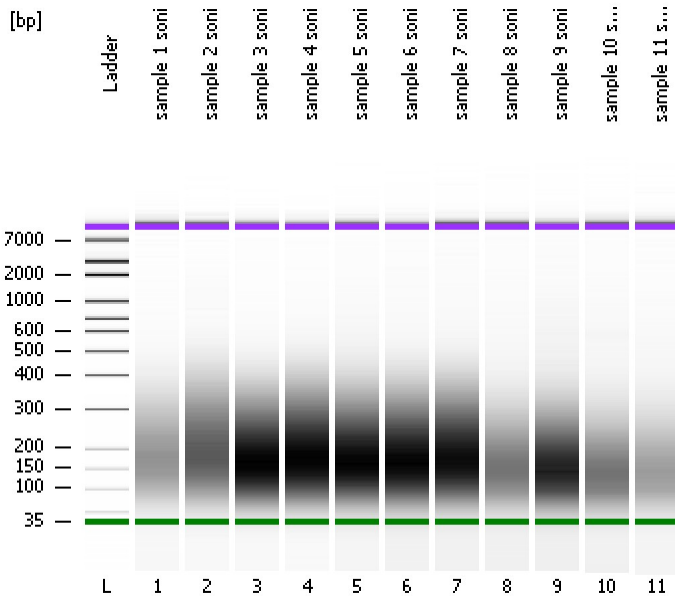


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
Modified: 6/11/2014 1:35:09 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

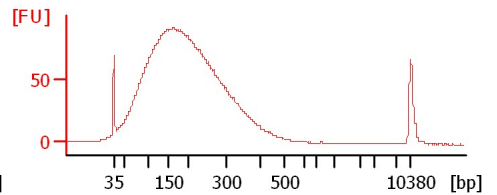
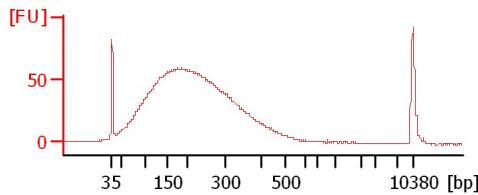
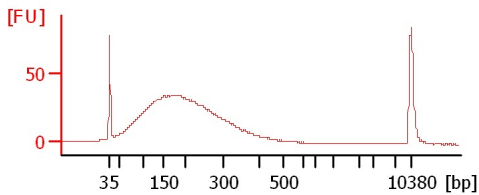
Chip Information:

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

sample 1 soni

sample 2 soni

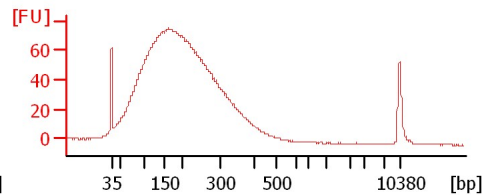
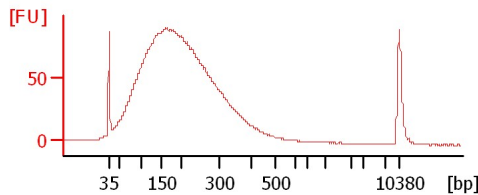
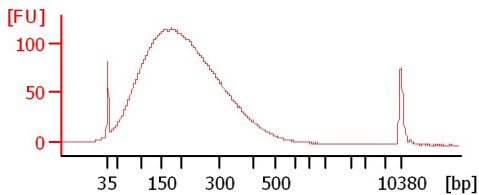
sample 3 soni



sample 4 soni

sample 5 soni

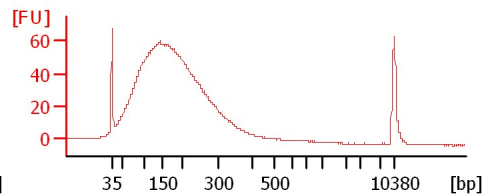
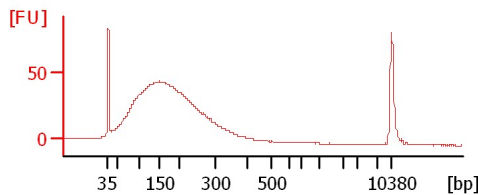
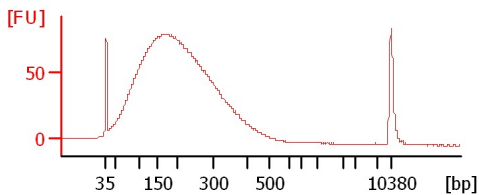
sample 6 soni



sample 7 soni

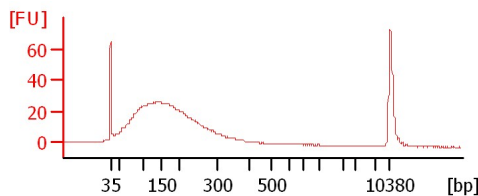
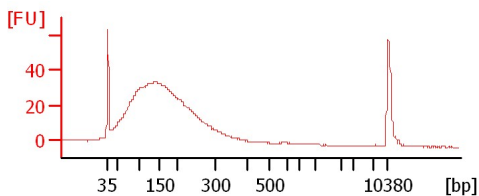
sample 8 soni

sample 9 soni



sample 10 soni

sample 11 soni



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1 soni		<input type="checkbox"/>	✓			
sample 2 soni		<input type="checkbox"/>	✓			
sample 3 soni		<input type="checkbox"/>	✓			
sample 4 soni		<input type="checkbox"/>	✓			
sample 5 soni		<input type="checkbox"/>	✓			
sample 6 soni		<input type="checkbox"/>	✓			
sample 7 soni		<input type="checkbox"/>	✓			
sample 8 soni		<input type="checkbox"/>	✓			
sample 9 soni		<input type="checkbox"/>	✓			
sample 10 soni		<input type="checkbox"/>	✓			
sample 11 soni		<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\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
Modified: 6/11/2014 1:35:09 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

