11	329	113.29	521.9	
12	338	57.88	259.3	
13	367	114.01	470.2	
14	395	64.21	246.1	
15	414	72.15	264.3	
16	455	54.39	181.1	
17	490	57.96	179.1	
18	544	67.53	188.1	
19	563	64.32	173.1	
20	597	65.72	166.9	
21	624	80.46	195.2	
22	694	37.45	81.7	
23	765	153.99	304.8	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

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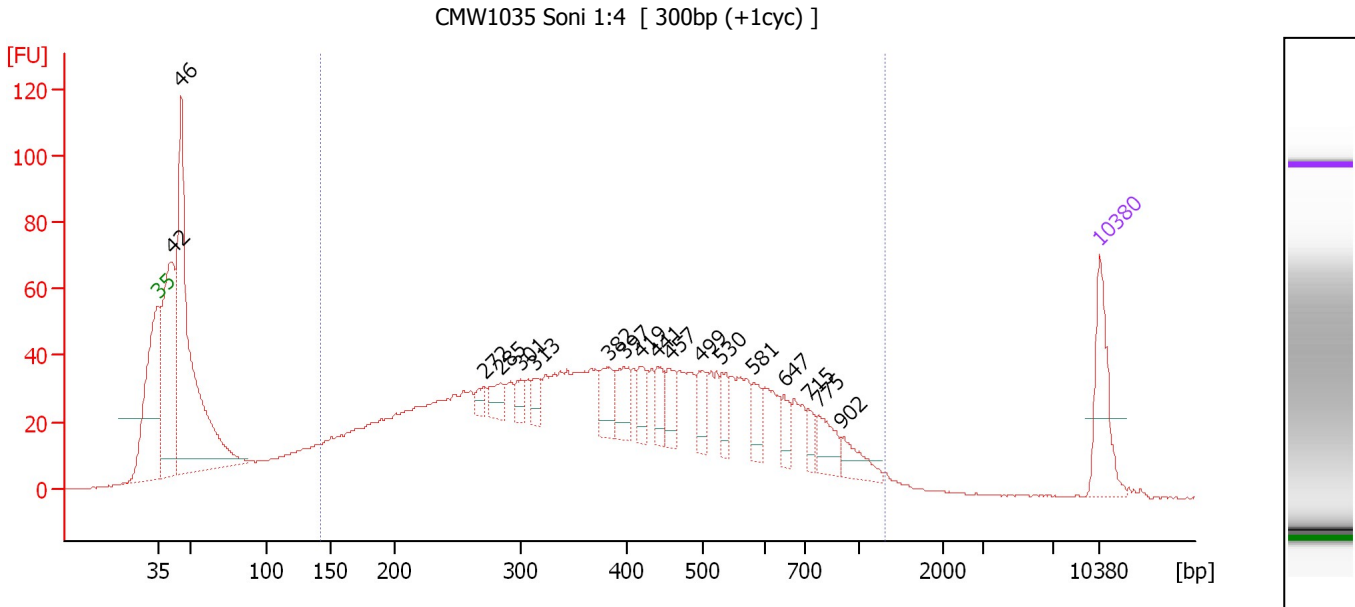
Electropherogram Summary Continued ...**... Region table for sample 3 : CMW279 Soni 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
146	1,590	463	15,223.8	3,341.27	1,934.9	80	51.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW1035 Soni 1:4

Number of peaks found: 18 Corr. Area 1: 1,715.7
 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	368.81	13,460.5	
3	46	688.48	22,748.1	
4	272	17.35	96.7	
5	285	32.82	174.6	
6	301	21.85	110.0	
7	313	25.43	123.0	
8	382	48.60	192.5	
9	397	48.90	186.4	
10	419	32.99	119.2	
11	441	37.69	129.6	
12	457	35.46	117.5	
13	499	33.54	101.9	
14	530	30.23	86.4	
15	581	29.97	78.2	
16	647	24.20	56.7	
17	715	18.44	39.1	
18	775	40.94	80.1	
19	902	33.14	55.7	
20	10,380	75.00	10.9	Upper Marker

