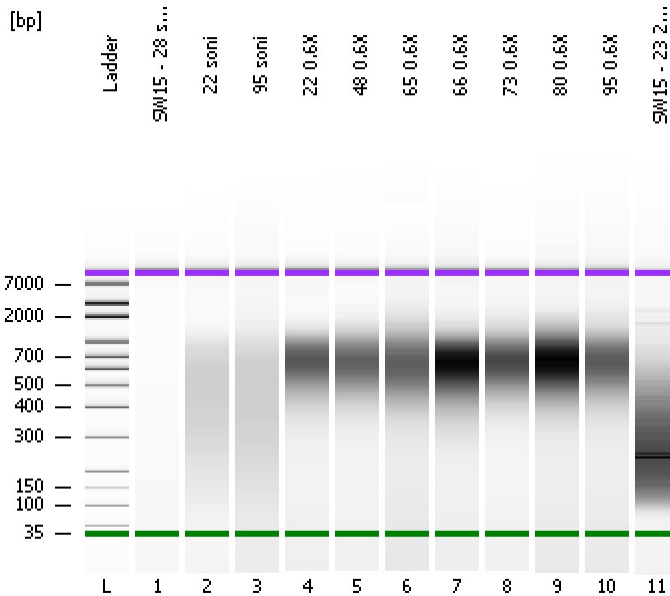


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
Modified: 7/22/2015 9:54:41 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

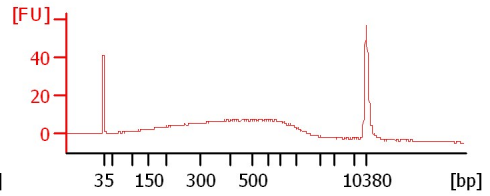
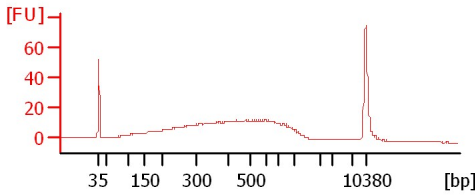
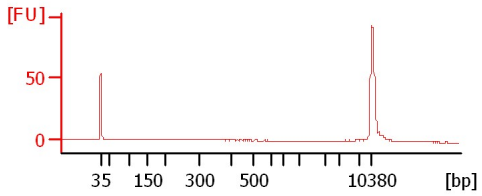
Chip Information:

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

SW15 - 28 soni

22 soni

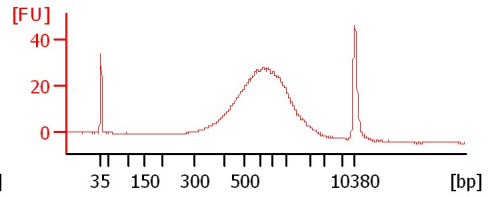
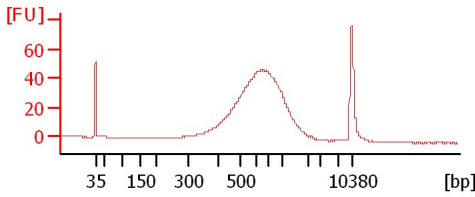
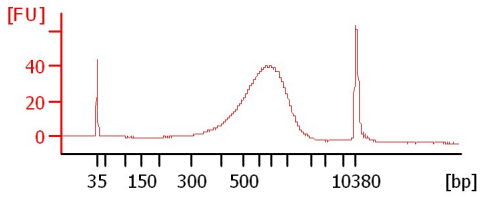
95 soni



22 0.6X

48 0.6X

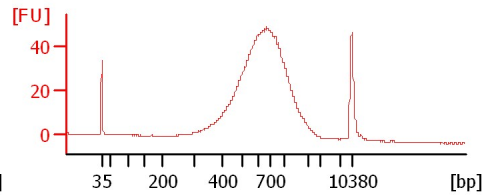
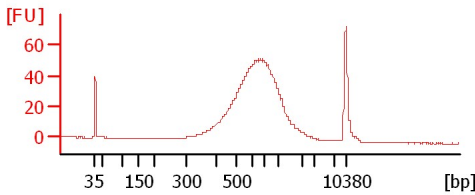
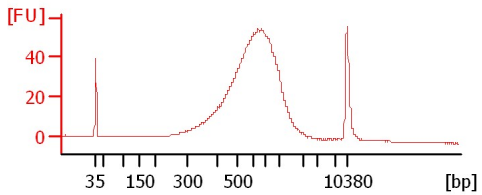
65 0.6X



66 0.6X

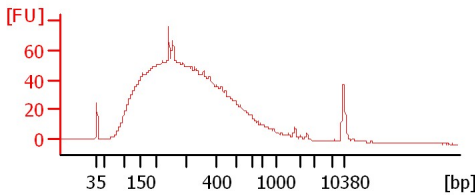
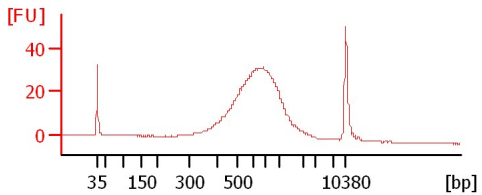
73 0.6X

80 0.6X



95 0.6X

SW15 - 23 2x cleanup



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
Modified: 7/22/2015 9:54:41 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SW15 - 28 soni		<input type="checkbox"/>	✓			
22 soni		<input type="checkbox"/>	✓			
95 soni		<input type="checkbox"/>	✓			
22 0.6X		<input type="checkbox"/>	✓			
48 0.6X		<input type="checkbox"/>	✓			
65 0.6X		<input type="checkbox"/>	✓			
66 0.6X		<input type="checkbox"/>	✓			
73 0.6X		<input type="checkbox"/>	✓			
80 0.6X		<input type="checkbox"/>	✓			
95 0.6X		<input type="checkbox"/>	✓			
SW15 - 23 2x cleanup		<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\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
Modified: 7/22/2015 9:54:41 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/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