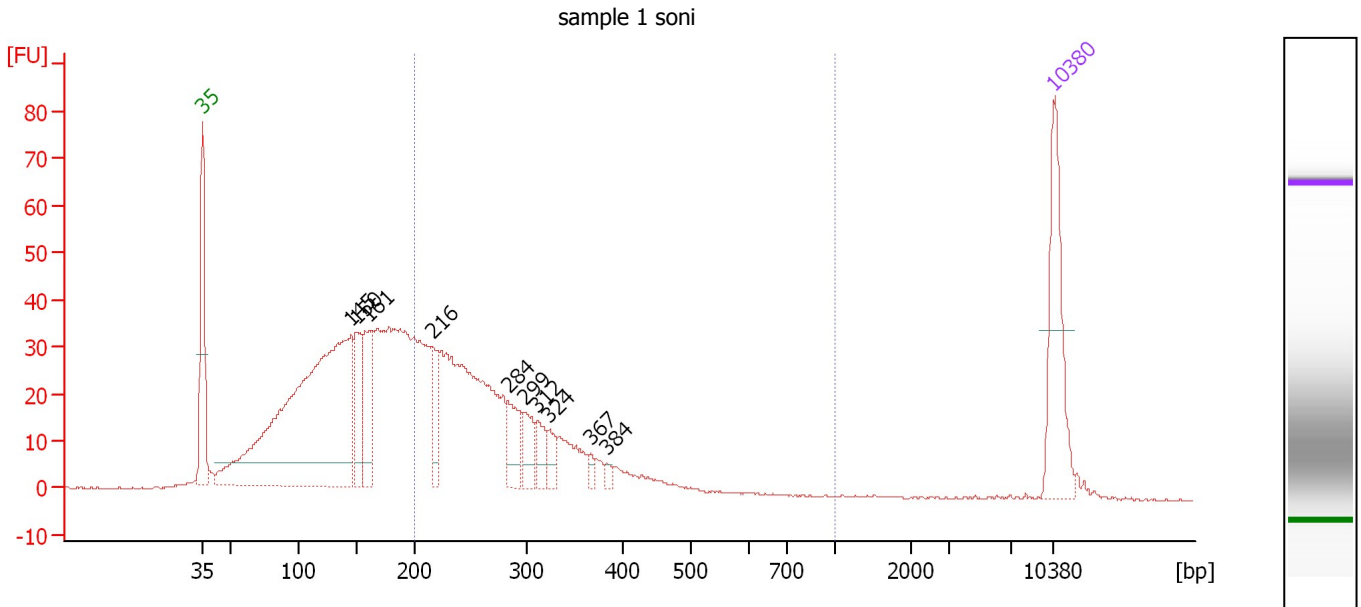
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary



Overall Results for sample 1 : sample 1 soni

Number of peaks found: 10 Corr. Area 1: 530.9
 Noise: 0.2

Peak table for sample 1 : sample 1 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	145	604.05	6,312.9	
3	150	65.67	665.2	
4	161	76.39	719.6	
5	216	41.23	288.7	
6	284	42.00	223.7	
7	299	29.08	147.5	
8	312	22.43	109.0	
9	324	17.22	80.6	
10	367	6.64	27.4	
11	384	5.37	21.2	
12	10,380	75.00	10.9	Upper Marker

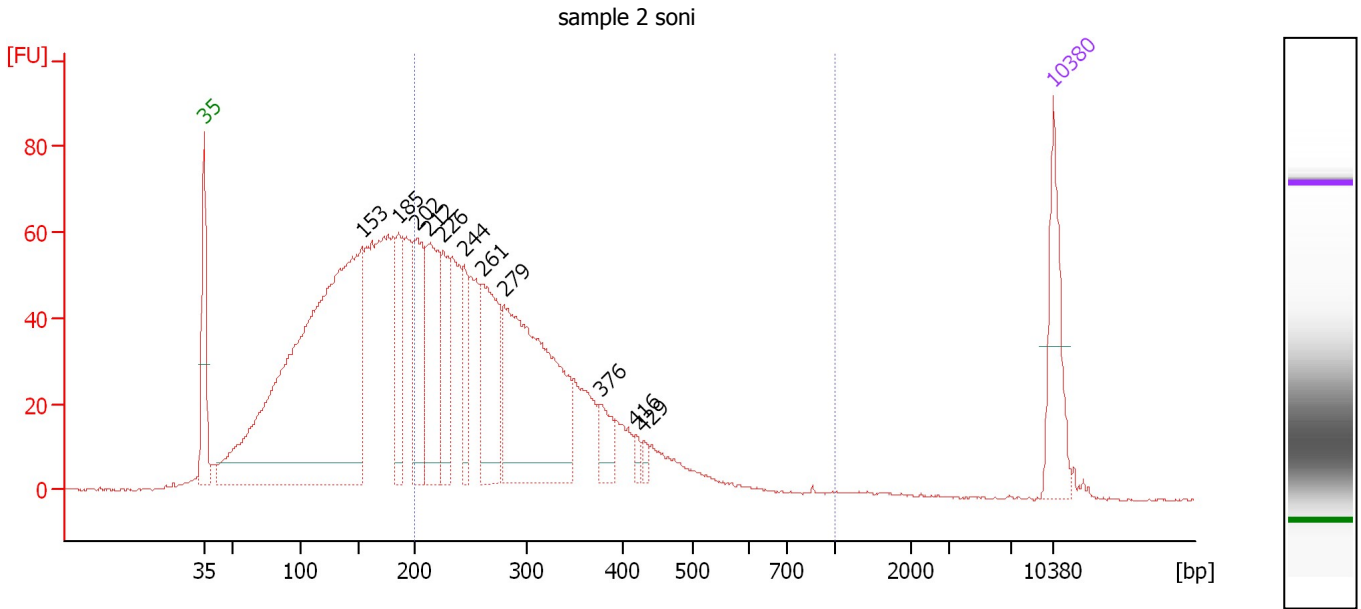
Region table for sample 1 : sample 1 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	284	4,075.7	714.99	530.9	41	26.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2 soni