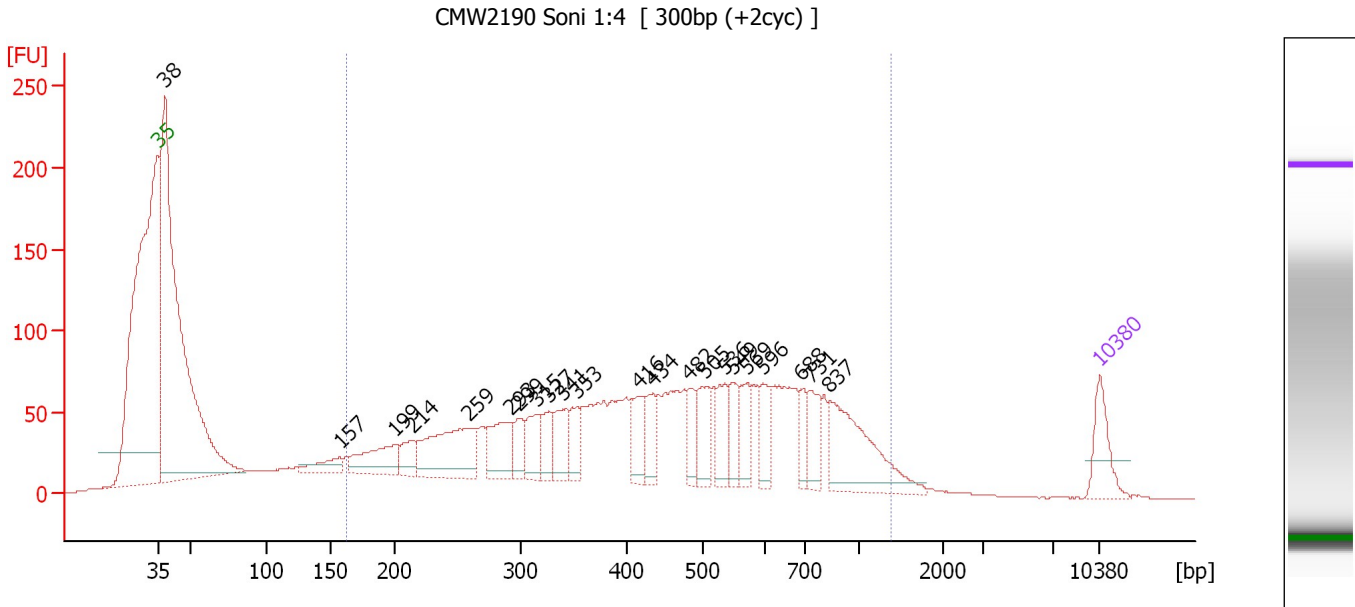
Region table for sample 4 : CMW1035 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
142	1,316	422	13,279.4	2,731.51	1,715.7	71	46.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW2190 Soni 1:4

Number of peaks found: 22 Corr. Area 1: 2,736.4
 Noise: 0.2

Peak table for sample 5 : CMW2190 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	1,878.45	74,005.4	
3	157	63.21	608.2	
4	199	145.32	1,104.2	
5	214	67.04	474.7	
6	259	280.05	1,636.0	
7	293	142.04	733.6	
8	299	58.54	296.3	
9	315	92.21	443.5	
10	327	78.55	364.0	
11	341	96.41	428.5	
12	353	67.82	291.2	
13	416	84.23	307.1	
14	434	85.44	298.0	
15	482	74.80	235.2	
16	505	98.58	295.7	
17	536	87.37	246.9	
18	549	69.04	190.6	
19	569	80.04	213.1	
20	596	77.25	196.4	
21	688	54.17	119.2	
22	731	79.79	165.5	
23	837	252.20	456.8	
24	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

