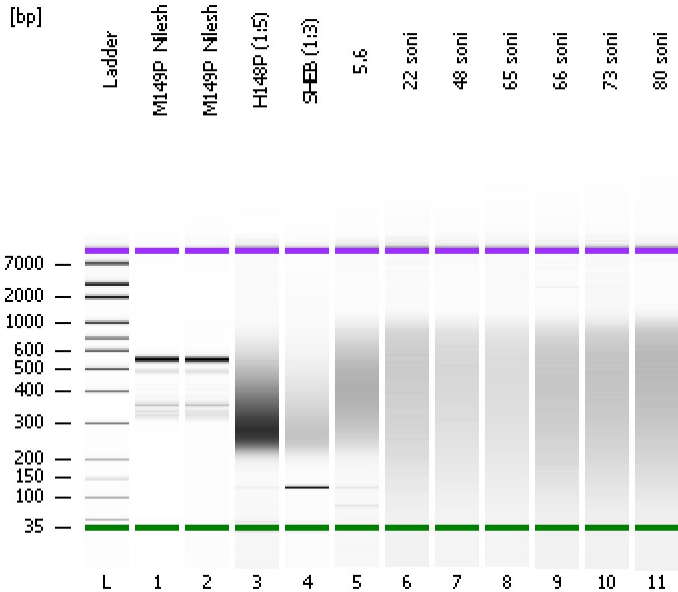


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
Modified: 7/15/2015 10:57:04 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:

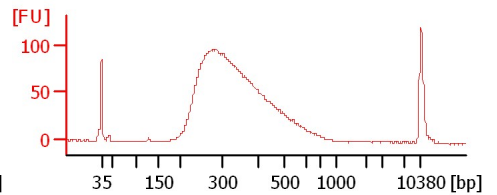
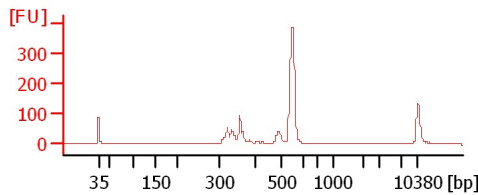
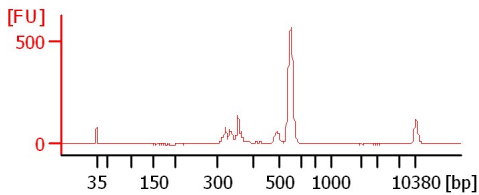
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

M149P_Nilesh

M149P_Nilesh

H148P (1:5)

HiSeq_148: Library pool

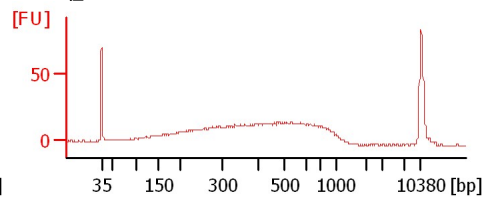
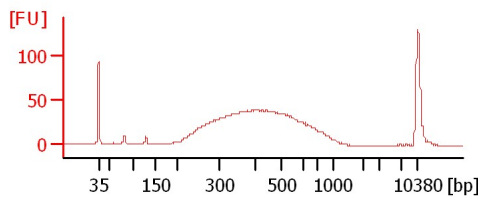
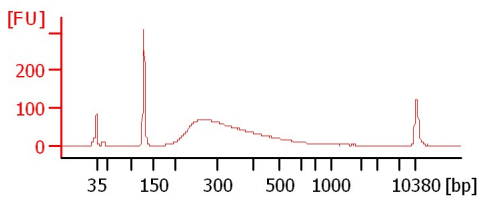


SHEB (1:3)

5.6

22 soni

MiSeq_139

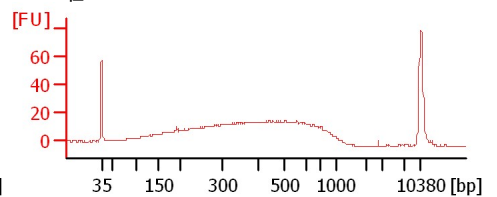
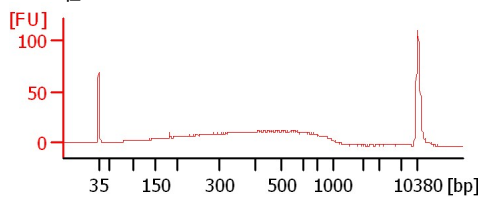
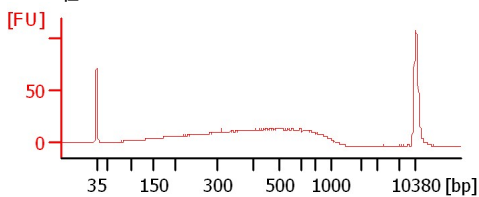


48 soni

65 soni

66 soni

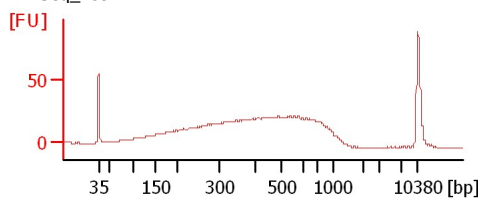
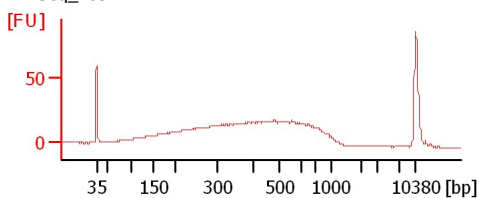
MiSeq_139