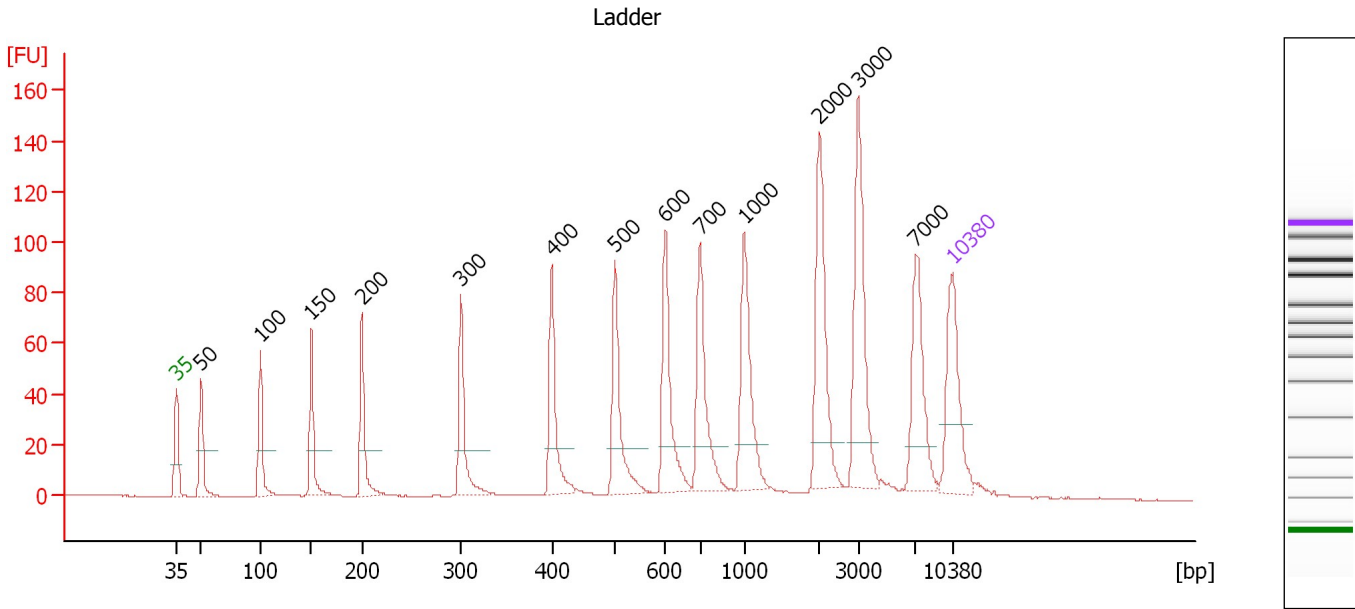
Ladder

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\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

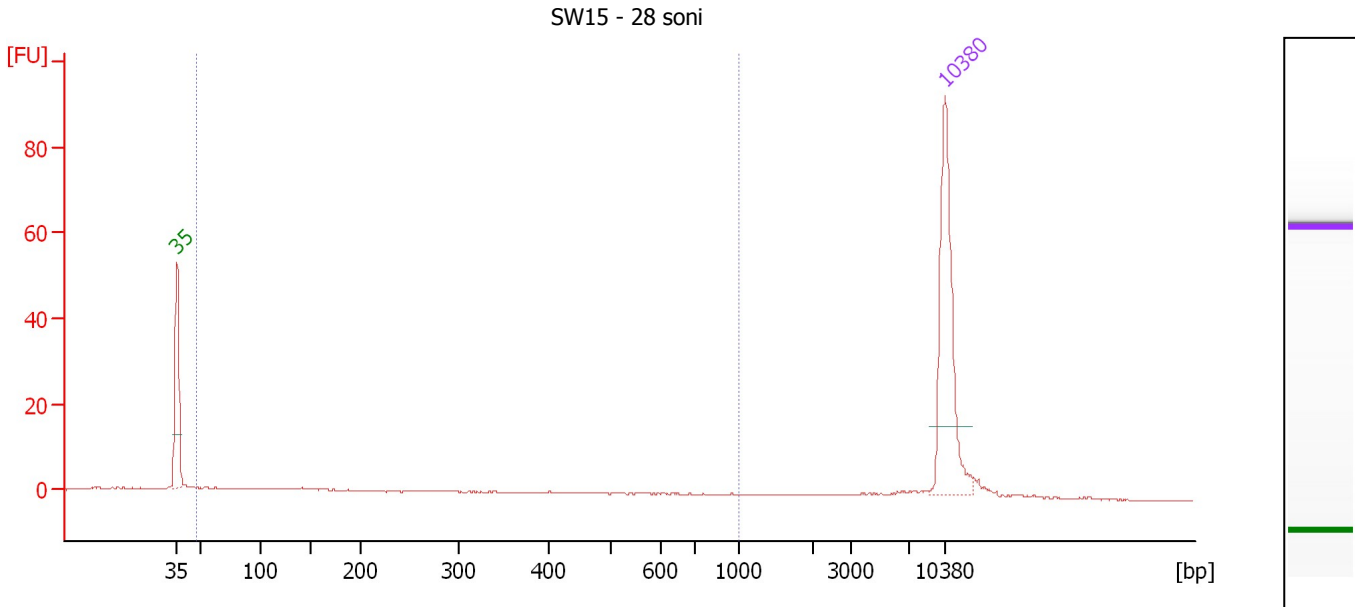
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.21
3	100	150.00	2,272.7	Ladder Peak	50.60
4	150	150.00	1,515.2	Ladder Peak	55.16
5	200	150.00	1,136.4	Ladder Peak	59.73
6	300	150.00	757.6	Ladder Peak	68.67
7	400	150.00	568.2	Ladder Peak	76.85
8	500	150.00	454.5	Ladder Peak	82.57
9	600	150.00	378.8	Ladder Peak	87.09
10	700	150.00	324.7	Ladder Peak	90.21
11	1,000	150.00	227.3	Ladder Peak	94.20
12	2,000	150.00	113.6	Ladder Peak	100.98
13	3,000	150.00	75.8	Ladder Peak	104.49
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SW15 - 28 soni

