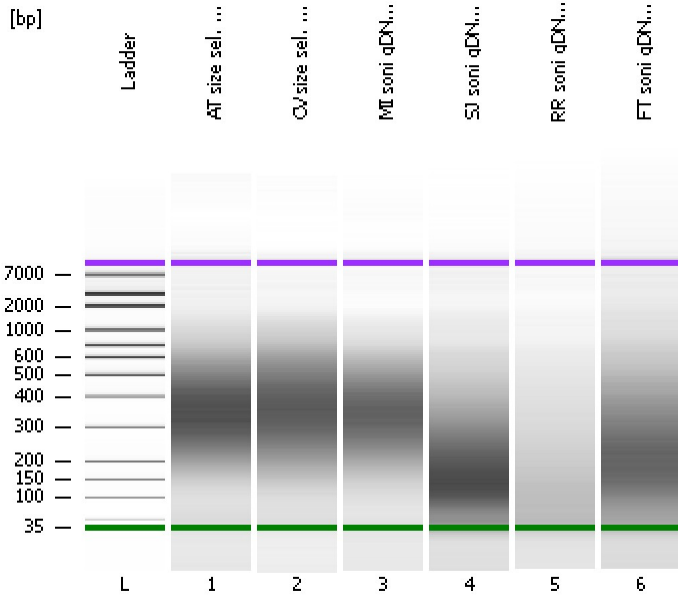


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
Modified: 3/18/2016 4:40:04 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

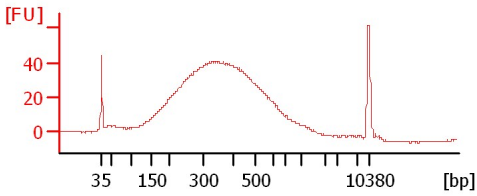
Assay Information:

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

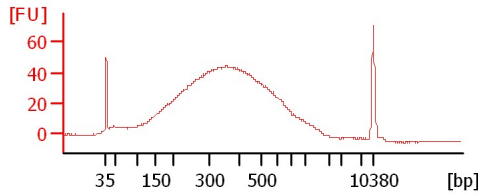
Chip Information:

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

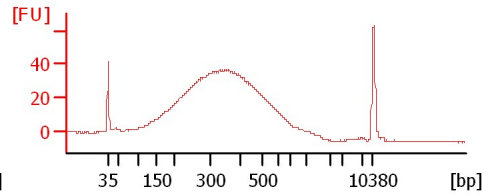
**AT size sel. soni gDNA (0.55X R/0.7X L)**



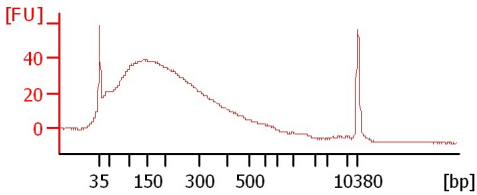
**CV size sel. soni gDNA (0.55X R/0.7X L)**



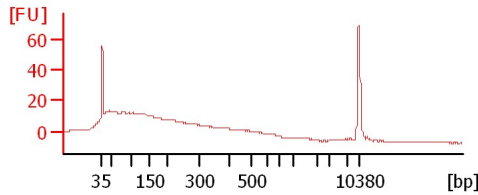
**MI soni gDNA (0.55X R/0.7X L)**



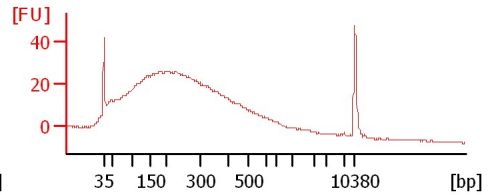
**SJ soni gDNA (0.55X R/0.7X L)**



**RR soni gDNA (0.55X R/0.7X L)**



**FT soni gDNA (0.55X R/0.7X L)**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AT size sel. soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
CV size sel. soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
MI soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
SJ soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
RR soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
FT soni gDNA (0.55X R/0.7X L)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
Modified: 3/18/2016 4:40:04 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