73 soni

80 soni

MiSeq_139



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
Modified: 7/15/2015 10:57:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M149P_Nilesh		<input type="checkbox"/>	✓			
M149P_Nilesh		<input type="checkbox"/>	✓			
H148P (1:5)	HiSeq_148: Library pool	<input type="checkbox"/>	✓			
SHEB (1:3)		<input type="checkbox"/>	✓			
5.6		<input type="checkbox"/>	✓			
22 soni	MiSeq_139	<input type="checkbox"/>	✓			
48 soni	MiSeq_139	<input type="checkbox"/>	✓			
65 soni	MiSeq_139	<input type="checkbox"/>	✓			
66 soni	MiSeq_139	<input type="checkbox"/>	✓			
73 soni	MiSeq_139	<input type="checkbox"/>	✓			
80 soni	MiSeq_139	<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\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
Modified: 7/15/2015 10:57:04 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

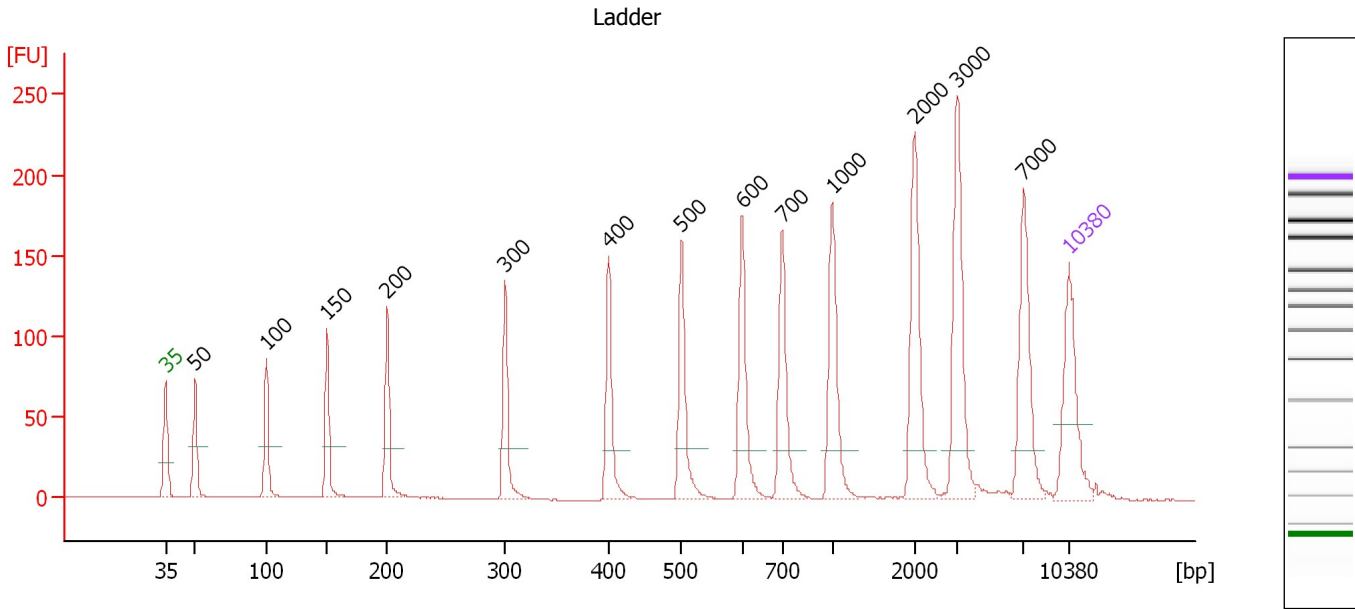
Ladder

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\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

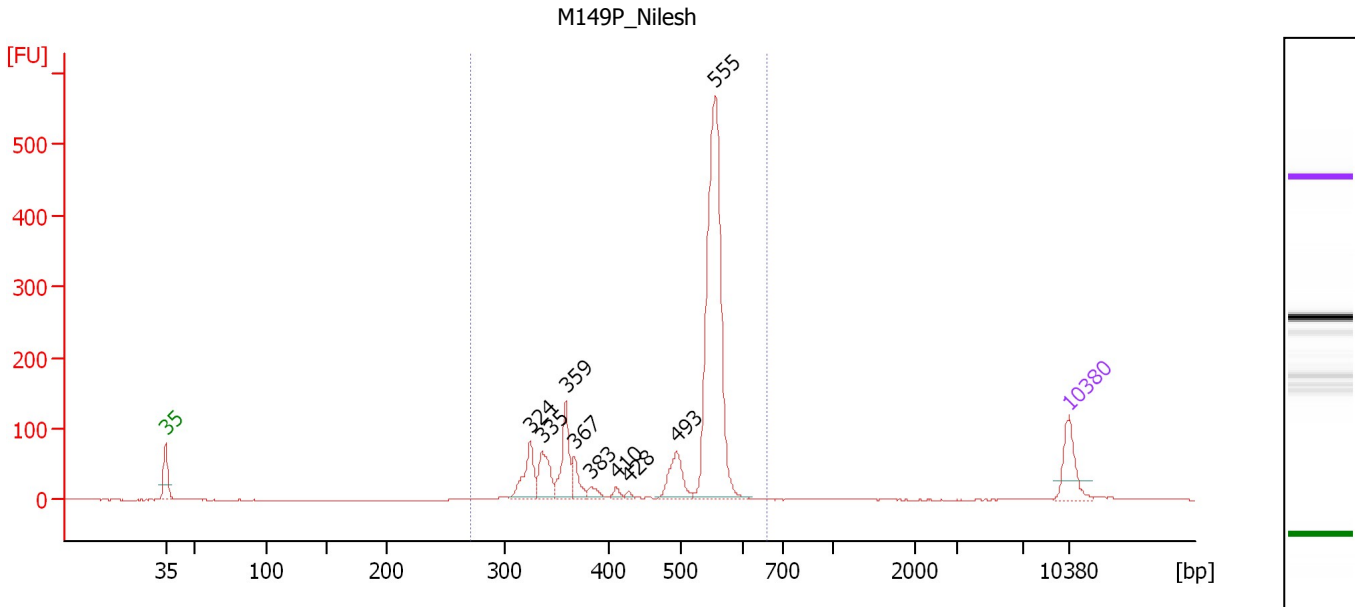
Peak table for Ladder

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.51
5	200	150.00	1,136.4	Ladder Peak	60.20
6	300	150.00	757.6	Ladder Peak	69.31
7	400	150.00	568.2	Ladder Peak	77.36
8	500	150.00	454.5	Ladder Peak	82.97
9	600	150.00	378.8	Ladder Peak	87.71
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	94.65
12	2,000	150.00	113.6	Ladder Peak	101.06
13	3,000	150.00	75.8	Ladder Peak	104.33
14	7,000	150.00	32.5	Ladder Peak	109.51
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : M149P_Nilesh