Number of peaks found: 0 Corr. Area 1: 30.5
 Noise: 0.1

Peak table for sample 1 : SW15 - 28 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

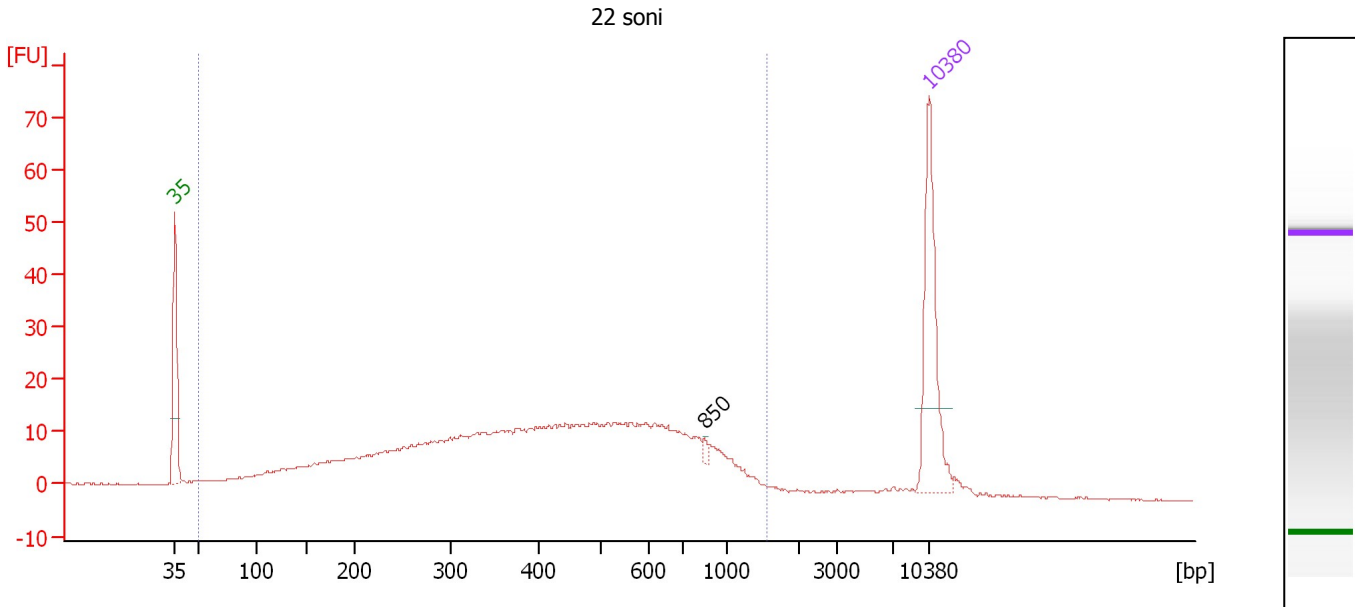
Region table for sample 1 : SW15 - 28 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
48	336	1,000	30.5	382.2	48	69.5	36.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 22 soni

Number of peaks found: 1 Corr. Area 1: 584.4
 Noise: 0.1

Peak table for sample 2 : 22 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	850	3.63	6.5		92.21
3	10,380	75.00	10.9	Upper Marker	113.00

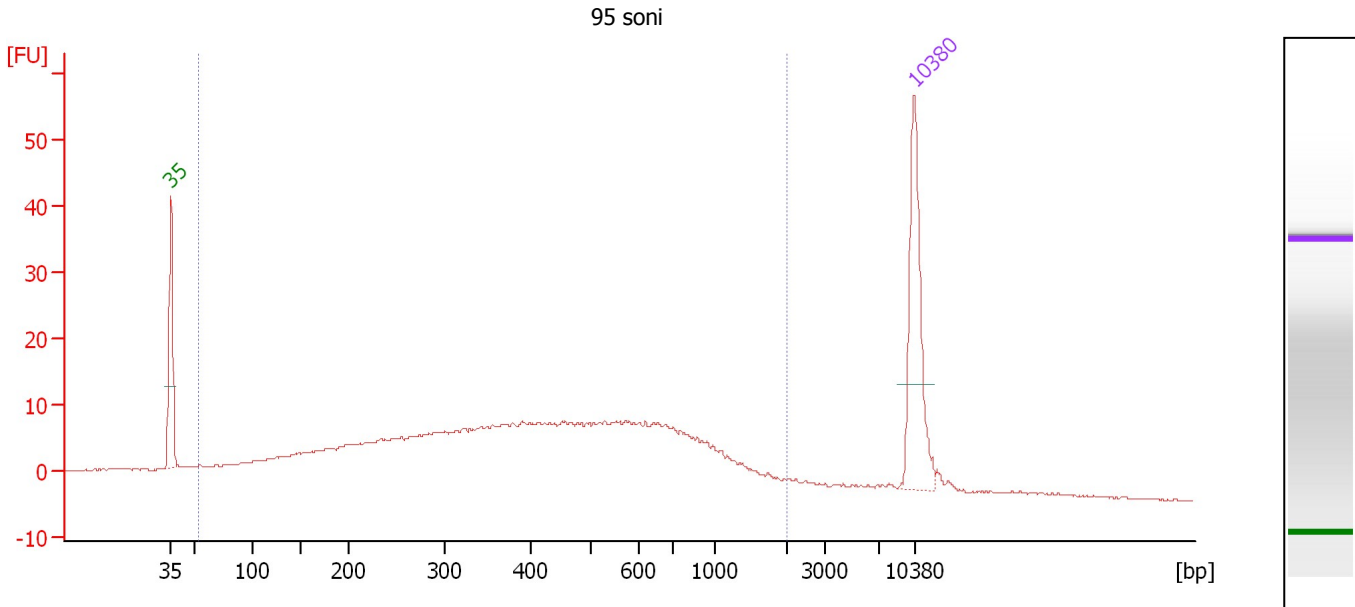
Region table for sample 2 : 22 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
50	459	1,547	584.4	4,502.1	96	53.2	830.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 95 soni