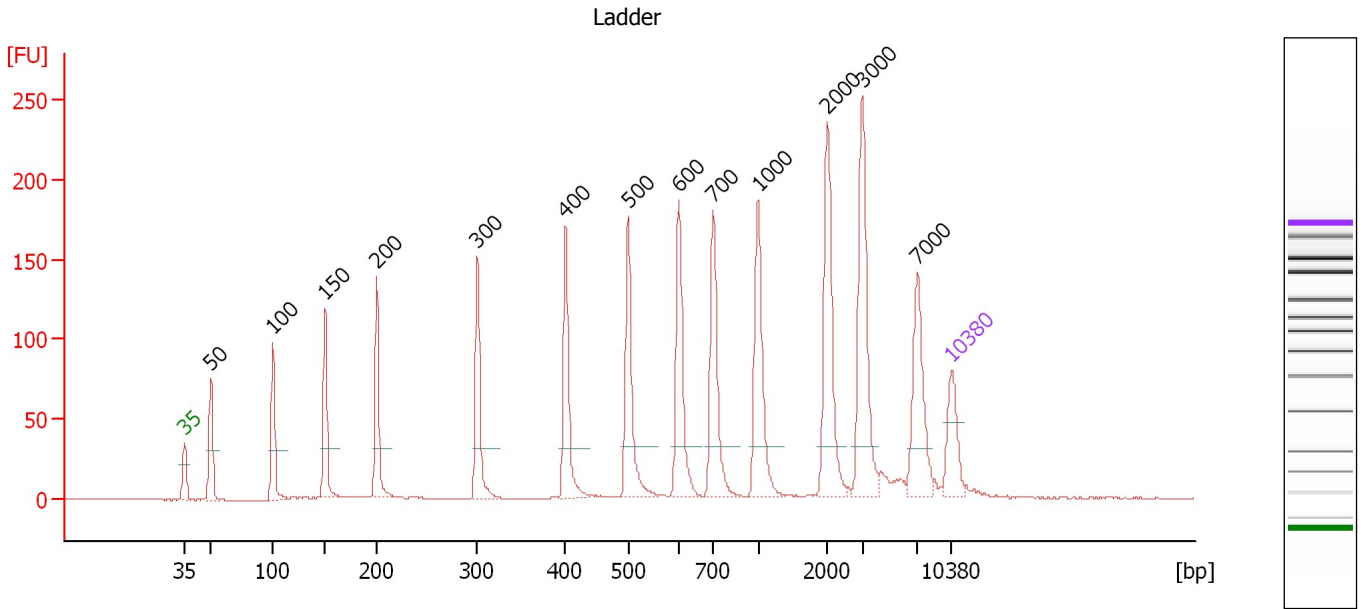
**Ladder**

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:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

