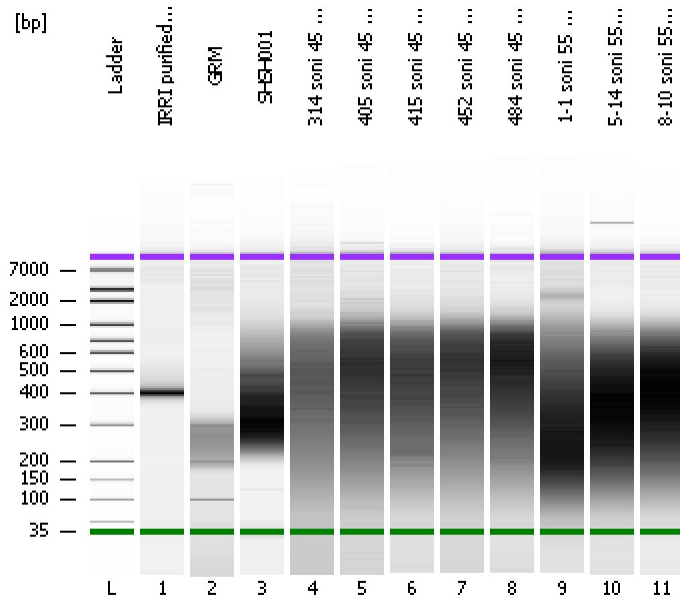


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 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

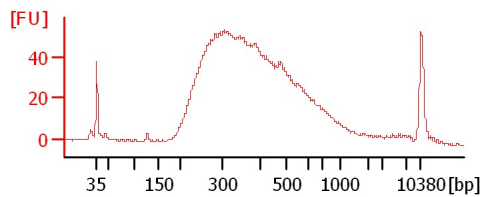
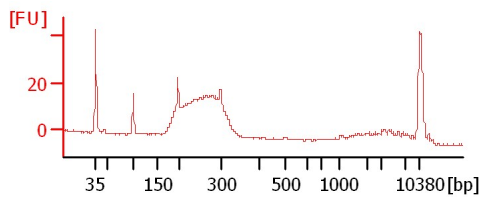
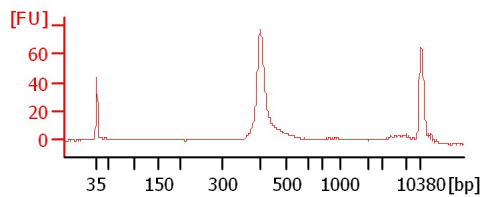
#### Chip Information:

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

IRRI purified (1:3)

GRM

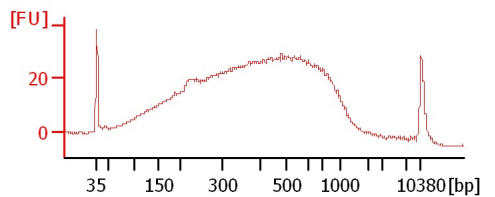
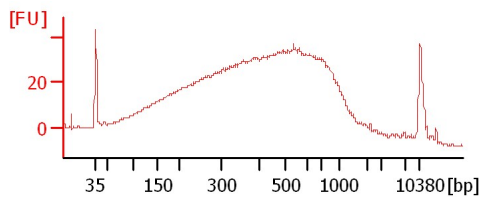
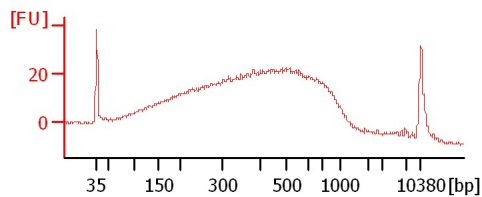
SHSH001



314 soni 45 sec

405 soni 45 sec

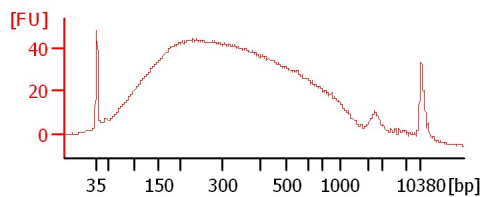
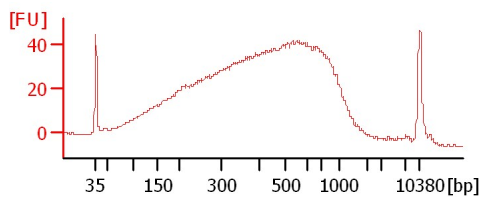
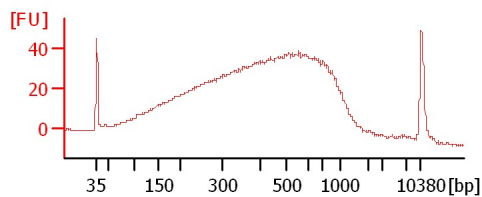
415 soni 45 sec



452 soni 45 sec

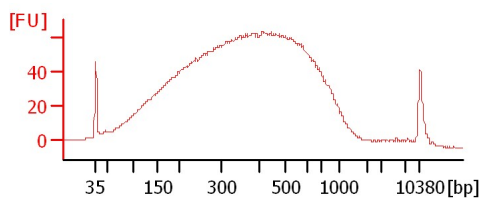
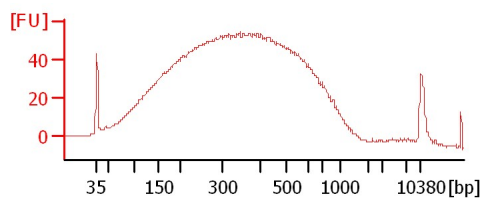
484 soni 45 sec

1-1 soni 55 sec



5-14 soni 55 sec

8-10 soni 55 sec



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
IRRI purified (1:3)		<input type="checkbox"/>	✓			
GRM		<input type="checkbox"/>	✓			
SHSH001		<input type="checkbox"/>	✓			
314 soni 45 sec		<input type="checkbox"/>	✓			
405 soni 45 sec		<input type="checkbox"/>	✓			
415 soni 45 sec		<input type="checkbox"/>	✓			
452 soni 45 sec		<input type="checkbox"/>	✓			
484 soni 45 sec		<input type="checkbox"/>	✓			
1-1 soni 55 sec		<input type="checkbox"/>	✓			
5-14 soni 55 sec		<input type="checkbox"/>	✓			
8-10 soni 55 sec		<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\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 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

