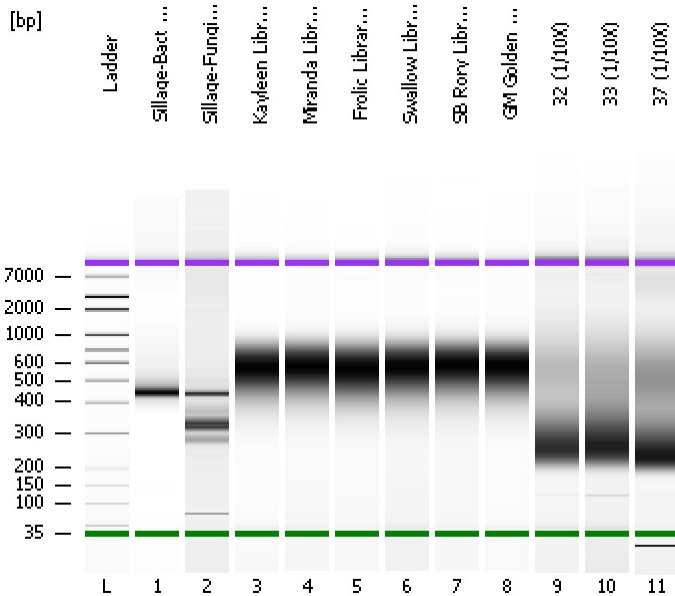


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
Modified: 3/25/2015 3:53:54 PM

**Electrophoresis File Run Summary**



Instrument Information:

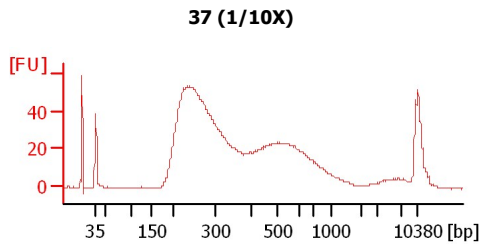
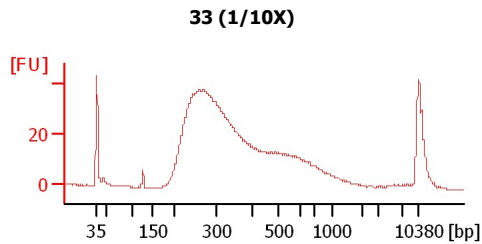
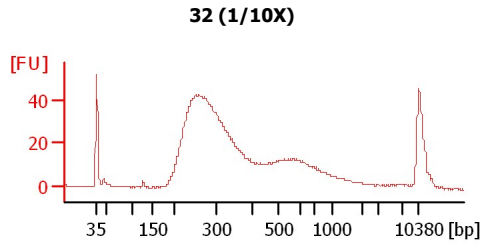
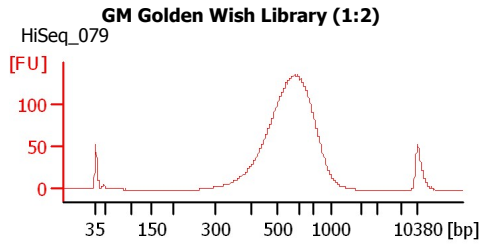
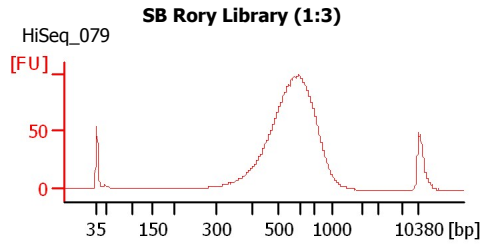
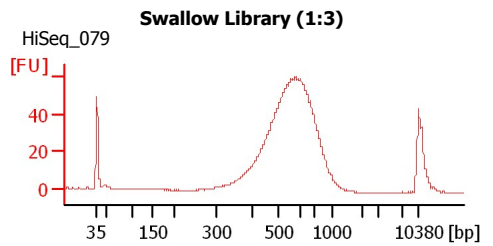
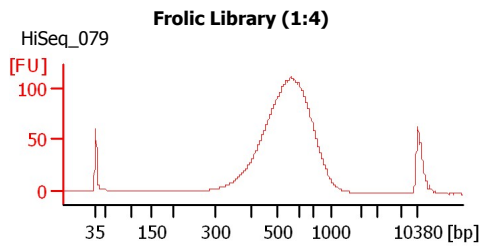
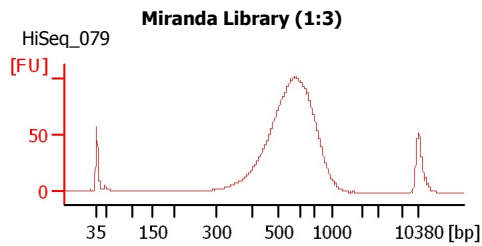
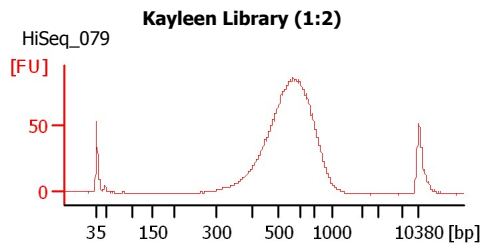
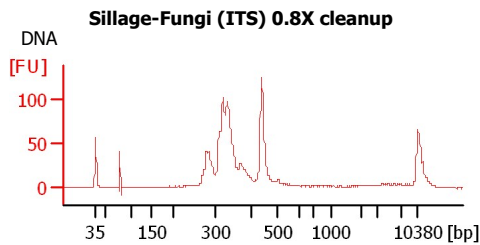
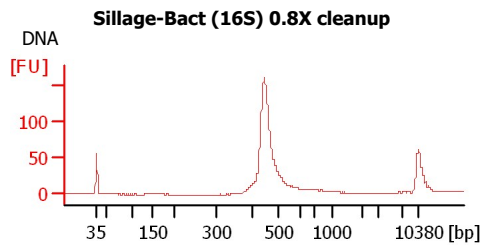
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
Modified: 3/25/2015 3:53:54 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sillage-Bact (16S) 0.8X cleanup	DNA	<input type="checkbox"/>	✓			
Sillage-Fungi (ITS) 0.8X cleanup	DNA	<input type="checkbox"/>	✓			
Kayleen Library (1:2)	HiSeq_079	<input type="checkbox"/>	✓			
Miranda Library (1:3)	HiSeq_079	<input type="checkbox"/>	✓			
Frolic Library (1:4)	HiSeq_079	<input type="checkbox"/>	✓			
Swallow Library (1:3)	HiSeq_079	<input type="checkbox"/>	✓			
SB Rory Library (1:3)	HiSeq_079	<input type="checkbox"/>	✓			
GM Golden Wish Library (1:2)	HiSeq_079	<input type="checkbox"/>	✓			
32 (1/10X)		<input type="checkbox"/>	✓			
33 (1/10X)		<input type="checkbox"/>	✓			
37 (1/10X)		<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\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
Modified: 3/25/2015 3:53:54 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

