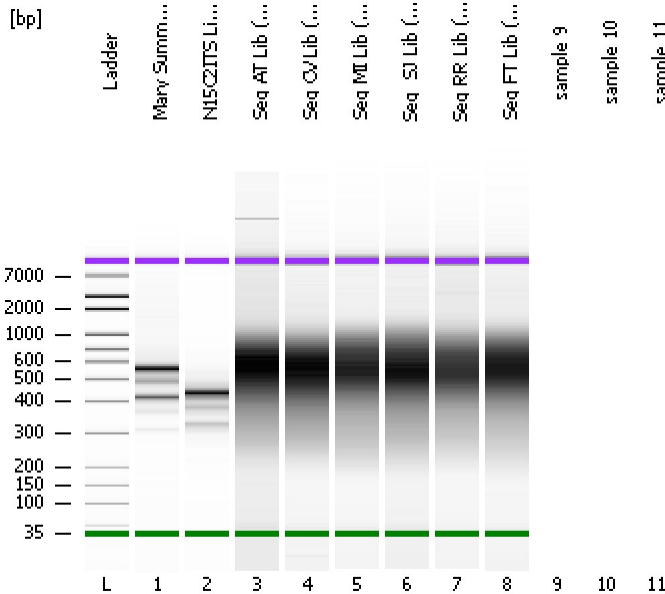


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
Modified: 2/27/2015 3:44:30 PM

Electrophoresis File Run Summary



Instrument Information:

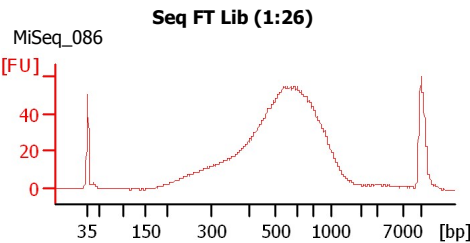
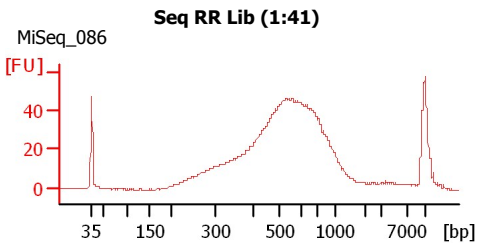
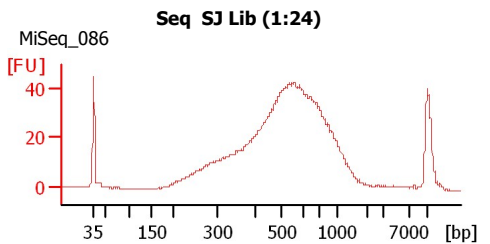
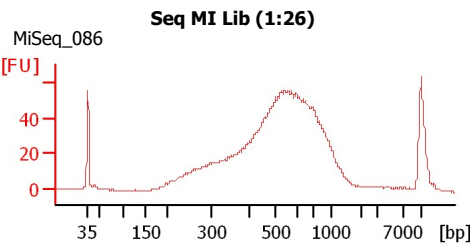
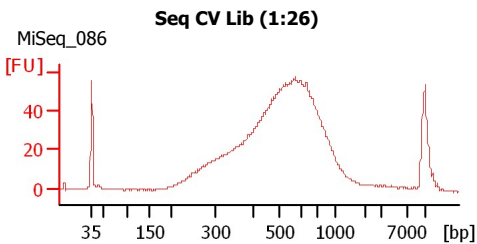
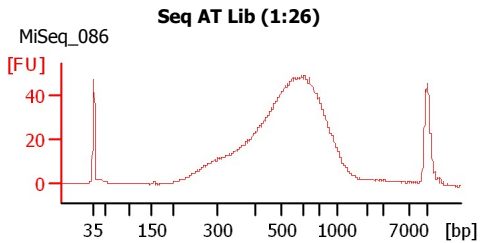
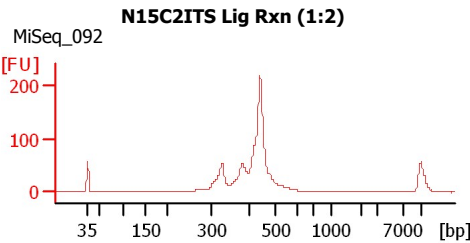
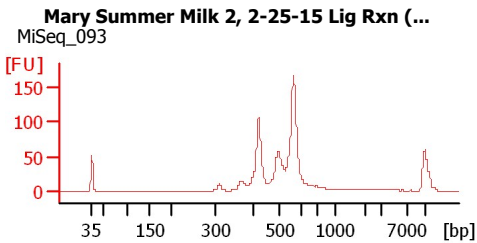
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
Modified: 2/27/2015 3:44:30 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mary Summer Milk 2, 2-25-15 Lig Rxn (1:4)	MiSeq_093	<input type="checkbox"/>	✓			
N15C2ITS Lig Rxn (1:2)	MiSeq_092	<input type="checkbox"/>	✓			
Seq AT Lib (1:26)	MiSeq_086	<input type="checkbox"/>	✓			
Seq CV Lib (1:26)	MiSeq_086	<input type="checkbox"/>	✓			
Seq MI Lib (1:26)	MiSeq_086	<input type="checkbox"/>	✓			
Seq SJ Lib (1:24)	MiSeq_086	<input type="checkbox"/>	✓			
Seq RR Lib (1:41)	MiSeq_086	<input type="checkbox"/>	✓			
Seq FT Lib (1:26)	MiSeq_086	<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
Modified: 2/27/2015 3:44:30 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

