

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-03\2014-05-03_005.xad

Created: 5/3/2014 1:30:54 PM
Modified: 5/5/2014 7:08:58 AM

Electrophoresis File Run Summary

Instrument Information:

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

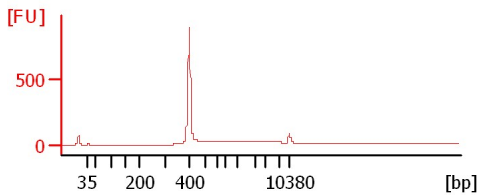
Assay Information:

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

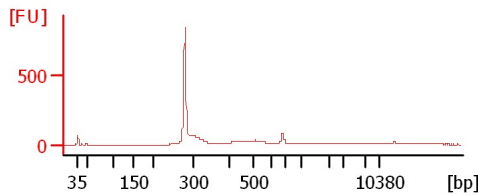
Chip Information:

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

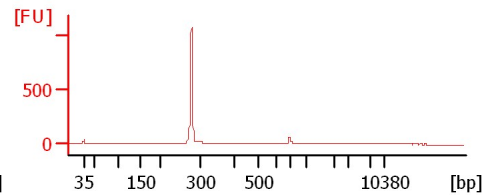
MBQC V4 1:15



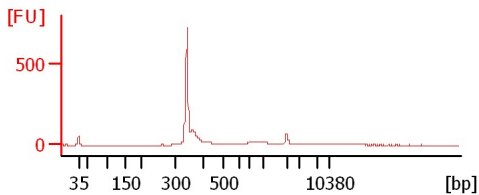
Hulling V4 2013 1:15



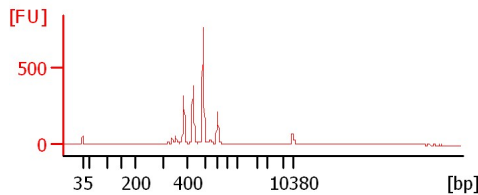
Orchard V4 9/10 1:10



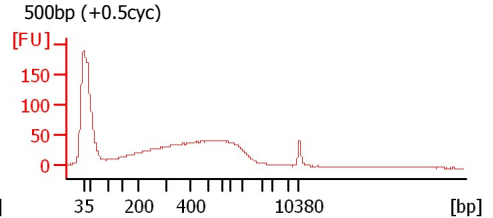
Nicks Last V4 1:15



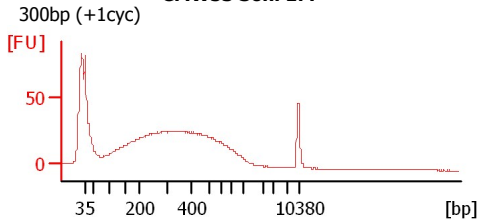
Nicks Last BITS Run 1:10



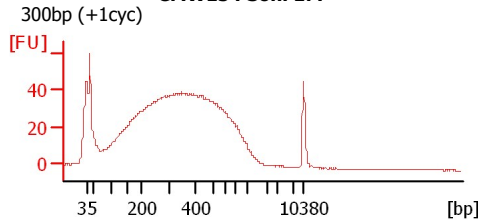
CMW2465 Soni 1:4



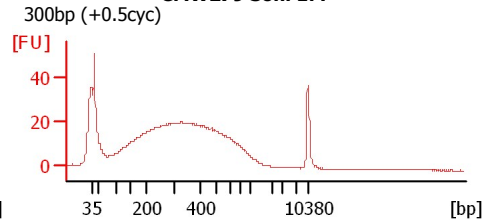
CMW53 Soni 1:4



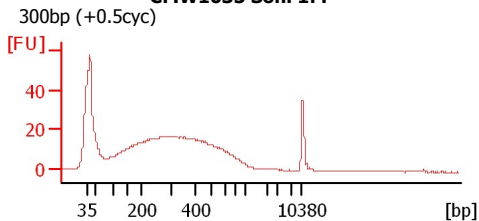
CMW154 Soni 1:4



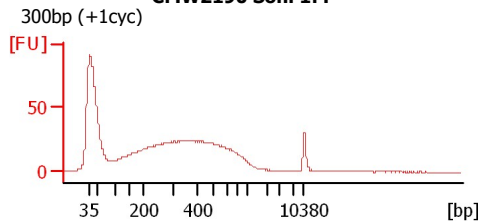
CMW279 Soni 1:4



CMW1035 Soni 1:4



CMW2190 Soni 1:4



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MBQC V4 1:15		<input type="checkbox"/>	✓			
Hulling V4 2013 1:15		<input type="checkbox"/>	✓			
Orchard V4 9/10 1:10		<input type="checkbox"/>	✓			
Nicks Last V4 1:15		<input type="checkbox"/>	✓			
Nicks Last BITS Run 1:10		<input type="checkbox"/>	✓			
CMW2465 Soni 1:4	500bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW53 Soni 1:4	300bp (+1cyc)	<input type="checkbox"/>	✓			
CMW154 Soni 1:4	300bp (+1cyc)	<input type="checkbox"/>	✓			
CMW279 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW1035 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW2190 Soni 1:4	300bp (+1cyc)	<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