Number of peaks found: 0 Corr. Area 1: 456.5
 Noise: 0.1

Peak table for sample 3 : 95 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

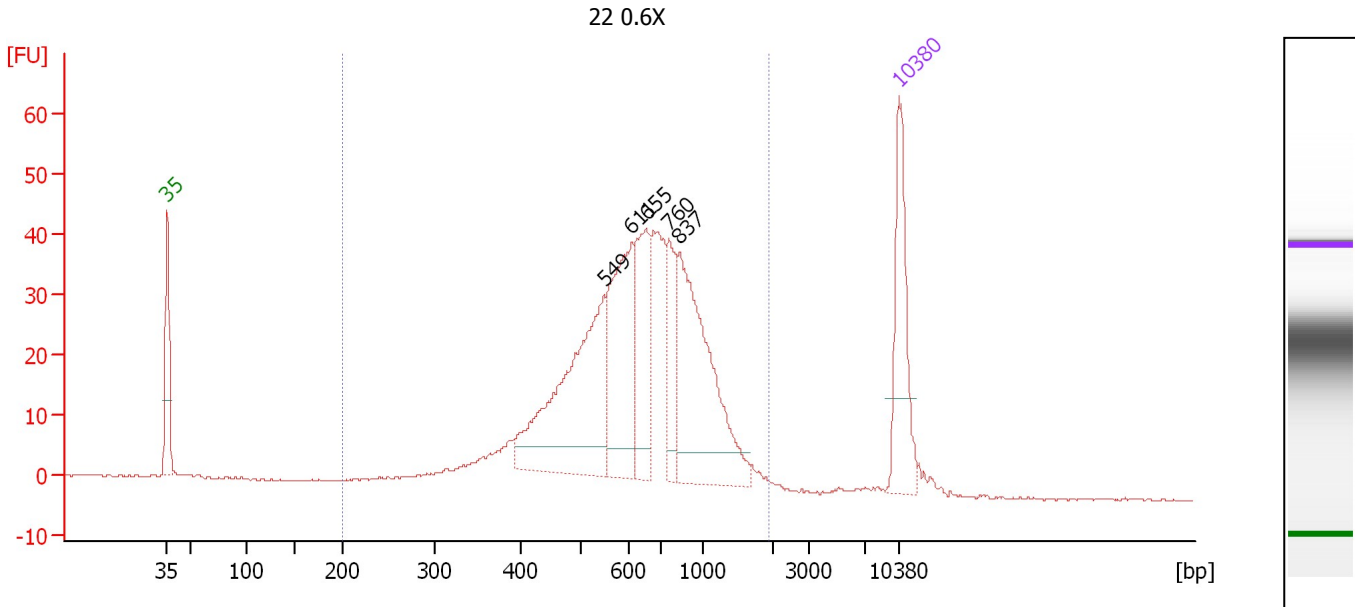
Region table for sample 3 : 95 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
53	487	1,997	456.5	4,443.3	93	64.4	795.34

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 22 0.6X

Number of peaks found: 5 Corr. Area 1: 713.5
 Noise: 0.1

Peak table for sample 4 : 22 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	549	228.12	629.5		84.79
3	611	141.91	351.7		87.44
4	655	95.09	219.8		88.82
5	760	55.83	111.3		91.01
6	837	194.89	352.9		92.03
7	10,380	75.00	10.9	Upper Marker	113.00