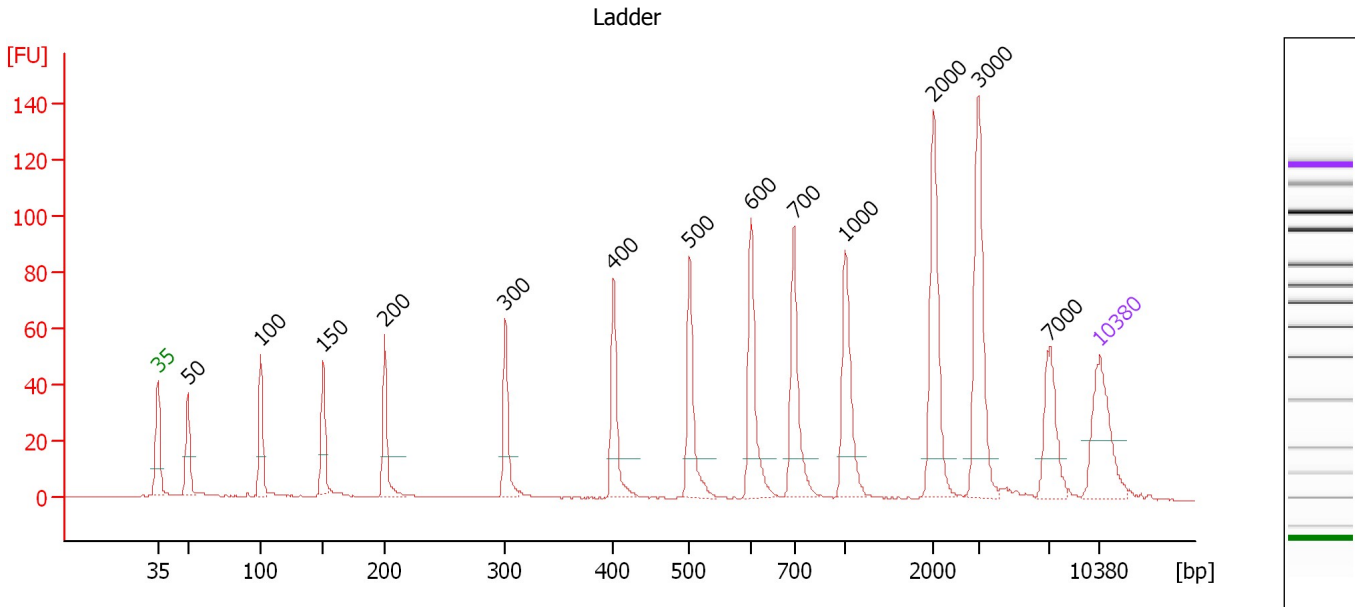
**Ladder**

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\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

**Peak table for Ladder**

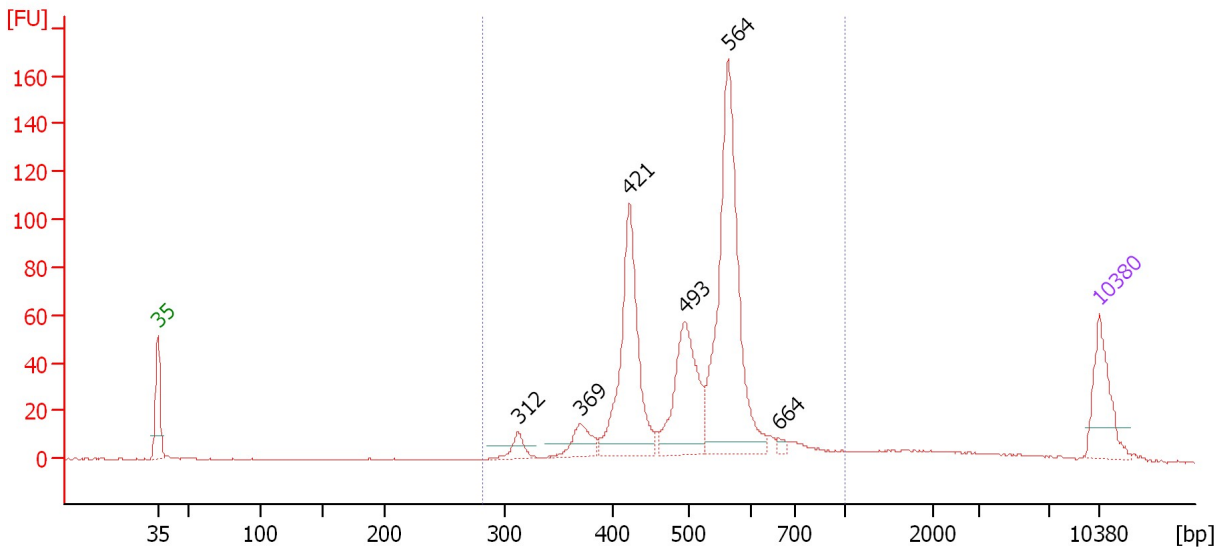
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.27
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.29
5	200	150.00	1,136.4	Ladder Peak	59.89
6	300	150.00	757.6	Ladder Peak	68.84
7	400	150.00	568.2	Ladder Peak	76.86
8	500	150.00	454.5	Ladder Peak	82.52
9	600	150.00	378.8	Ladder Peak	87.07
10	700	150.00	324.7	Ladder Peak	90.27
11	1,000	150.00	227.3	Ladder Peak	94.07
12	2,000	150.00	113.6	Ladder Peak	100.66
13	3,000	150.00	75.8	Ladder Peak	103.95
14	7,000	150.00	32.5	Ladder Peak	109.24
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**