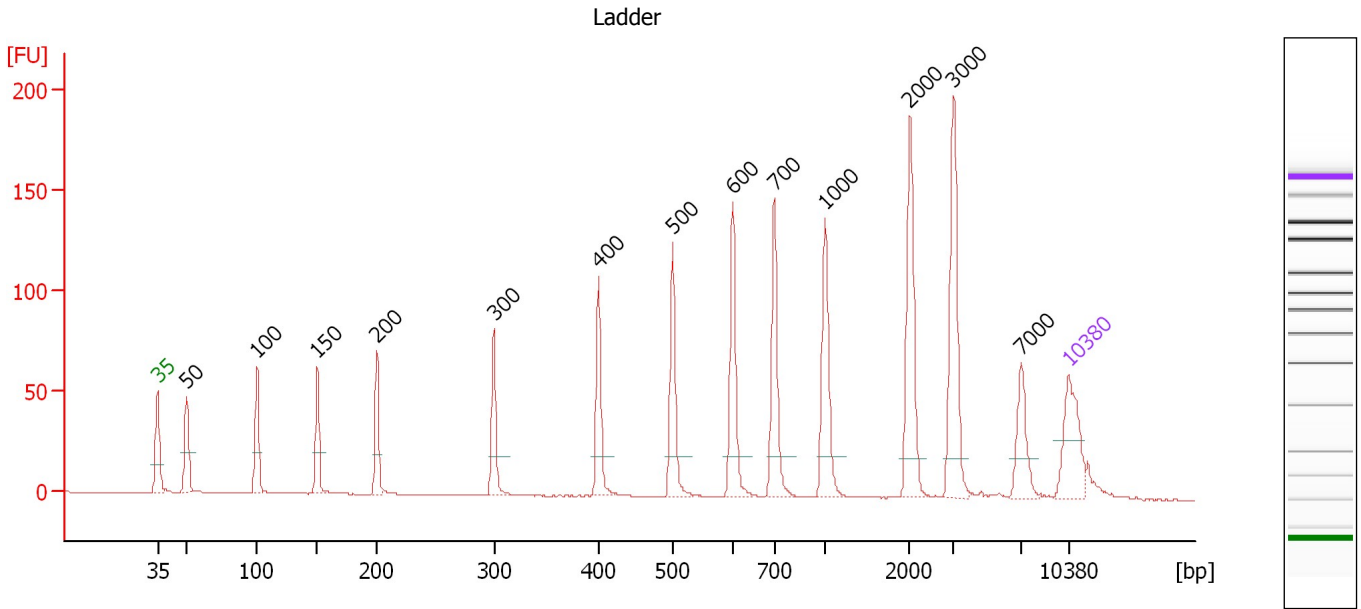
**Ladder**

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\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

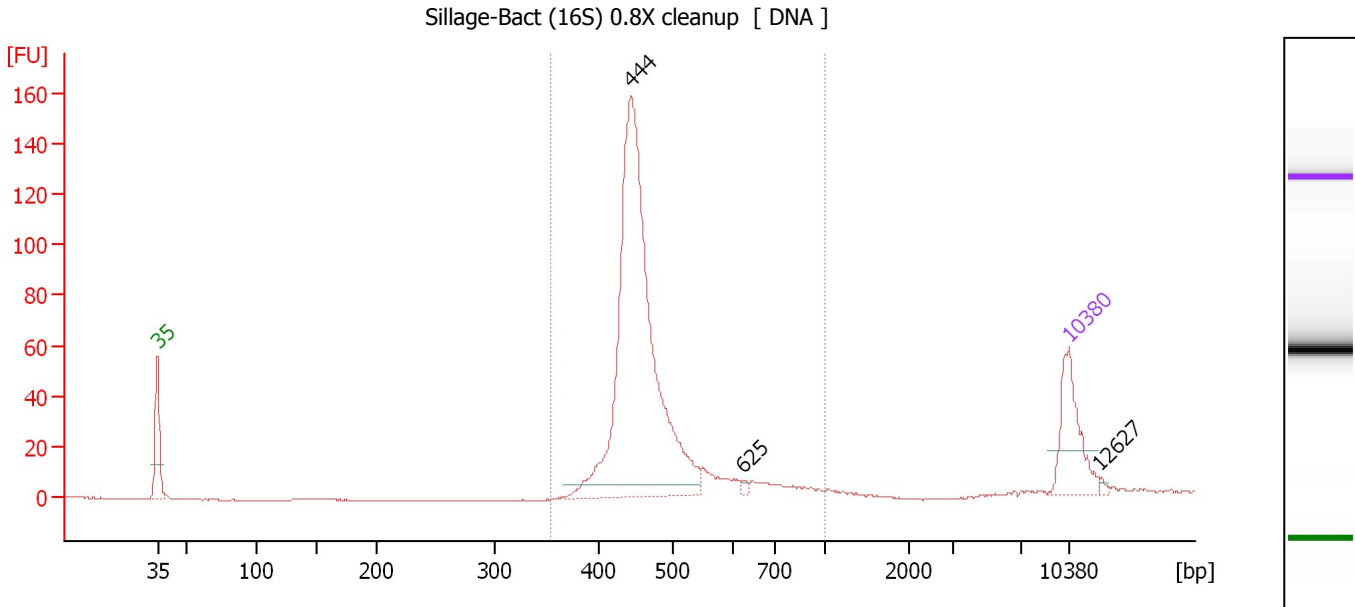
**Peak table for Ladder**

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	45.23
3	100	150.00	2,272.7	Ladder Peak	50.64
4	150	150.00	1,515.2	Ladder Peak	55.28
5	200	150.00	1,136.4	Ladder Peak	59.87
6	300	150.00	757.6	Ladder Peak	68.83
7	400	150.00	568.2	Ladder Peak	76.89
8	500	150.00	454.5	Ladder Peak	82.57
9	600	150.00	378.8	Ladder Peak	87.21
10	700	150.00	324.7	Ladder Peak	90.39
11	1,000	150.00	227.3	Ladder Peak	94.31
12	2,000	150.00	113.6	Ladder Peak	100.81
13	3,000	150.00	75.8	Ladder Peak	104.18
14	7,000	150.00	32.5	Ladder Peak	109.36
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Silage-Bact (16S) 0.8X cleanup**

