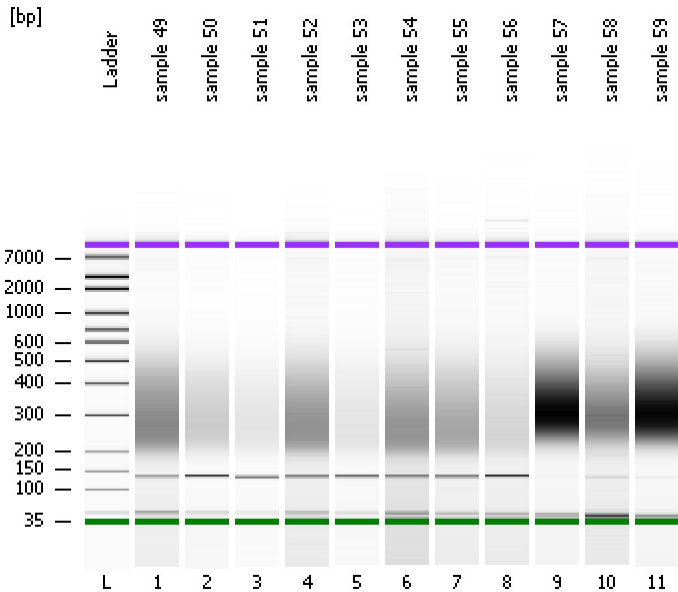


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
Modified: 1/20/2016 11:00:07 AM

### Electrophoresis File Run Summary



#### Instrument Information:

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

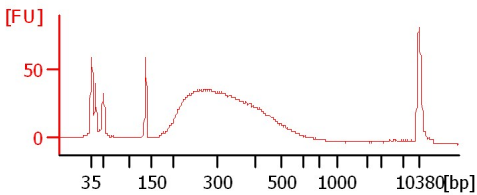
#### Assay Information:

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

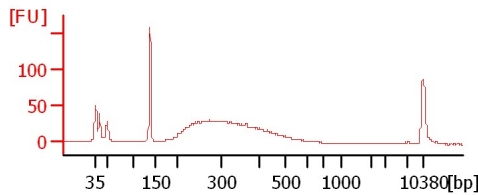
#### Chip Information:

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

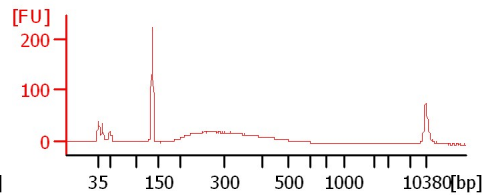
sample 49



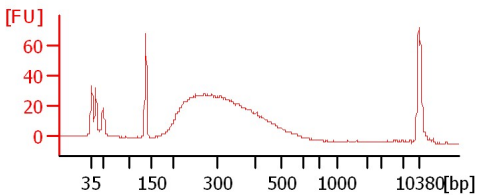
sample 50



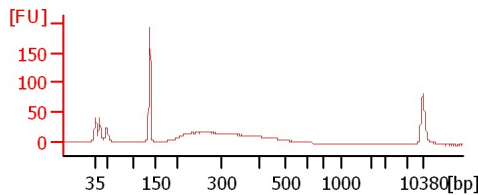
sample 51



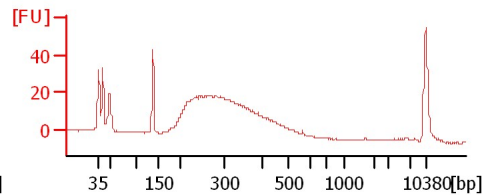
sample 52



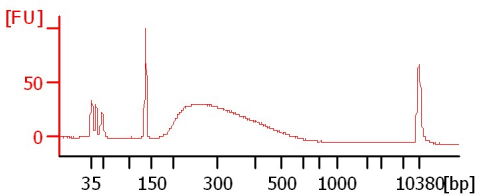
sample 53



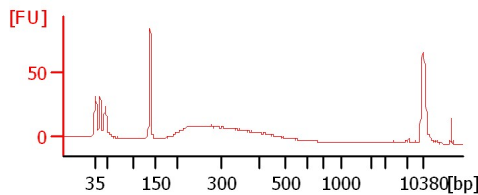
sample 54



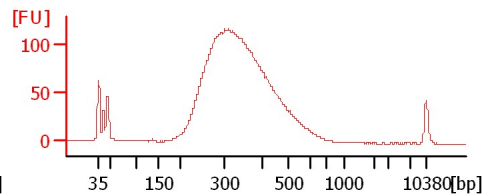
sample 55



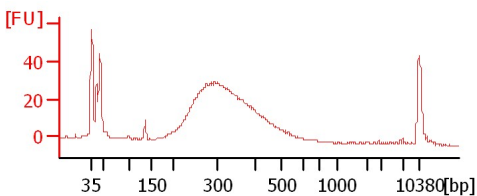
sample 56



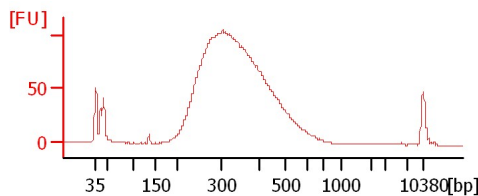
sample 57



sample 58



sample 59



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
Modified: 1/20/2016 11:00:07 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 49		<input type="checkbox"/>	✓			
sample 50		<input type="checkbox"/>	✓			
sample 51		<input type="checkbox"/>	✓			
sample 52		<input type="checkbox"/>	✓			
sample 53		<input type="checkbox"/>	✓			
sample 54		<input type="checkbox"/>	✓			
sample 55		<input type="checkbox"/>	✓			
sample 56		<input type="checkbox"/>	✓			
sample 57		<input type="checkbox"/>	✓			
sample 58		<input type="checkbox"/>	✓			
sample 59		<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\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
Modified: 1/20/2016 11:00:07 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

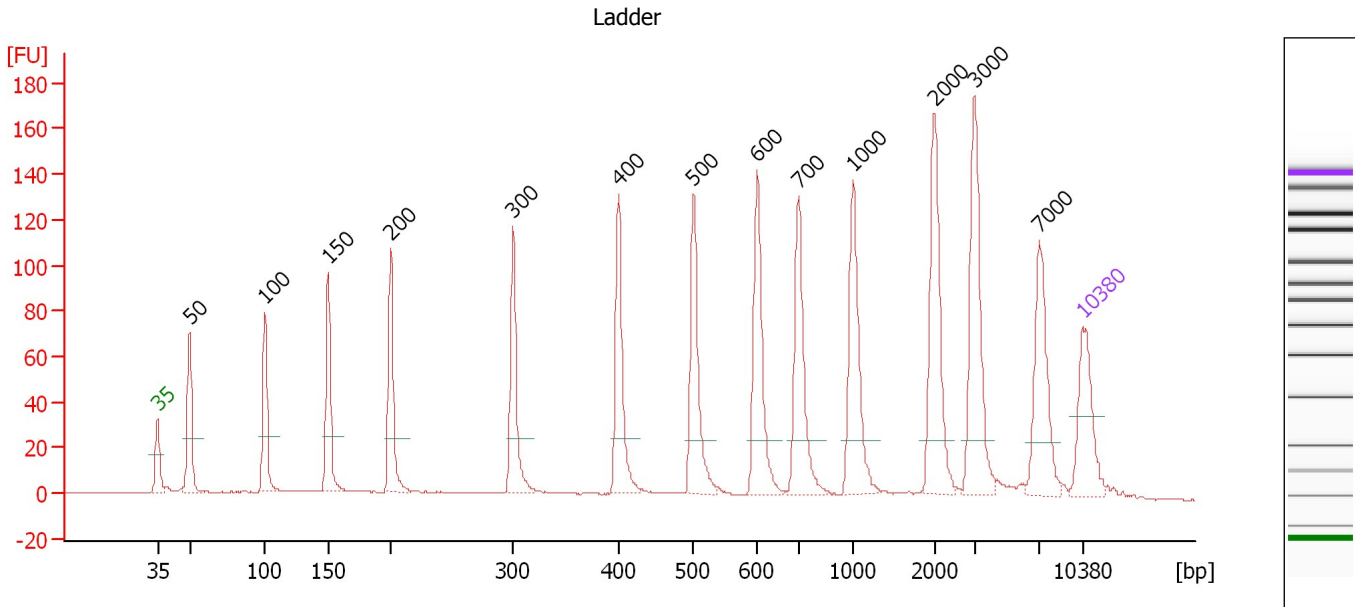
**Ladder**

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\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