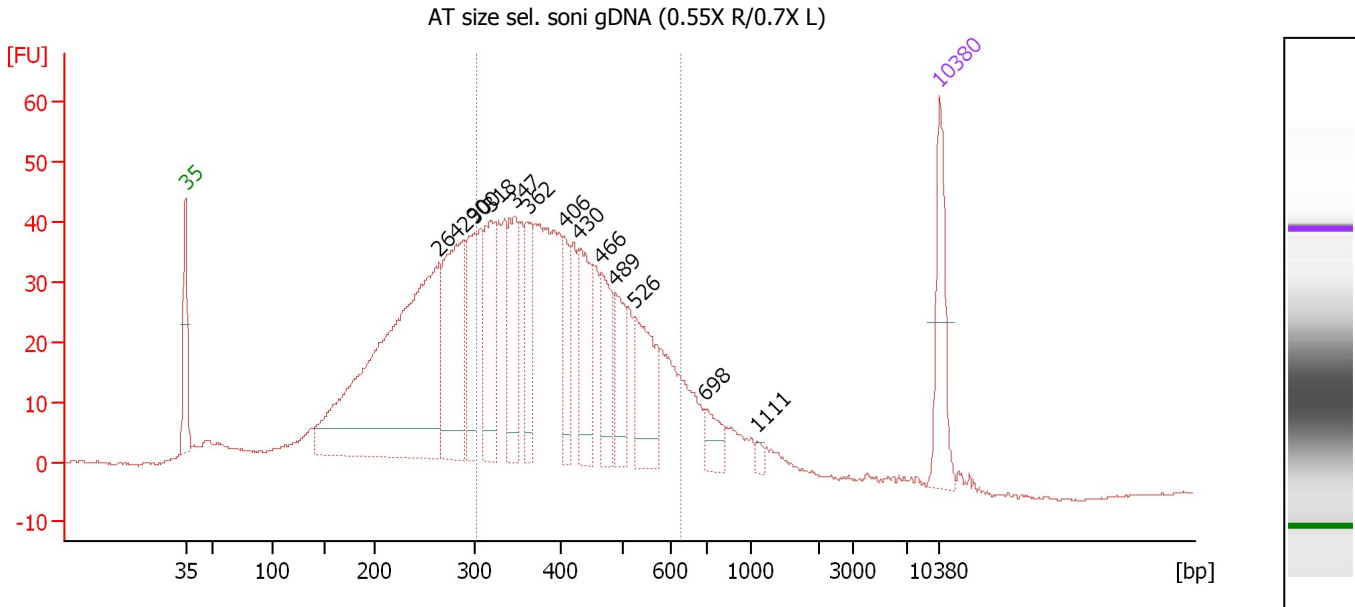
**Peak table for Ladder**

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.85
5	200	150.00	1,136.4	Ladder Peak	60.57
6	300	150.00	757.6	Ladder Peak	69.77
7	400	150.00	568.2	Ladder Peak	77.81
8	500	150.00	454.5	Ladder Peak	83.50
9	600	150.00	378.8	Ladder Peak	88.13
10	700	150.00	324.7	Ladder Peak	91.29
11	1,000	150.00	227.3	Ladder Peak	95.38
12	2,000	150.00	113.6	Ladder Peak	101.71
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.93
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : AT size sel. soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 13                      Corr. Area 1: 829.5  
 Noise: 0.2

**Peak table for sample 1 : AT size sel. soni gDNA (0.55X R/0.7X L)**

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	264	678.06	3,885.6		66.50
3	290	236.57	1,237.4		68.82
4	300	109.85	553.9		69.81
5	318	127.43	606.5		71.25
6	347	116.59	509.5		73.52
7	362	71.06	297.4		74.76
8	406	60.62	226.0		78.17
9	430	111.30	392.3		79.51
10	466	81.76	265.6		81.59
11	489	70.00	216.9		82.87
12	526	108.65	313.0		84.70
13	698	32.04	69.5		91.23
14	1,111	6.52	8.9		96.08
15	10,380	75.00	10.9	Upper Marker	113.00

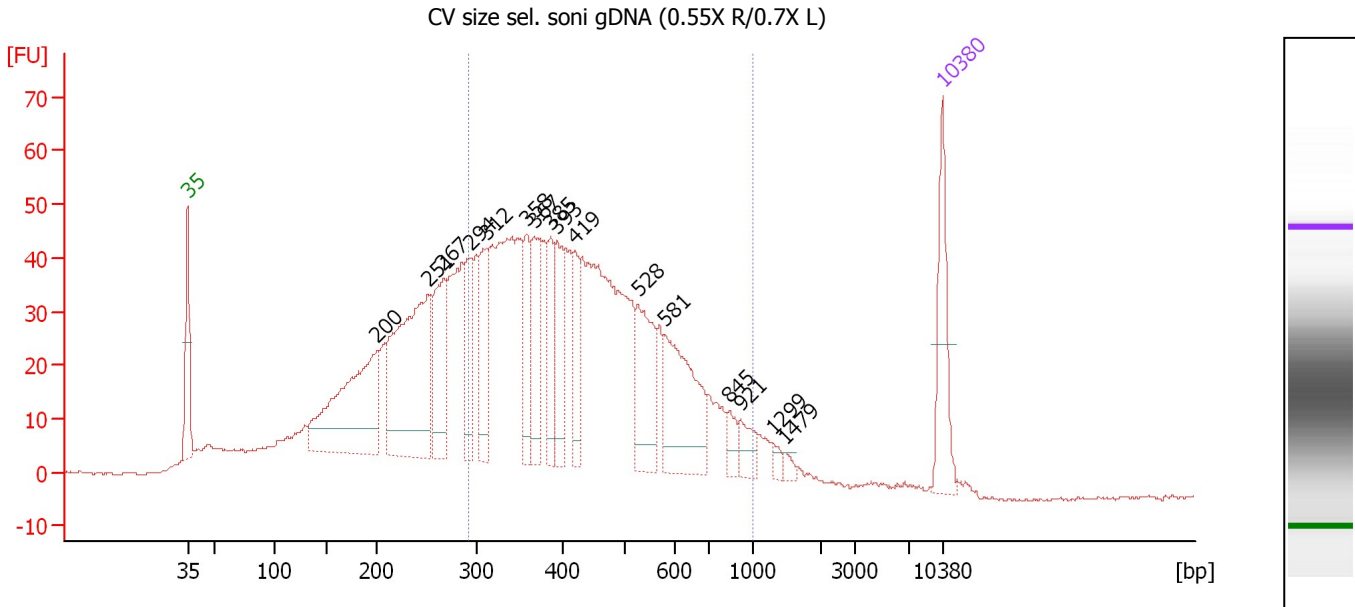
**Region table for sample 1 : AT size sel. soni gDNA (0.55X R/0.7X L)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
304	626	420	829.5	5,874.3	1,551.59	52	19.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CV size sel. soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 16                      Corr. Area 1: 1,113.5  
 Noise: 0.3