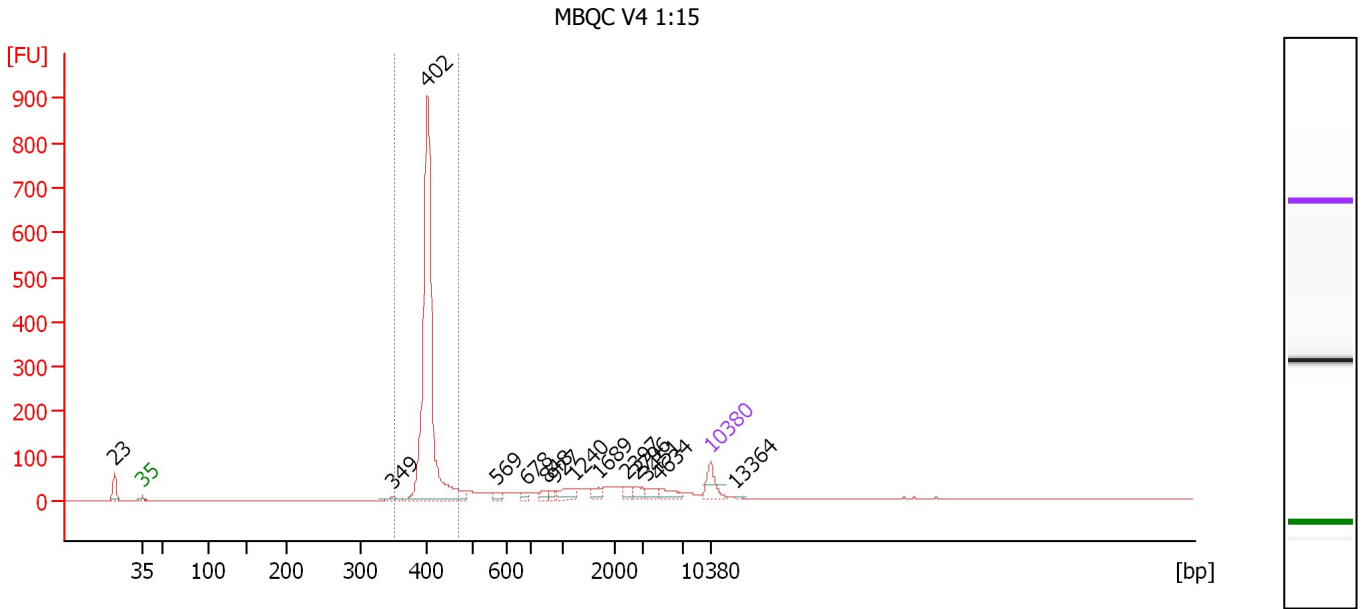
Ladder

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



Overall Results for sample 1 : MBQC V4 1:15

Number of peaks found: 14 Corr. Area 1: 1,273.2
 Noise: 0.2

Peak table for sample 1 : MBQC V4 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	23	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	349	18.56	80.7	
4	402	1,580.89	5,953.2	
5	569	23.38	62.3	
6	678	20.57	46.0	
7	848	25.01	44.7	
8	927	19.38	31.7	
9	1,240	56.46	69.0	
10	1,689	32.28	29.0	
11	2,397	27.39	17.3	
12	2,796	31.74	17.2	
13	3,451	30.39	13.3	
14	4,634	46.81	15.3	
15	10,380	75.00	10.9	Upper Marker
16	13,364	0.00	0.0	

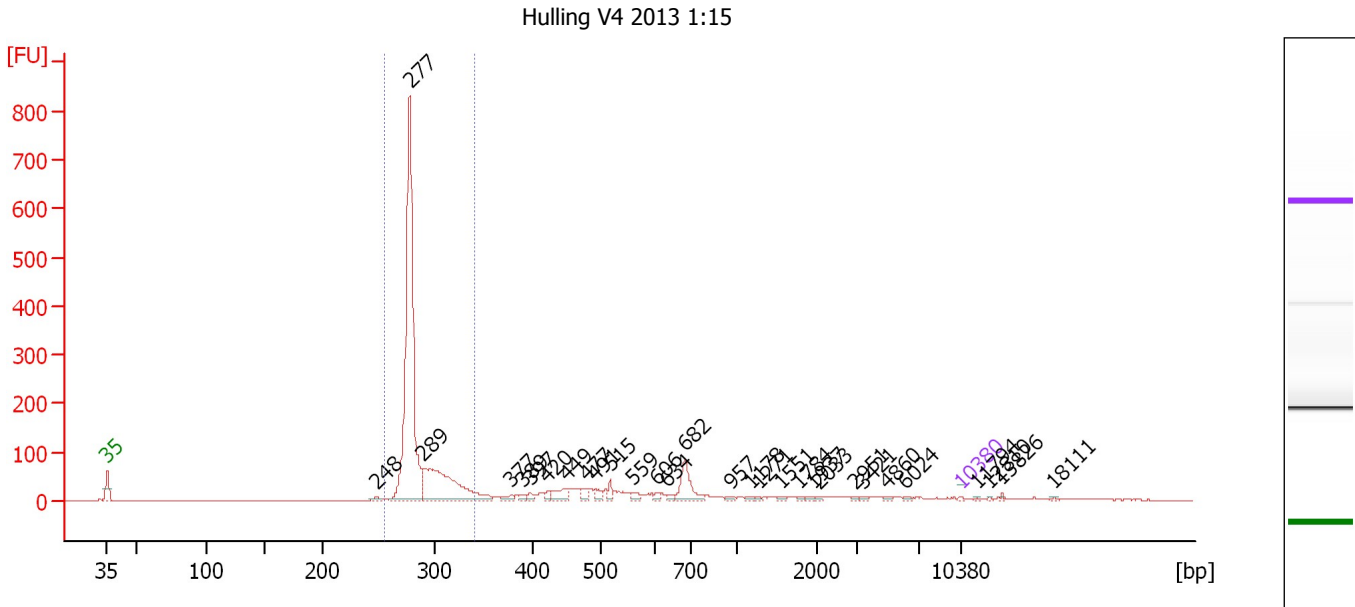
Region table for sample 1 : MBQC V4 1:15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
350	471	405	5,772.6	1,542.88	1,273.2	63	3.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Hulling V4 2013 1:15