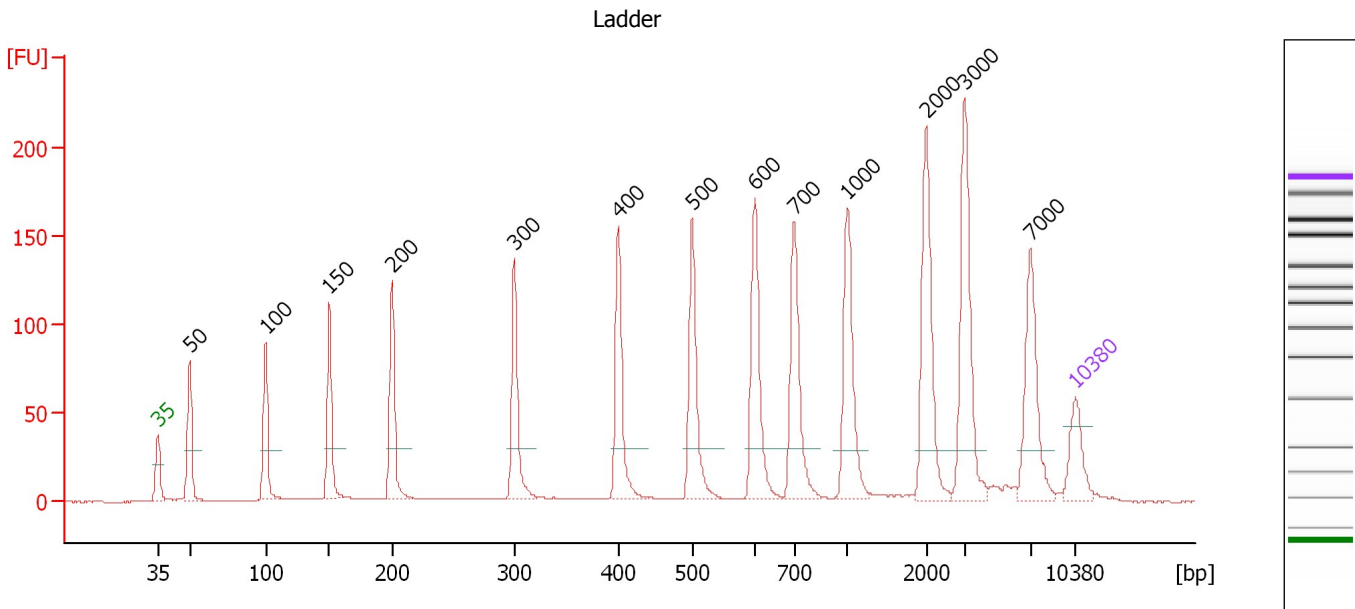
**Ladder**

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:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

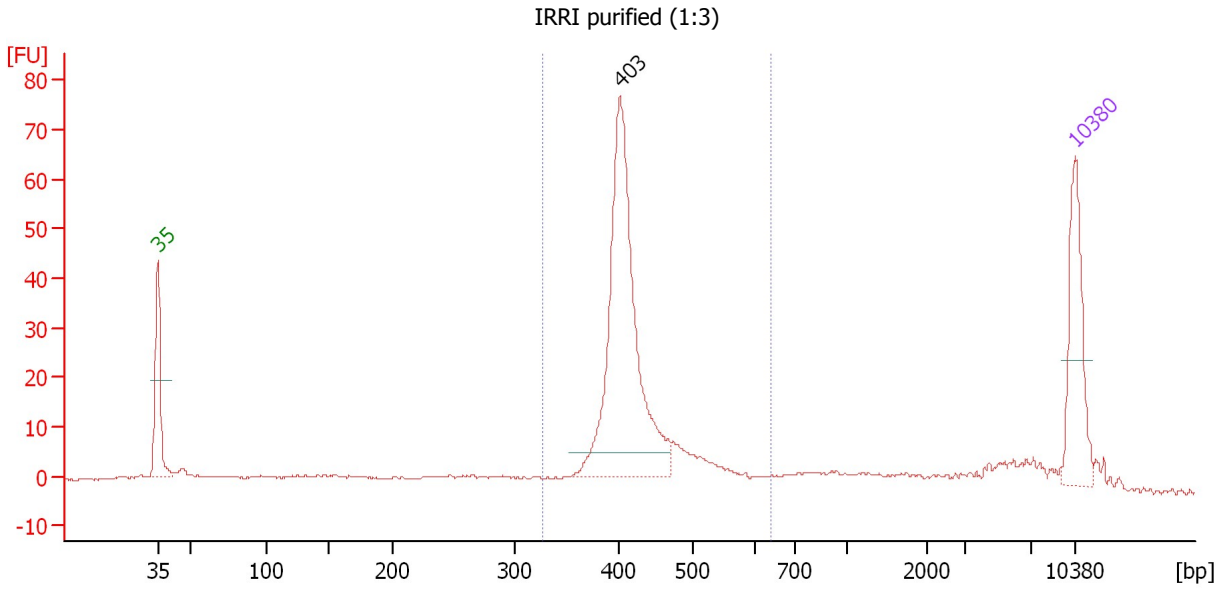
**Peak table for Ladder**

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	45.45
3	100	150.00	2,272.7	Ladder Peak	51.25
4	150	150.00	1,515.2	Ladder Peak	56.11
5	200	150.00	1,136.4	Ladder Peak	60.88
6	300	150.00	757.6	Ladder Peak	70.22
7	400	150.00	568.2	Ladder Peak	78.14
8	500	150.00	454.5	Ladder Peak	83.80
9	600	150.00	378.8	Ladder Peak	88.57
10	700	150.00	324.7	Ladder Peak	91.58
11	1,000	150.00	227.3	Ladder Peak	95.59
12	2,000	150.00	113.6	Ladder Peak	101.63
13	3,000	150.00	75.8	Ladder Peak	104.56
14	7,000	150.00	32.5	Ladder Peak	109.60
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : IRRI purified (1:3)**

Number of peaks found: 1                      Corr. Area 1: 294.7  
 Noise: 0.2

**Peak table for sample 1 : IRRI purified (1:3)**

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	403	343.29	1,290.8		78.31
3	10,380	75.00	10.9	Upper Marker	113.00

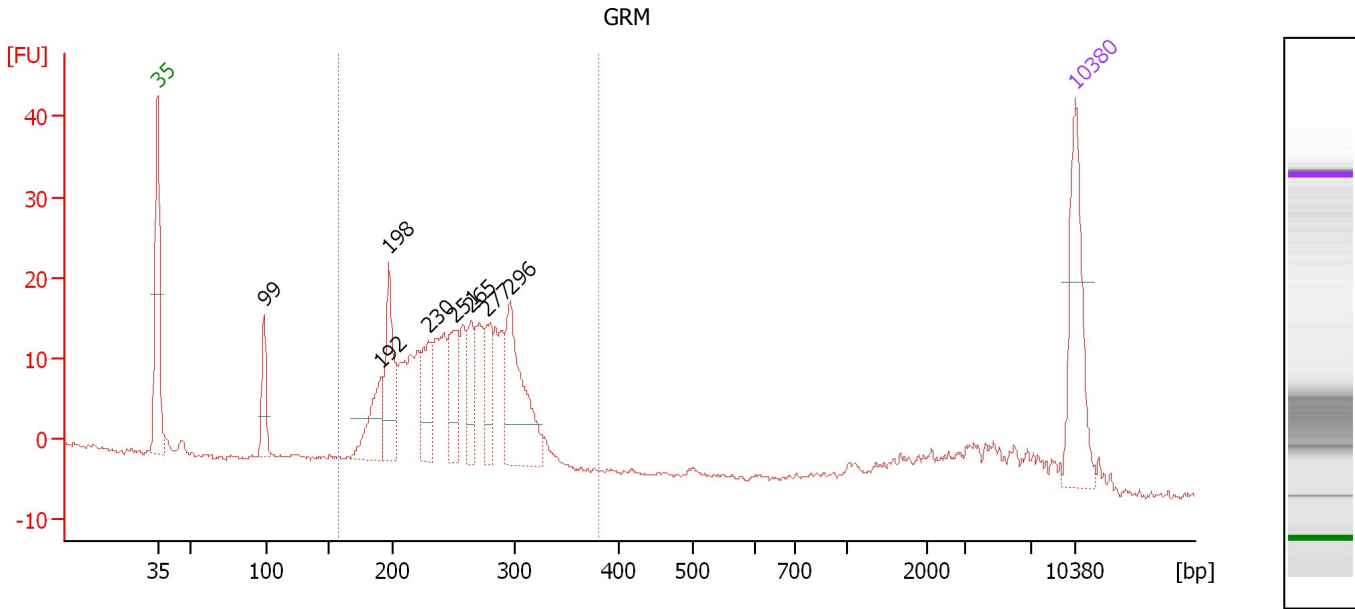
**Region table for sample 1 : IRRI purified (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
328	638	427	294.7	1,613.2	448.58	63	12.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : GRM**