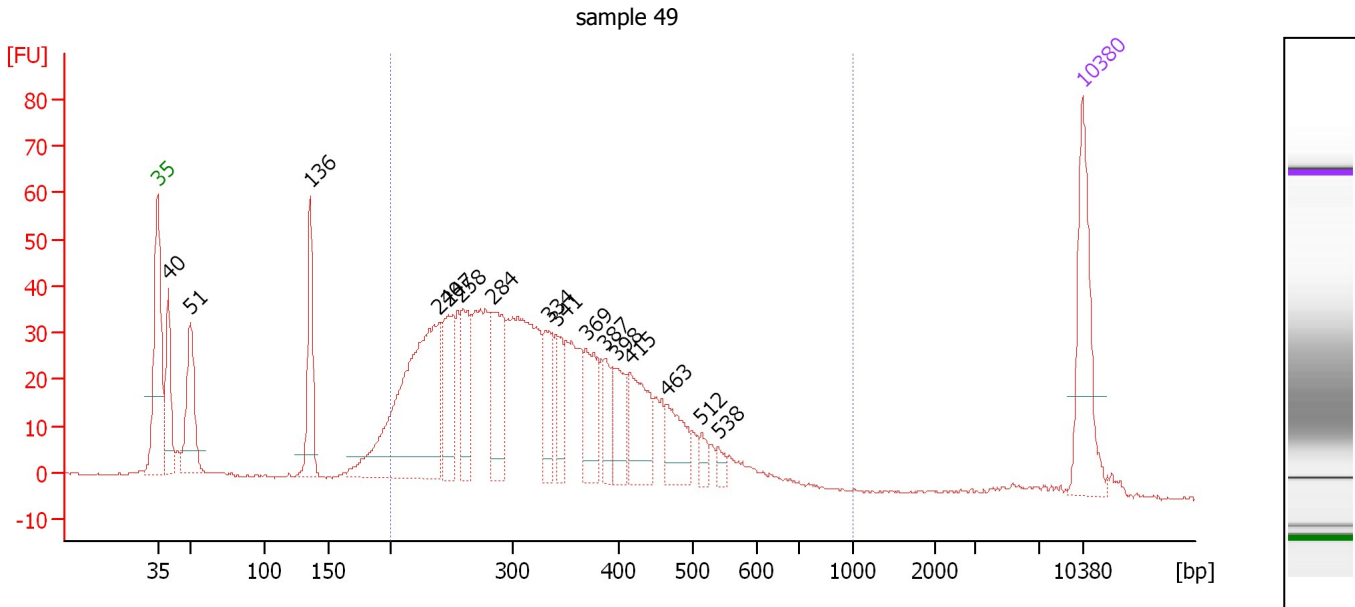
**Peak table for Ladder**

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.14
4	150	150.00	1,515.2	Ladder Peak	55.91
5	200	150.00	1,136.4	Ladder Peak	60.68
6	300	150.00	757.6	Ladder Peak	69.90
7	400	150.00	568.2	Ladder Peak	77.91
8	500	150.00	454.5	Ladder Peak	83.58
9	600	150.00	378.8	Ladder Peak	88.39
10	700	150.00	324.7	Ladder Peak	91.54
11	1,000	150.00	227.3	Ladder Peak	95.63
12	2,000	150.00	113.6	Ladder Peak	101.80
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 49**

Number of peaks found: 16                      Corr. Area 1: 1,018.3  
 Noise: 0.3

**Peak table for sample 1 : sample 49**

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	40	83.72	3,174.9		43.80
3	51	97.80	2,929.9		45.50
4	136	90.04	1,005.9		54.54
5	240	299.19	1,891.0		64.34
6	247	75.60	463.8		65.01
7	258	68.44	402.6		65.99
8	284	88.17	470.1		68.44
9	334	50.49	229.0		72.63
10	341	37.25	165.4		73.21
11	369	55.60	228.2		75.44
12	387	37.82	147.9		76.91
13	398	40.11	152.7		77.75
14	415	68.17	248.7		78.78
15	463	43.94	143.7		81.50
16	512	13.01	38.5		84.17
17	538	7.87	22.2		85.42
18	10,380	75.00	10.9	Upper Marker	113.00