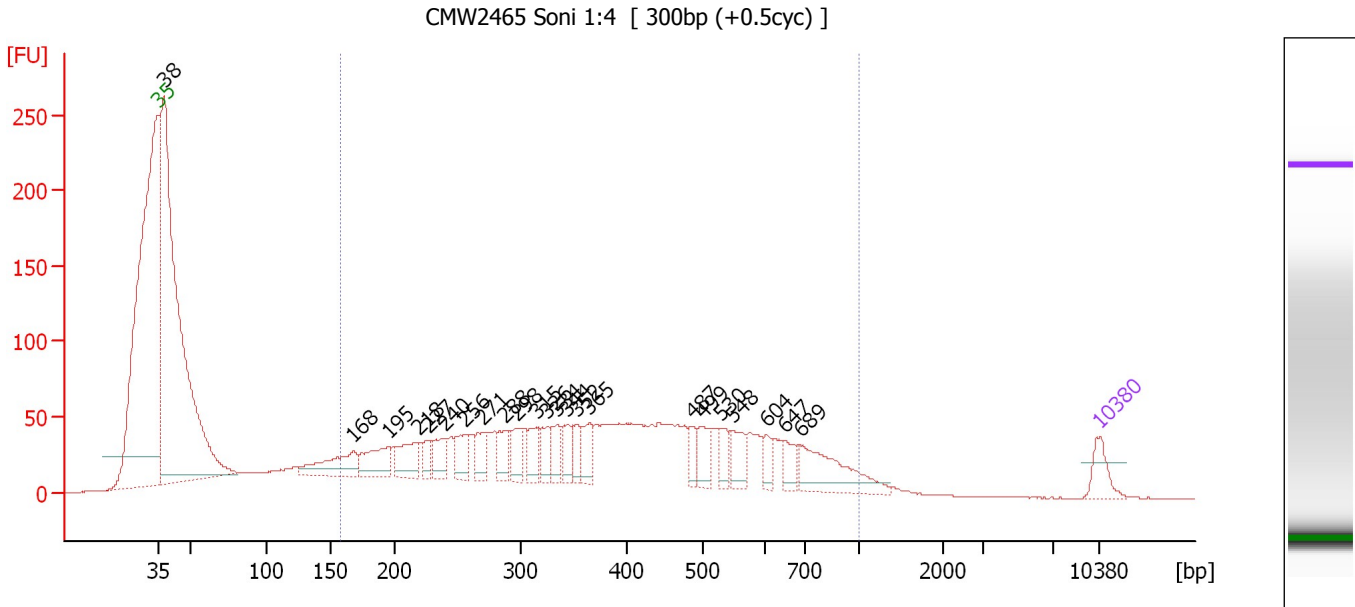
... Region table for sample 5 : CMW2190 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
162	1,383	486	15,472.6	3,628.34	2,736.4	66	47.5	■

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Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW2465 Soni 1:4

Number of peaks found: 23 Corr. Area 1: 2,088.8
 Noise: 0.2

Peak table for sample 6 : CMW2465 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	3,493.55	138,859.6	
3	168	239.87	2,165.8	
4	195	208.08	1,618.0	
5	218	185.46	1,287.4	
6	227	76.95	512.7	
7	240	107.54	679.7	
8	256	126.68	748.8	
9	271	105.57	590.7	
10	288	119.90	630.9	
11	298	109.49	557.4	
12	315	101.50	487.6	
13	326	82.51	383.5	
14	334	89.79	407.1	
15	344	95.51	420.5	
16	352	82.16	353.3	
17	365	111.56	463.3	
18	487	71.31	221.9	
19	499	108.18	328.2	
20	530	75.98	217.2	
21	548	113.89	314.8	
22	604	65.51	164.5	
23	647	73.44	171.9	
24	689	277.24	609.6	
25	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

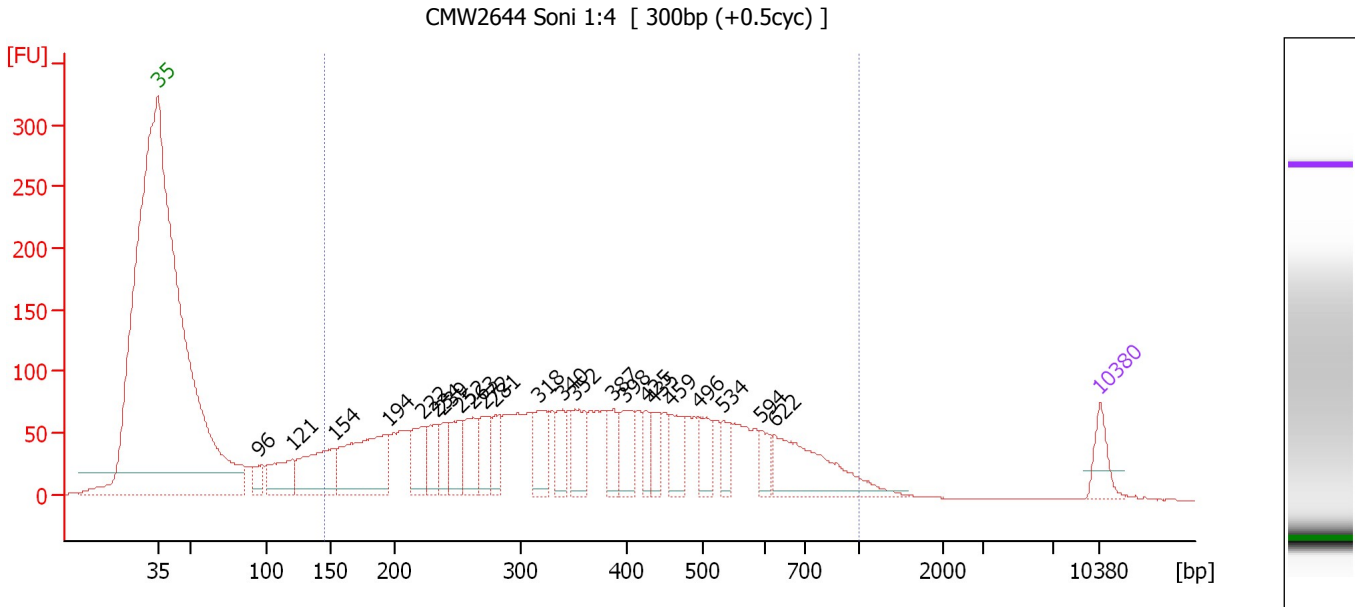
... Region table for sample 6 : CMW2465 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
157	1,000	411	24,137.2	5,027.31	2,088.8	59	42.5	■