**Peak table for sample 2 : CV size sel. soni gDNA (0.55X R/0.7X L)**

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	200	293.61	2,225.6		60.56
3	251	350.37	2,110.8		65.31
4	267	133.56	757.7		66.75
5	294	80.69	415.9		69.22
6	312	102.54	497.7		70.75
7	358	72.67	307.7		74.41
8	367	106.78	440.8		75.16
9	385	63.16	248.3		76.64
10	393	84.43	325.6		77.23
11	419	61.54	222.7		78.87
12	528	112.97	324.1		84.80
13	581	155.04	404.6		87.23
14	845	20.74	37.2		93.26
15	921	27.05	44.5		94.30
16	1,299	8.29	9.7		97.27
17	1,479	6.91	7.1		98.41
18	10,380	75.00	10.9	Upper Marker	113.00

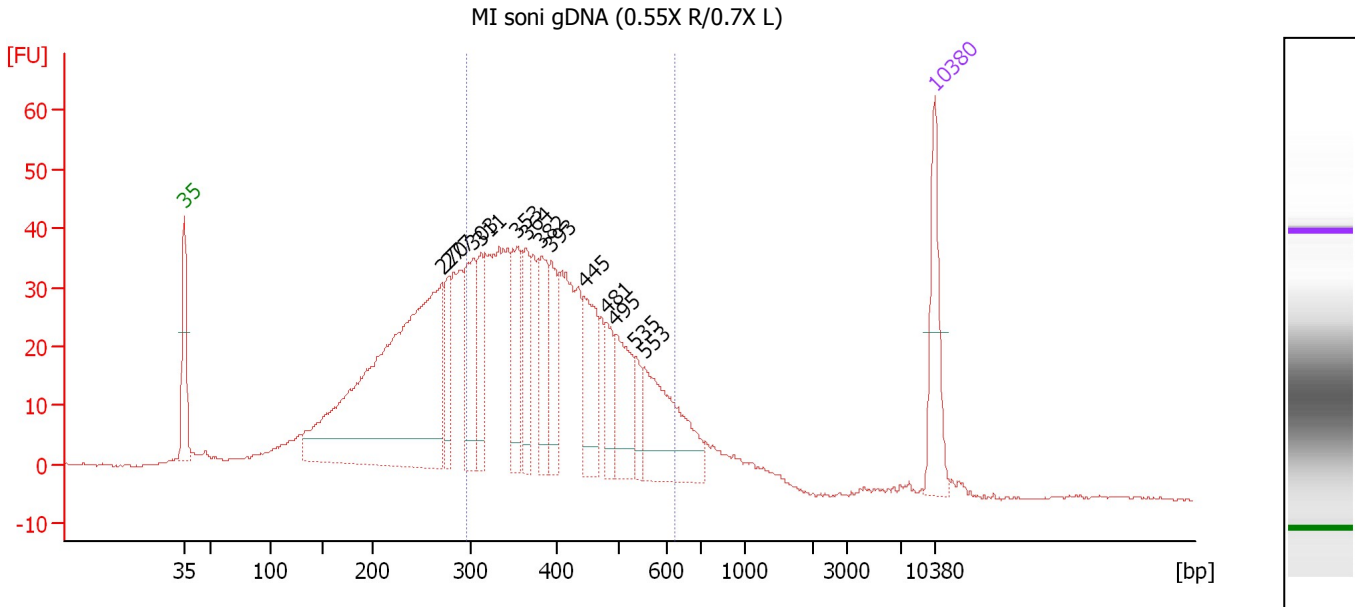
**Region table for sample 2 : CV size sel. soni gDNA (0.55X R/0.7X L)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
293	1,000	459	1,113.5	7,288.2	1,991.21	58	30.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MI soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 13                      Corr. Area 1: 762.5  
 Noise: 0.2