Number of peaks found: 30 Corr. Area 1: 1,353.9
 Noise: 1.1

Peak table for sample 2 : Hulling V4 2013 1:15


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	353.54	2,159.2	
3	277	37,676.00	205,847.1	
4	289	13,420.63	70,450.3	
5	377	485.73	1,951.3	
6	389	388.69	1,515.6	
7	397	424.73	1,622.0	
8	420	474.14	1,708.9	
9	449	1,430.48	4,831.2	
10	477	677.39	2,152.3	
11	491	626.89	1,934.6	
12	515	650.51	1,912.4	
13	559	472.17	1,279.6	
14	606	300.31	751.3	
15	634	305.75	730.7	
16	682	2,950.47	6,558.0	
17	957	188.98	299.1	
18	1,178	141.43	181.9	
19	1,271	105.39	125.6	
20	1,551	147.92	144.5	
21	1,784	167.11	142.0	
22	1,937	169.78	132.8	
23	2,033	112.49	83.8	
24	2,951	119.46	61.3	
25	3,421	113.11	50.1	
26	4,860	123.05	38.4	

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Electropherogram Summary Continued ...

... Peak table for sample 2 : Hulling V4 2013 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,024	101.31	25.5	
28	 10,380	75.00	10.9	Upper Marker
29	11,794	0.00	0.0	
30	12,810	0.00	0.0	
31	13,826	0.00	0.0	
32	18,111	0.00	0.0	

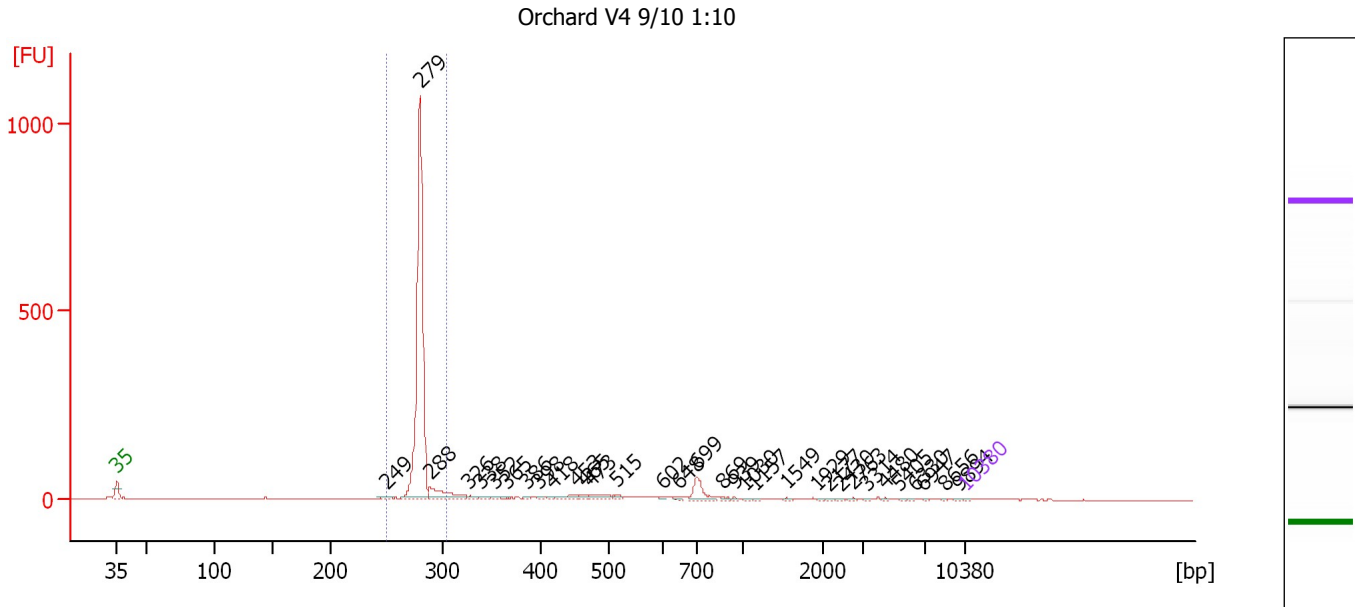
Region table for sample 2 : Hulling V4 2013 1:15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
256	340	285	264,206.0	49,463.71	1,353.9	66	5.4	

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Orchard V4 9/10 1:10

Number of peaks found: 33 Corr. Area 1: 1,161.5
 Noise: 0.8

Peak table for sample 3 : Orchard V4 9/10 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	249	462.18	2,815.7	
3	279	39,901.00	216,766.3	
4	288	3,626.26	19,086.5	
5	326	379.04	1,763.2	
6	338	297.77	1,336.0	
7	352	219.97	945.8	
8	365	146.79	608.6	
9	386	181.32	711.5	
10	398	179.88	684.6	
11	418	210.18	762.5	
12	453	831.39	2,781.0	
13	465	418.17	1,363.3	
14	473	1,013.66	3,244.5	
15	515	377.50	1,110.7	
16	602	164.71	414.4	
17	648	212.90	497.5	
18	699	2,124.24	4,604.0	
19	869	171.57	299.1	
20	939	110.28	178.0	
21	1,030	142.28	209.3	
22	1,157	82.87	108.6	
23	1,549	139.02	136.0	
24	1,929	101.86	80.0	
25	2,177	95.71	66.6	
26	2,430	117.27	73.1	

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Electropherogram Summary Continued ...