Number of peaks found: 9 Corr. Area 1: 1,477.9
 Noise: 0.2

Peak table for sample 1 : M149P_Nilesh

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	324	114.17	533.6		71.26
3	335	101.03	456.4		72.16
4	359	127.44	538.3		74.04
5	367	52.37	216.5		74.66
6	383	22.52	89.0		76.01
7	410	14.05	51.9		77.93
8	428	8.54	30.3		78.92
9	493	100.91	310.0		82.59
10	555	791.55	2,159.8		85.59
11	10,380	75.00	10.9	Upper Marker	113.00

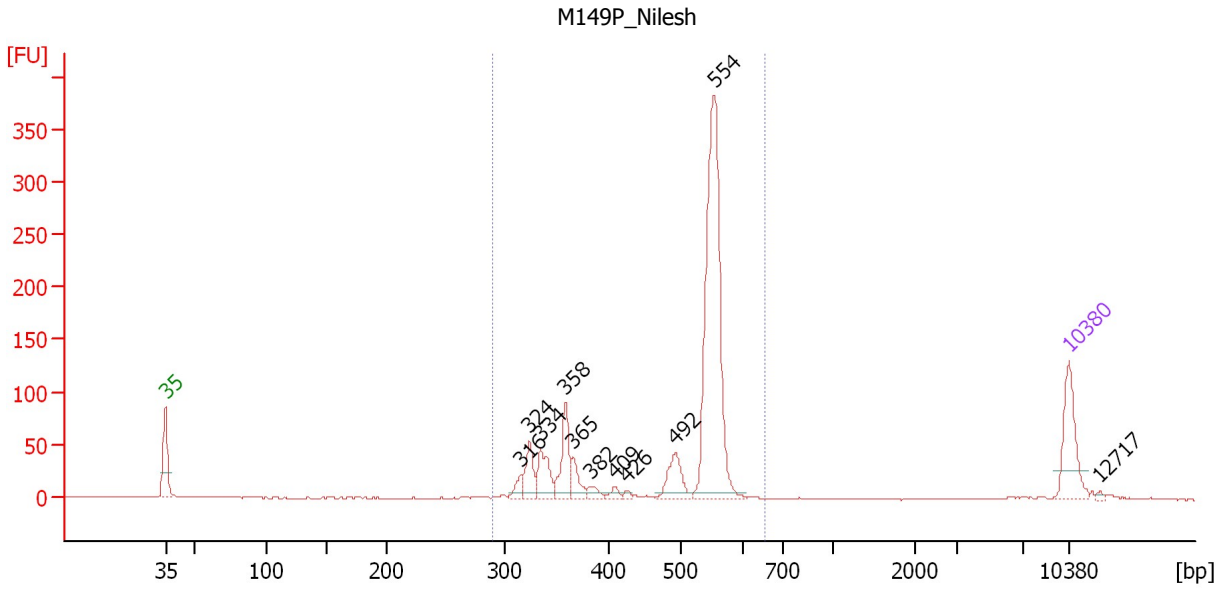
Region table for sample 1 : M149P_Nilesh

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
271	492	659	1,477.9	4,560.0	96	18.7	1,379.84

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : M149P_Nilesh

Number of peaks found: 11 Corr. Area 1: 977.4
 Noise: 0.3

Peak table for sample 2 : M149P_Nilesh

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	316	18.33	88.0		70.57
3	324	49.24	230.6		71.21
4	334	61.06	276.7		72.08
5	358	75.18	318.1		73.99
6	365	31.34	129.9		74.58
7	382	13.64	54.0		75.95
8	409	9.64	35.7		77.86
9	426	5.33	19.0		78.82
10	492	58.30	179.6		82.51
11	554	466.99	1,277.7		85.52
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,717	0.00	0.0		115.42

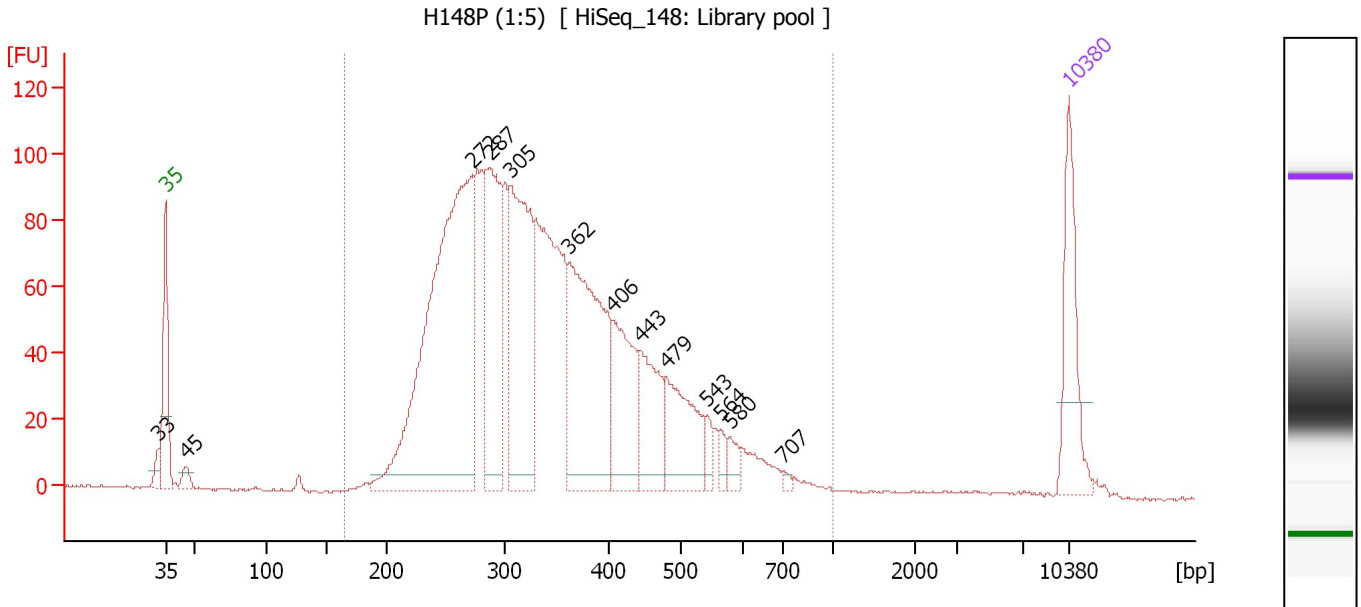
Region table for sample 2 : M149P_Nilesh