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Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW2644 Soni 1:4

Number of peaks found: 23 Corr. Area 1: 3,119.5
 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	96	65.65	1,038.5	
3	121	204.16	2,563.9	
4	154	348.25	3,434.8	
5	194	493.58	3,846.3	
6	222	176.36	1,204.9	
7	234	141.17	913.4	
8	239	98.20	622.5	
9	252	150.05	902.2	
10	263	166.40	959.5	
11	272	144.27	803.8	
12	281	97.82	528.3	
13	318	160.25	764.4	
14	340	117.84	524.6	
15	352	156.54	674.4	
16	387	112.98	442.4	
17	398	146.67	558.8	
18	425	77.04	274.4	
19	435	81.39	283.4	
20	459	126.81	418.3	
21	496	103.53	316.2	
22	534	74.99	212.9	
23	594	66.32	169.3	
24	622	347.59	847.0	
25	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

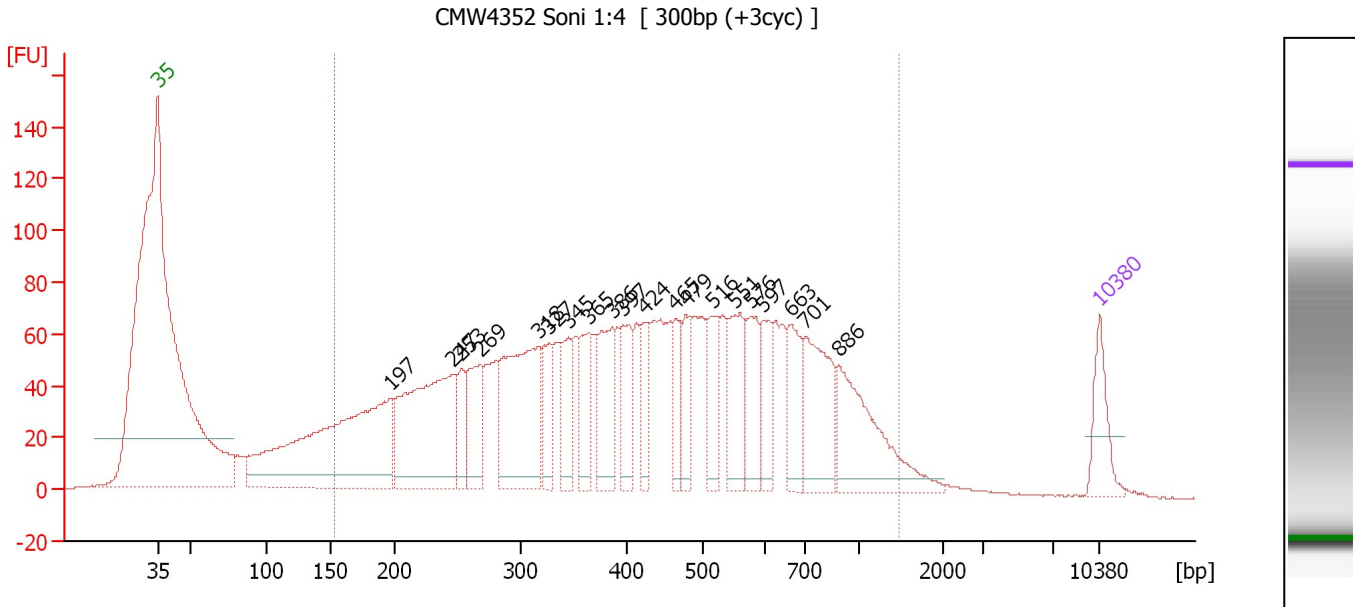
... Region table for sample 7 : CMW2644 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
146	1,000	391	23,340.0	4,602.37	3,119.5	89	43.1	■

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Electropherogram Summary Continued ...