**Peak table for sample 3 : MI soni gDNA (0.55X R/0.7X L)**

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	270	738.27	4,137.3		67.05
3	277	66.11	361.1		67.69
4	303	124.94	625.6		69.98
5	311	68.55	333.7		70.68
6	353	94.42	404.7		74.07
7	364	67.35	280.4		74.91
8	382	89.38	354.5		76.36
9	393	71.65	276.1		77.25
10	445	96.65	329.4		80.34
11	481	48.24	151.9		82.43
12	495	89.58	274.1		83.23
13	535	27.15	76.9		85.12
14	553	151.16	413.9		85.97
15	10,380	75.00	10.9	Upper Marker	113.00

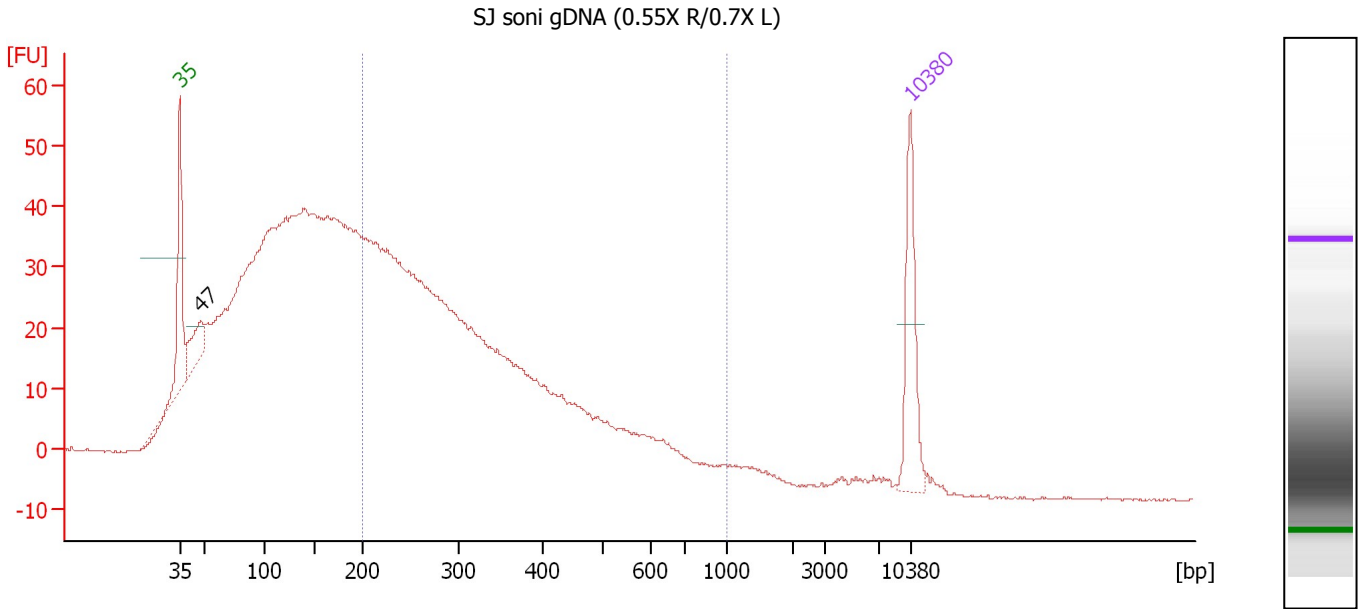
**Region table for sample 3 : MI soni gDNA (0.55X R/0.7X L)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
296	621	411	762.5	5,635.4	1,452.70	54	20.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SJ soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 1                      Corr. Area 1: 803.8  
 Noise: 0.2

**Peak table for sample 4 : SJ soni gDNA (0.55X R/0.7X L)**

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	61.12	1,959.0		44.99
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : SJ soni gDNA (0.55X R/0.7X L)**