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
289	491	657	977.4	2,651.6	94	18.5	803.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : H148P (1:5)

Number of peaks found: 13 Corr. Area 1: 2,287.2
 Noise: 0.2

Peak table for sample 3 : H148P (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.44
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	15.23	509.6		44.58
4	272	634.97	3,534.0		66.78
5	287	202.36	1,068.3		68.13
6	305	265.57	1,319.9		69.70
7	362	283.26	1,186.0		74.29
8	406	118.82	442.9		77.72
9	443	89.69	306.9		79.76
10	479	101.20	320.0		81.80
11	543	17.11	47.8		85.00
12	564	11.13	29.9		86.02
13	580	15.51	40.5		86.76
14	707	4.38	9.4		90.89
15	10,380	75.00	10.9	Upper Marker	113.00

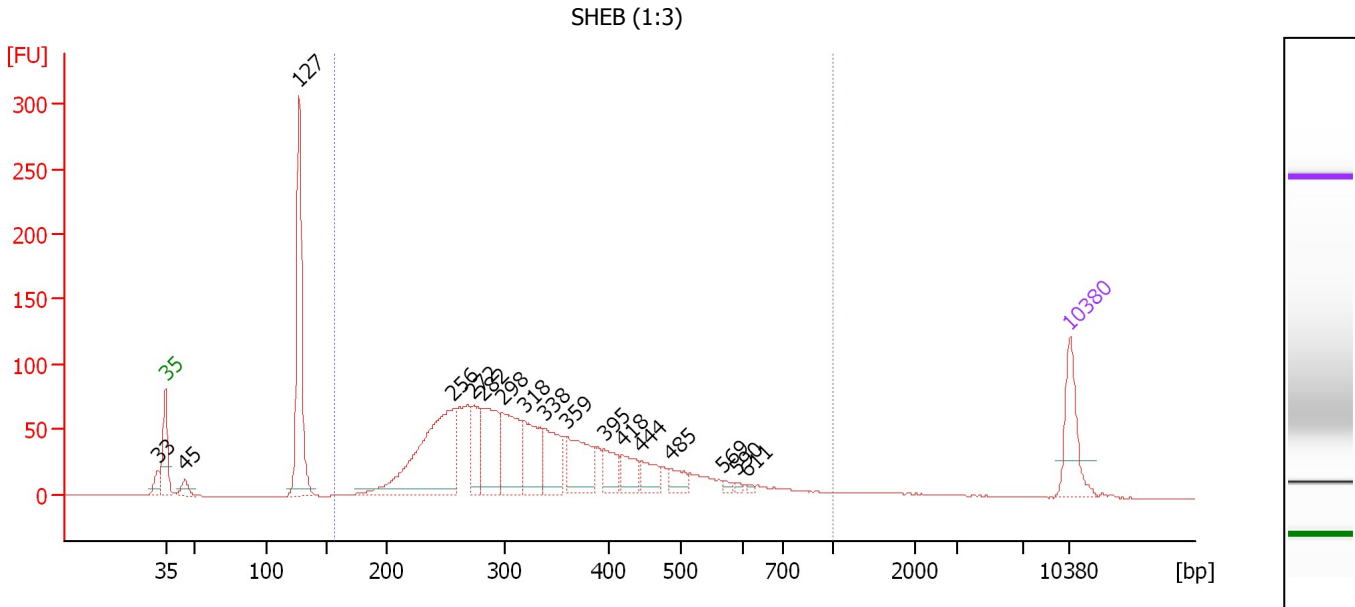
Region table for sample 3 : H148P (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
164	351	1,000	2,287.2	11,082.2	98	30.1	2,317.56

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SHEB (1:3)

Number of peaks found: 17 Corr. Area 1: 1,685.6
 Noise: 0.2

Peak table for sample 4 : SHEB (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.39
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	27.58	932.1		44.51
4	127	373.81	4,457.6		53.36
5	256	369.02	2,186.0		65.28
6	272	77.71	432.4		66.79
7	282	155.69	837.6		67.64
8	298	141.87	722.1		69.10
9	318	123.67	588.5		70.79
10	338	97.95	438.7		72.39
11	359	113.65	479.1		74.09
12	395	51.32	196.8		76.96
13	418	48.95	177.4		78.38
14	444	41.06	140.1		79.84
15	485	31.14	97.2		82.15
16	569	6.66	17.7		86.24
17	590	5.24	13.5		87.23
18	611	3.63	9.0		88.03
19	10,380	75.00	10.9	Upper Marker	113.00