Mary Summer Milk 2, 2-25-15 Lig Rxn (1:4) [ MiSeq\_093 ]



**Overall Results for sample 1 : Mary Summer Milk 2, 2-25-15 Lig Rxn (1:4)**

Number of peaks found: 6                      Corr. Area 1: 841.5  
 Noise: 0.2

**Peak table for sample 1 : Mary Summer Milk 2, 2-25-15 Lig Rxn (1:4)**

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	26.95	130.9		69.79
3	369	48.86	200.6		74.38
4	421	295.58	1,062.9		78.07
5	493	200.92	617.2		82.14
6	564	448.33	1,205.4		85.41
7	664	6.71	15.3		89.11
8	10,380	75.00	10.9	Upper Marker	113.00

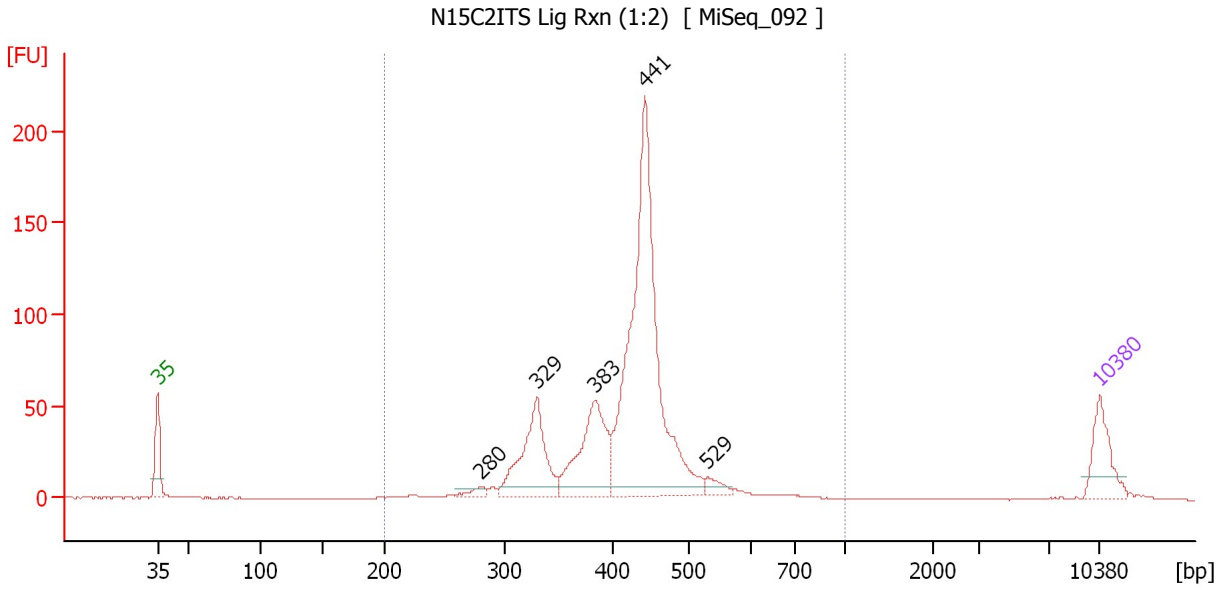
**Region table for sample 1 : Mary Summer Milk 2, 2-25-15 Lig Rxn (1:4)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
280	512	1,000	841.5	91	19.3	1,169.54	3,631.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : N15C2ITS Lig Rxn (1:2)**

Number of peaks found: 5                      Corr. Area 1: 1,039.7  
 Noise: 0.2

**Peak table for sample 2 : N15C2ITS Lig Rxn (1:2)**

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	280	19.86	107.4		67.06
3	329	237.71	1,093.7		71.19
4	383	239.06	945.4		75.51
5	441	870.46	2,987.5		79.21
6	529	25.16	72.0		83.86
7	10,380	75.00	10.9	Upper Marker	113.00