... Peak table for sample 3 : Orchard V4 9/10 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	2,763	126.42	69.3	
28	3,314	80.47	36.8	
29	4,480	91.93	31.1	
30	5,405	81.99	23.0	
31	6,330	96.80	23.2	
32	6,947	79.81	17.4	
33	8,656	73.40	12.8	
34	9,894	89.17	13.7	
35	▶ 10,380	75.00	10.9	Upper Marker

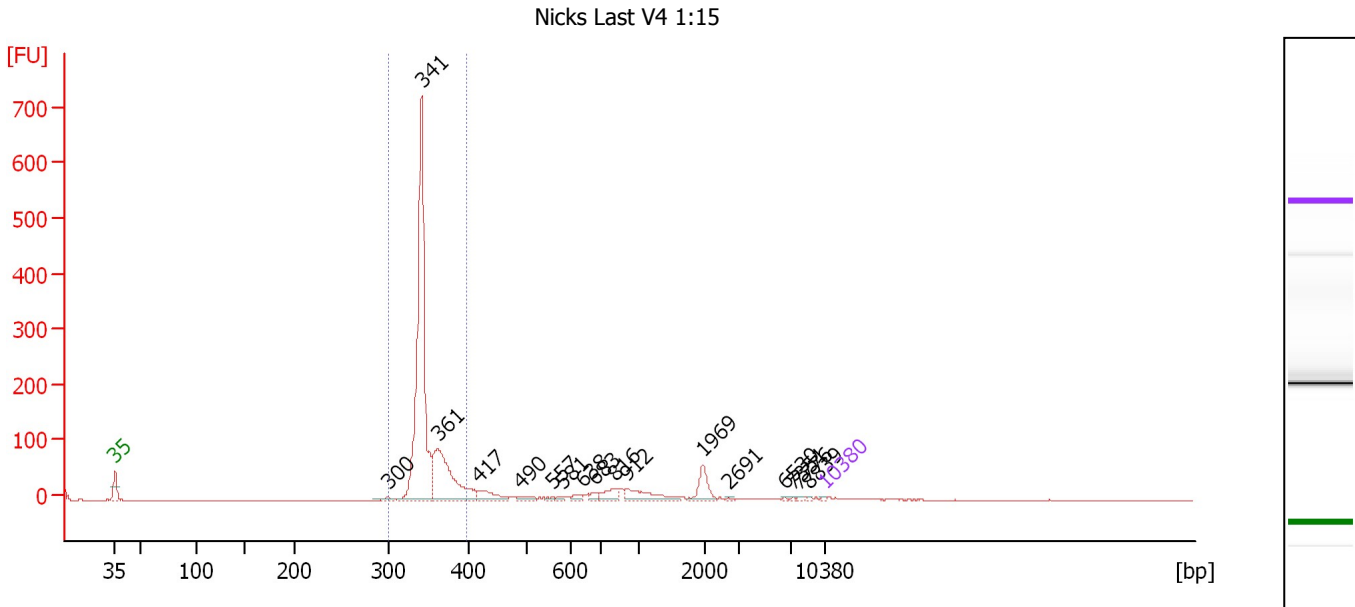
Region table for sample 3 : Orchard V4 9/10 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
249	303	279	230,398.6	42,456.10	1,161.5	70	1.9	

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



Overall Results for sample 4 : Nicks Last V4 1:15

Number of peaks found: 17 Corr. Area 1: 1,119.3
 Noise: 0.4

Peak table for sample 4 : Nicks Last V4 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	300	331.47	1,674.5	
3	341	28,136.21	124,971.4	
4	361	9,745.40	40,930.8	
5	417	1,681.40	6,109.5	
6	490	575.02	1,779.4	
7	557	179.55	488.1	
8	581	189.64	494.3	
9	638	457.15	1,085.3	
10	683	430.86	955.8	
11	816	1,150.16	2,136.5	
12	912	2,077.89	3,451.0	
13	1,969	1,629.53	1,253.8	
14	2,691	83.52	47.0	
15	6,530	78.57	18.2	
16	7,351	79.28	16.3	
17	7,776	84.29	16.4	
18	8,839	75.37	12.9	
19	10,380	75.00	10.9	Upper Marker