Number of peaks found: 3                      Corr. Area 1: 644.2  
 Noise: 0.1

**Peak table for sample 1 : Silage-Bact (16S) 0.8X cleanup**

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	444	735.93	2,508.6		79.41
3	625	4.07	9.9		87.99
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,627	0.00	0.0		115.42

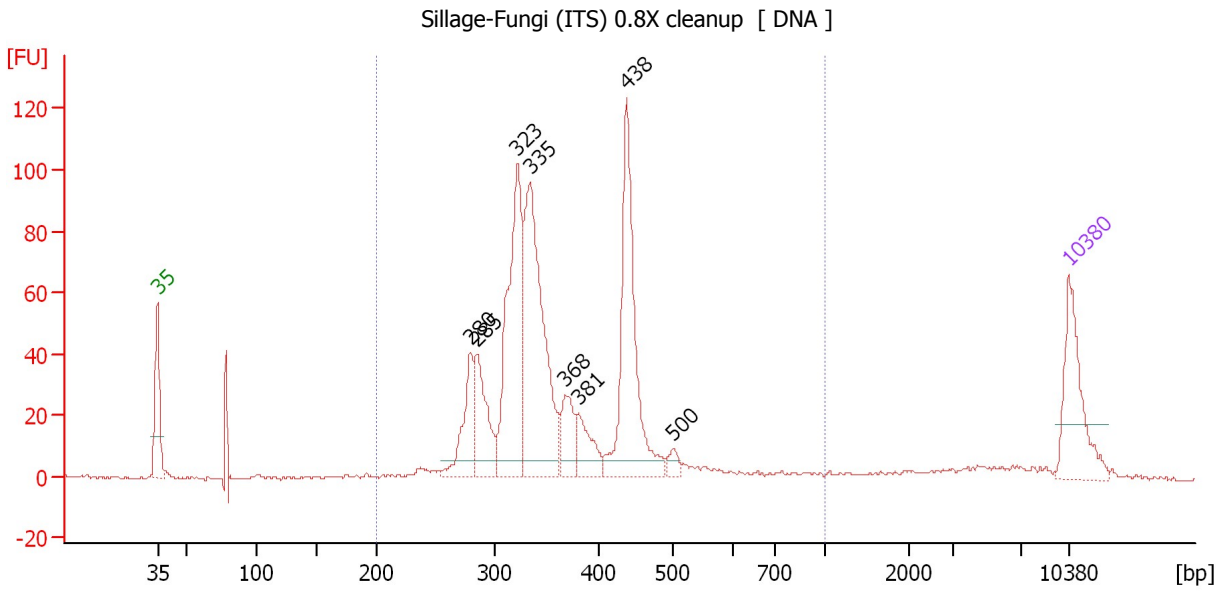
**Region table for sample 1 : Silage-Bact (16S) 0.8X cleanup**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
355	473	1,000	644.2	2,529.8	97	15.4	774.26	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sillage-Fungi (ITS) 0.8X cleanup**

Number of peaks found: 8                      Corr. Area 1: 894.7  
 Noise: 0.6

**Peak table for sample 2 : Sillage-Fungi (ITS) 0.8X cleanup**

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	81.98	443.2		67.07
3	285	89.75	476.3		67.53
4	323	251.93	1,182.8		70.66
5	335	293.61	1,328.4		71.64
6	368	49.28	202.9		74.31
7	381	46.34	184.4		75.34
8	438	222.28	769.5		79.03
9	500	11.56	35.0		82.58
10	10,380	75.00	10.9	Upper Marker	113.00

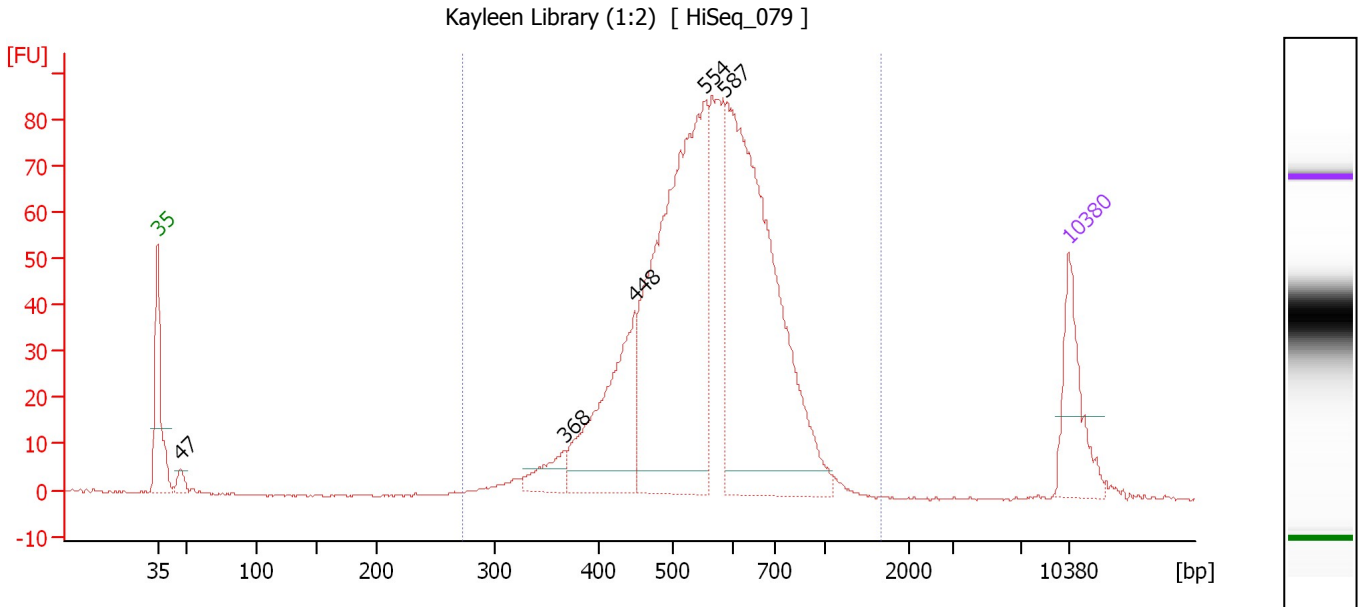
**Region table for sample 2 : Sillage-Fungi (ITS) 0.8X cleanup**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	371	1,000	894.7	4,853.5	92	23.7	1,119.23	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Kayleen Library (1:2)**