Number of peaks found: 11 Corr. Area 1: 1,163.4
 Noise: 0.3

Peak table for sample 2 : sample 2 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	1,097.34	10,852.4	
3	185	111.37	911.2	
4	202	141.44	1,062.7	
5	212	189.13	1,350.7	
6	226	91.27	613.2	
7	244	70.66	438.6	
8	261	164.11	953.4	
9	279	397.52	2,155.7	
10	376	37.04	149.1	
11	416	10.39	37.8	
12	429	8.45	29.9	
13	10,380	75.00	10.9	Upper Marker

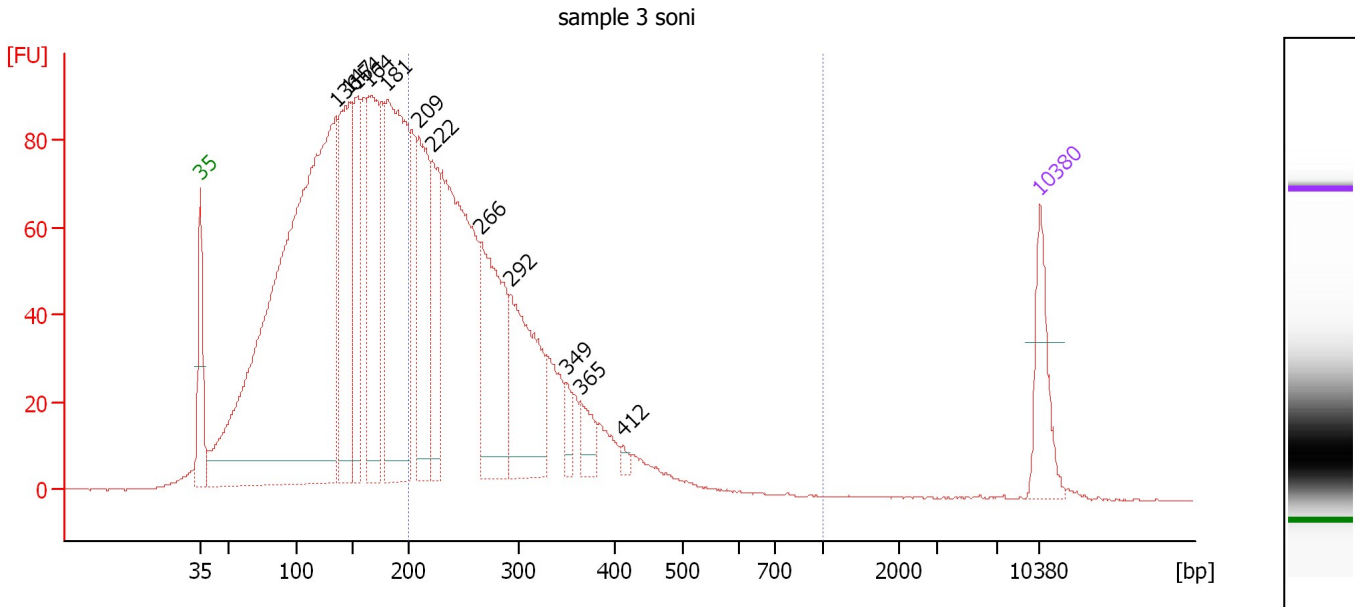
Region table for sample 2 : sample 2 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	300	8,651.7	1,572.45	1,163.4	48	30.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3 soni

Number of peaks found: 12 Corr. Area 1: 1,323.6
 Noise: 0.2

Peak table for sample 3 : sample 3 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	1,905.61	21,286.2	
3	147	377.41	3,893.9	
4	154	217.46	2,140.4	
5	164	376.85	3,473.0	
6	181	631.75	5,286.6	
7	209	251.15	1,818.4	
8	222	162.20	1,107.9	
9	266	307.75	1,754.7	
10	292	265.80	1,380.2	
11	349	27.43	119.1	
12	365	42.47	176.5	
13	412	9.19	33.8	
14	10,380	75.00	10.9	Upper Marker