Number of peaks found: 8                      Corr. Area 1: 285.1  
 Noise: 0.3

**Peak table for sample 2 : GRM**

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	99	43.56	669.3		51.09
3	192	58.74	464.3		60.09
4	198	76.47	586.2		60.65
5	230	49.88	329.3		63.64
6	251	56.88	343.6		65.62
7	265	41.87	239.4		66.95
8	277	46.86	256.2		68.08
9	296	116.38	594.9		69.88
10	10,380	75.00	10.9	Upper Marker	113.00

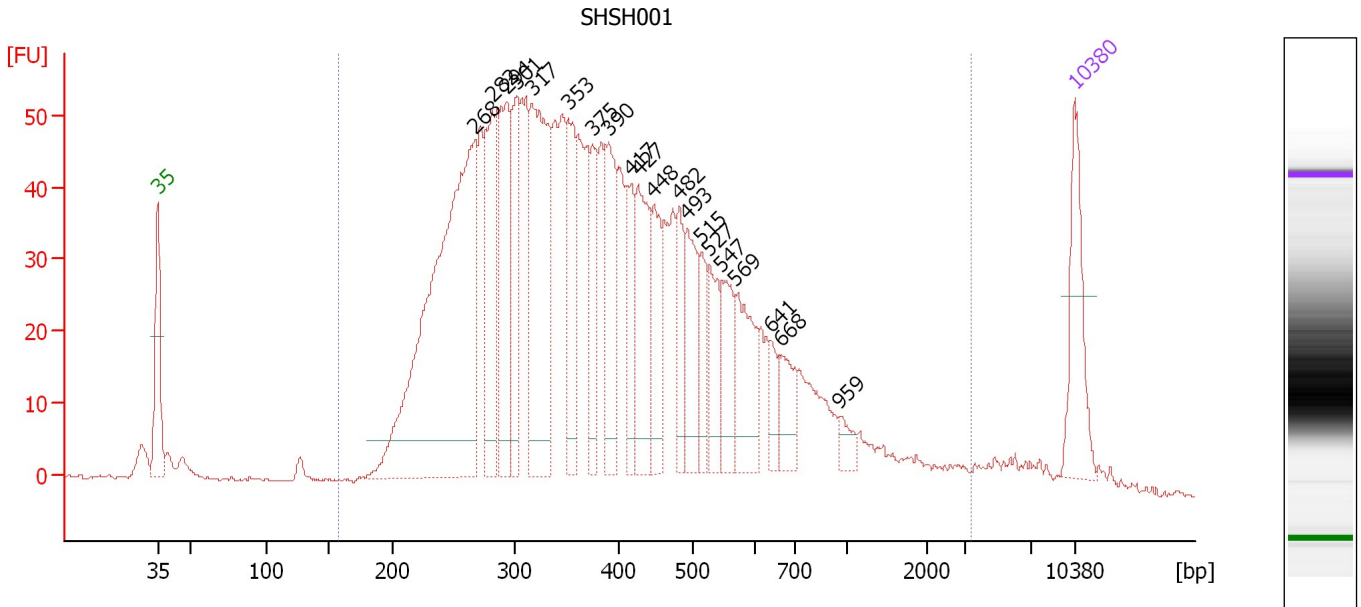
**Region table for sample 2 : GRM**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
158	382	252	285.1	4,624.6	751.72	82	15.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SHSH001**

Number of peaks found: 20      Corr. Area 1: 1,669.6  
 Noise: 0.2


**Peak table for sample 3 : SHSH001**

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	268	678.22	3,840.1		67.19
3	282	150.63	808.2		68.57
4	294	177.36	913.7		69.67
5	301	109.60	550.8		70.33
6	317	265.51	1,268.7		71.57
7	353	111.71	480.1		74.38
8	375	80.53	325.0		76.19
9	390	117.67	456.7		77.38
10	417	71.10	258.4		79.10
11	427	126.01	447.2		79.67
12	448	80.71	273.0		80.86
13	482	55.95	176.0		82.76
14	493	89.31	274.2		83.43
15	515	45.23	133.0		84.52
16	527	59.16	170.0		85.10
17	547	63.54	176.0		86.05
18	569	88.48	235.5		87.10
19	641	23.16	54.7		89.81
20	668	41.03	93.1		90.62
21	959	15.35	24.2		95.05
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...****... Region table for sample 3 :      SHSH001**

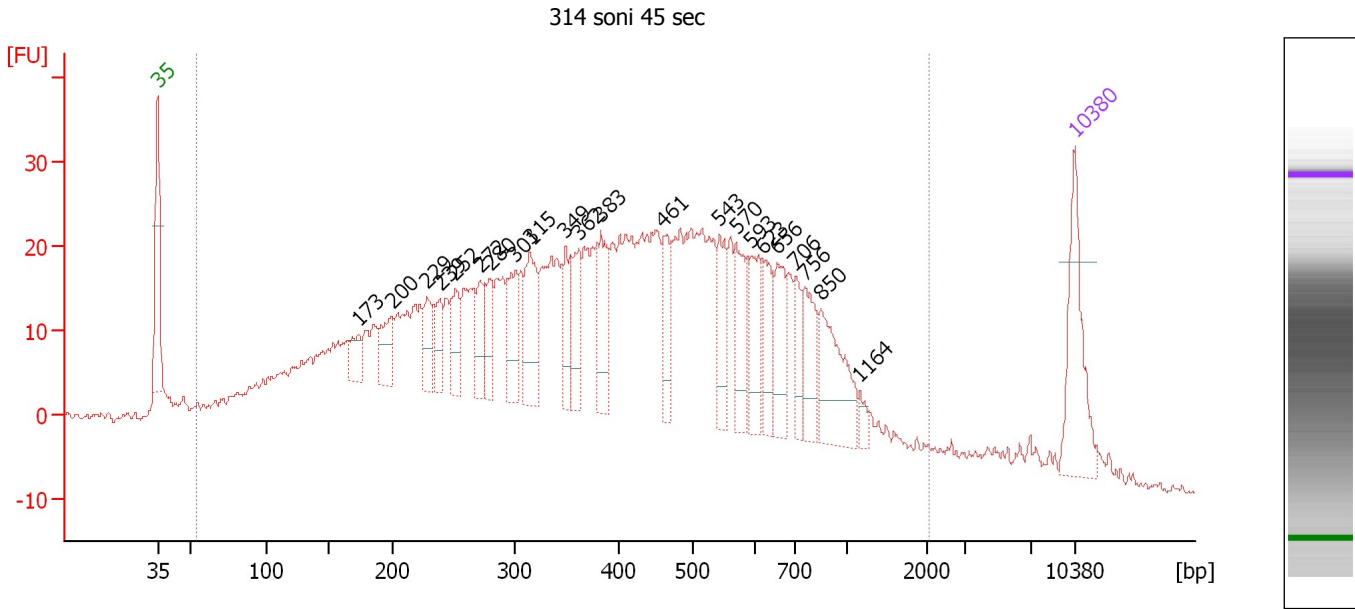
<b>From [bp]</b>	<b>To [bp]</b>	<b>Average Size [bp]</b>	<b>Corr. Area</b>	<b>Molarity [pmol/l]</b>	<b>Co Conc. lor [pg/μl]</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>
157	3,413	450	1,669.6	16,031.7	 3,676.26	96	69.4