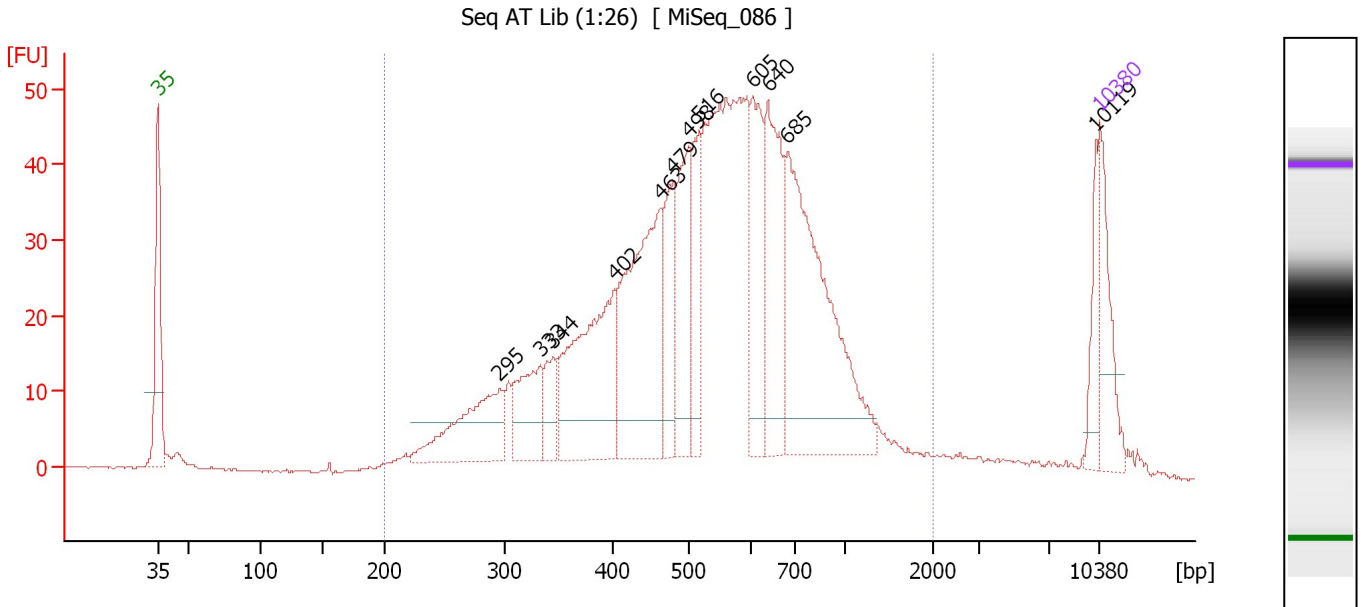
**Region table for sample 2 : N15C2ITS Lig Rxn (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	419	1,000	1,039.7	98	16.8	1,513.64	5,691.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Seq AT Lib (1:26)**

Number of peaks found: 12                      Corr. Area 1: 1,114.6  
 Noise: 0.2

**Peak table for sample 3 : Seq AT Lib (1:26)**

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	183.90	944.9		68.38
3	333	116.06	528.3		71.47
4	344	52.67	231.8		72.39
5	402	292.59	1,102.4		76.98
6	463	343.63	1,125.0		80.42
7	479	118.17	373.8		81.34
8	498	148.04	450.6		82.40
9	516	99.50	291.9		83.27
10	605	151.68	379.8		87.23
11	640	200.54	474.9		88.35
12	685	438.38	969.4		89.80
13	10,119	47.54	7.1		112.71
14	10,380	75.00	10.9	Upper Marker	113.00

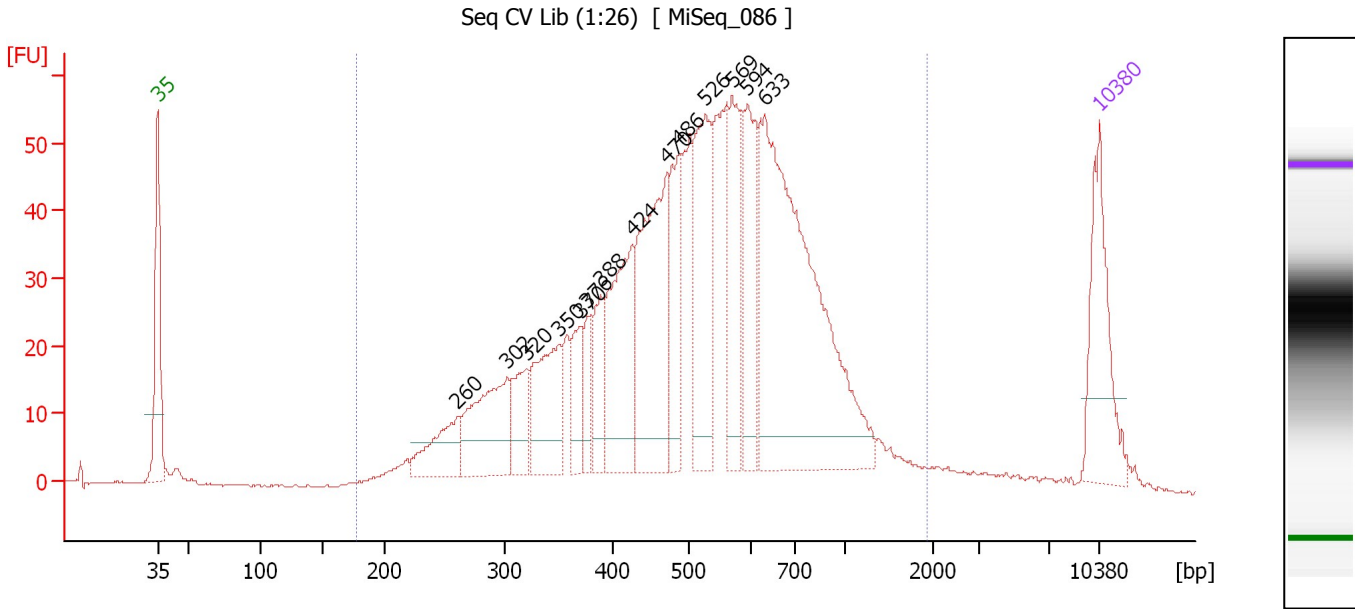
**Region table for sample 3 : Seq AT Lib (1:26)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	575	1,979	1,114.6	93	42.5	3,137.23	10,034.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Seq CV Lib (1:26)**