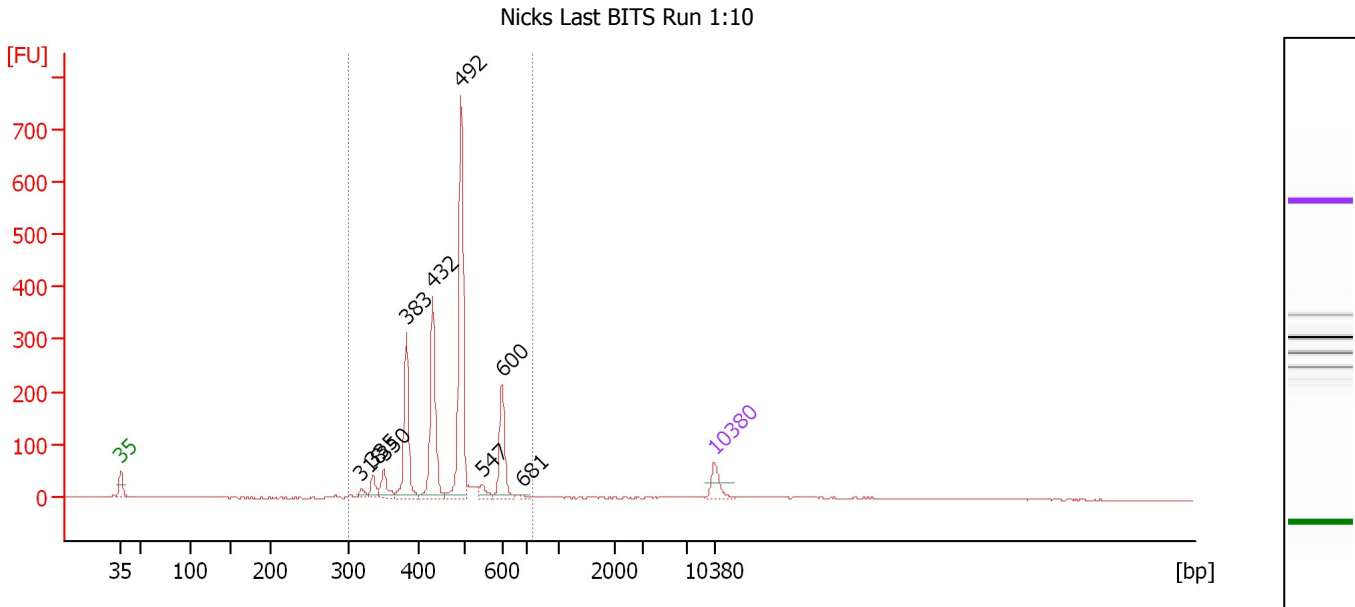
Region table for sample 4 : Nicks Last V4 1:15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	396	347	160,732.7	36,812.55	1,119.3	70	4.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : Nicks Last BITS Run 1:10

Number of peaks found: 9 Corr. Area 1: 1,541.7
 Noise: 0.7

Peak table for sample 5 : Nicks Last BITS Run 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	318	31.63	150.9	
3	335	61.97	280.5	
4	350	99.29	429.4	
5	383	395.92	1,565.5	
6	432	508.10	1,781.5	
7	492	864.80	2,663.9	
8	547	45.12	125.0	
9	600	243.17	614.4	
10	681	8.04	17.9	
11	10,380	75.00	10.9	Upper Marker

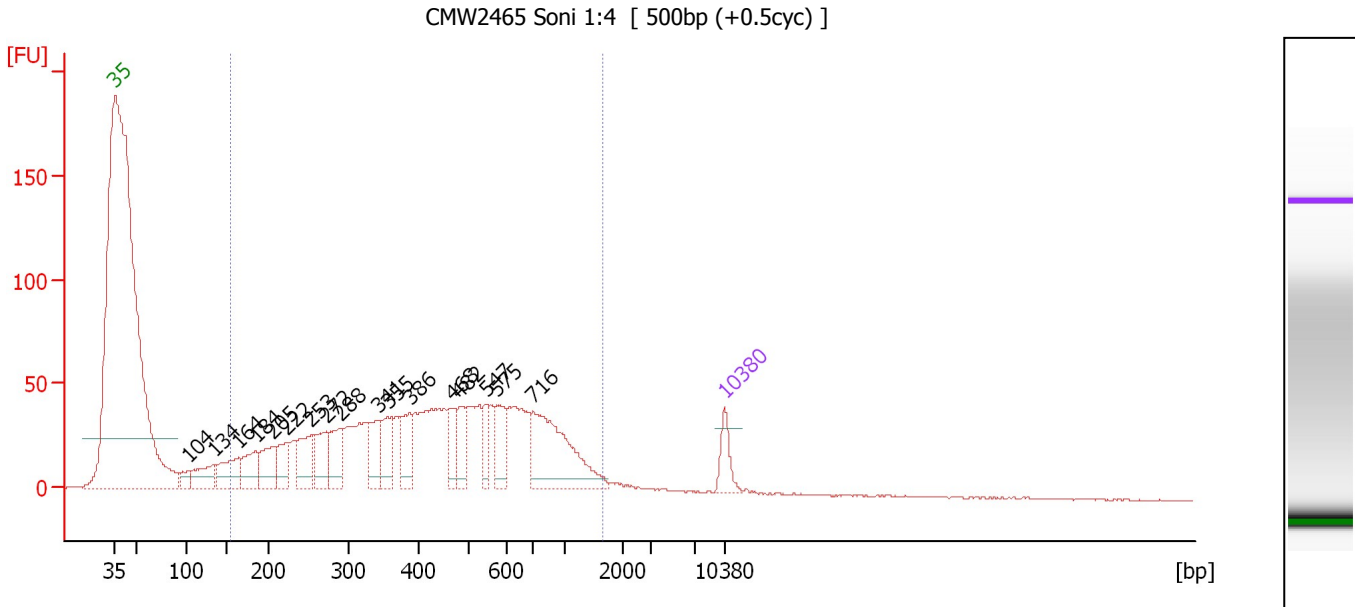
Region table for sample 5 : Nicks Last BITS Run 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
300	760	468	7,803.2	2,329.47	1,541.7	90	16.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW2465 Soni 1:4

Number of peaks found: 17 Corr. Area 1: 1,654.2
 Noise: 0.4

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	104	65.93	963.1	
3	134	165.99	1,876.6	
4	164	200.62	1,852.1	
5	184	177.64	1,458.9	
6	205	181.27	1,339.5	
7	222	144.44	987.8	
8	253	213.69	1,281.7	
9	272	187.01	1,042.7	
10	288	184.26	968.4	
11	341	151.06	672.0	
12	355	160.52	685.0	
13	386	149.40	586.0	
14	468	114.97	372.1	
15	482	130.23	409.0	
16	547	88.77	245.8	
17	575	135.69	357.5	
18	716	483.83	1,024.1	
19	10,380	75.00	10.9	Upper Marker