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 314 soni 45 sec**

Number of peaks found: 22                      Corr. Area 1: 1,230.4  
 Noise: 0.4

**Peak table for sample 4 : 314 soni 45 sec**

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	173	29.57	259.0		58.30
3	200	46.55	352.9		60.86
4	229	38.14	252.6		63.57
5	239	32.67	207.0		64.53
6	252	43.29	260.2		65.74
7	272	43.48	242.0		67.62
8	280	38.43	208.0		68.34
9	301	57.94	291.9		70.28
10	315	77.94	374.5		71.43
11	349	41.91	181.7		74.14
12	362	55.13	230.6		75.15
13	383	64.38	254.7		76.79
14	461	46.96	154.2		81.62
15	543	52.42	146.2		85.87
16	570	53.85	143.2		87.12
17	593	51.43	131.4		88.23
18	623	41.69	101.4		89.25
19	656	51.54	119.0		90.26
20	706	31.32	67.2		91.66
21	756	51.20	102.6		92.34
22	850	85.46	152.3		93.59
23	1,164	9.94	12.9		96.59
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**

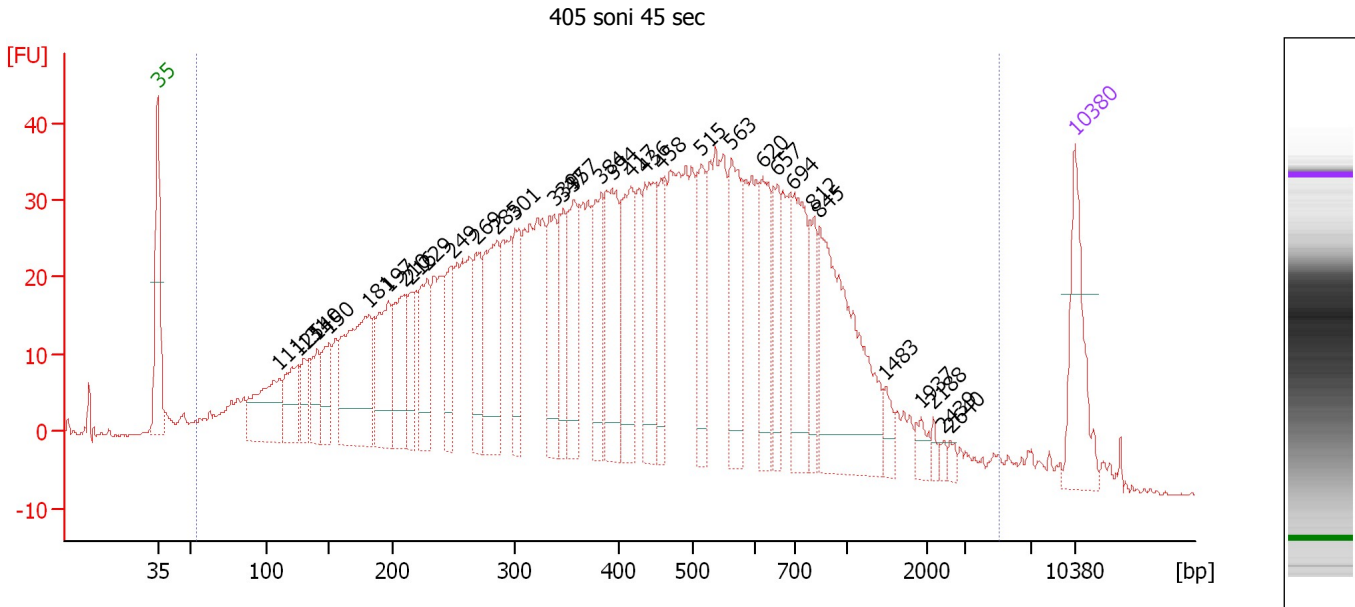
... Region table for sample 4 : 314 soni 45 sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
54	2,063	447	1,230.4	19,967.7	3,445.31	96	60.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 405 soni 45 sec**

Number of peaks found: 34                      Corr. Area 1: 1,779.1  
 Noise: 0.2

**Peak table for sample 5 : 405 soni 45 sec**

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	111	114.40	1,564.9		52.30
3	125	72.00	870.1		53.72
4	131	40.63	470.2		54.26
5	140	59.12	639.9		55.14
6	150	56.04	565.8		56.12
7	181	199.48	1,666.2		59.10
8	197	109.23	840.9		60.57
9	210	92.05	664.6		61.80
10	216	59.06	415.0		62.34
11	229	87.94	582.6		63.56
12	249	72.16	438.8		65.47
13	269	75.12	423.8		67.28
14	285	135.44	719.2		68.85
15	301	78.08	393.5		70.27
16	339	91.50	409.1		73.30
17	347	66.66	291.1		73.94
18	357	82.95	352.2		74.72
19	384	90.62	357.6		76.87
20	394	121.27	466.5		77.66
21	417	108.88	396.1		79.08
22	436	120.97	420.8		80.15
23	458	65.68	217.3		81.43
24	515	75.19	221.3		84.51
25	563	103.11	277.4		86.81

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : 405 soni 45 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	620	77.18	188.7		89.16
27	657	58.88	135.8		90.29
28	694	112.53	245.6		91.41
29	812	45.78	85.5		93.08
30	845	226.70	406.7		93.52
31	1,483	15.68	16.0		98.51
32	1,937	13.87	10.8		101.25
33	2,188	6.42	4.4		102.18
34	2,439	5.00	3.1		102.92
35	2,640	5.91	3.4		103.50
36	10,380	75.00	10.9	Upper Marker	113.00