Number of peaks found: 14                      Corr. Area 1: 1,335.2  
 Noise: 0.2

**Peak table for sample 4 : Seq CV Lib (1:26)**

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	260	58.89	343.0		65.27
3	302	110.86	556.1		69.00
4	320	50.15	237.6		70.43
5	350	93.78	406.2		72.84
6	370	36.01	147.5		74.46
7	376	31.27	126.2		74.90
8	388	46.12	179.9		75.94
9	424	127.80	456.2		78.25
10	470	185.66	597.9		80.85
11	486	76.11	237.2		81.74
12	526	131.07	377.6		83.70
13	569	89.46	238.1		85.67
14	594	88.30	225.2		86.80
15	633	383.40	917.7		88.13
16	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : Seq CV Lib (1:26)**

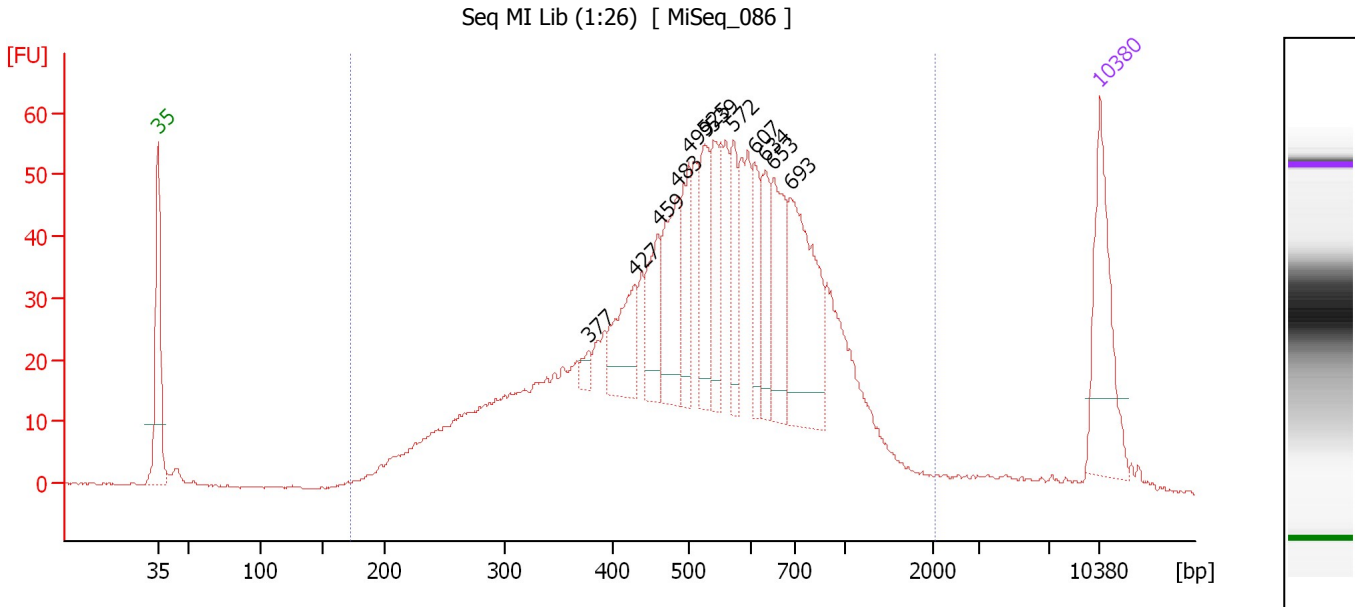
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
178	556	1,928	1,335.2	96	42.7	1,981.70	6,601.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Seq MI Lib (1:26)**

Number of peaks found: 12                      Corr. Area 1: 1,342.6  
 Noise: 0.2

**Peak table for sample 5 : Seq MI Lib (1:26)**

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	377	9.36	37.6		75.00
3	427	58.51	207.5		78.40
4	459	53.58	176.9		80.20
5	483	73.15	229.6		81.55
6	499	54.02	164.1		82.45
7	525	59.59	172.0		83.65
8	539	60.22	169.3		84.30
9	572	43.20	114.4		85.80
10	607	42.17	105.2		87.30
11	634	41.47	99.2		88.15
12	653	70.60	163.9		88.75
13	693	128.44	280.8		90.05
14	10,380	75.00	10.9	Upper Marker	113.00