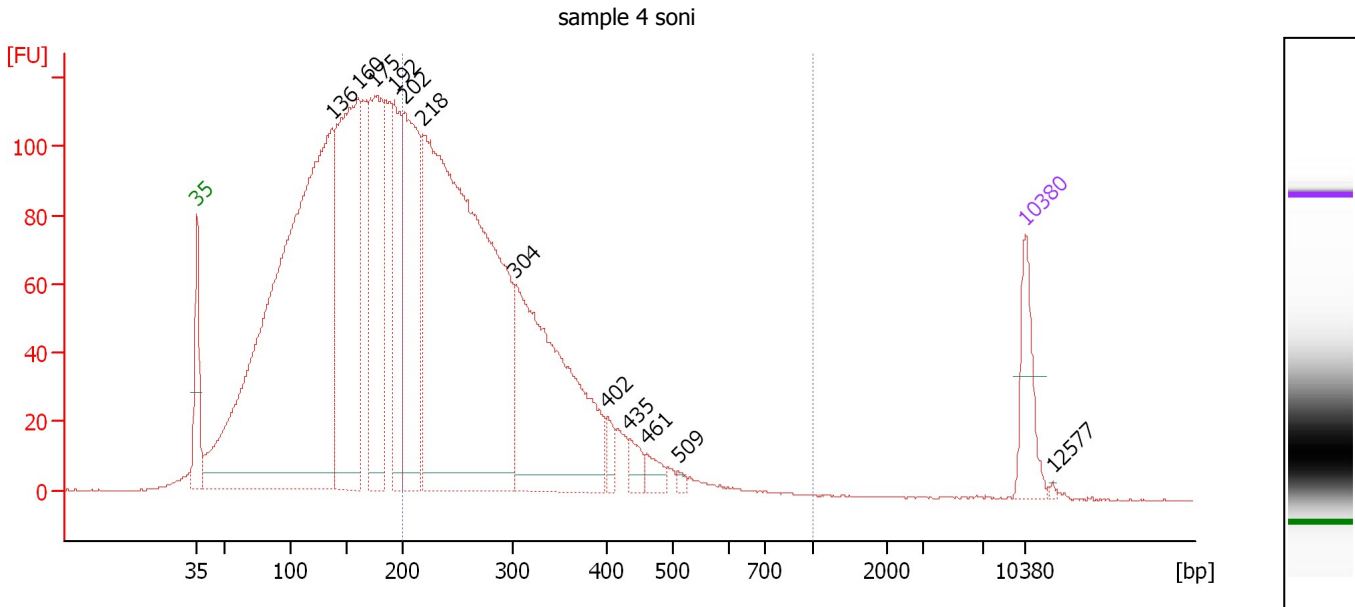
Region table for sample 3 : sample 3 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	282	12,622.7	2,206.61	1,323.6	39	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4 soni

Number of peaks found: 12 Corr. Area 1: 1,935.7
 Noise: 0.1

Peak table for sample 4 : sample 4 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	2,143.10	23,822.4	
3	160	817.76	7,735.9	
4	175	488.88	4,229.9	
5	192	260.42	2,050.0	
6	202	473.53	3,557.6	
7	218	1,731.72	12,019.1	
8	304	662.90	3,304.5	
9	402	28.37	106.9	
10	435	29.56	103.0	
11	461	27.32	89.7	
12	509	8.47	25.2	
13	10,380	75.00	10.9	Upper Marker
14	12,577	0.00	0.0	

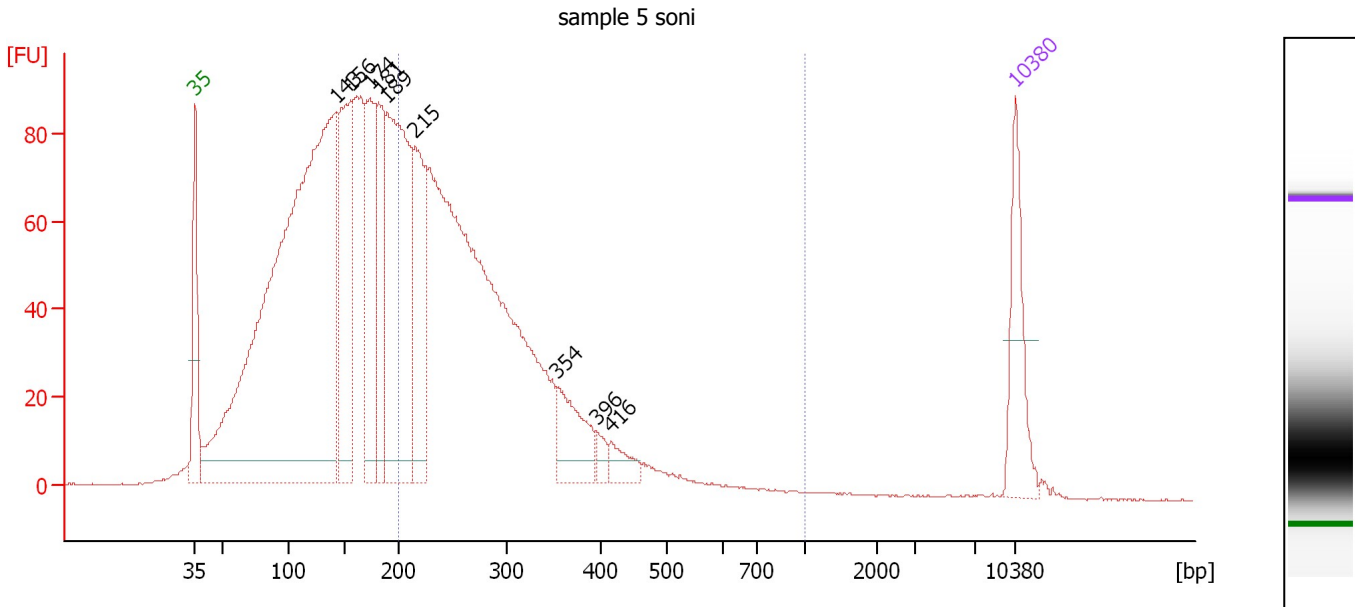
Region table for sample 4 : sample 4 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	291	16,140.1	2,878.38	1,935.7	43	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5 soni