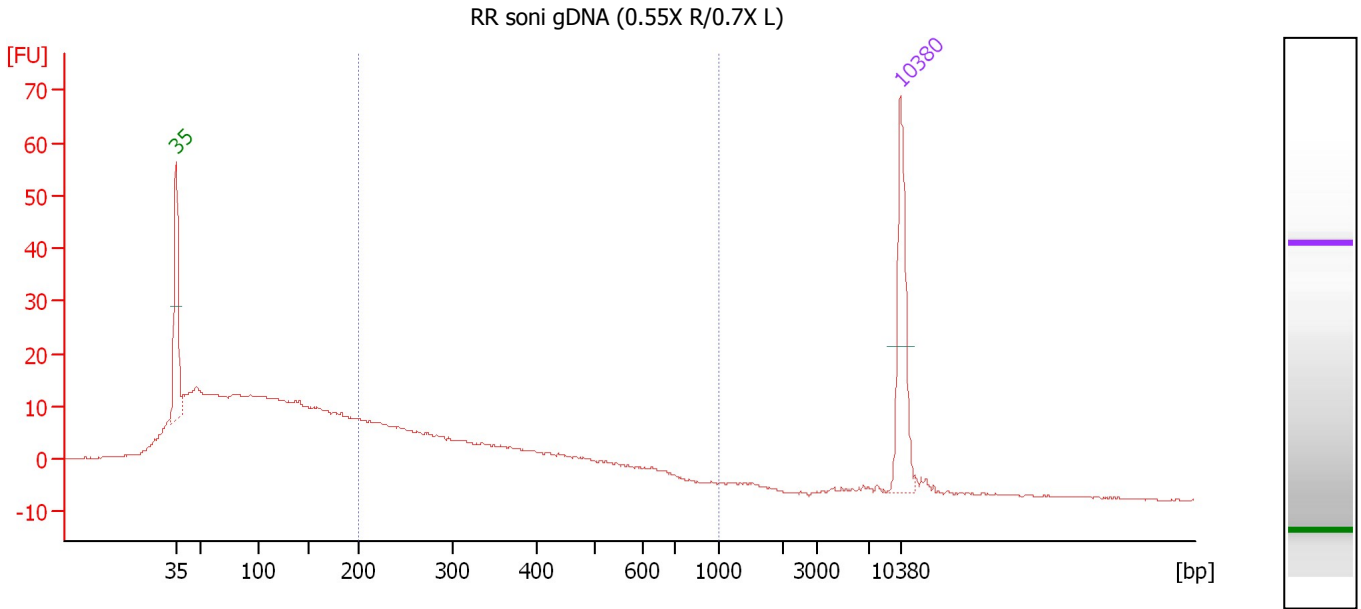
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	336	803.8	8,760.3	1,680.27	42	38.4



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : RR soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 0                      Corr. Area 1: 225.9  
 Noise: 0.2

**Peak table for sample 5 : RR soni gDNA (0.55X R/0.7X L)**

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

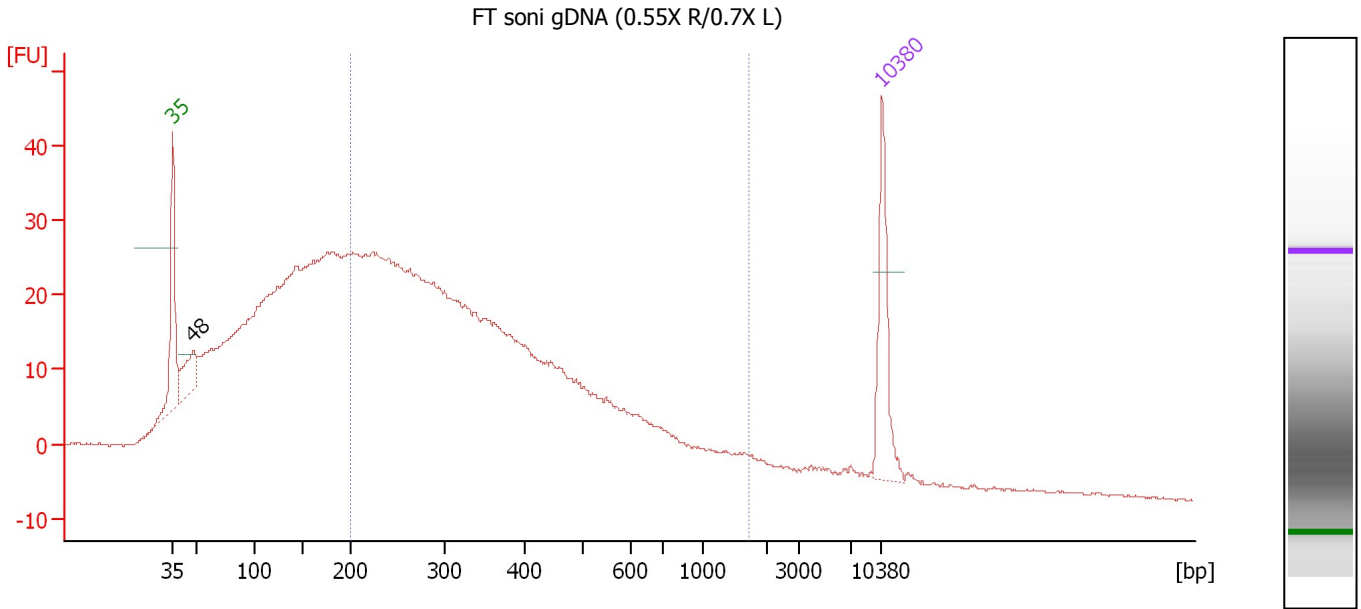
**Region table for sample 5 : RR soni gDNA (0.55X R/0.7X L)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	347	225.9	2,200.7	434.73	33	35.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
 Modified: 3/18/2016 4:40:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : FT soni gDNA (0.55X R/0.7X L)**