Number of peaks found: 5                      Corr. Area 1: 1,212.1  
 Noise: 0.2

**Peak table for sample 3 : Kayleen Library (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	47	17.64	570.5		44.76
3	368	40.52	166.8		74.31
4	448	216.02	729.8		79.64
5	554	591.62	1,618.6		85.07
6	587	594.50	1,535.5		86.59
7	10,380	75.00	10.9	Upper Marker	113.00

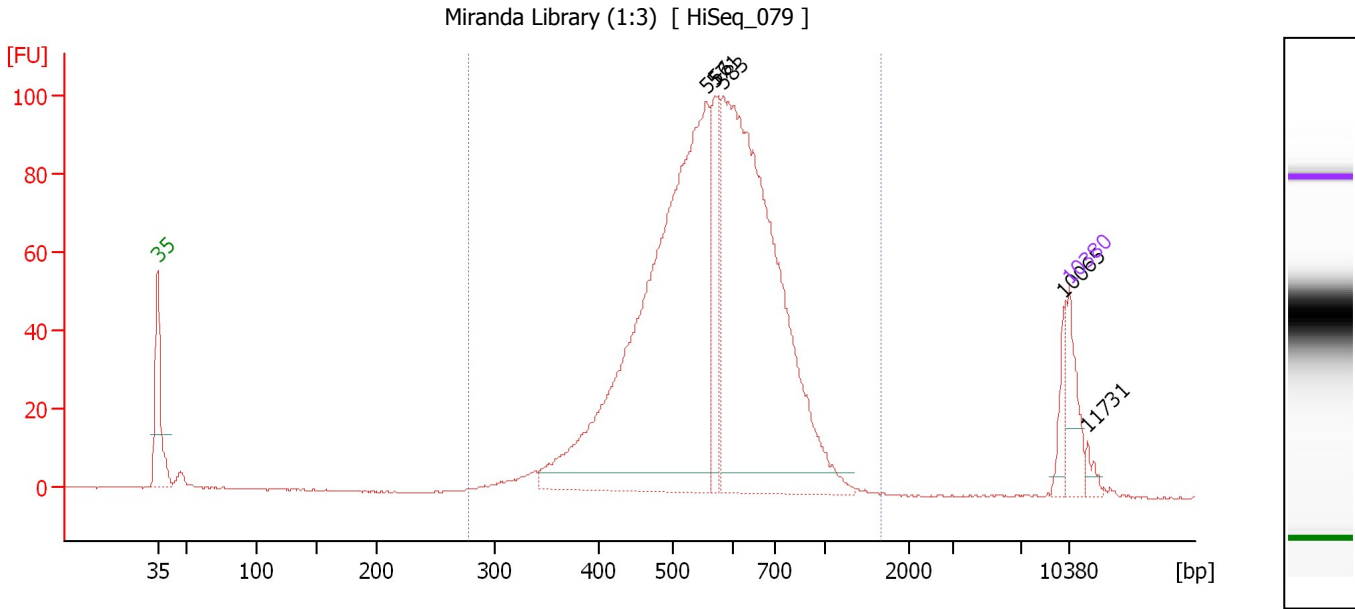
**Region table for sample 3 : Kayleen Library (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
273	569	1,653	1,212.1	4,771.1	99	22.5	1,682.89	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Miranda Library (1:3)**

Number of peaks found: 5                      Corr. Area 1: 1,413.7  
 Noise: 0.1

**Peak table for sample 4 : Miranda Library (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	556	1,551.81	4,227.9		85.17
3	571	198.26	526.3		85.85
4	583	1,331.01	3,457.5		86.43
5	10,065	44.20	6.7		112.66
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,731	0.00	0.0		114.45

**Region table for sample 4 : Miranda Library (1:3)**

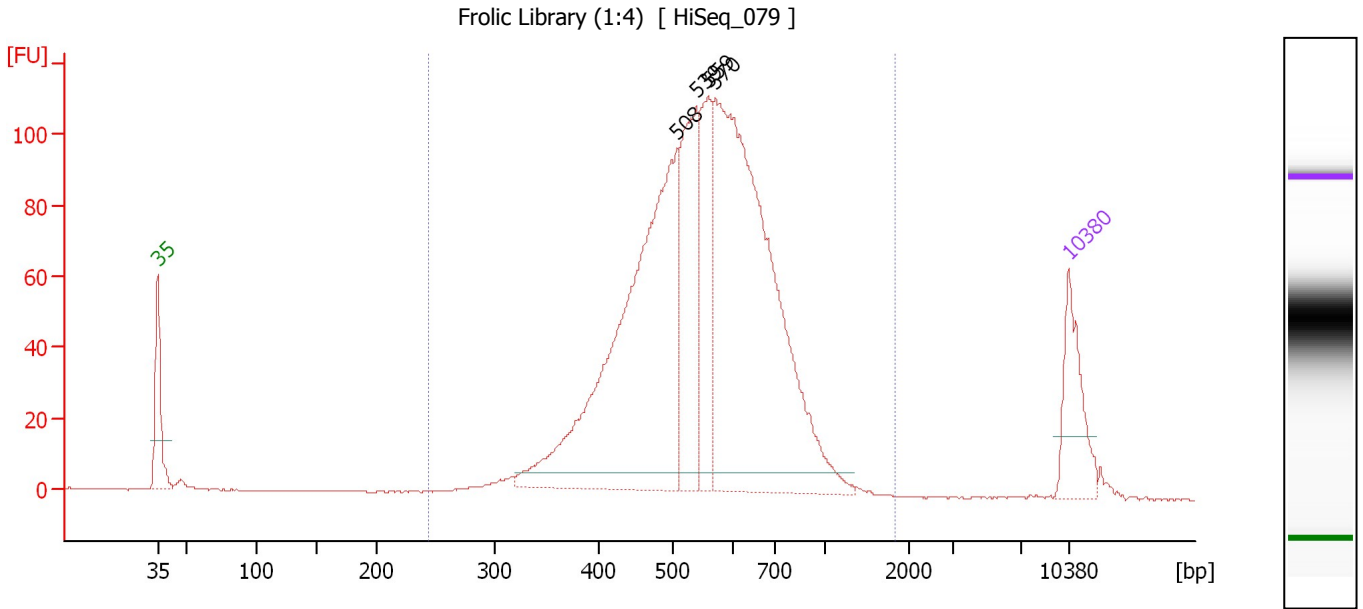
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
279	579	1,651	1,413.7	9,174.9	97	23.5	3,284.16	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Frolic Library (1:4)**