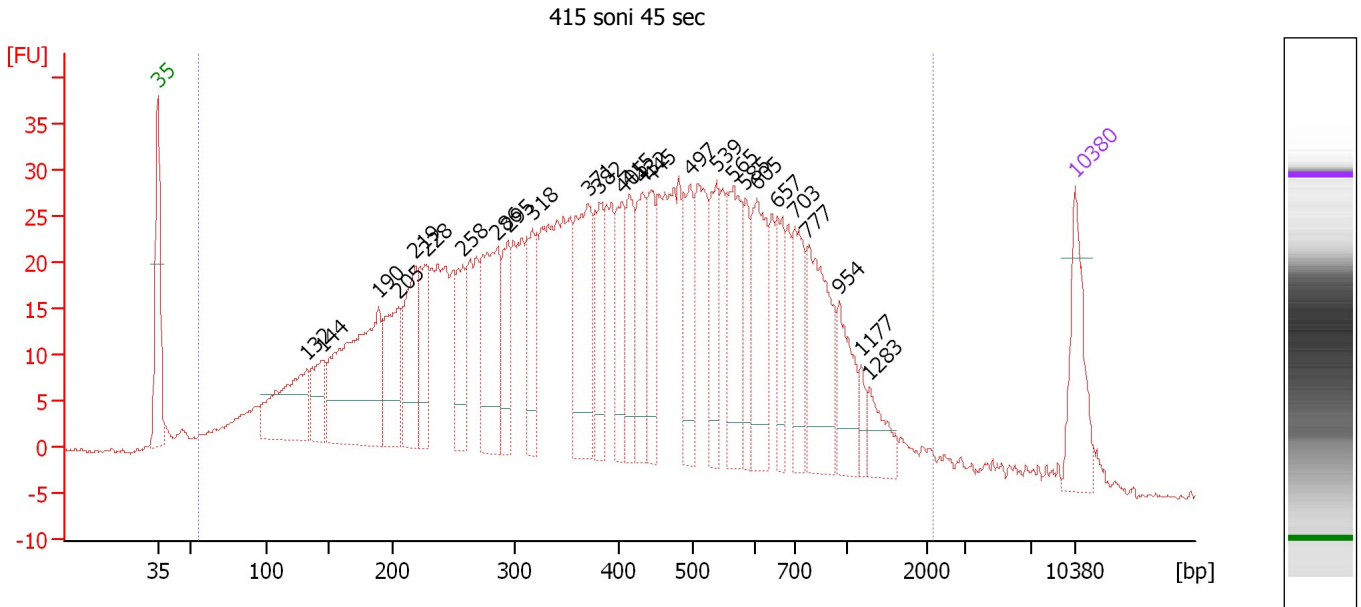
**Region table for sample 5 : 405 soni 45 sec**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
54	5,115	518	1,779.1	23,588.6	4,333.87	98	85.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 415 soni 45 sec**

Number of peaks found: 27                      Corr. Area 1: 1,428.0  
 Noise: 0.2

**Peak table for sample 6 : 415 soni 45 sec**

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	132	170.15	1,954.6		54.35
3	144	76.21	801.4		55.54
4	190	329.72	2,635.4		59.88
5	205	126.32	932.7		61.36
6	219	122.42	847.2		62.65
7	228	92.72	616.4		63.49
8	258	91.24	535.7		66.30
9	286	180.69	957.0		68.92
10	295	77.78	399.4		69.76
11	318	95.66	456.0		71.63
12	371	160.82	656.0		75.88
13	382	72.45	287.3		76.72
14	405	75.40	281.8		78.44
15	415	81.91	299.1		78.99
16	432	92.84	325.3		79.97
17	445	82.16	280.0		80.67
18	497	86.12	262.6		83.63
19	539	87.01	244.7		85.65
20	565	117.08	314.1		86.89
21	585	59.05	152.8		87.87
22	605	117.96	295.5		88.71
23	657	59.41	137.0		90.29
24	703	84.54	182.2		91.62
25	777	146.68	286.1		92.61

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : 415 soni 45 sec

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	954	69.72	110.7		94.98
27	1,177	18.17	23.4		96.66
28	1,283	40.69	48.1		97.30
29	10,380	75.00	10.9	Upper Marker	113.00

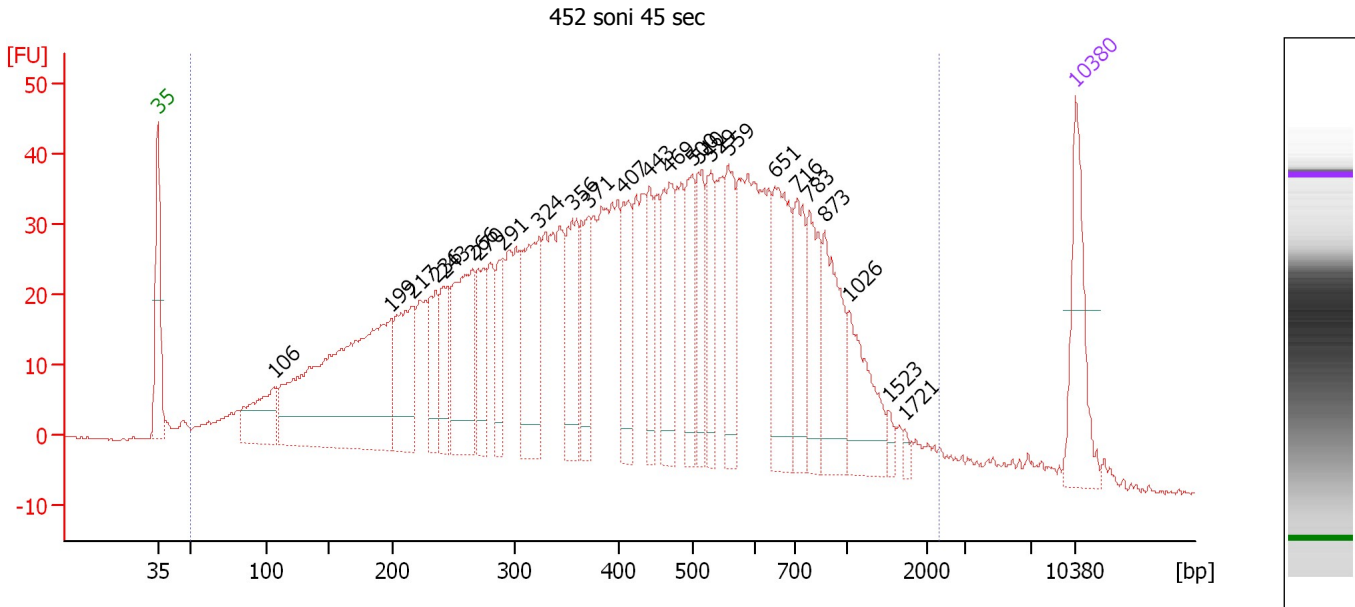
#### Region table for sample 6 : 415 soni 45 sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
55	2,174	458	1,428.0	26,562.4	4,764.03	98	61.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 452 soni 45 sec**

Number of peaks found: 25                      Corr. Area 1: 1,824.8  
 Noise: 0.2

**Peak table for sample 7 : 452 soni 45 sec**

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	106	94.54	1,349.8		51.85
3	199	461.66	3,511.7		60.80
4	217	124.54	870.2		62.45
5	236	64.85	416.1		64.25
6	243	62.92	393.1		64.85
7	266	160.64	914.7		67.05
8	270	61.68	345.7		67.45
9	291	56.97	296.9		69.35
10	324	132.50	618.9		72.15
11	356	104.34	444.2		74.65
12	371	67.46	275.4		75.85
13	407	72.40	269.4		78.55
14	443	59.77	204.6		80.55
15	469	101.27	327.1		82.05
16	500	74.55	225.9		83.80
17	510	64.96	192.8		84.30
18	529	63.22	181.0		85.20
19	559	78.64	213.3		86.60
20	651	123.82	288.3		90.10
21	716	77.59	164.2		91.80
22	783	76.10	147.2		92.70
23	873	98.75	171.4		93.90
24	1,026	79.20	117.0		95.75
25	1,523	8.98	8.9		98.75