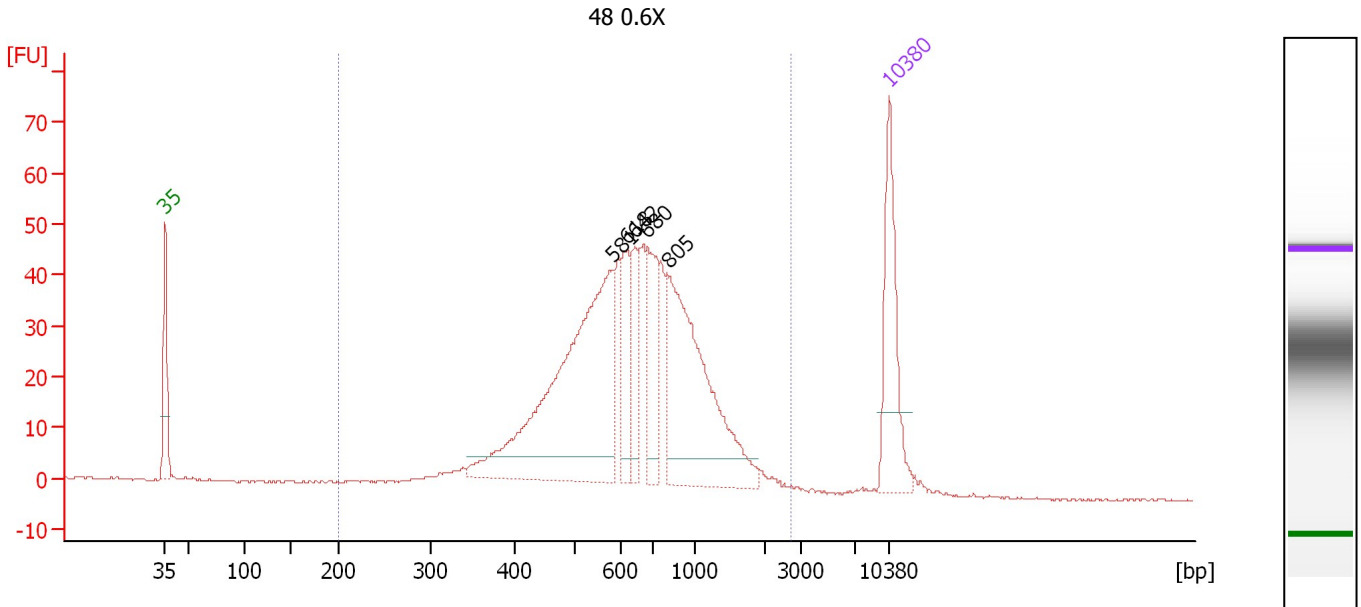
Region table for sample 4 : 22 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	693	1,948	713.5	2,507.2	97	38.7	969.73

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 48 0.6X

Number of peaks found: 5 Corr. Area 1: 830.6
 Noise: 0.1

Peak table for sample 5 : 48 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	581	327.11	852.4		86.25
3	618	52.28	128.2		87.64
4	642	41.54	98.0		88.41
5	680	67.21	149.7		89.60
6	805	212.14	399.3		91.61
7	10,380	75.00	10.9	Upper Marker	113.00

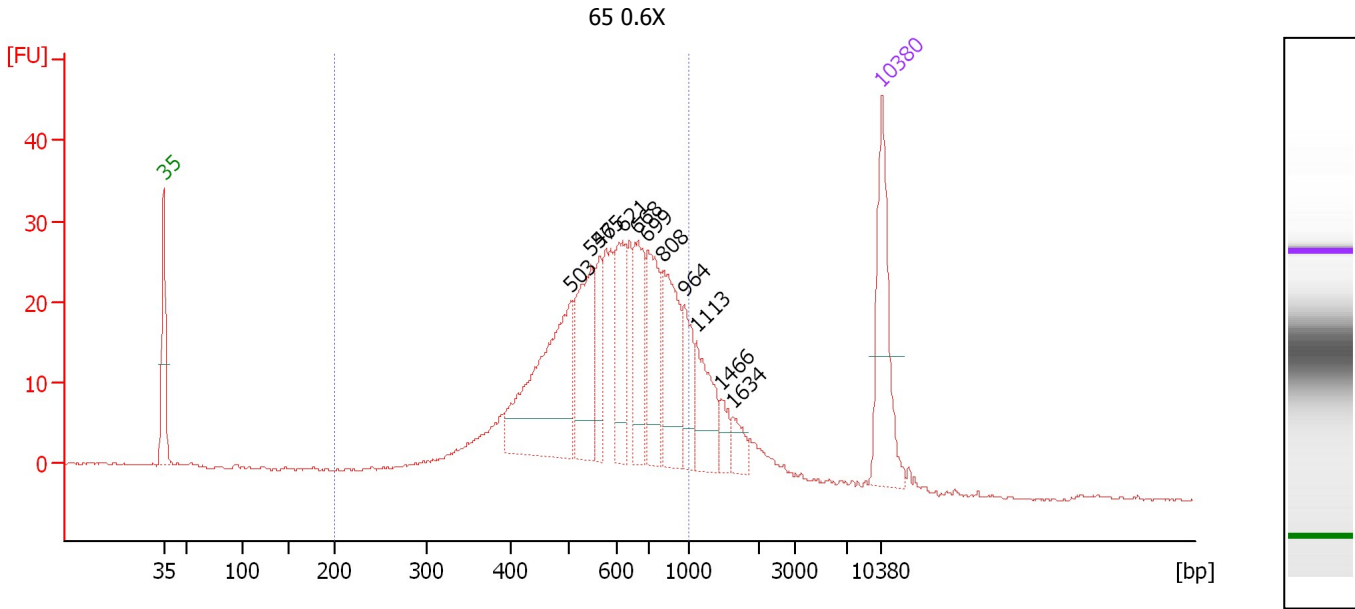
Region table for sample 5 : 48 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	720	2,691	830.6	2,343.3	98	44.9	921.87

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 65 0.6X

Number of peaks found: 11 Corr. Area 1: 514.2
 Noise: 0.2

Peak table for sample 6 : 65 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	503	178.51	537.7		82.70
3	547	92.49	256.3		84.68
4	565	37.26	99.9		85.51
5	621	60.91	148.6		87.74
6	668	61.19	138.9		89.20
7	699	68.97	149.5		90.19
8	808	80.63	151.3		91.64
9	964	35.66	56.1		93.72
10	1,113	47.26	64.3		94.97
11	1,466	13.49	13.9		97.36
12	1,634	13.96	12.9		98.50
13	10,380	75.00	10.9	Upper Marker	113.00