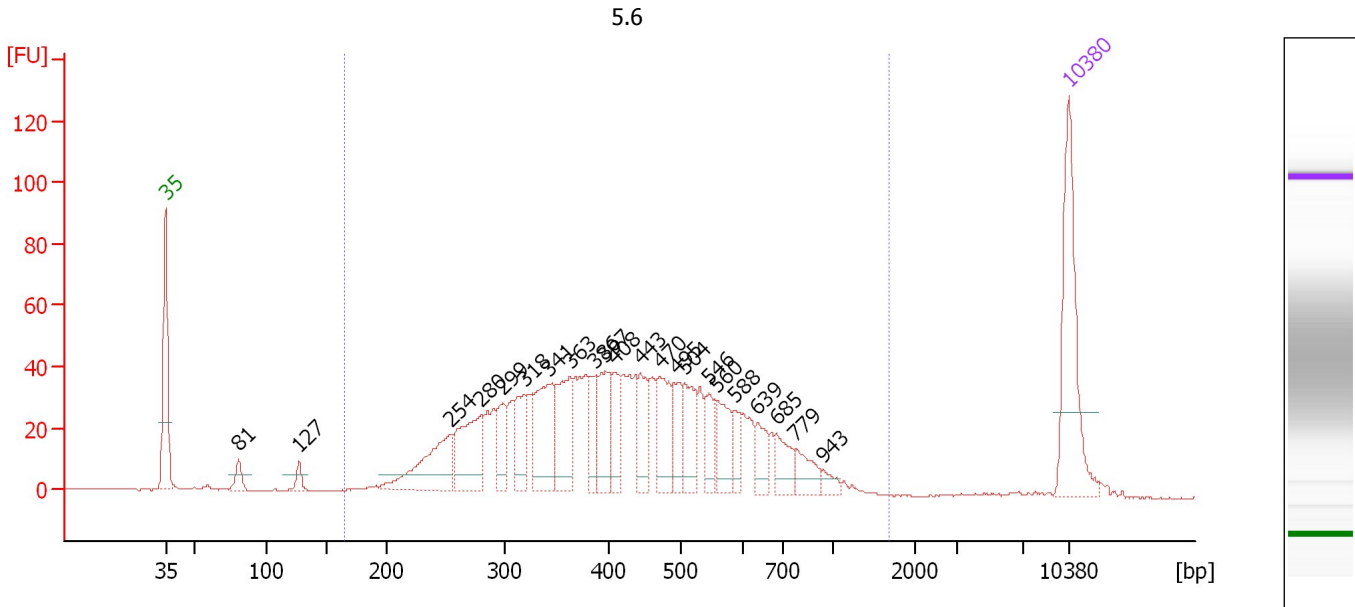
Region table for sample 4 : SHEB (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
156	351	1,000	1,685.6	8,164.9	80	34.5	1,665.39

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5.6

Number of peaks found: 22 Corr. Area 1: 1,249.2
 Noise: 0.2

Peak table for sample 5 : 5.6


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	81	14.45	271.8		48.68
3	127	10.02	119.6		53.35
4	254	73.48	438.9		65.09
5	280	69.10	374.1		67.48
6	299	28.19	143.0		69.20
7	318	37.32	177.7		70.77
8	341	69.67	309.3		72.63
9	363	54.74	228.7		74.35
10	386	25.42	99.7		76.26
11	397	40.96	156.3		77.12
12	408	28.87	107.3		77.79
13	443	34.71	118.6		79.79
14	470	45.14	145.4		81.32
15	495	25.00	76.5		82.70
16	504	36.60	110.0		83.18
17	546	23.16	64.3		85.13
18	560	32.63	88.3		85.80
19	588	14.09	36.3		87.14
20	639	19.06	45.2		88.90
21	685	21.80	48.2		90.33
22	779	18.82	36.6		91.81
23	943	6.72	10.8		93.91
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...

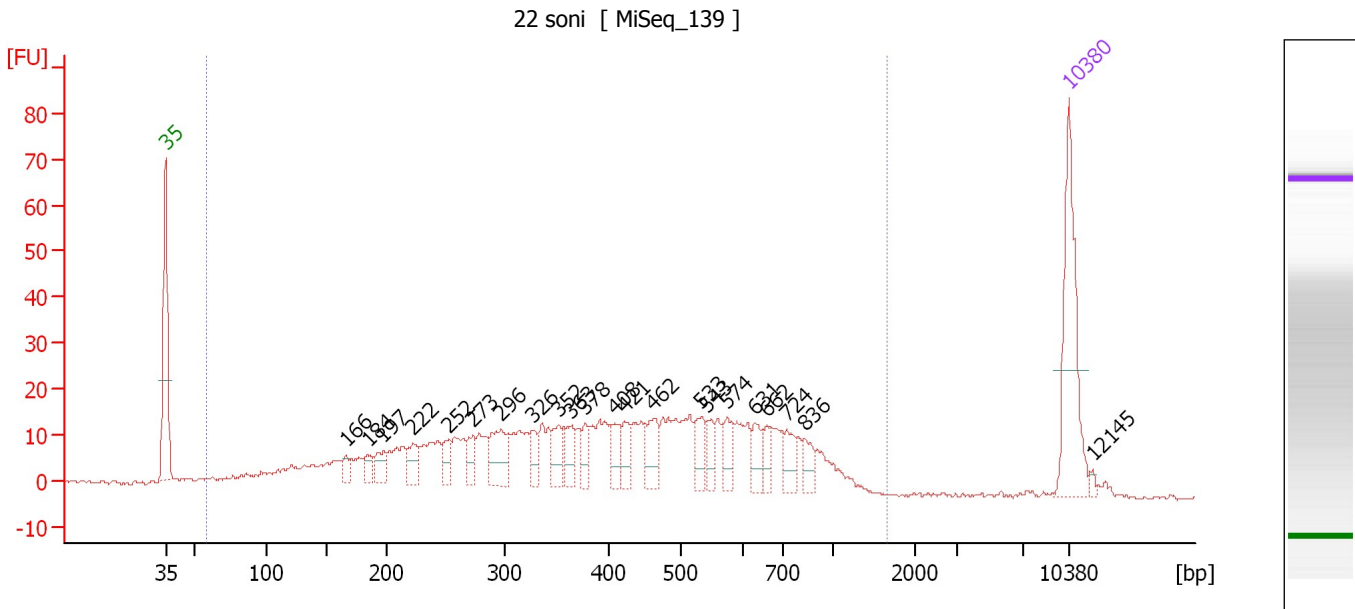
... Region table for sample 5 : 5.6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
164	447	1,677	1,249.2	4,081.1	 96	38.0	1,015.46