Overall Results for sample 8 : CMW4352 Soni 1:4

Number of peaks found: 20 Corr. Area 1: 2,898.2
 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	197	782.12	6,021.8	
3	247	519.27	3,188.1	
4	253	88.43	529.0	
5	269	150.77	849.6	
6	318	392.58	1,871.9	
7	327	103.83	480.8	
8	345	109.37	479.7	
9	365	108.56	450.7	
10	386	162.25	636.2	
11	397	112.85	430.6	
12	424	87.64	312.8	
13	465	86.41	281.8	
14	479	80.48	254.6	
15	516	107.85	316.4	
16	551	154.21	424.4	
17	576	119.60	314.5	
18	597	88.38	224.1	
19	663	113.76	259.8	
20	701	213.99	462.4	
21	886	244.51	418.0	
22	10,380	75.00	10.9	Upper Marker

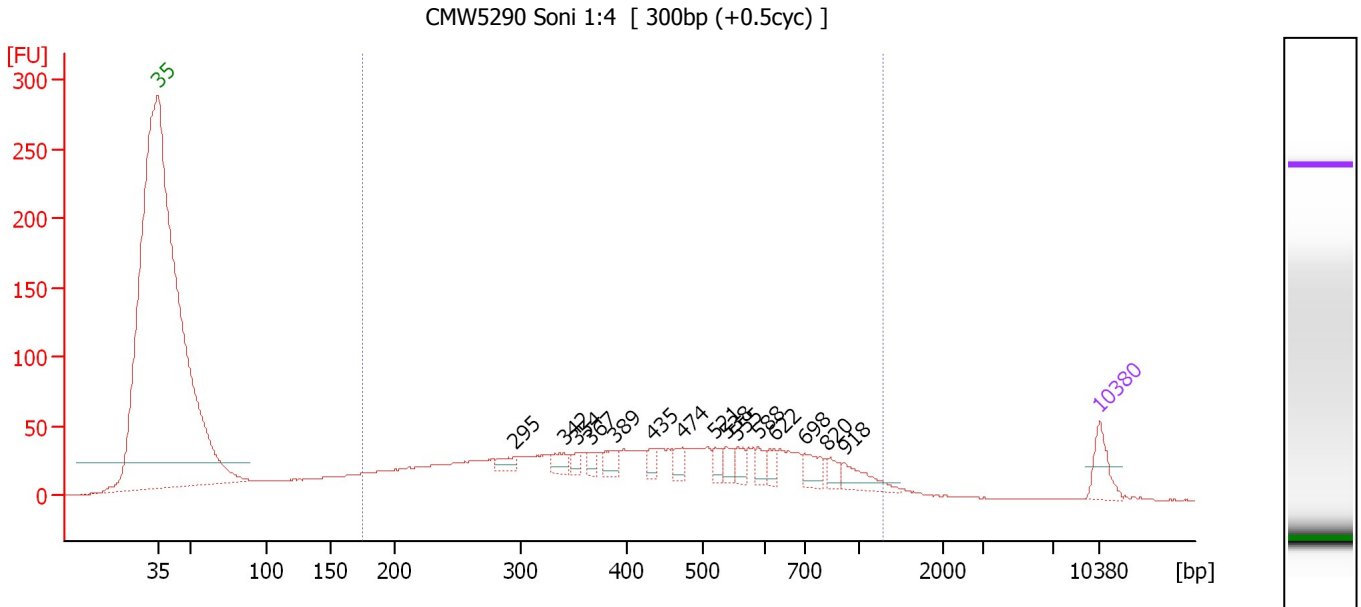
Region table for sample 8 : CMW4352 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
154	1,477	468	20,818.9	4,646.87	2,898.2	90	49.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