Number of peaks found: 1                      Corr. Area 1: 772.6  
 Noise: 0.2

**Peak table for sample 6 : FT soni gDNA (0.55X R/0.7X L)**

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	48	66.38	2,110.6		45.05
3	10,380	75.00	10.9	Upper Marker	113.00

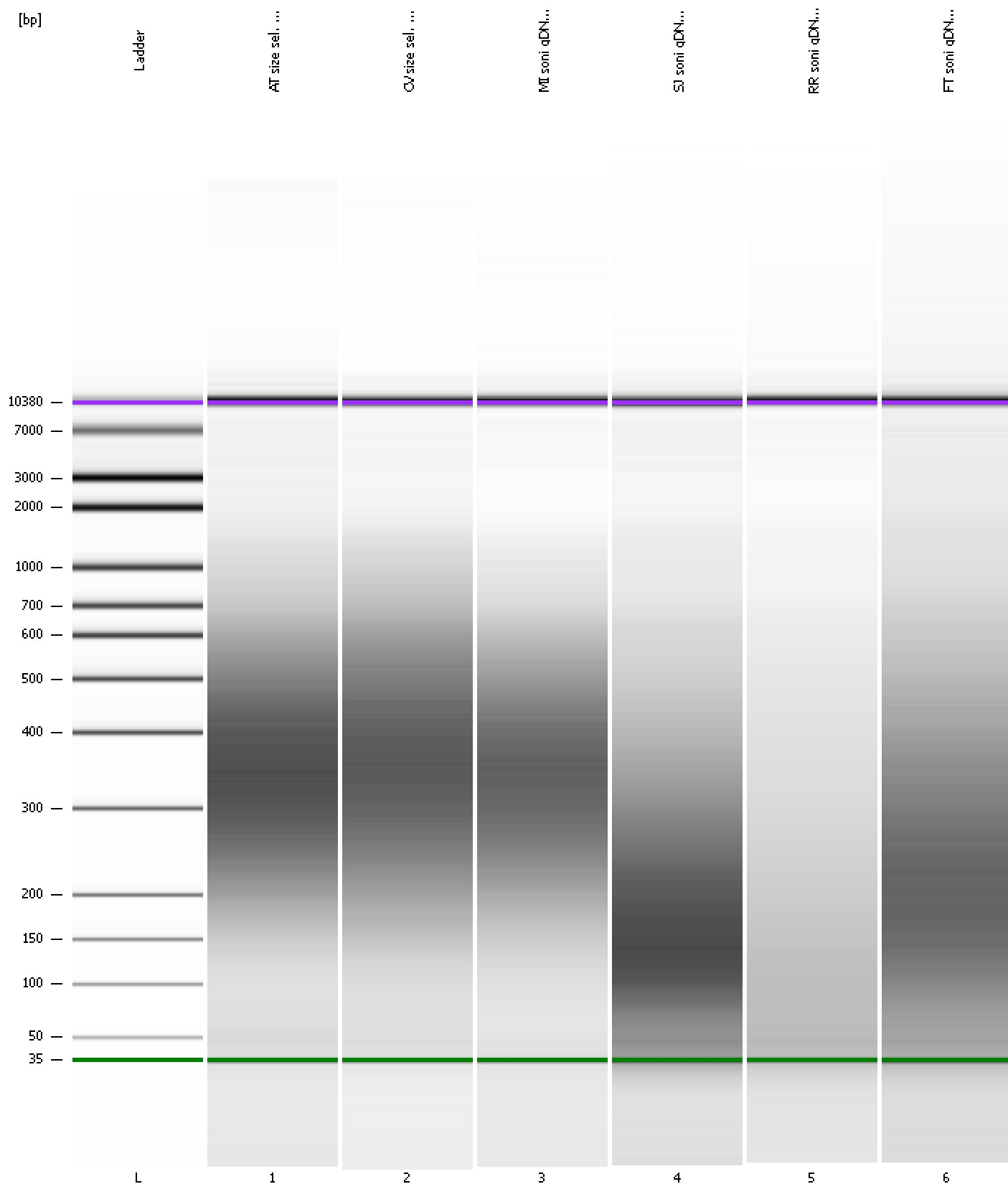
**Region table for sample 6 : FT soni gDNA (0.55X R/0.7X L)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,707	388	772.6	10,003.4	2,042.03	54	55.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
Modified: 3/18/2016 4:40:04 PM