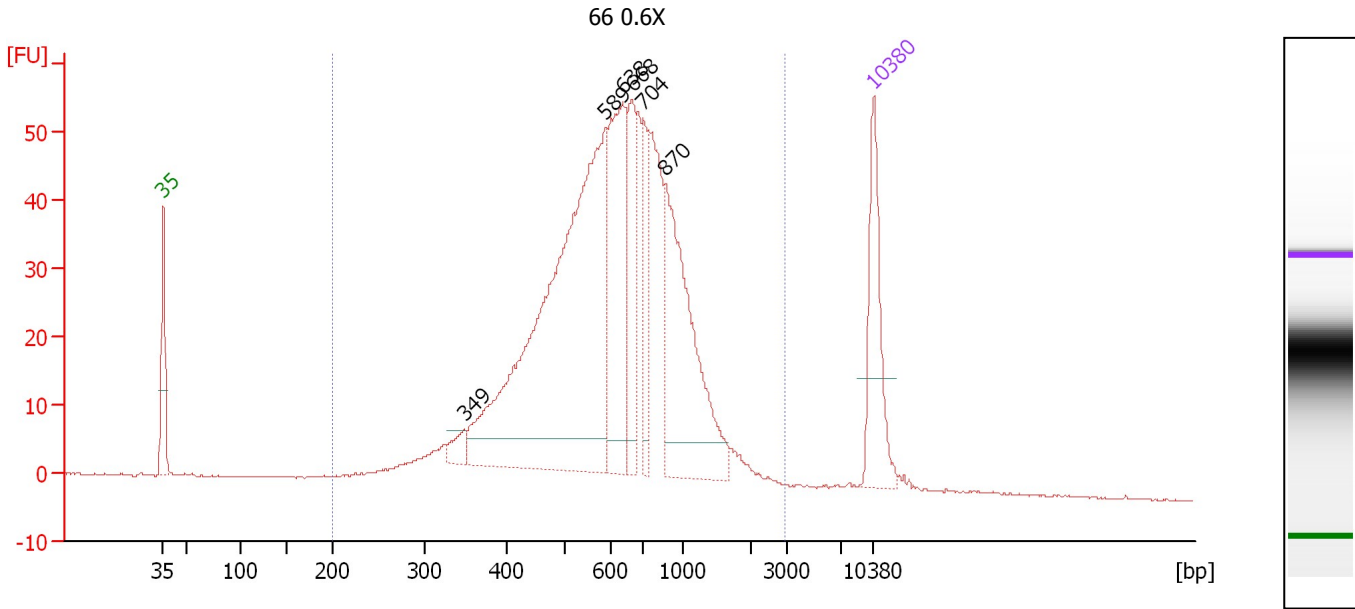
Region table for sample 6 : 65 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	599	1,000	514.2	2,626.0	83	27.4	928.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 66 0.6X

Number of peaks found: 6 Corr. Area 1: 1,002.8
 Noise: 0.1

Peak table for sample 7 : 66 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	349	19.16	83.2		72.67
3	589	579.22	1,490.2		86.59
4	638	163.81	389.2		88.27
5	668	86.59	196.4		89.21
6	704	64.15	138.1		90.26
7	870	206.28	359.4		92.47
8	10,380	75.00	10.9	Upper Marker	113.00

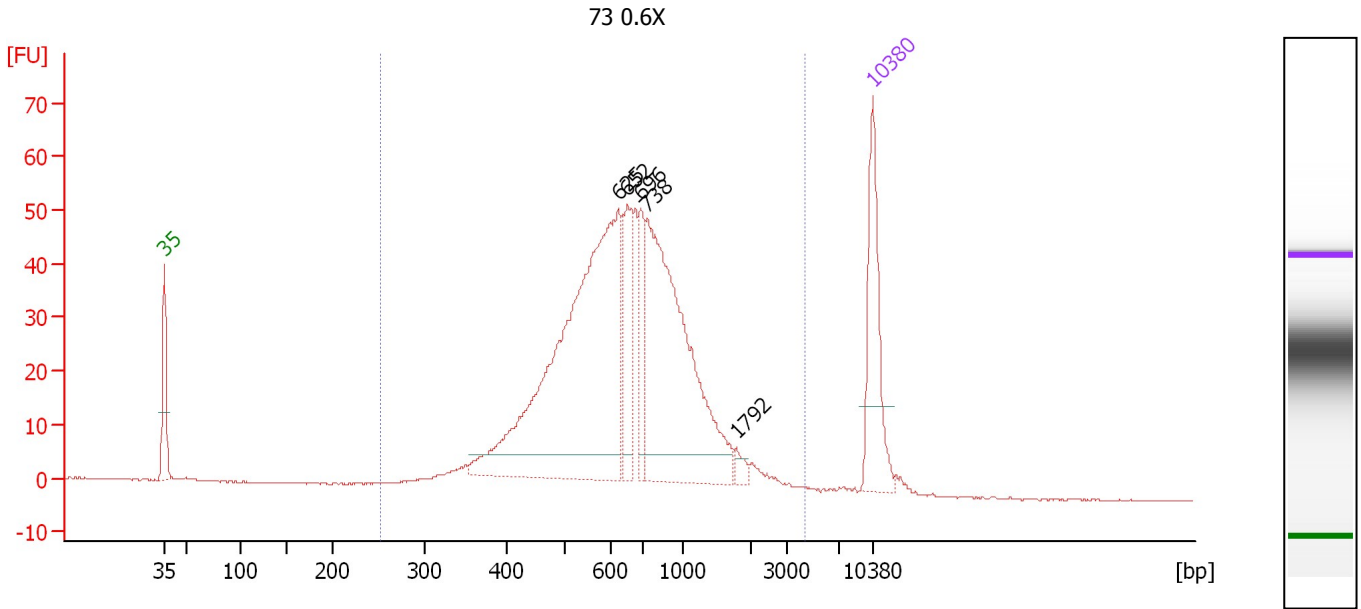
Region table for sample 7 : 66 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	682	2,946	1,002.8	4,147.9	98	45.1	1,536.23