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 22 soni

Number of peaks found: 22 Corr. Area 1: 715.7
 Noise: 0.3

Peak table for sample 6 : 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	166	10.34	94.6		56.97
3	184	11.73	96.6		58.70
4	197	17.94	138.1		59.90
5	222	20.16	137.6		62.20
6	252	14.64	88.0		64.94
7	273	16.43	91.3		66.81
8	296	39.36	201.3		68.97
9	326	15.43	71.7		71.42
10	352	22.98	99.0		73.49
11	363	20.22	84.4		74.40
12	378	15.29	61.4		75.55
13	408	17.42	64.7		77.81
14	421	17.58	63.3		78.53
15	462	25.99	85.3		80.83
16	533	20.54	58.4		84.53
17	543	14.35	40.0		85.01
18	574	17.94	47.3		86.50
19	631	16.25	39.0		88.66
20	662	12.28	28.1		89.62
21	724	17.85	37.4		91.11
22	836	13.51	24.5		92.55
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,145	0.00	0.0		114.82

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...

... Region table for sample 6 : 22 soni

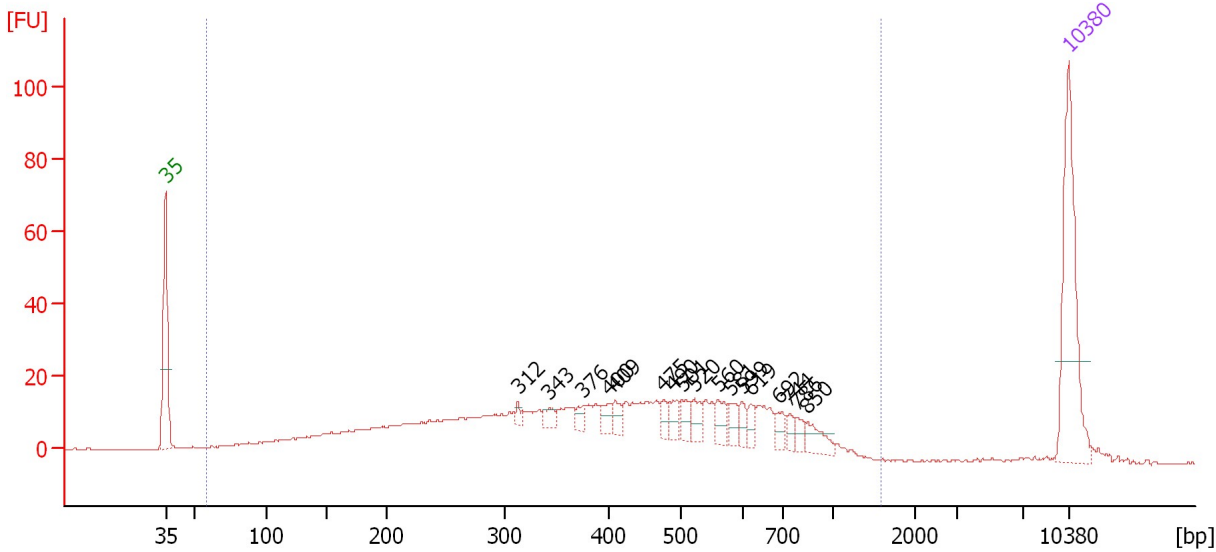
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
57	438	1,660	715.7	5,520.6	 97	50.4	1,010.28

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...

48 soni [MiSeq_139]



Overall Results for sample 7 : 48 soni

Number of peaks found: 17 Corr. Area 1: 674.1
 Noise: 0.2

Peak table for sample 7 : 48 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	312	4.41	21.4		70.31
3	343	8.36	37.0		72.74
4	376	6.71	27.1		75.40
5	400	9.51	36.0		77.35
6	409	8.08	29.9		77.88
7	475	8.01	25.6		81.57
8	490	9.47	29.3		82.39
9	501	9.74	29.5		83.02
10	520	11.40	33.2		83.94
11	560	12.30	33.3		85.83
12	581	10.09	26.3		86.80
13	599	7.54	19.1		87.68
14	619	8.07	19.7		88.31
15	692	8.68	19.0		90.54
16	744	6.29	12.8		91.36
17	786	6.91	13.3		91.90
18	850	13.19	23.5		92.72
19	10,380	75.00	10.9	Upper Marker	113.00

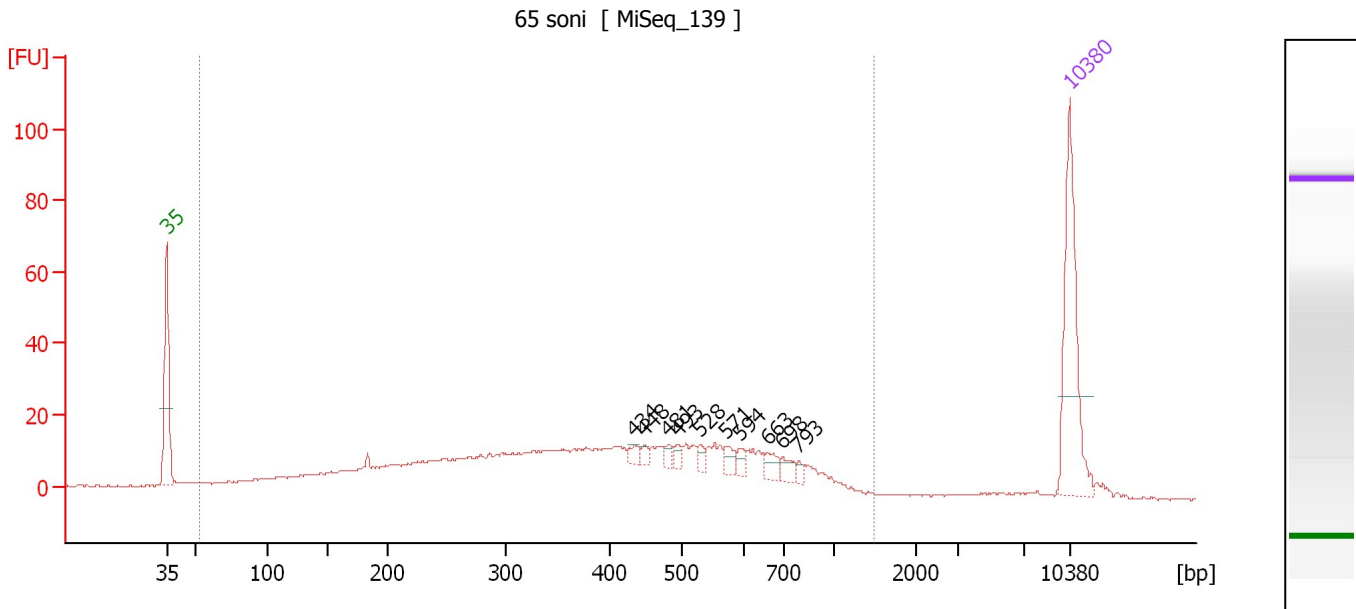
Region table for sample 7 : 48 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
59	431	1,591	674.1	3,931.9	98	48.2	717.02