Number of peaks found: 4                      Corr. Area 1: 1,670.8  
 Noise: 0.2

**Peak table for sample 5 : Frolic Library (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	508	703.08	2,096.3		82.95
3	539	221.62	622.8		84.39
4	559	146.86	397.8		85.33
5	570	767.36	2,039.5		85.82
6	10,380	75.00	10.9	Upper Marker	113.00

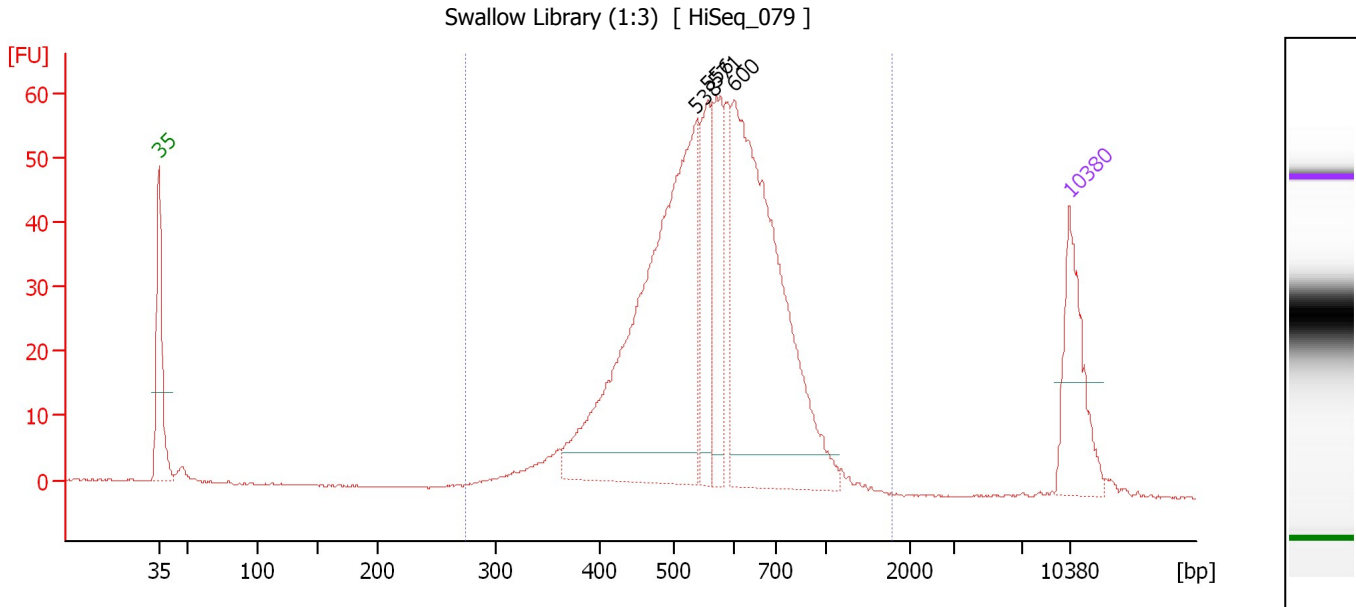
**Region table for sample 5 : Frolic Library (1:4)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
244	563	1,821	1,670.8	5,566.2	99	24.7	1,928.07	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Swallow Library (1:3)**

Number of peaks found: 4                      Corr. Area 1: 865.3  
 Noise: 0.1

**Peak table for sample 6 : Swallow Library (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	538	515.52	1,452.0		84.33
3	556	94.68	257.9		85.18
4	571	99.82	264.7		85.88
5	600	433.50	1,094.0		87.22
6	10,380	75.00	10.9	Upper Marker	113.00

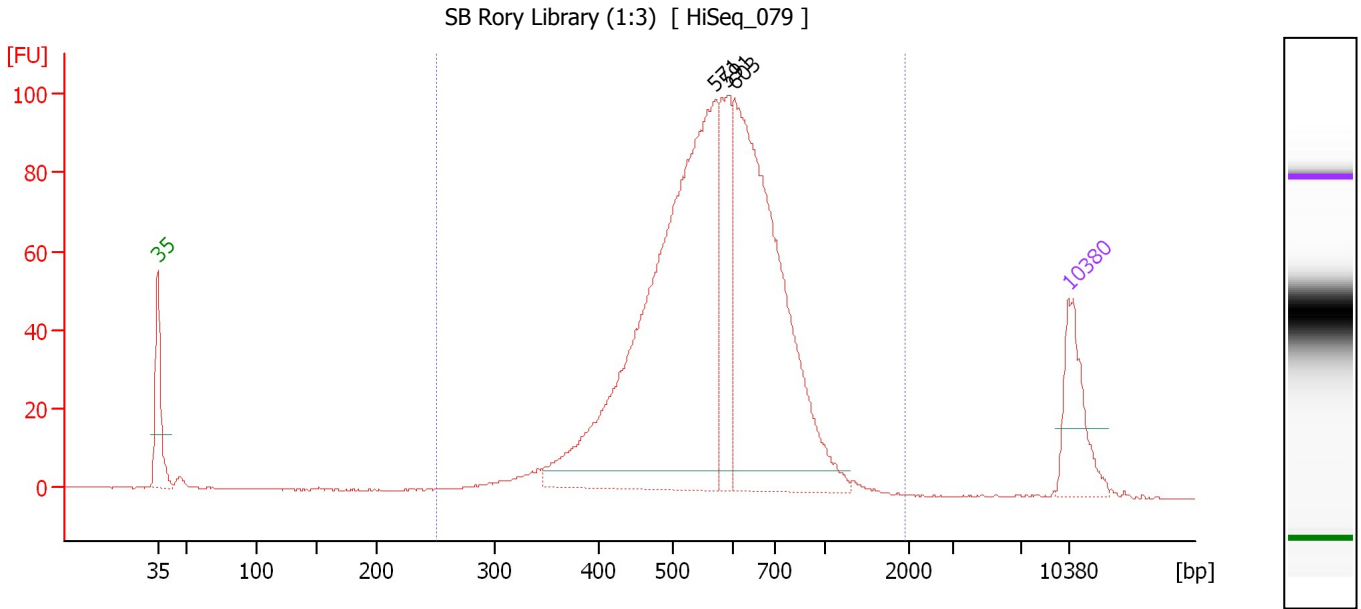
**Region table for sample 6 : Swallow Library (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
275	576	1,770	865.3	3,719.5	99	23.9	1,321.57	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SB Rory Library (1:3)**