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 73 0.6X

Number of peaks found: 5 Corr. Area 1: 874.9
 Noise: 0.1

Peak table for sample 8 : 73 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	625	465.90	1,129.0		87.88
3	652	73.48	170.7		88.72
4	696	47.40	103.2		90.09
5	738	314.89	646.3		90.72
6	1,792	7.62	6.4		99.57
7	10,380	75.00	10.9	Upper Marker	113.00

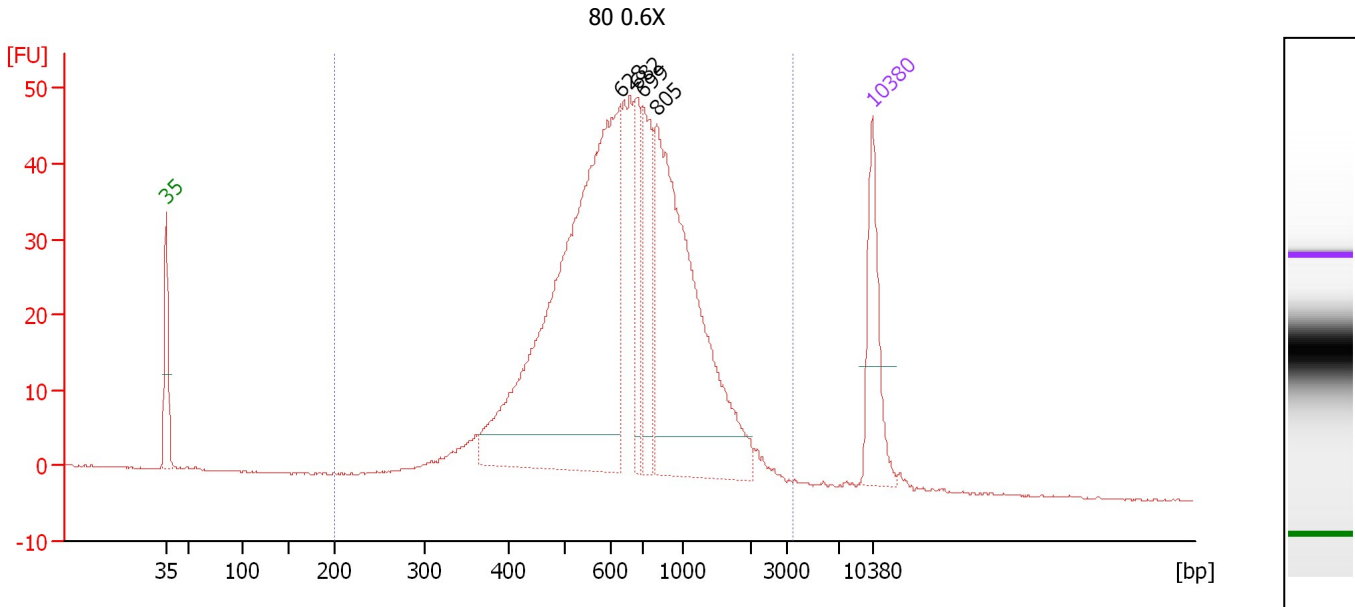
Region table for sample 8 : 73 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
253	753	4,472	874.9	2,649.5	99	52.5	1,074.58

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 80 0.6X

Number of peaks found: 4 Corr. Area 1: 898.4
 Noise: 0.1

Peak table for sample 9 : 80 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	628	682.33	1,646.5		87.96
3	682	73.52	163.3		89.65
4	699	110.83	240.3		90.18
5	805	424.15	798.7		91.60
6	10,380	75.00	10.9	Upper Marker	113.00

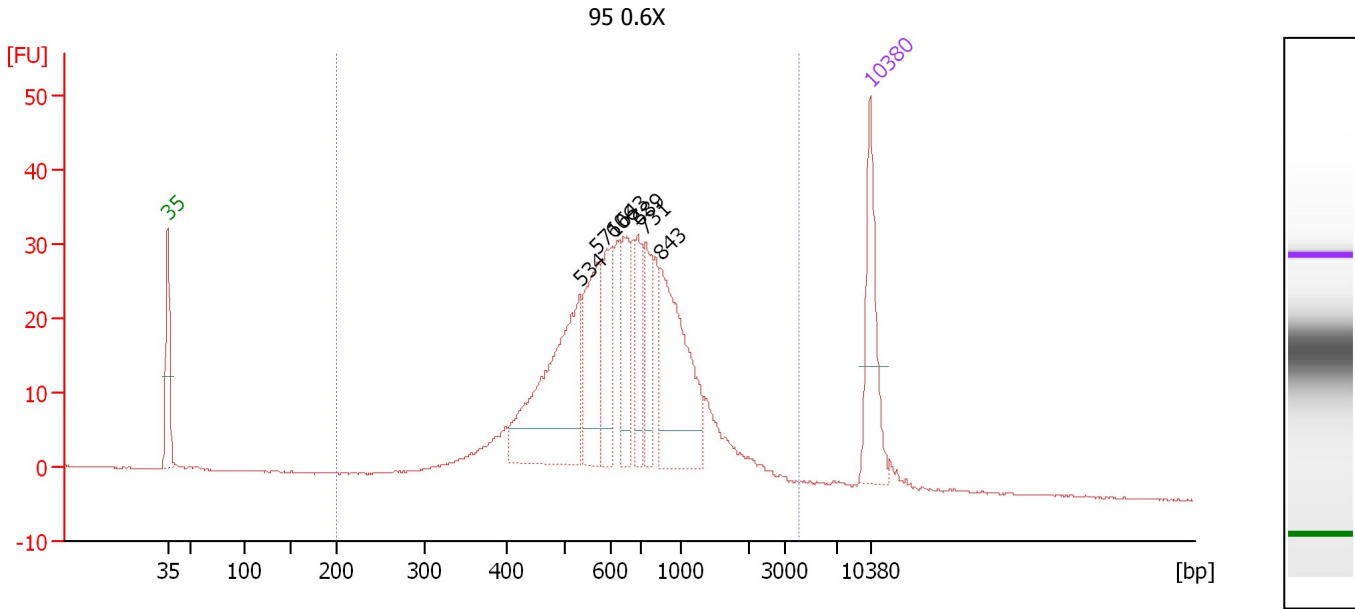
Region table for sample 9 : 80 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	752	3,416	898.4	4,014.7	99	49.6	1,612.44