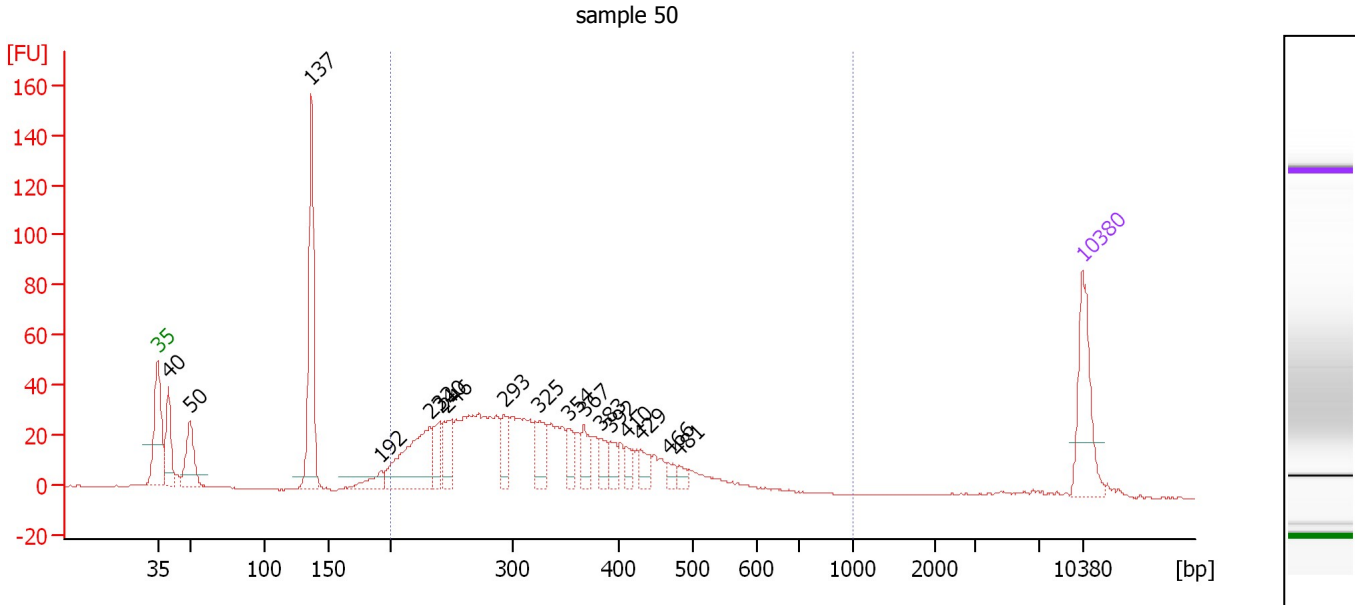
**Region table for sample 1 : sample 49**

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	337	1,018.3	7,028.3	1,414.11	82	28.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 50**

Number of peaks found: 17                      Corr. Area 1: 778.1  
 Noise: 0.2

**Peak table for sample 2 : sample 50**

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	40	82.05	3,112.7		43.80
3	50	77.68	2,347.7		45.44
4	137	233.49	2,587.6		54.64
5	192	28.64	226.4		59.89
6	232	148.19	968.2		63.62
7	240	38.77	244.7		64.38
8	246	43.04	264.7		64.96
9	293	35.34	183.0		69.22
10	325	50.57	235.9		71.89
11	354	24.89	106.6		74.20
12	367	32.17	132.8		75.27
13	383	23.77	94.1		76.51
14	392	19.16	74.1		77.27
15	410	16.43	60.7		78.47
16	429	23.74	83.9		79.53
17	466	11.18	36.3		81.67
18	481	10.64	33.5		82.51
19	10,380	75.00	10.9	Upper Marker	113.00