Number of peaks found: 9 Corr. Area 1: 1,320.1
 Noise: 0.2

Peak table for sample 5 : sample 5 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	143	1,539.34	16,349.9	
3	156	284.50	2,769.3	
4	174	217.68	1,893.9	
5	181	149.43	1,247.8	
6	189	458.34	3,669.7	
7	215	211.06	1,489.1	
8	354	90.21	386.4	
9	396	16.18	61.9	
10	416	27.29	99.4	
11	10,380	75.00	10.9	Upper Marker

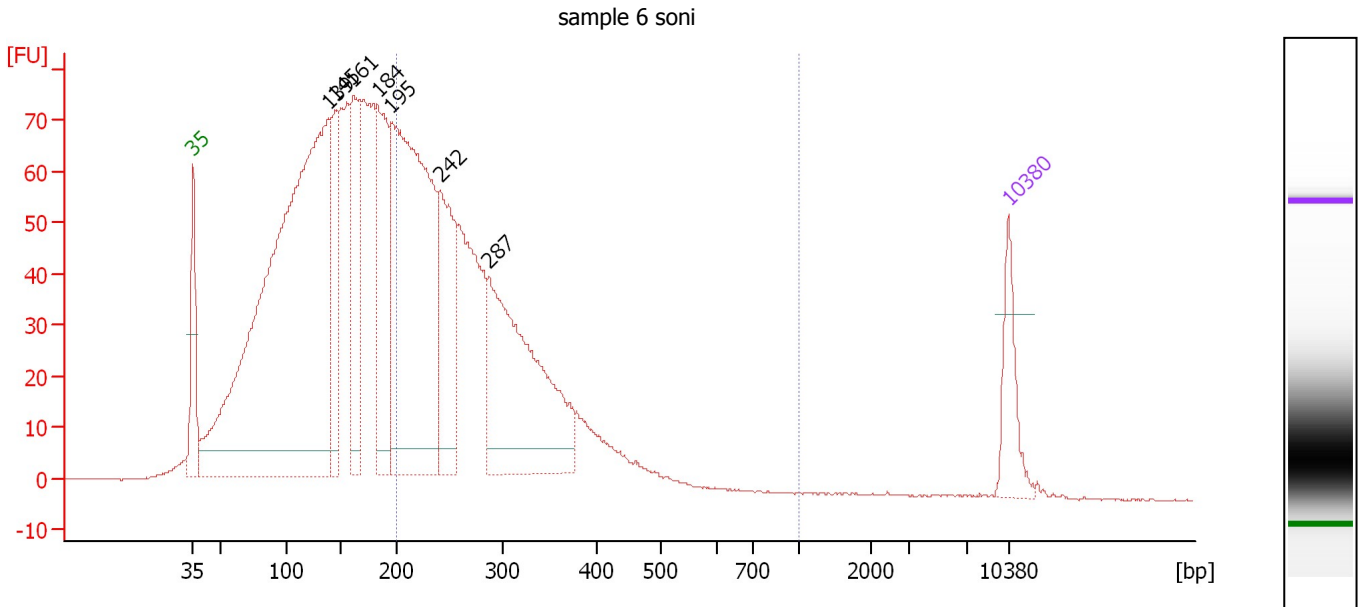
Region table for sample 5 : sample 5 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	287	9,532.8	1,676.45	1,320.1	40	29.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6 soni

Number of peaks found: 7 Corr. Area 1: 1,107.5
 Noise: 0.2

Peak table for sample 6 : sample 6 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	139	2,081.91	22,735.0	
3	145	202.57	2,123.8	
4	161	290.30	2,730.6	
5	184	351.70	2,901.8	
6	195	1,043.98	8,095.0	
7	242	306.26	1,920.9	
8	287	578.94	3,053.0	
9	10,380	75.00	10.9	Upper Marker