Number of peaks found: 3                      Corr. Area 1: 1,390.9  
 Noise: 0.1

**Peak table for sample 7 : SB Rory Library (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	571	871.66	2,311.5		85.88
3	591	137.95	353.6		86.79
4	603	599.50	1,506.7		87.30
5	10,380	75.00	10.9	Upper Marker	113.00

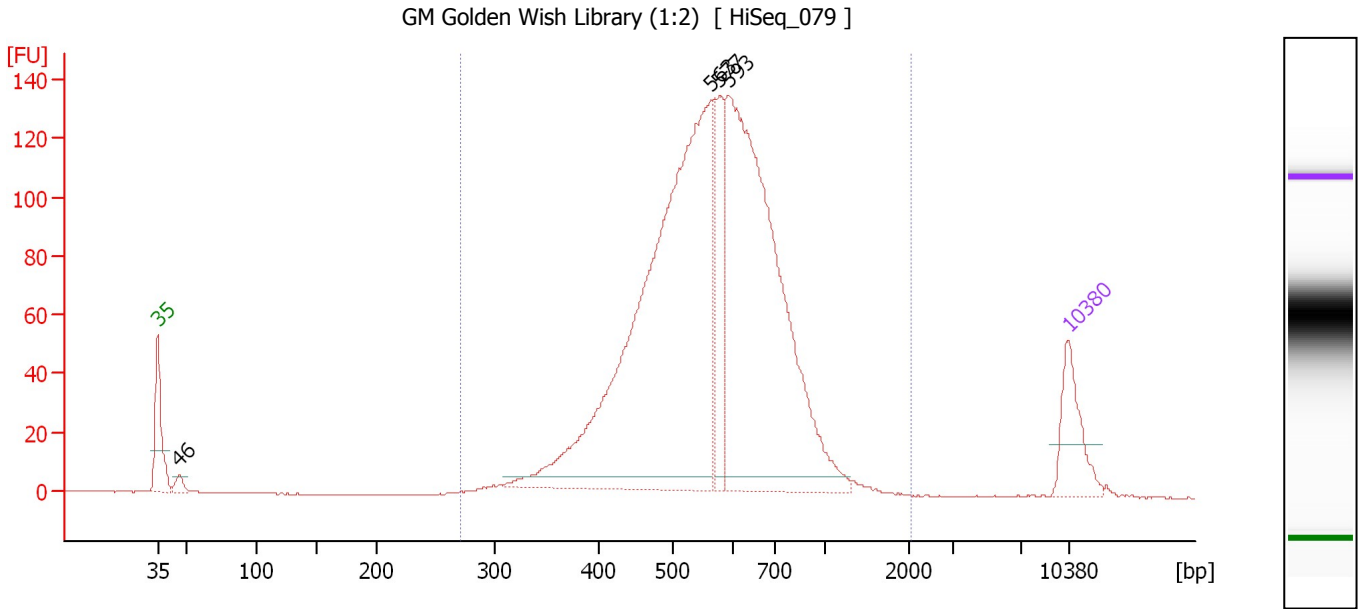
**Region table for sample 7 : SB Rory Library (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
251	587	1,952	1,390.9	4,984.5	98	25.7	1,791.41	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : GM Golden Wish Library (1:2)**

Number of peaks found: 4                      Corr. Area 1: 1,927.5  
 Noise: 0.1

**Peak table for sample 8 : GM Golden Wish Library (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	46	18.45	604.7		44.67
3	563	1,176.61	3,165.1		85.51
4	577	146.41	384.2		86.16
5	593	897.83	2,295.3		86.87
6	10,380	75.00	10.9	Upper Marker	113.00

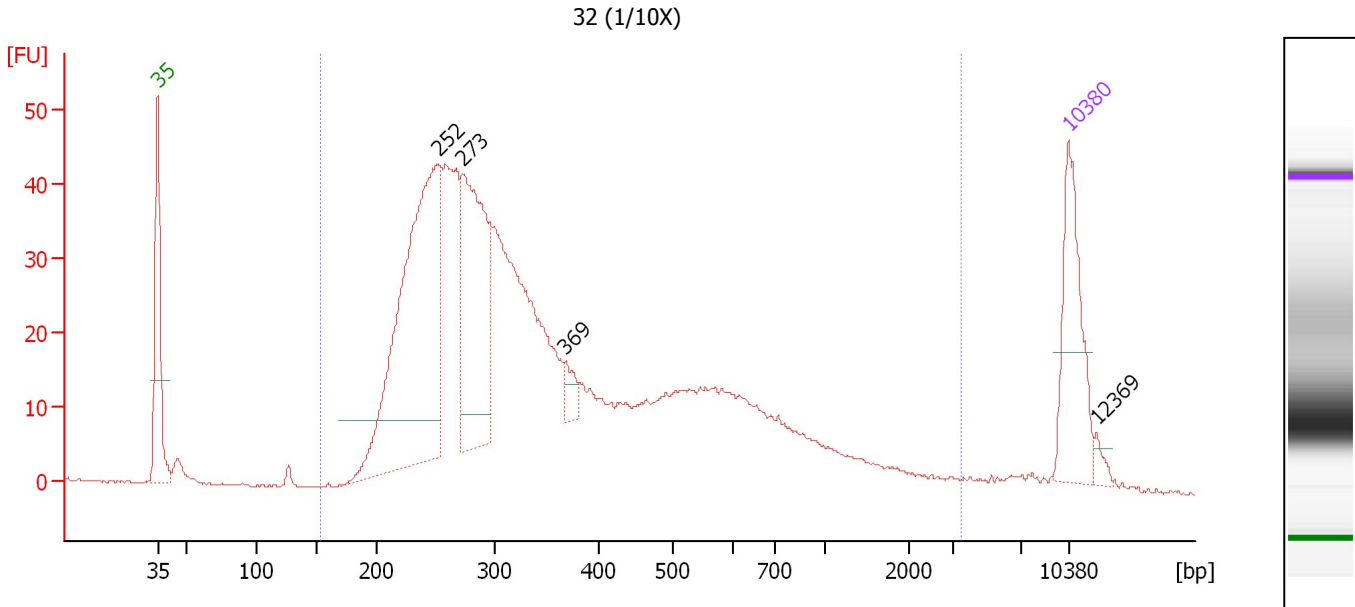
**Region table for sample 8 : GM Golden Wish Library (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
271	584	2,045	1,927.5	6,827.1	99	26.9	2,441.93	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 32 (1/10X)**