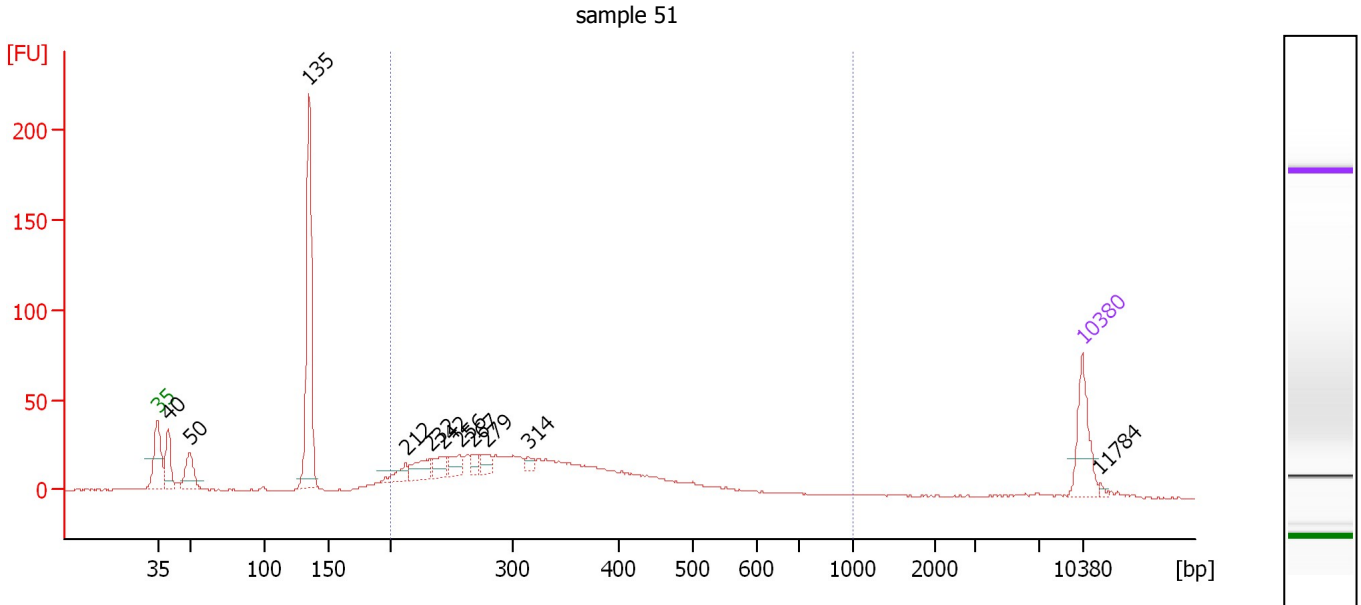
**Region table for sample 2 : sample 50**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	332	778.1	5,245.3	1,051.81	74	26.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 51**

Number of peaks found: 11                      Corr. Area 1: 561.3  
 Noise: 0.3

**Peak table for sample 3 : sample 51**

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	40	86.02	3,259.8		43.81
3	50	79.77	2,419.7		45.42
4	135	407.78	4,577.0		54.48
5	212	32.62	233.1		61.79
6	232	49.17	320.5		63.67
7	242	38.68	242.5		64.52
8	256	37.82	223.6		65.87
9	267	17.85	101.1		66.90
10	279	25.32	137.5		67.98
11	314	14.35	69.2		71.03
12	10,380	75.00	10.9	Upper Marker	113.00
13	11,784	0.00	0.0		114.35