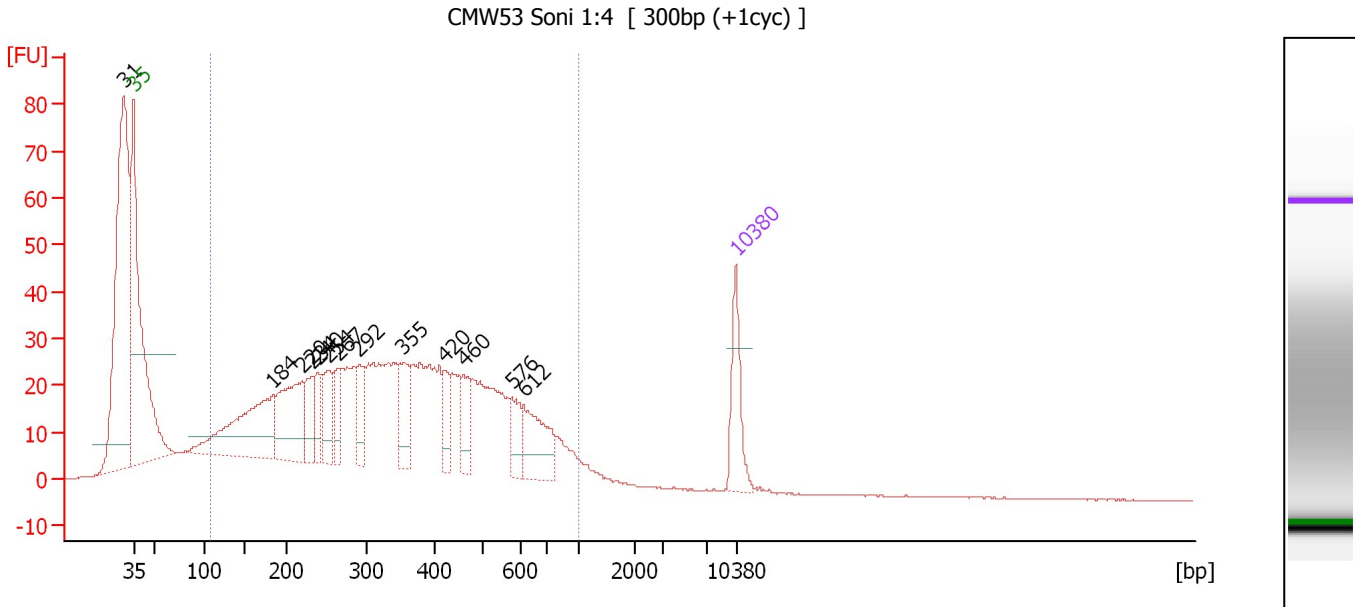
Region table for sample 6 : CMW2465 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
153	1,662	492	19,486.8	4,456.97	1,654.2	91	53.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW53 Soni 1:4

Number of peaks found: 13 Corr. Area 1: 1,118.4
 Noise: 0.1

Peak table for sample 7 : CMW53 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	184	318.40	2,626.2	
4	220	215.93	1,483.9	
5	234	73.93	479.1	
6	240	58.76	371.2	
7	254	90.13	538.0	
8	267	58.91	334.9	
9	292	72.23	374.9	
10	355	86.65	370.3	
11	420	49.21	177.5	
12	460	52.81	174.0	
13	576	49.51	130.3	
14	612	104.55	258.7	
15	10,380	75.00	10.9	Upper Marker

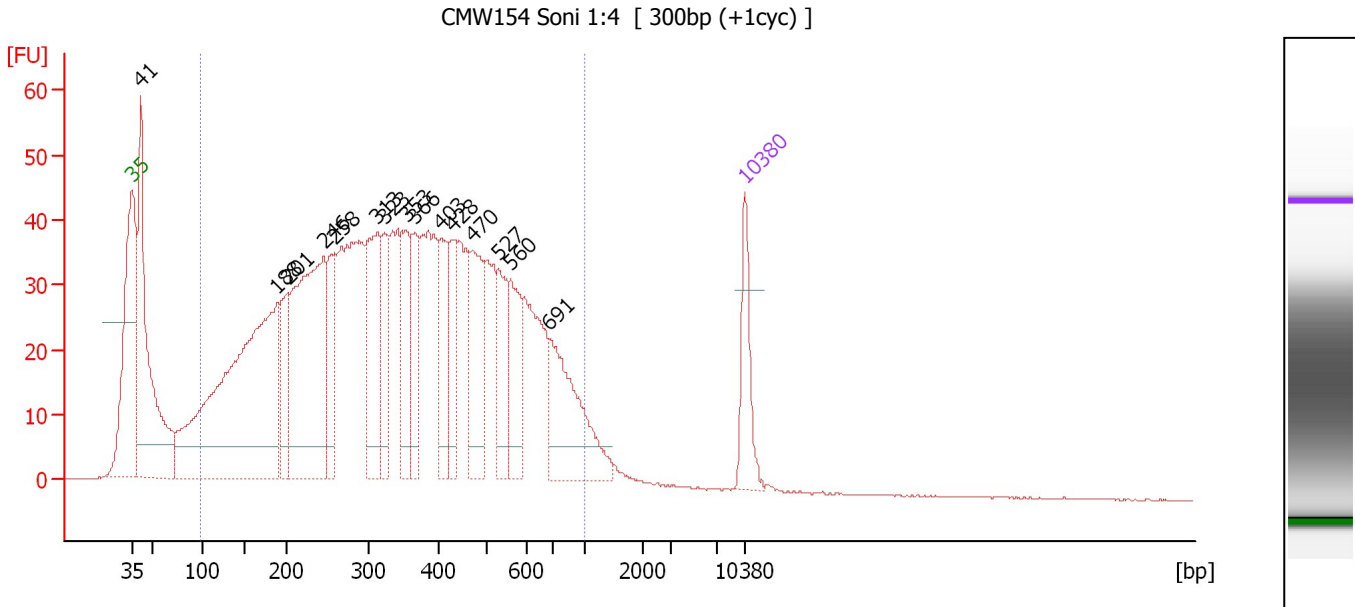
Region table for sample 7 : CMW53 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
110	1,000	368	15,877.3	2,786.27	1,118.4	75	46.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : CMW154 Soni 1:4