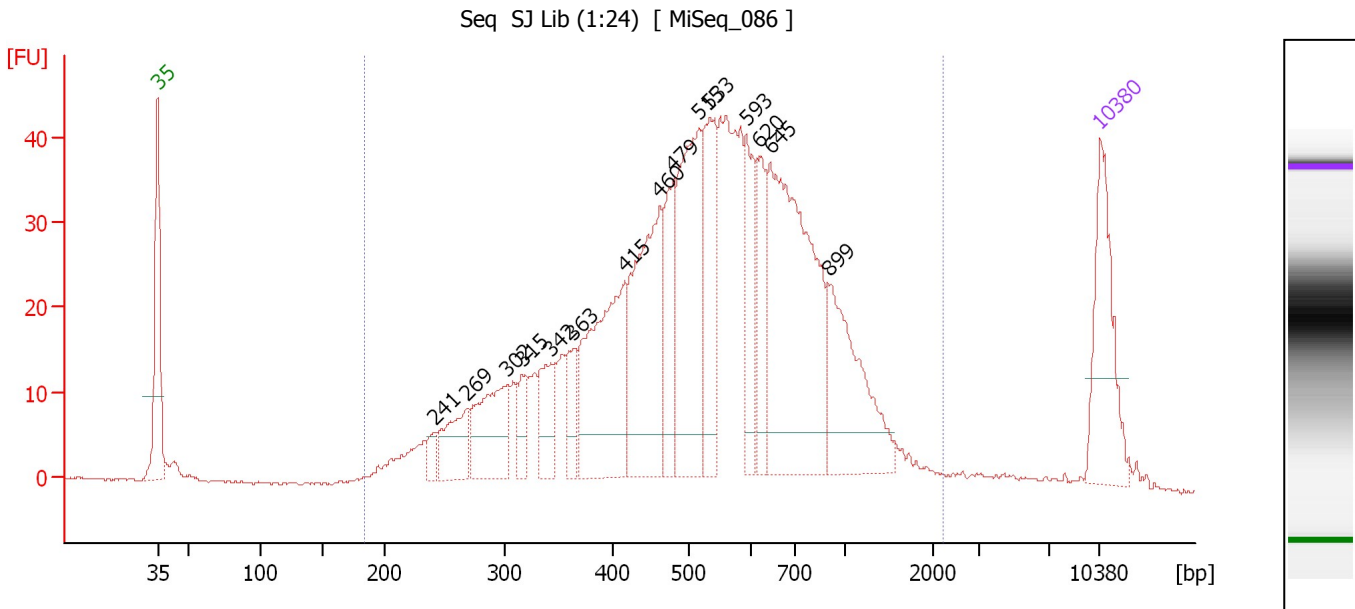
**Region table for sample 5 : Seq MI Lib (1:26)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
172	573	2,016	1,342.6	97	44.5	1,860.68	6,207.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Seq SJ Lib (1:24)**

Number of peaks found: 15      Corr. Area 1: 1,021.2  
 Noise: 0.2

**Peak table for sample 6 : Seq SJ Lib (1:24)**

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	241	13.58	85.4		63.56
3	269	54.44	307.1		66.03
4	302	86.02	432.2		68.96
5	315	23.67	113.7		70.07
6	342	43.68	193.3		72.24
7	363	28.94	120.7		73.91
8	415	166.86	609.6		77.70
9	460	174.95	575.9		80.27
10	479	63.89	202.1		81.33
11	515	172.32	507.0		83.20
12	533	97.38	277.0		84.01
13	593	62.70	160.3		86.74
14	620	48.57	118.8		87.70
15	645	276.53	649.7		88.51
16	899	115.08	193.9		92.80
17	10,380	75.00	10.9	Upper Marker	113.00