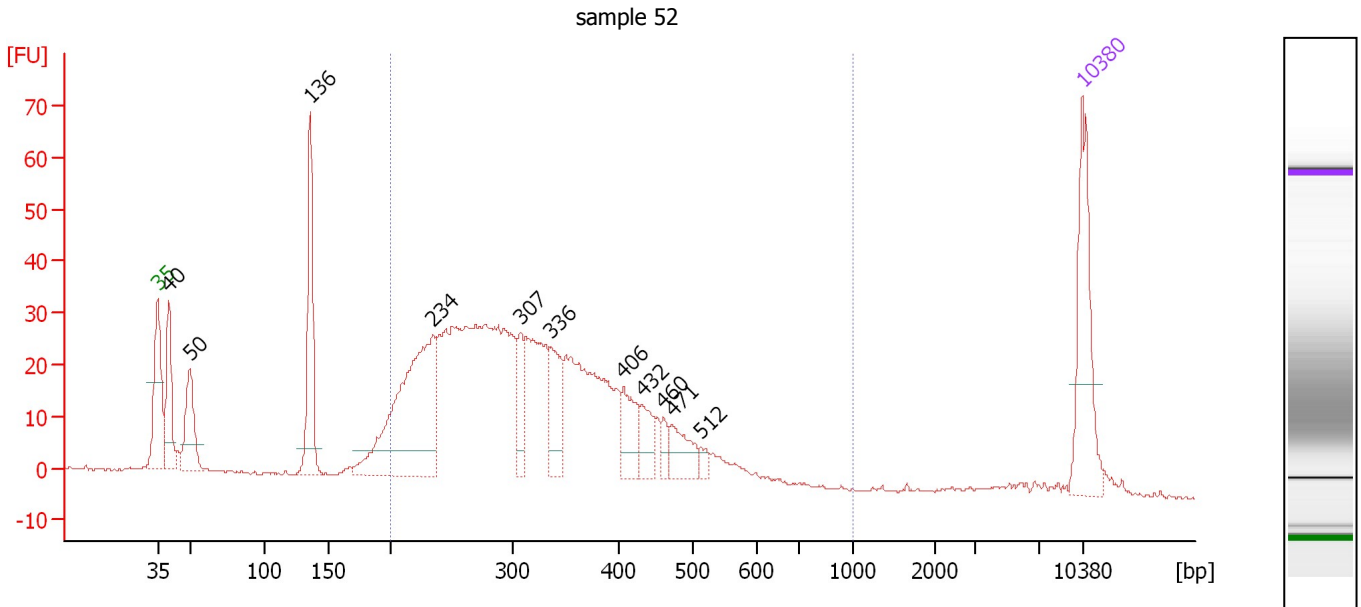
**Region table for sample 3 : sample 51**

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	333	561.3	4,795.1	952.93	62	29.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 52**

Number of peaks found: 11                      Corr. Area 1: 780.2  
 Noise: 0.3

**Peak table for sample 4 : sample 52**

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	40	78.05	2,949.9		43.82
3	50	68.52	2,077.0		45.43
4	136	123.05	1,375.1		54.54
5	234	247.09	1,598.8		63.83
6	307	37.47	184.9		70.47
7	336	52.25	235.8		72.76
8	406	39.49	147.4		78.25
9	432	27.35	95.9		79.72
10	460	11.55	38.0		81.32
11	471	31.52	101.3		81.96
12	512	7.44	22.0		84.16
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 52**

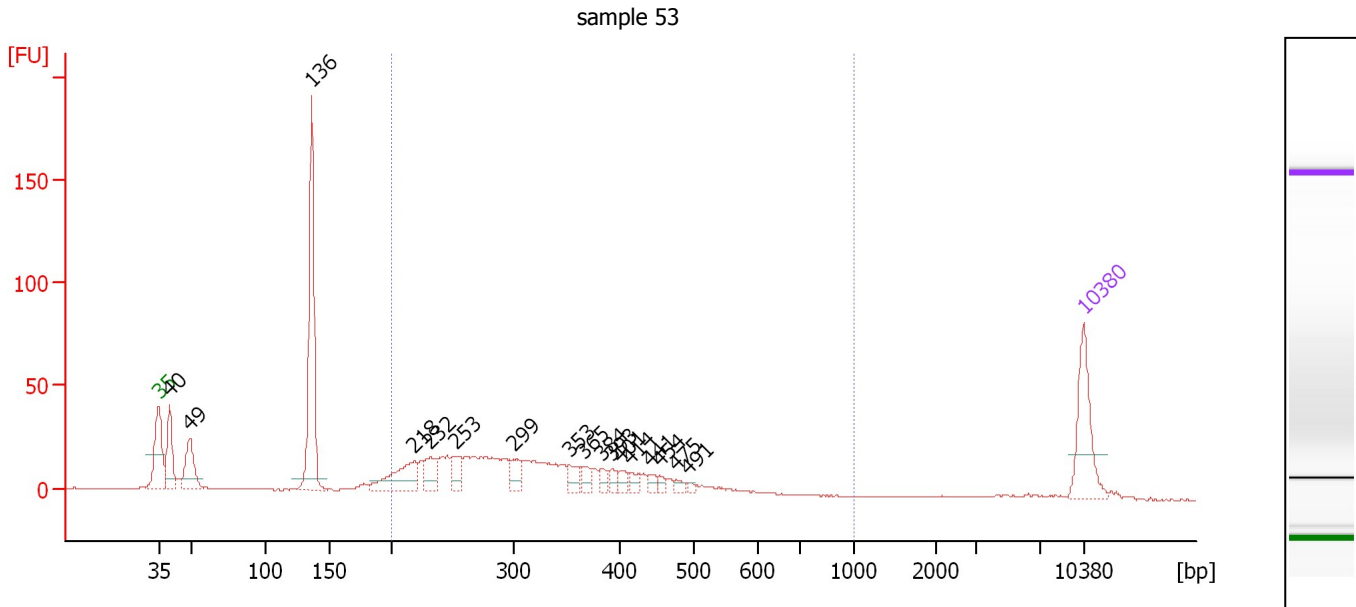
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	329	780.2	6,137.4	1,215.97	80	27.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 53**