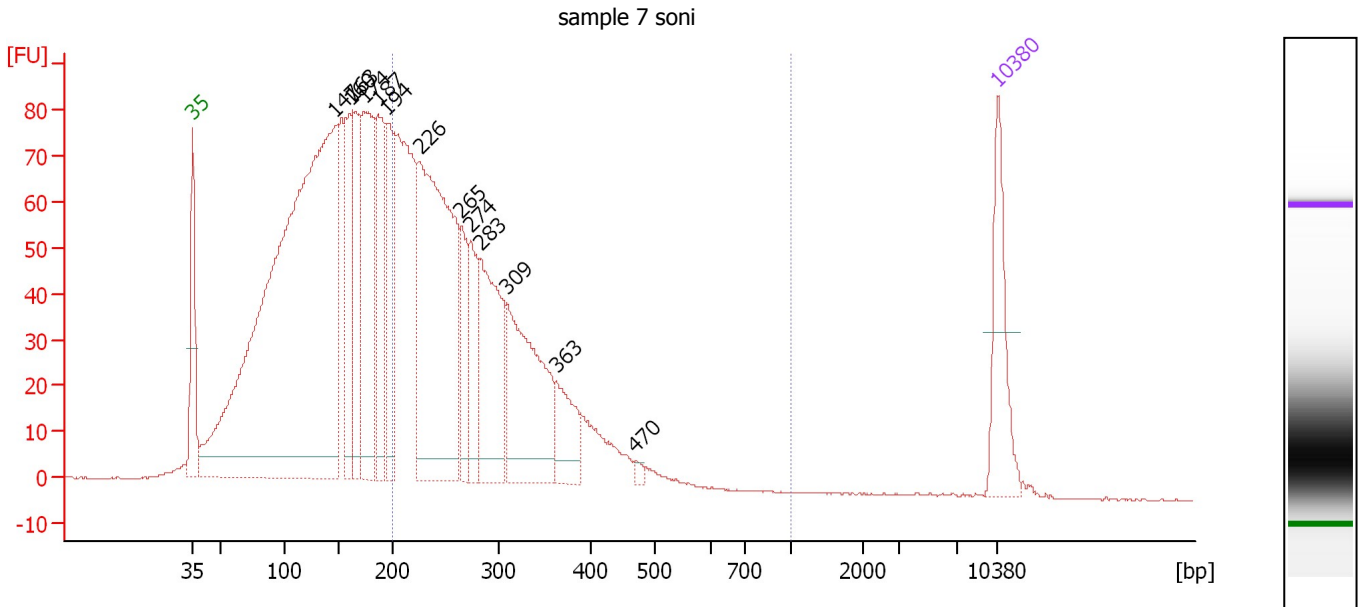
Region table for sample 6 : sample 6 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	280	13,395.4	2,339.93	1,107.5	40	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7 soni

Number of peaks found: 13 Corr. Area 1: 1,276.8
 Noise: 0.1

Peak table for sample 7 : sample 7 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	147	1,471.33	15,204.5	
3	160	152.87	1,448.0	
4	163	142.39	1,324.0	
5	174	263.54	2,296.7	
6	187	166.17	1,348.1	
7	194	149.31	1,164.8	
8	226	528.68	3,546.7	
9	265	81.33	464.8	
10	274	83.97	464.0	
11	283	197.76	1,057.9	
12	309	230.00	1,127.3	
13	363	65.99	275.4	
14	470	5.99	19.3	
15	10,380	75.00	10.9	Upper Marker

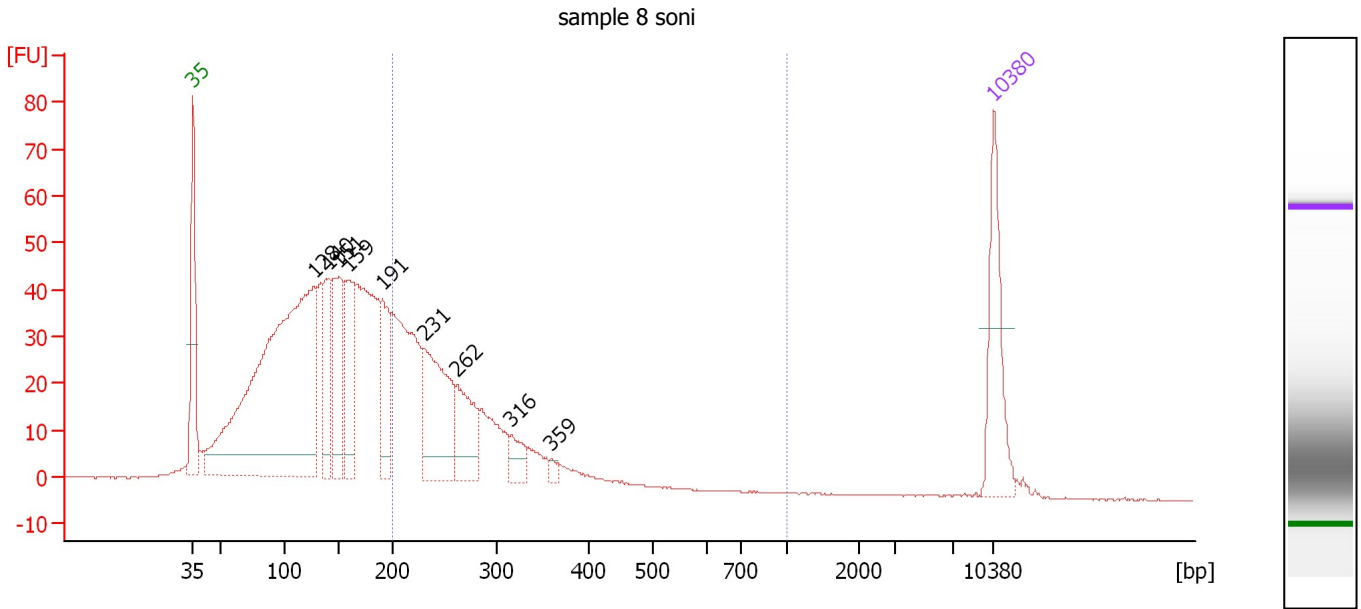
Region table for sample 7 : sample 7 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	285	9,391.5	1,658.13	1,276.8	42	25.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8 soni