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : 452 soni 45 sec

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,721	5.70	5.0		99.95
27	10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 7 : 452 soni 45 sec

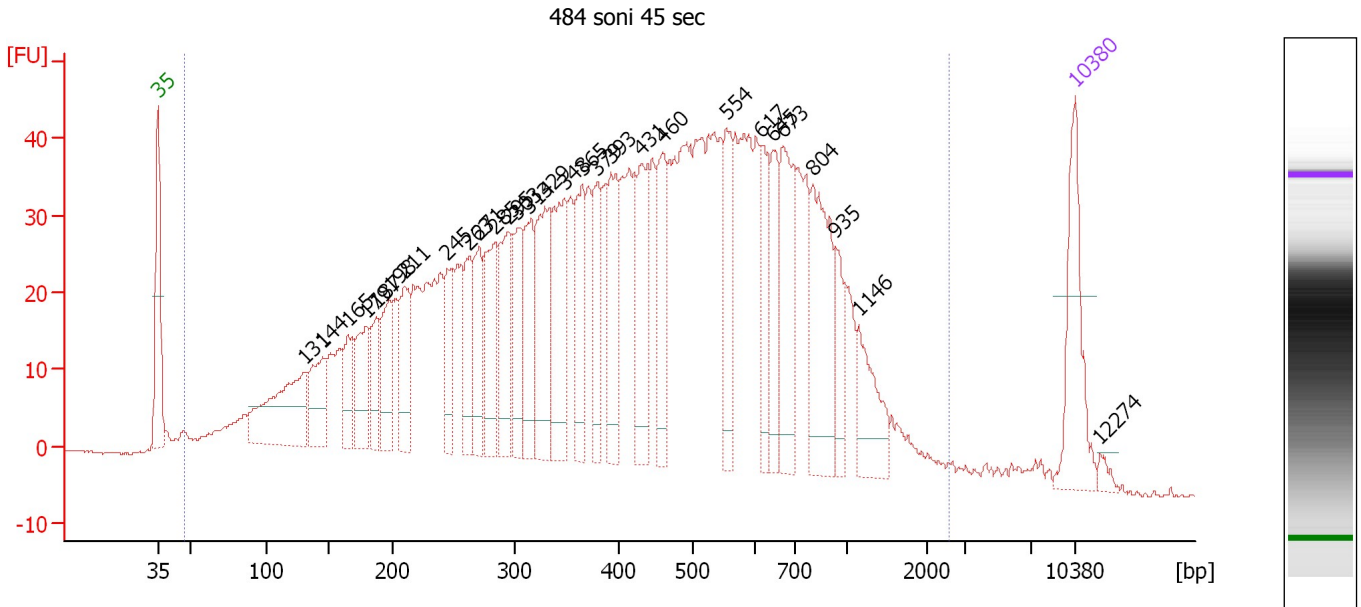
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
51	2,361	483	1,824.8	20,353.0	3,749.11	98	62.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 484 soni 45 sec**

Number of peaks found: 29                      Corr. Area 1: 1,742.7  
 Noise: 0.1

**Peak table for sample 8 : 484 soni 45 sec**

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	131	153.76	1,778.5		54.27
3	144	69.27	726.8		55.57
4	165	45.56	418.9		57.52
5	179	76.78	650.1		58.87
6	187	46.55	376.4		59.67
7	198	68.96	526.6		60.73
8	211	70.95	510.2		61.88
9	245	65.28	403.7		65.08
10	263	57.43	331.2		66.73
11	271	67.42	377.3		67.48
12	285	84.84	451.5		68.79
13	295	82.91	425.2		69.79
14	303	61.13	305.9		70.44
15	314	89.25	431.3		71.29
16	329	104.47	480.6		72.54
17	348	118.25	515.3		73.99
18	365	76.51	317.3		75.40
19	379	66.76	266.7		76.50
20	393	86.04	331.6		77.60
21	431	91.03	319.9		79.90
22	460	72.81	239.7		81.56
23	554	71.34	195.2		86.36
24	617	59.50	146.2		89.07
25	645	59.08	138.8		89.92

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : 484 soni 45 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	673	105.14	236.7		90.77
27	804	126.26	238.0		92.97
28	935	35.16	57.0		94.72
29	1,146	56.59	74.8		96.48
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,274	0.00	0.0		114.90

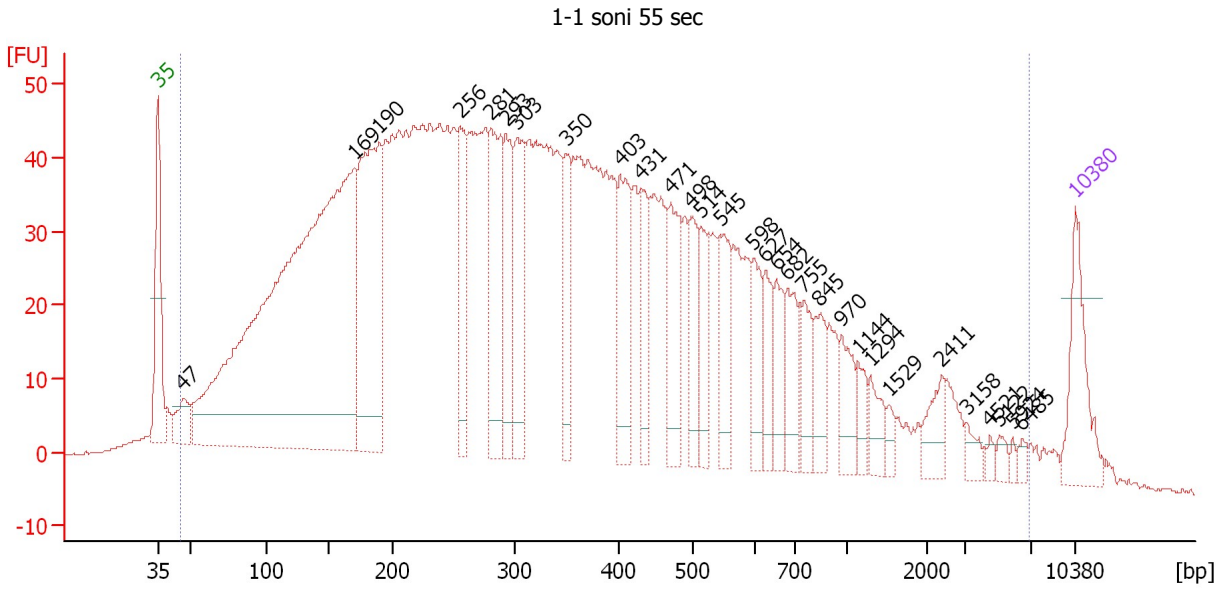
**Region table for sample 8 : 484 soni 45 sec**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
47	2,593	486	1,742.7	18,087.9	3,660.99	99	57.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1-1 soni 55 sec**