Number of peaks found: 15 Corr. Area 1: 1,742.7
 Noise: 0.1

Peak table for sample 8 : 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	603.15	22,252.8	
3	188	943.96	7,592.5	
4	201	142.18	1,071.4	
5	246	554.13	3,417.6	
6	258	125.75	738.1	
7	313	223.92	1,084.0	
8	323	110.73	519.7	
9	353	126.58	543.2	
10	366	107.89	446.7	
11	403	117.01	439.6	
12	428	89.28	315.8	
13	470	157.28	507.2	
14	527	104.80	301.5	
15	560	110.65	299.4	
16	691	204.35	448.0	
17	10,380	75.00	10.9	Upper Marker

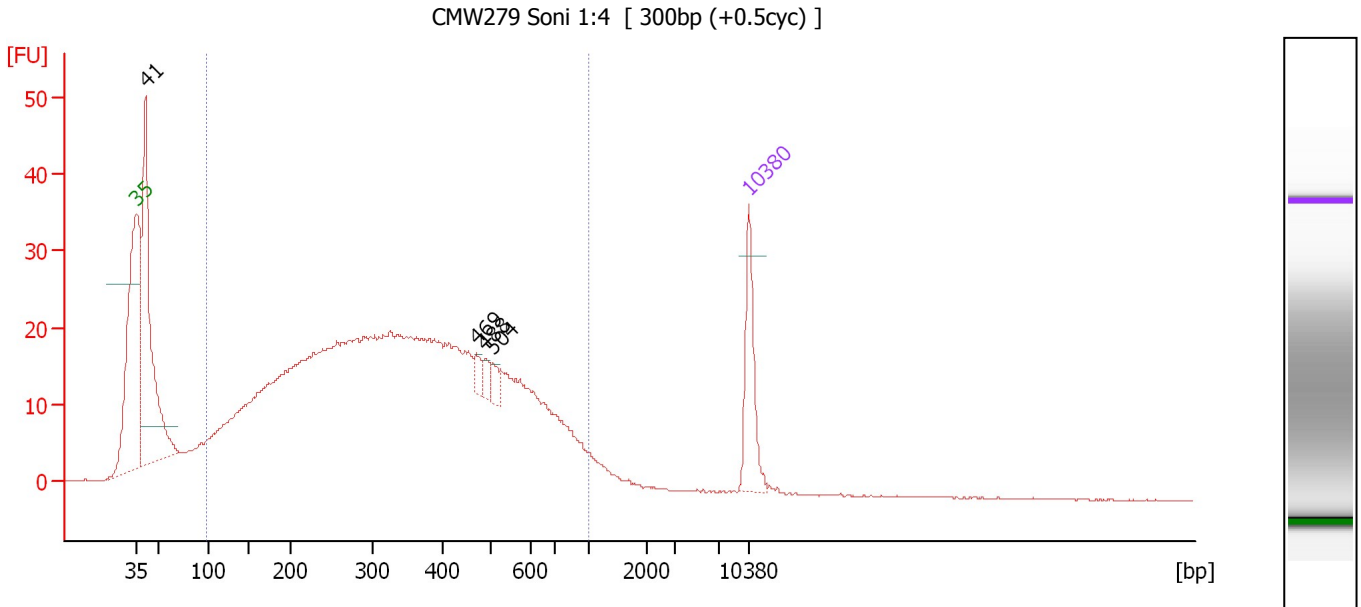
Region table for sample 8 : CMW154 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
98	1,000	374	26,702.6	4,639.88	1,742.7	87	47.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW279 Soni 1:4

Number of peaks found: 4 Corr. Area 1: 856.4
Noise: 0.1

Peak table for sample 9 : 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	504.25	18,596.8	
3	469	16.19	52.3	
4	488	13.55	42.1	
5	504	17.35	52.1	
6	10,380	75.00	10.9	Upper Marker