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 95 0.6X

Number of peaks found: 7 Corr. Area 1: 581.8
 Noise: 0.1

Peak table for sample 10 : 95 0.6X

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	534	221.92	630.1		84.09
3	571	101.43	269.0		85.79
4	606	75.02	187.6		87.27
5	643	62.73	147.7		88.44
6	689	52.30	115.0		89.88
7	731	55.73	115.5		90.62
8	843	164.33	295.4		92.11
9	10,380	75.00	10.9	Upper Marker	113.00

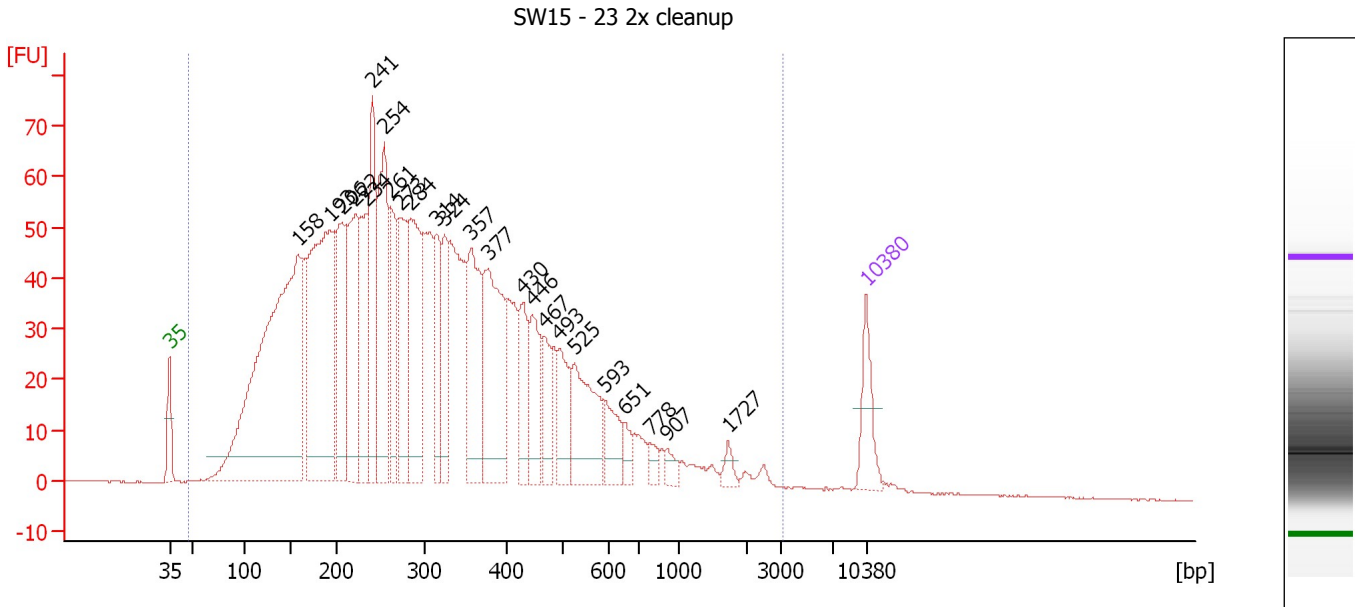
Region table for sample 10 : 95 0.6X

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	754	4,107	581.8	2,804.1	97	53.7	1,117.35

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SW15 - 23 2x cleanup

Number of peaks found: 24 Corr. Area 1: 2,356.4
 Noise: 0.1

Peak table for sample 11 : SW15 - 23 2x cleanup

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	158	1,368.77	13,113.9		55.91
3	193	803.98	6,301.1		59.12
4	206	295.35	2,168.6		60.30
5	222	352.01	2,403.3		61.69
6	234	240.71	1,559.2		62.76
7	241	303.26	1,905.8		63.41
8	254	378.73	2,256.8		64.58
9	261	185.78	1,079.1		65.17
10	273	243.82	1,354.0		66.24
11	284	323.88	1,730.2		67.21
12	314	159.86	770.9		69.83
13	324	155.51	727.2		70.64
14	357	261.71	1,111.4		73.31
15	377	346.50	1,392.2		74.97
16	430	130.76	460.7		78.56
17	446	124.87	424.3		79.47
18	467	88.40	286.5		80.70
19	493	108.37	333.2		82.15
20	525	200.41	578.2		83.70
21	593	79.49	203.2		86.76
22	651	31.78	73.9		88.68
23	778	22.39	43.6		91.26
24	907	22.25	37.2		92.97
25	1,727	18.88	16.6		99.13

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
 Modified: 7/22/2015 9:54:41 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : SW15 - 23 2x cleanup

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : SW15 - 23 2x cleanup

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
48	352	3,124	2,356.4	52,426.1	99	81.2	7,853.56

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-22\2015-07-22_001.xad

Created: 7/22/2015 9:11:07 AM
Modified: 7/22/2015 9:54:41 AM

Gel Image