Number of peaks found: 30                      Corr. Area 1: 2,620.7  
 Noise: 0.2

**Peak table for sample 9 : 1-1 soni 55 sec**

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	47	52.43	1,699.2		44.92
3	169	1,462.31	13,071.6		57.97
4	190	390.08	3,116.1		59.89
5	256	130.75	775.3		66.06
6	281	183.00	986.8		68.44
7	293	124.47	642.7		69.60
8	303	145.95	729.6		70.46
9	350	90.68	392.9		74.16
10	403	121.01	455.1		78.30
11	431	70.95	249.7		79.87
12	471	108.83	350.3		82.15
13	498	65.67	200.0		83.66
14	514	61.79	182.1		84.47
15	545	77.57	215.7		85.94
16	598	56.83	144.0		88.47
17	627	47.45	114.7		89.38
18	654	48.65	112.7		90.19
19	682	61.32	136.2		91.05
20	755	49.87	100.1		92.31
21	845	47.16	84.5		93.53
22	970	43.90	68.6		95.20
23	1,144	21.30	28.2		96.46
24	1,294	28.16	33.0		97.37
25	1,529	11.88	11.8		98.79

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : 1-1 soni 55 sec

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,411	32.10	20.2		102.83
27	3,158	13.65	6.5		104.76
28	4,521	5.99	2.0		106.48
29	5,122	8.92	2.6		107.23
30	5,924	5.25	1.3		108.25
31	6,485	6.98	1.6		108.95
32	10,380	75.00	10.9	Upper Marker	113.00

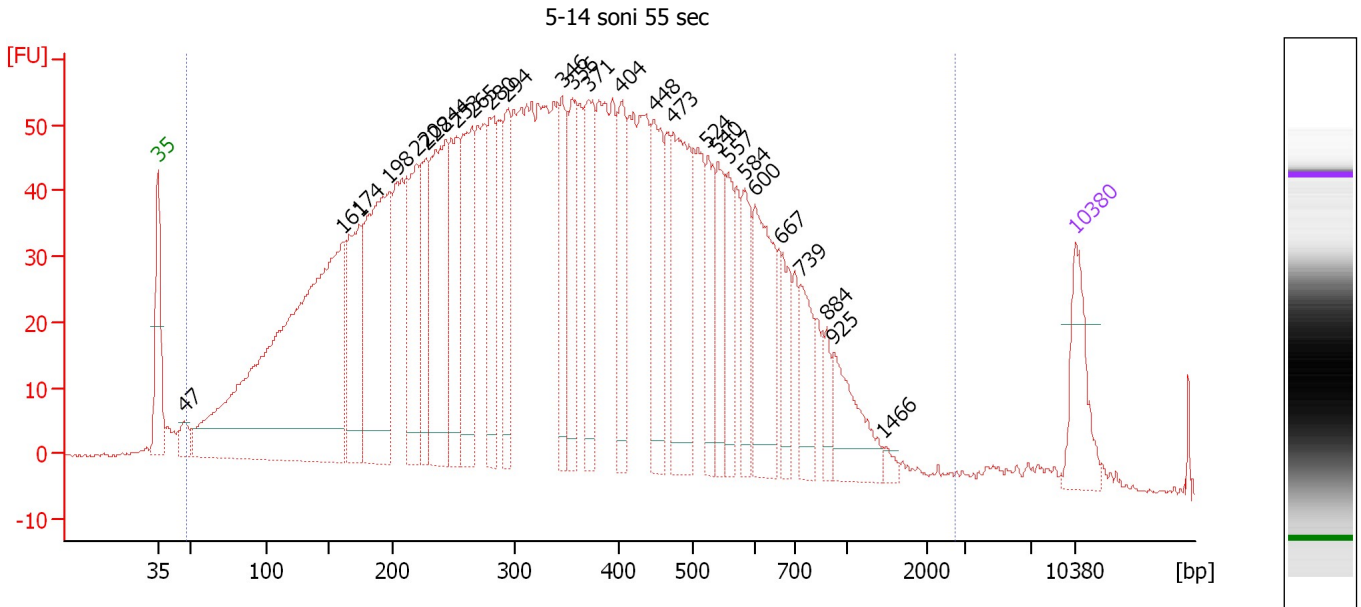
#### Region table for sample 9 : 1-1 soni 55 sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
46	6,919	494	2,620.7	50,860.1	7,013.07	98	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 5-14 soni 55 sec**

Number of peaks found: 27                      Corr. Area 1: 2,797.3  
 Noise: 0.2

**Peak table for sample 10 : 5-14 soni 55 sec**

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	47	30.33	975.1		44.98
3	161	1,091.60	10,292.4		57.13
4	174	224.88	1,957.9		58.40
5	198	391.21	2,993.0		60.69
6	220	209.36	1,439.8		62.77
7	228	131.36	871.1		63.54
8	244	293.53	1,824.8		64.96
9	253	173.84	1,041.2		65.82
10	265	212.89	1,214.9		66.99
11	280	172.57	933.2		68.37
12	294	130.16	670.0		69.69
13	346	128.28	561.9		73.86
14	356	125.64	534.4		74.67
15	371	148.41	606.2		75.84
16	404	120.87	453.1		78.38
17	448	148.23	501.1		80.87
18	473	237.73	760.9		82.30
19	524	87.13	252.0		84.94
20	540	83.43	234.2		85.70
21	557	79.01	214.9		86.51
22	584	81.38	211.3		87.79
23	600	168.49	425.7		88.55
24	667	65.18	148.1		90.58
25	739	69.88	143.3		92.11

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : 5-14 soni 55 sec

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	884	31.50	54.0		94.04
27	925	92.90	152.1		94.60
28	1,466	9.49	9.8		98.41
29	10,380	75.00	10.9	Upper Marker	113.00

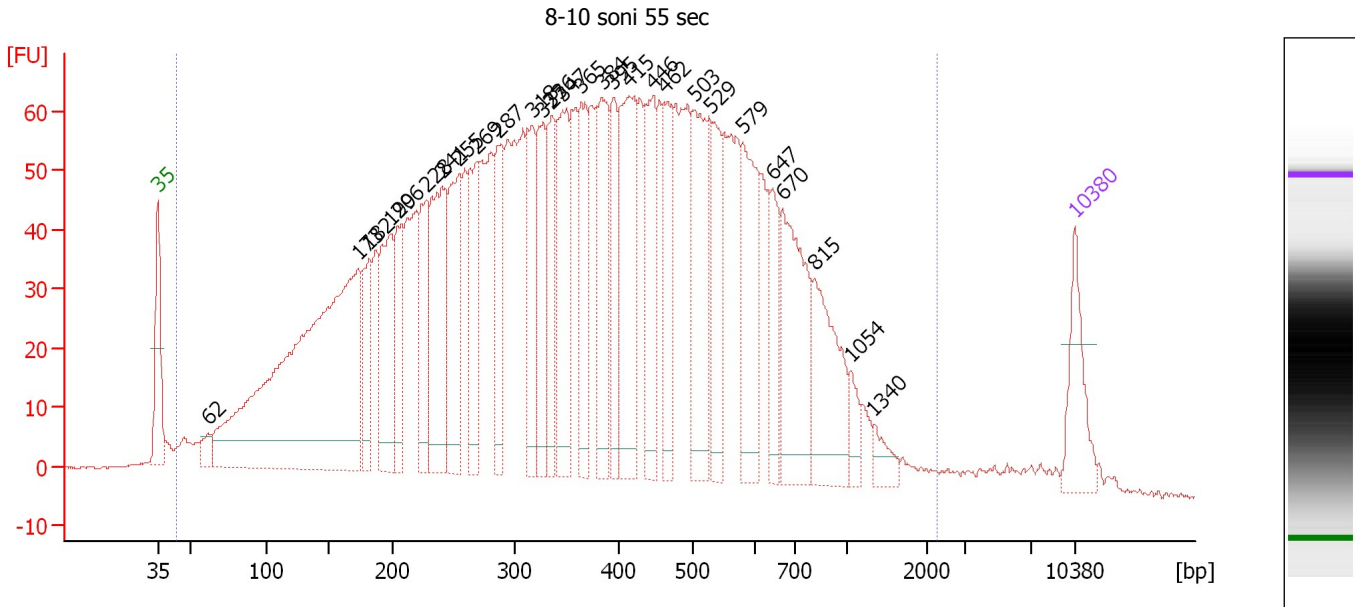
#### Region table for sample 10 : 5-14 soni 55 sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
48	2,765	387	2,797.3	45,744.5	7,113.43	98	61.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 8-10 soni 55 sec**