Created: 5/2/2014 7:36:50 AM
 Modified: 5/2/2014 8:20:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW5290 Soni 1:4

Number of peaks found: 15 Corr. Area 1: 1,472.1
 Noise: 0.2

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	295	44.93	230.7	
3	342	50.46	223.4	
4	354	31.30	134.1	
5	367	31.15	128.7	
6	389	52.38	204.1	
7	435	40.62	141.4	
8	474	45.06	144.1	
9	521	38.61	112.3	
10	538	46.04	129.7	
11	555	45.10	123.1	
12	588	41.06	105.8	
13	622	35.70	87.0	
14	698	66.97	145.4	
15	820	38.19	70.6	
16	918	78.55	129.6	
17	10,380	75.00	10.9	Upper Marker

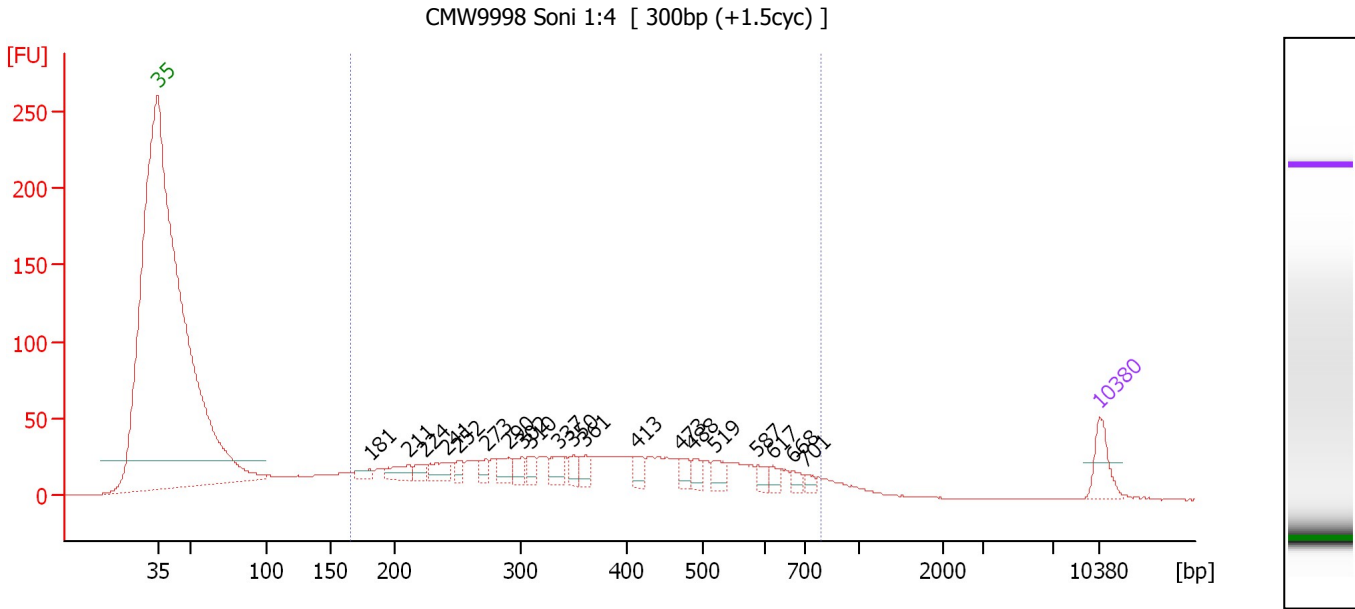
Region table for sample 9 : CMW5290 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
175	1,298	465	11,909.3	2,762.74	1,472.1	86	45.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

Created: 5/2/2014 7:36:50 AM
 Modified: 5/2/2014 8:20:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMW9998 Soni 1:4

Number of peaks found: 20 Corr. Area 1: 1,082.0
 Noise: 0.2

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	181	28.69	240.8	
3	211	63.84	458.6	
4	224	37.22	251.7	
5	241	65.29	409.8	
6	252	29.00	174.5	
7	273	38.37	212.6	
8	290	60.20	314.2	
9	302	45.48	228.1	
10	310	36.67	179.0	
11	337	62.56	281.3	
12	350	35.80	155.1	
13	361	43.20	181.6	
14	413	42.56	156.0	
15	473	35.61	114.1	
16	488	35.06	108.8	
17	519	44.81	130.7	
18	587	29.49	76.1	
19	617	29.35	72.1	
20	668	24.44	55.4	
21	701	20.44	44.2	
22	10,380	75.00	10.9	Upper Marker