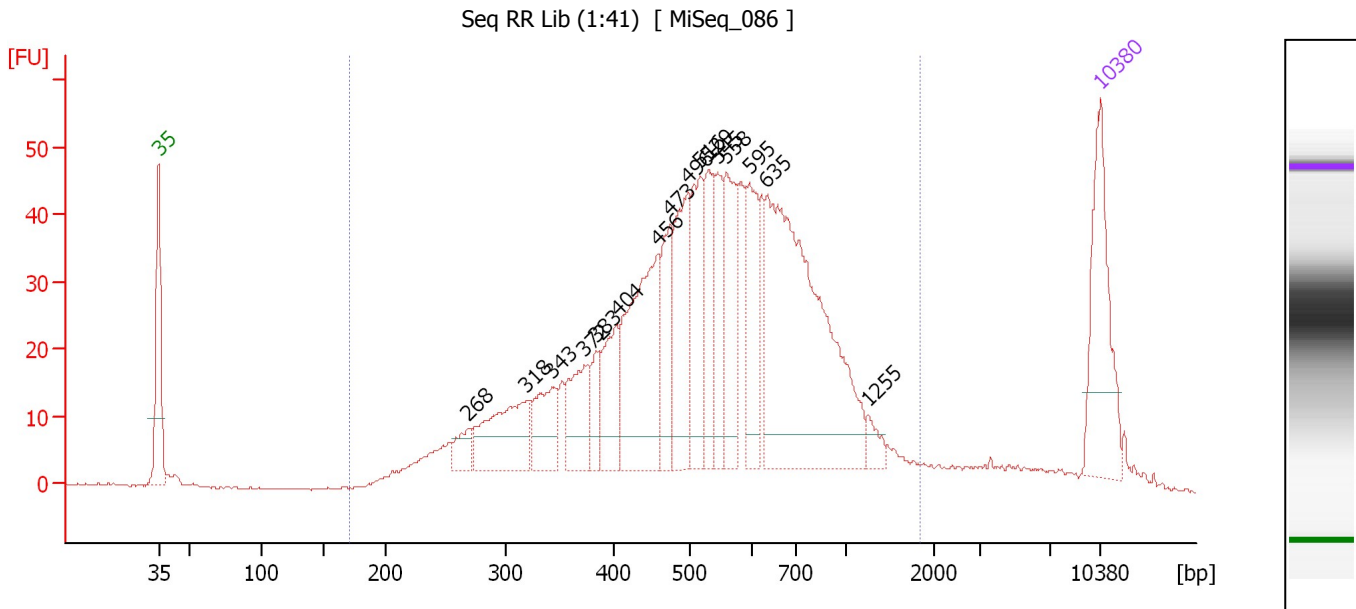
**Region table for sample 6 : Seq SJ Lib (1:24)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
184	583	2,191	1,021.2	97	46.4	1,887.18	6,170.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Seq RR Lib (1:41)**

Number of peaks found: 16                      Corr. Area 1: 1,102.3  
 Noise: 0.2

**Peak table for sample 7 : Seq RR Lib (1:41)**

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	19.42	109.7		65.99
3	318	83.43	397.0		70.32
4	343	48.26	213.5		72.25
5	372	52.13	212.1		74.64
6	383	22.04	87.2		75.51
7	404	51.12	191.8		77.08
8	456	149.61	497.1		80.03
9	473	54.03	173.0		81.00
10	496	87.11	265.8		82.32
11	516	74.19	217.9		83.24
12	529	56.49	161.7		83.85
13	545	47.57	132.3		84.56
14	558	74.17	201.3		85.17
15	595	67.65	172.2		86.85
16	635	298.06	711.7		88.17
17	1,255	10.18	12.3		95.75
18	10,380	75.00	10.9	Upper Marker	113.00

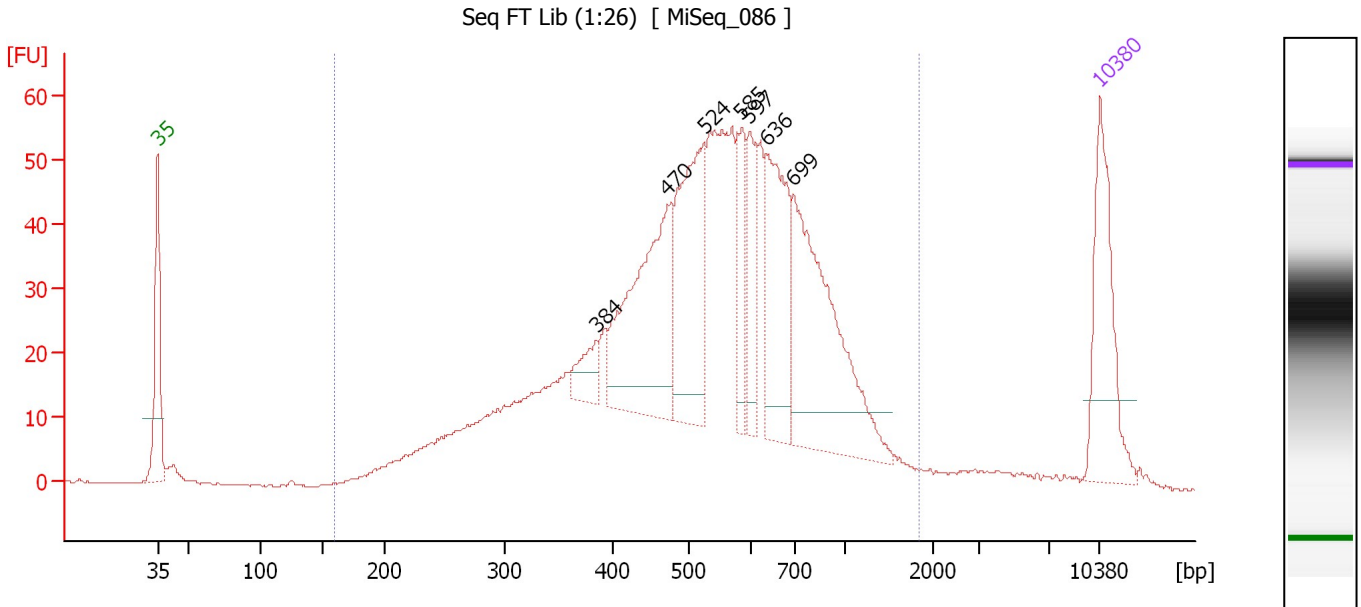
**Region table for sample 7 : Seq RR Lib (1:41)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
171	573	1,823	1,102.3	94	43.0	1,555.72	5,074.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Seq FT Lib (1:26)**