Number of peaks found: 28                      Corr. Area 1: 3,049.6  
 Noise: 0.2

**Peak table for sample 11 : 8-10 soni 55 sec**

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	62	30.49	743.3		46.86
3	173	1,087.82	9,529.2		58.30
4	182	119.83	997.4		59.17
5	199	198.20	1,508.3		60.79
6	206	121.59	896.0		61.40
7	228	145.79	969.1		63.49
8	241	254.52	1,600.2		64.71
9	255	207.15	1,230.1		66.03
10	269	160.98	905.7		67.35
11	287	143.67	759.2		68.98
12	318	141.49	674.8		71.62
13	327	159.33	739.0		72.33
14	336	129.36	583.9		73.04
15	347	197.55	863.6		73.91
16	365	155.27	645.4		75.33
17	384	179.03	705.6		76.91
18	395	119.56	459.0		77.72
19	415	253.85	926.8		78.99
20	446	159.08	541.0		80.72
21	462	113.13	371.2		81.63
22	503	204.54	616.7		83.92
23	529	145.10	415.4		85.19
24	579	162.14	424.0		87.58
25	647	83.57	195.8		89.97

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : 8-10 soni 55 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	670	222.21	502.4		90.68
27	815	165.27	307.2		93.12
28	1,054	31.06	44.7		95.92
29	1,340	25.86	29.2		97.65
30	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : 8-10 soni 55 sec**

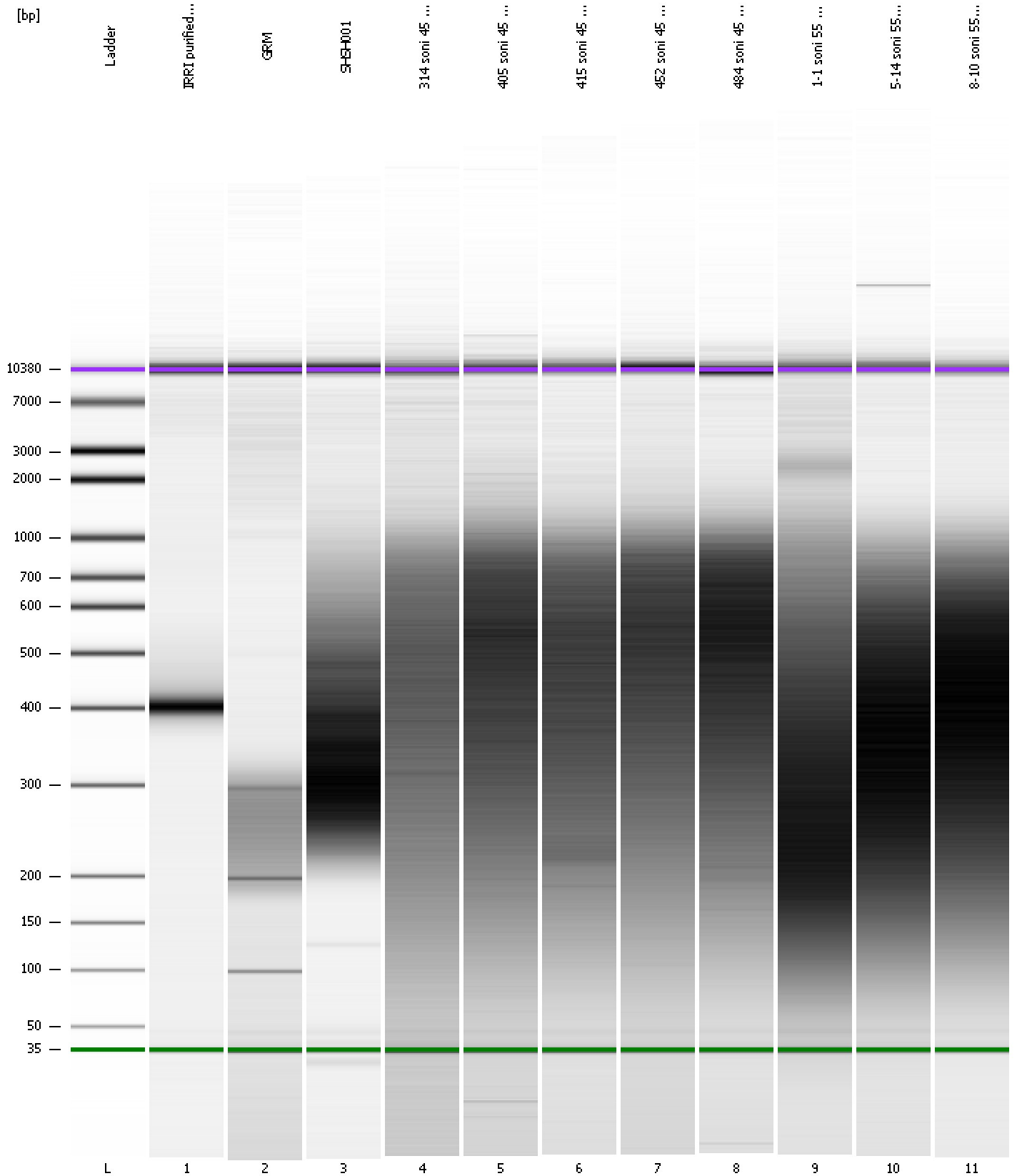
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
44	2,291	413	3,049.6	45,564.7	7,489.26	99	58.6



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
Modified: 1/28/2016 4:57:35 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28\_002.xad

Created: 1/28/2016 4:15:01 PM  
 Modified: 1/28/2016 4:57:35 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/28/2016 4:56:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-28\2016-01-28_002.xad)		Instrument	Run		1/28/2016 4:15:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/28/2016 4:15:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/28/2016 4:15:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/28/2016 4:15:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/28/2016 4:15:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/28/2016 4:15:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/28/2016 4:15:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1