Number of peaks found: 4                      Corr. Area 1: 1,015.5  
 Noise: 0.2

**Peak table for sample 9 : 32 (1/10X)**

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	252	426.48	2,560.6		64.57
3	273	226.84	1,257.1		66.45
4	369	16.58	68.2		74.35
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,369	0.00	0.0		115.14

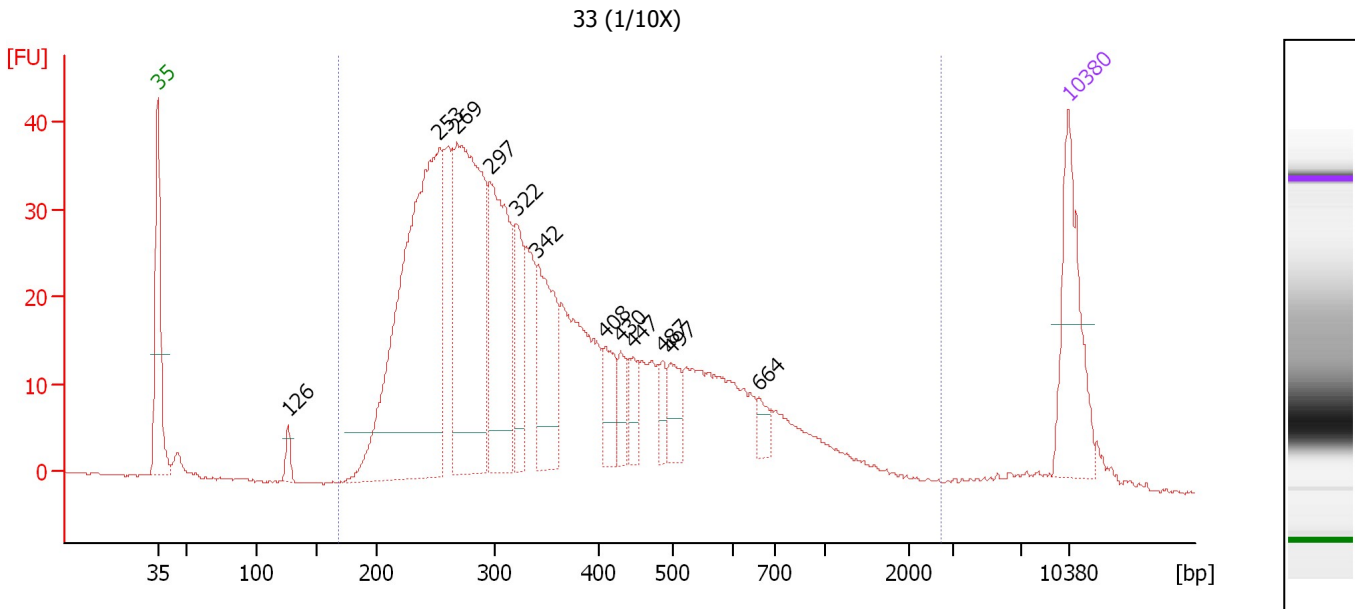
**Region table for sample 9 : 32 (1/10X)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
152	437	3,408	1,015.5	8,694.0	96	81.1	1,799.61	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 33 (1/10X)**

Number of peaks found: 12                      Corr. Area 1: 960.5  
 Noise: 0.2

**Peak table for sample 10 : 33 (1/10X)**

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	126	13.26	159.5		53.05
3	253	453.20	2,712.0		64.64
4	269	303.91	1,714.0		66.03
5	297	171.18	874.2		68.54
6	322	59.82	281.7		70.59
7	342	97.60	433.0		72.18
8	408	33.33	123.7		77.36
9	430	19.50	68.7		78.59
10	447	18.52	62.8		79.56
11	487	16.88	52.5		81.82
12	497	27.34	83.4		82.38
13	664	13.23	30.2		89.26
14	10,380	75.00	10.9	Upper Marker	113.00