Number of peaks found: 7                      Corr. Area 1: 1,263.4  
 Noise: 0.2

**Peak table for sample 8 : Seq FT Lib (1:26)**

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	384	26.30	103.8		75.56
3	470	174.98	563.6		80.85
4	524	144.29	417.2		83.62
5	585	43.56	112.8		86.38
6	597	48.75	123.6		86.95
7	636	105.68	251.6		88.23
8	699	194.58	421.9		90.23
9	10,380	75.00	10.9	Upper Marker	113.00

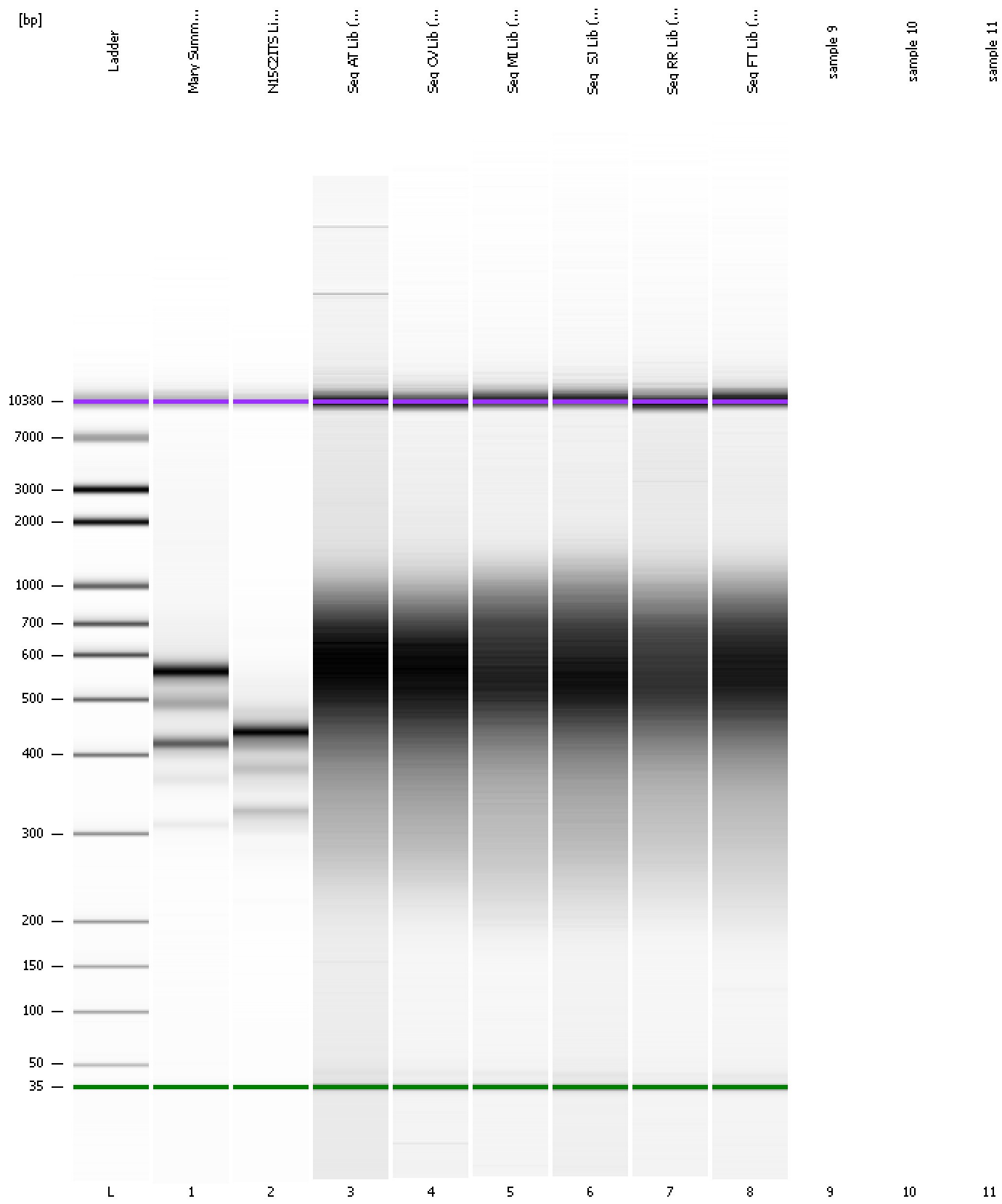
**Region table for sample 8 : Seq FT Lib (1:26)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
159	573	1,841	1,263.4	96	41.8	1,605.09	5,249.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
Modified: 2/27/2015 3:44:30 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
Modified: 2/27/2015 3:44:30 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-27\2015-02-27\_004.xad

Created: 2/27/2015 3:10:57 PM  
 Modified: 2/27/2015 3:44:30 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		2/27/2015 3:42:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-27\2015-02-27_004.xad)		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/27/2015 3:10:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1