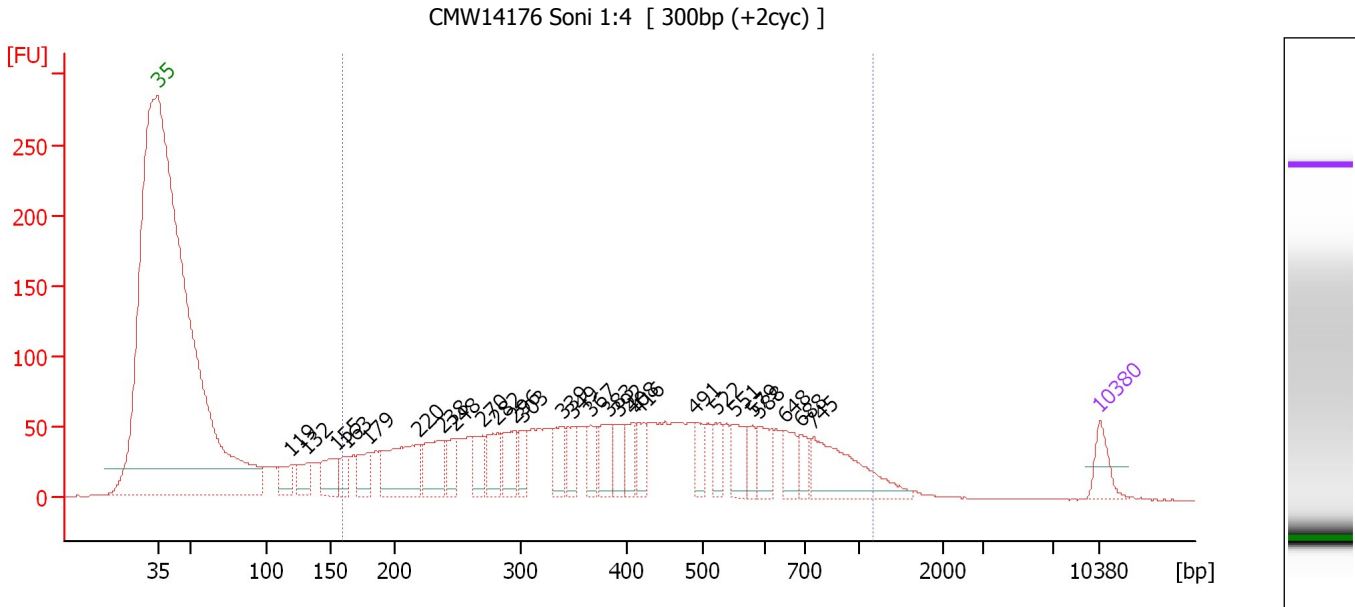
Region table for sample 10 : CMW9998 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
166	786	384	10,648.3	2,186.61	1,082.0	83	37.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

Created: 5/2/2014 7:36:50 AM
 Modified: 5/2/2014 8:20:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMW14176 Soni 1:4

Number of peaks found: 27 Corr. Area 1: 2,317.0
 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	119	111.97	1,420.4	
3	132	115.82	1,327.7	
4	155	158.50	1,549.5	
5	163	76.68	713.1	
6	179	114.88	970.3	
7	220	377.44	2,602.2	
8	238	212.75	1,352.3	
9	248	94.85	580.3	
10	270	122.13	685.1	
11	282	157.04	843.4	
12	296	136.11	695.9	
13	303	96.10	481.0	
14	339	119.38	533.3	
15	349	98.34	426.4	
16	367	89.67	370.6	
17	383	131.67	521.4	
18	392	92.60	357.7	
19	408	97.57	362.3	
20	416	97.90	356.4	
21	491	75.22	231.9	
22	522	88.70	257.3	
23	551	129.51	355.8	
24	579	63.82	167.1	
25	588	104.47	269.1	
26	648	105.75	247.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad


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 Modified: 5/2/2014 8:20:22 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : CMW14176 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	688	66.65	146.9	
28	745	332.22	675.6	
29	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
160	1,180	435	20,943.9	4,511.27	2,317.0	88	45.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

Created: 5/2/2014 7:36:50 AM
Modified: 5/2/2014 8:20:22 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-02\2014-05-02_001.xad

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Modified: 5/2/2014 8:20:22 AM

Curves

Standard Curve