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 65 soni

Number of peaks found: 10 Corr. Area 1: 621.4
 Noise: 0.3

Peak table for sample 8 : 65 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	434	5.37	18.8		79.25
3	448	4.53	15.3		80.03
4	481	5.01	15.8		81.88
5	493	5.12	15.7		82.57
6	528	5.42	15.6		84.28
7	571	7.99	21.2		86.33
8	594	6.02	15.4		87.40
9	663	8.83	20.2		89.65
10	698	8.50	18.5		90.73
11	793	3.76	7.2		92.00
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : 65 soni

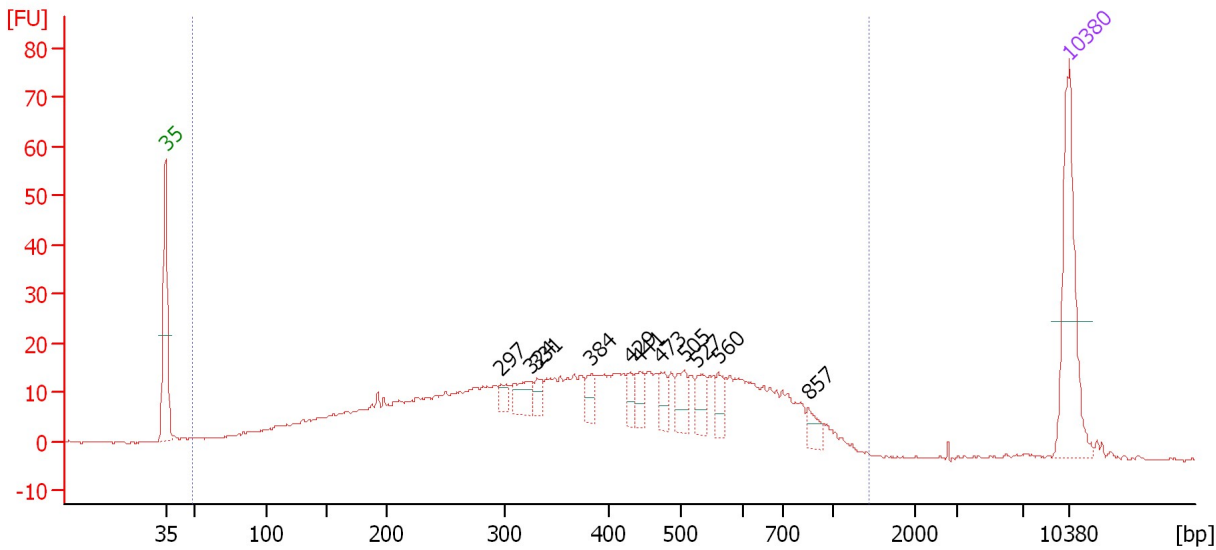
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
52	423	1,505	621.4	4,134.5	94	50.6	708.91

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...

66 soni [MiSeq_139]



Overall Results for sample 9 : 66 soni

Number of peaks found: 11 Corr. Area 1: 738.0
 Noise: 0.1

Peak table for sample 9 : 66 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	297	9.65	49.2		69.04
3	324	22.61	105.7		71.26
4	331	11.24	51.5		71.80
5	384	13.83	54.6		76.03
6	429	12.27	43.3		78.98
7	441	13.49	46.3		79.67
8	473	13.55	43.4		81.45
9	505	20.63	61.9		83.22
10	527	16.18	46.5		84.25
11	560	15.89	43.0		85.83
12	857	11.45	20.2		92.82
13	10,380	75.00	10.9	Upper Marker	113.00