**Gel Image**

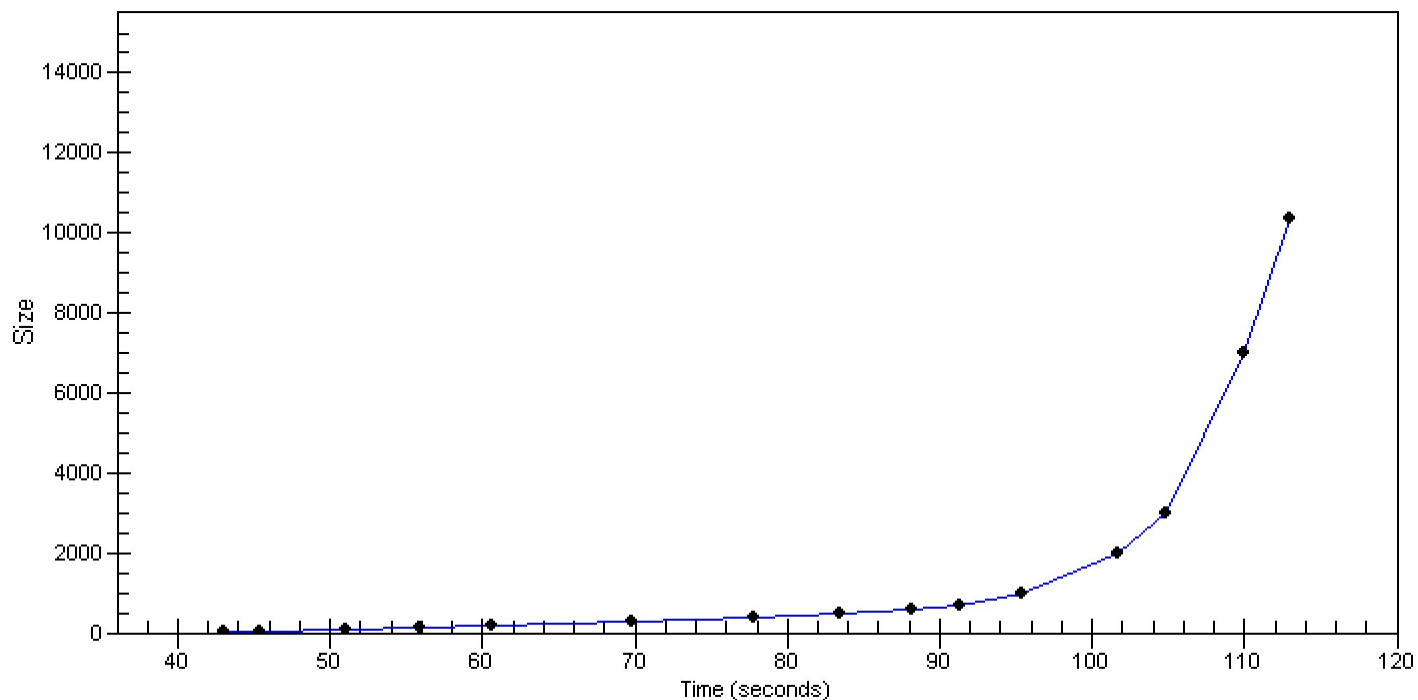


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad

Created: 3/18/2016 3:46:45 PM  
Modified: 3/18/2016 4:40:04 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay Created: 3/18/2016 3:46:45 PM  
 Data Path: C:\...\2016-03-18\2016-03-18\_004\_MiSeq290\_SizeSelectedSoniDNA.xad Modified: 3/18/2016 4:40:04 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		3/18/2016 4:28:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_004.xad)		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/18/2016 3:46:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1