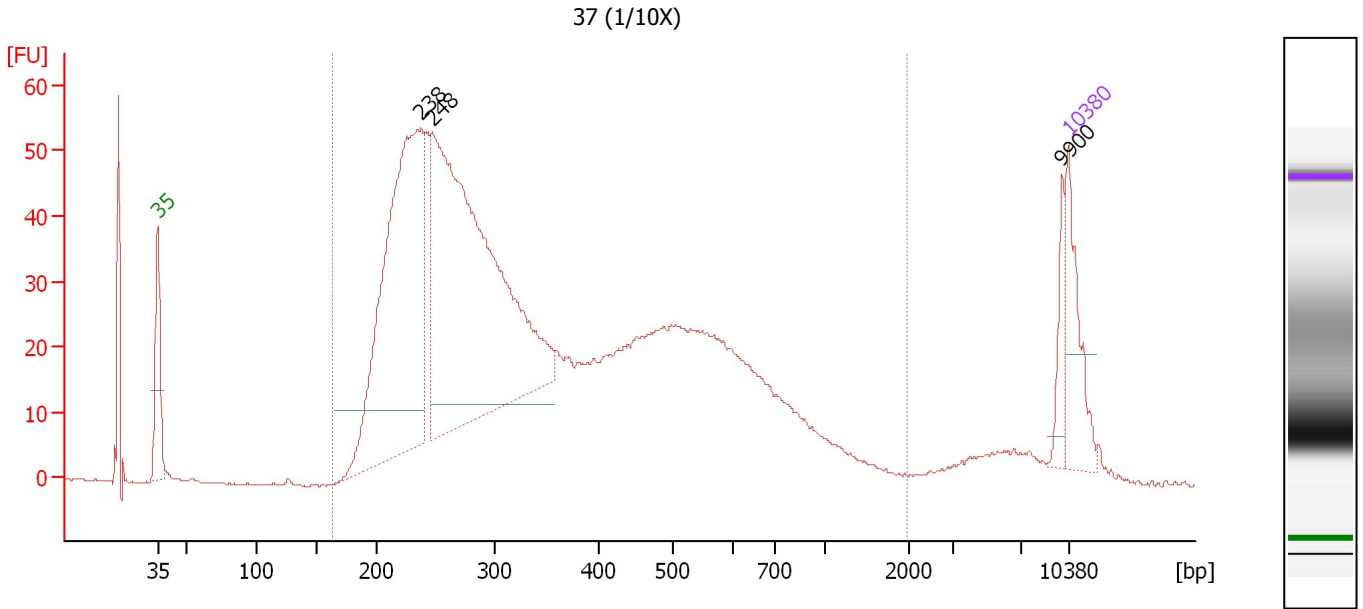
**Region table for sample 10 : 33 (1/10X)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
169	409	2,723	960.5	9,046.1	97	64.1	1,896.16	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 37 (1/10X)**

Number of peaks found: 3                      Corr. Area 1: 1,361.5  
 Noise: 0.2

**Peak table for sample 11 : 37 (1/10X)**

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	238	694.30	4,422.9		63.27
3	248	921.23	5,622.9		64.20
4	9,900	35.06	5.4		112.48
5	10,380	75.00	10.9	Upper Marker	113.00

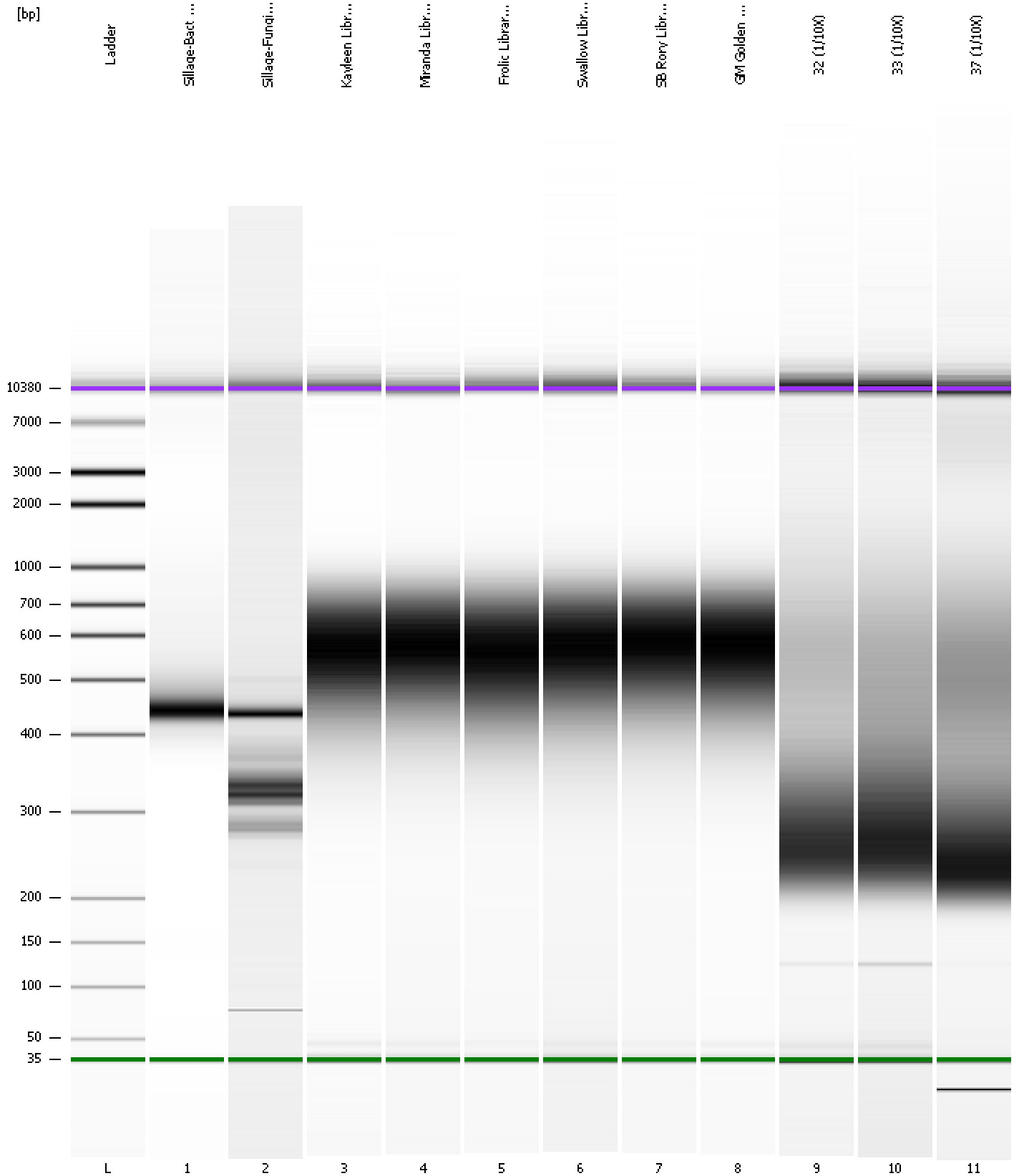
**Region table for sample 11 : 37 (1/10X)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
163	406	1,962	1,361.5	15,631.3	91	58.4	3,174.73	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
Modified: 3/25/2015 3:53:54 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-25\2015-03-25\_002.xad

Created: 3/25/2015 3:12:09 PM  
 Modified: 3/25/2015 3:53:54 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		3/25/2015 3:53:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-25\2015-03-25_002.xad)		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/25/2015 3:12:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1