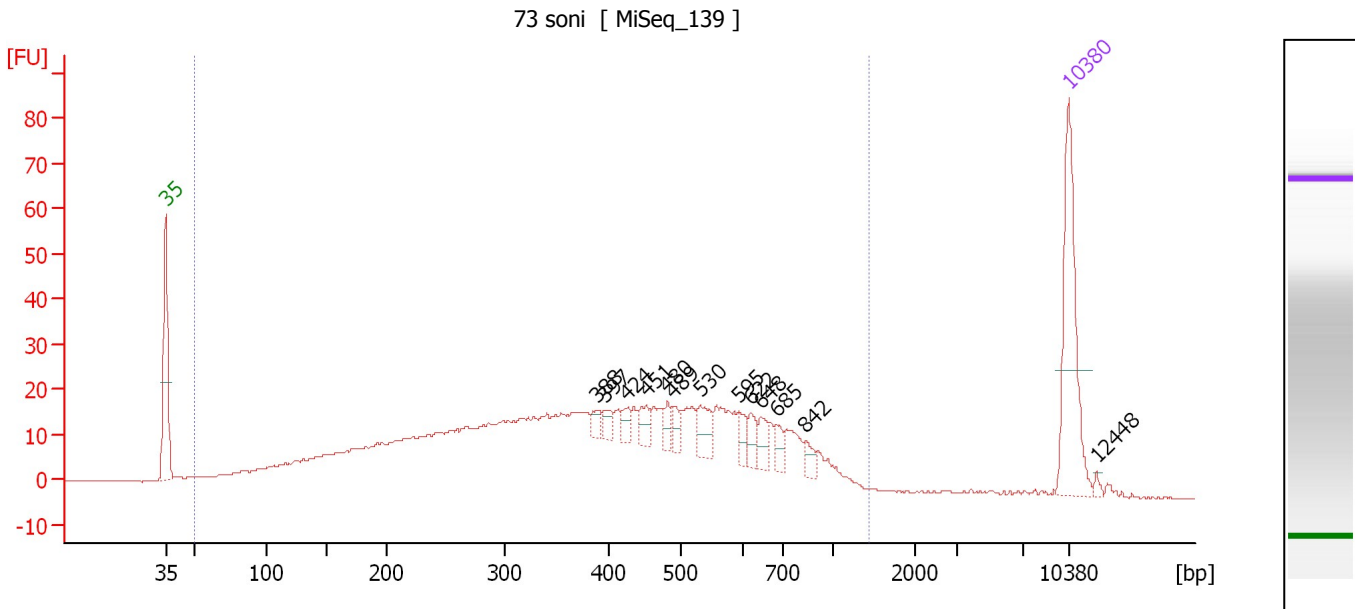
Region table for sample 9 : 66 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
48	413	1,438	738.0	6,407.8	98	48.8	1,103.77

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 73 soni

Number of peaks found: 13 Corr. Area 1: 821.8
 Noise: 0.2

Peak table for sample 10 : 73 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	388	8.51	33.2		76.41
3	397	7.80	29.8		77.11
4	424	7.85	28.1		78.70
5	451	12.63	42.4		80.24
6	480	9.89	31.2		81.88
7	489	9.78	30.3		82.38
8	530	20.55	58.7		84.41
9	595	10.41	26.5		87.45
10	622	11.72	28.5		88.39
11	648	12.22	28.6		89.19
12	685	8.59	19.0		90.33
13	842	8.60	15.5		92.62
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,448	0.00	0.0		115.14

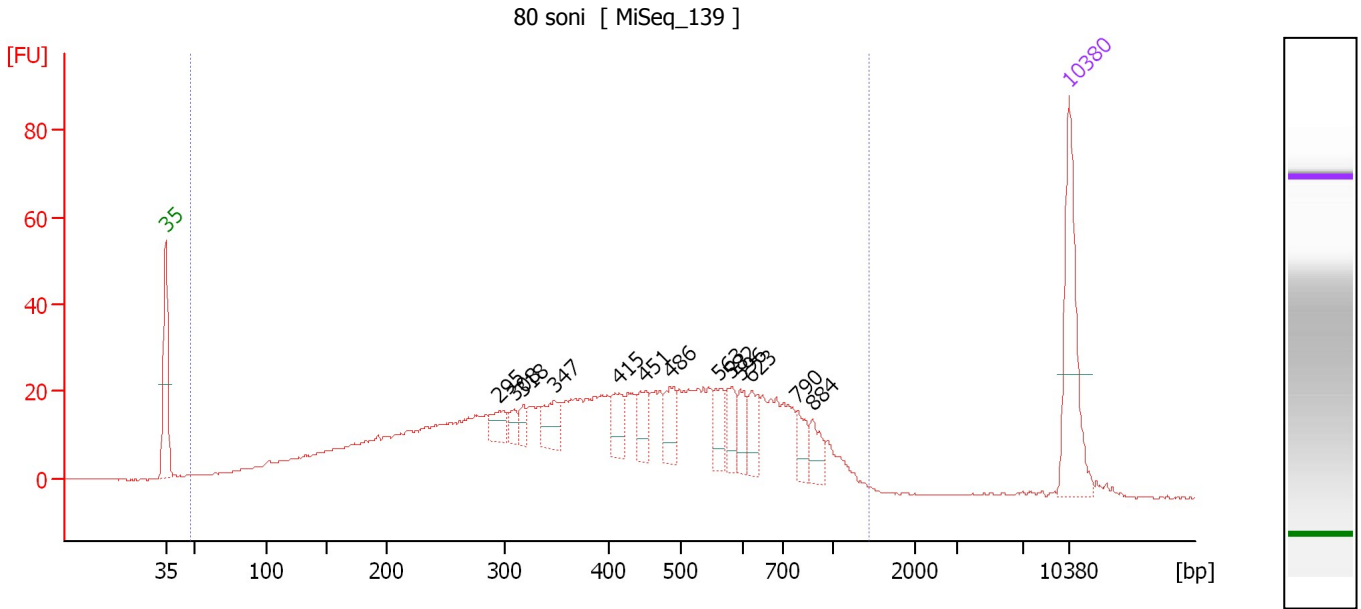
Region table for sample 10 : 73 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
50	424	1,455	821.8	6,401.2	97	49.3	1,134.38

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

Created: 7/15/2015 9:50:48 AM
 Modified: 7/15/2015 10:57:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 80 soni

Number of peaks found: 13 Corr. Area 1: 998.3
 Noise: 0.1

Peak table for sample 11 : 80 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	295	19.18	98.4		68.88
3	308	11.08	54.4		69.99
4	318	11.46	54.6		70.75
5	347	28.96	126.3		73.12
6	415	24.23	88.4		78.20
7	451	25.56	85.9		80.22
8	486	28.55	89.0		82.18
9	563	22.87	61.5		85.96
10	582	20.29	52.8		86.86
11	596	20.40	51.9		87.52
12	623	20.43	49.7		88.42
13	790	17.22	33.0		91.95
14	884	17.45	29.9		93.16
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 80 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
48	438	1,437	998.3	7,370.3	99	49.6	1,332.18

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-15\2015-07-15_001.xad

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Modified: 7/15/2015 10:57:04 AM

Gel Image