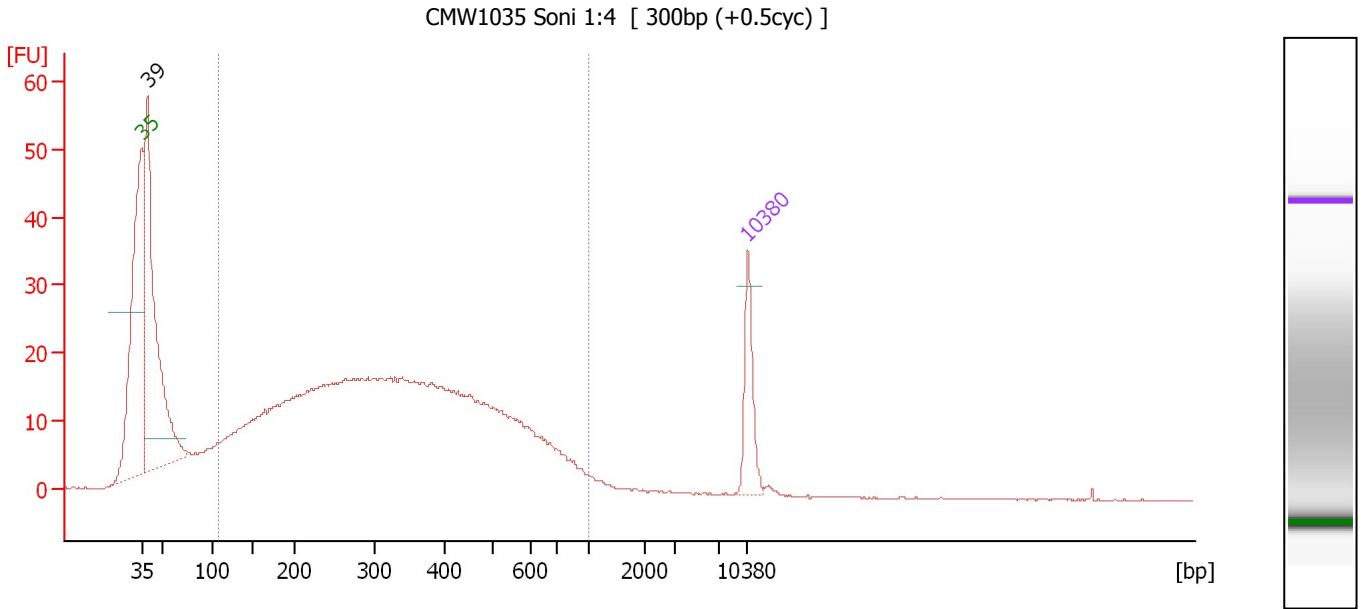
Region table for sample 9 : CMW279 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
100	1,000	365	16,770.1	2,885.51	856.4	82	46.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-03\2014-05-03_005.xad

Created: 5/3/2014 1:30:54 PM
 Modified: 5/5/2014 7:08:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMW1035 Soni 1:4

Number of peaks found: 1 Corr. Area 1: 703.8
 Noise: 0.1

Peak table for sample 10 : CMW1035 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	818.19	31,606.3	
3	10,380	75.00	10.9	Upper Marker

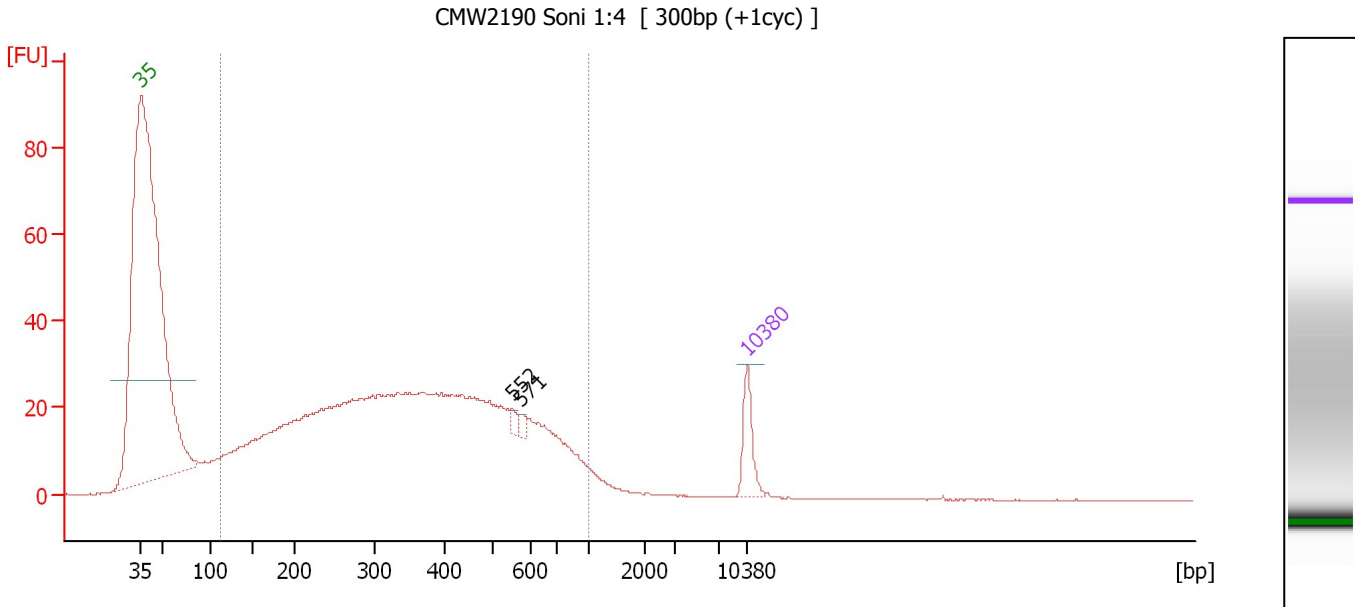
Region table for sample 10 : CMW1035 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
109	1,000	351	15,196.2	2,572.32	703.8	73	46.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-03\2014-05-03_005.xad

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 Modified: 5/5/2014 7:08:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMW2190 Soni 1:4

Number of peaks found: 2 Corr. Area 1: 1,018.9
 Noise: 0.1

Peak table for sample 11 : CMW2190 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	552	15.42	42.4	
3	571	15.26	40.5	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 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
112	1,000	379	21,178.2	3,827.45	1,018.9	94	45.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-03\2014-05-03_005.xad

Created: 5/3/2014 1:30:54 PM
Modified: 5/5/2014 7:08:58 AM

Gel Image