Number of peaks found: 9 Corr. Area 1: 451.6
 Noise: 0.1

Peak table for sample 8 : sample 8 soni

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	779.55	9,248.0	
3	140	96.17	1,037.5	
4	151	131.19	1,314.2	
5	159	113.87	1,083.5	
6	191	89.67	710.7	
7	231	166.89	1,096.9	
8	262	83.35	481.2	
9	316	26.69	128.1	
10	359	6.69	28.2	
11	10,380	75.00	10.9	Upper Marker

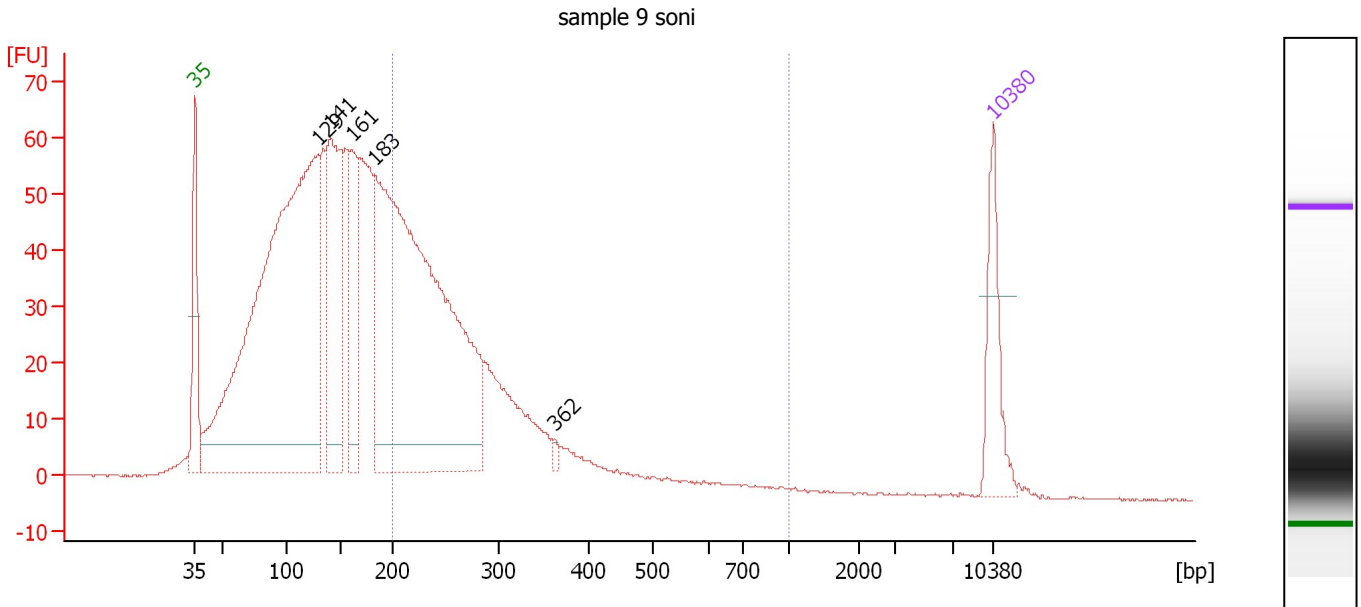
Region table for sample 8 : sample 8 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	266	3,882.7	655.03	451.6	31	21.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9 soni

Number of peaks found: 5 Corr. Area 1: 638.9
 Noise: 0.2

Peak table for sample 9 : sample 9 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	1,405.03	16,440.2	
3	141	334.18	3,584.0	
4	161	187.82	1,766.1	
5	183	1,211.14	10,047.1	
6	362	6.97	29.2	
7	10,380	75.00	10.9	Upper Marker

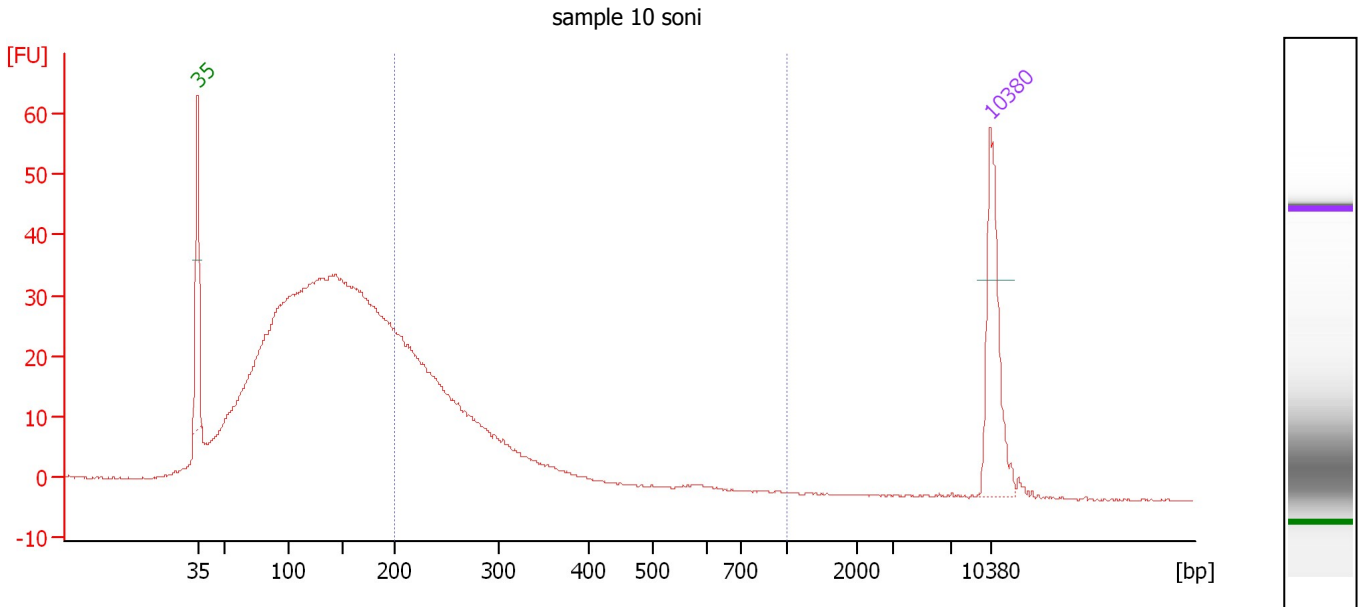
Region table for sample 9 : sample 9 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	279	6,634.5	1,136.35	638.9	31	31.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10 soni

Number of peaks found: 0 Corr. Area 1: 292.0
 Noise: 0.2

Peak table for sample 10 : sample 10 soni

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

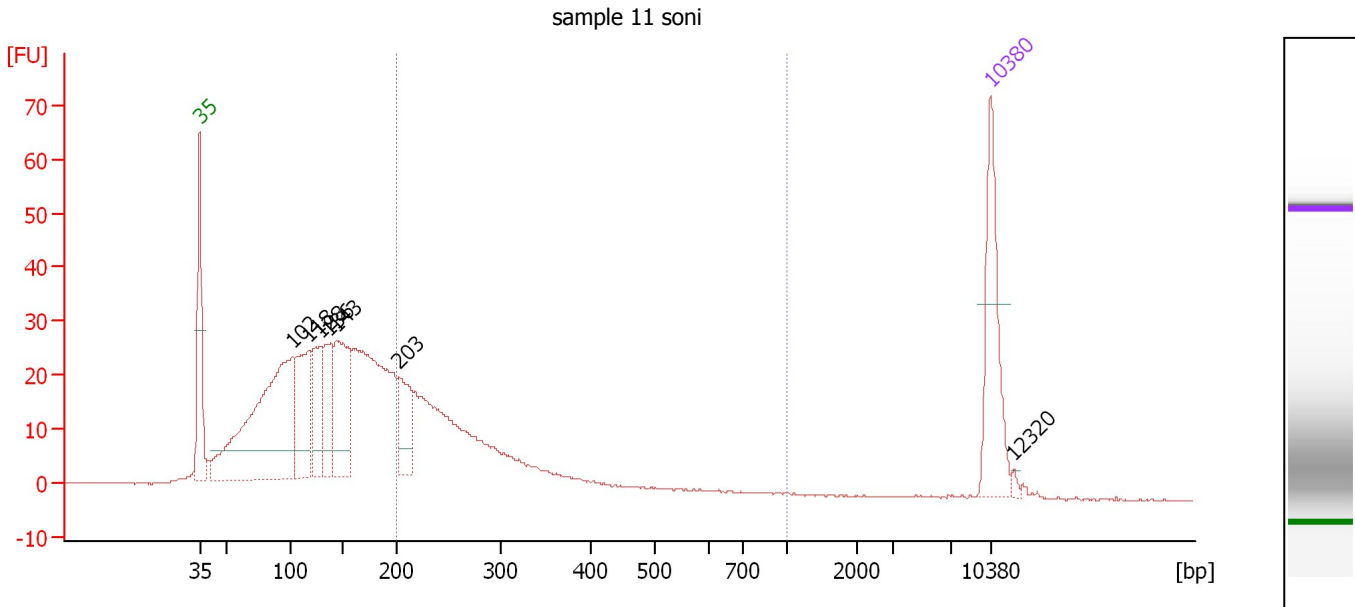
Region table for sample 10 : sample 10 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	271	3,242.9	545.85	292.0	26	28.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
 Modified: 6/11/2014 1:35:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11 soni

Number of peaks found: 7 Corr. Area 1: 253.5
 Noise: 0.1

Peak table for sample 11 : sample 11 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	102	368.37	5,456.2	
3	118	110.70	1,425.5	
4	128	80.53	952.7	
5	136	72.30	808.4	
6	143	125.54	1,330.6	
7	203	64.39	480.7	
8	10,380	75.00	10.9	Upper Marker
9	12,320	0.00	0.0	

Region table for sample 11 : sample 11 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	1,000	278	2,299.6	392.40	253.5	28	31.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-11\2014-06-11_001.xad

Created: 6/11/2014 12:53:47 PM
Modified: 6/11/2014 1:35:09 PM

Gel Image