Number of peaks found: 17                      Corr. Area 1: 468.8  
 Noise: 0.2

**Peak table for sample 5 : sample 53**

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	40	89.93	3,391.5		43.84
3	49	80.26	2,462.7		45.33
4	136	301.09	3,349.1		54.60
5	218	79.54	551.9		62.37
6	232	38.98	255.1		63.59
7	253	33.77	202.5		65.54
8	299	29.36	148.7		69.83
9	353	18.96	81.5		74.11
10	365	17.77	73.7		75.14
11	384	12.91	51.0		76.63
12	393	11.28	43.5		77.37
13	401	12.97	49.0		77.98
14	414	11.79	43.1		78.72
15	441	9.84	33.8		80.21
16	454	7.60	25.4		80.96
17	475	8.32	26.5		82.17
18	491	4.98	15.4		83.05
19	10,380	75.00	10.9	Upper Marker	113.00

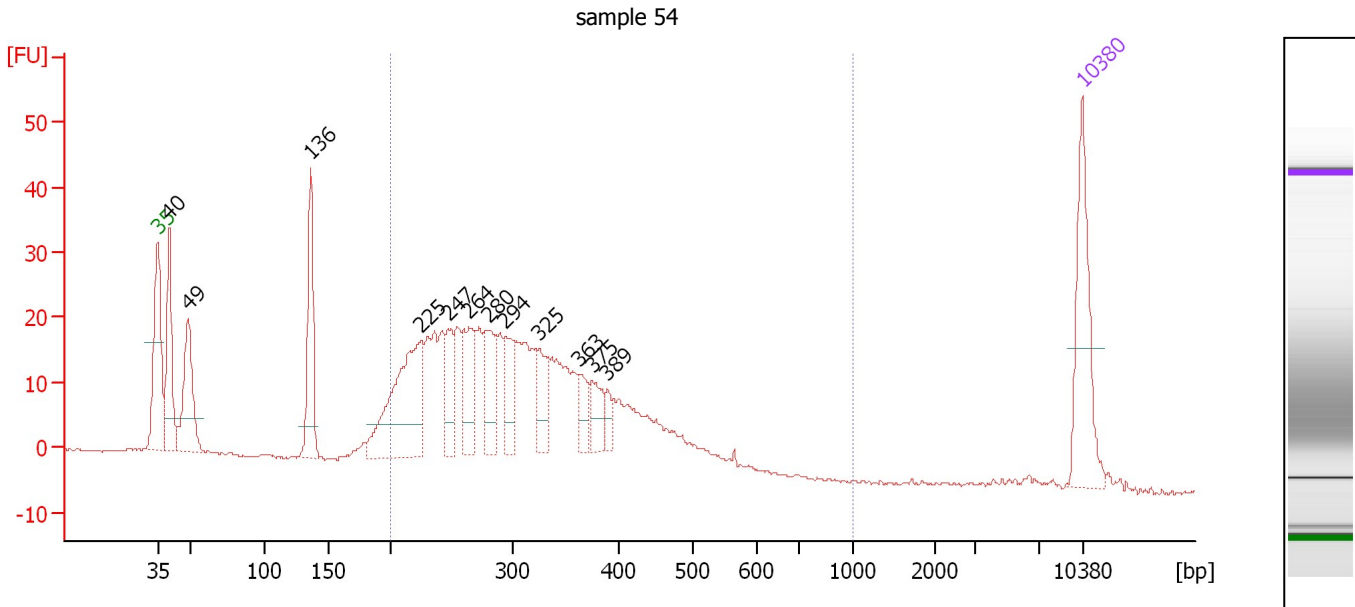
**Region table for sample 5 : sample 53**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	332	468.8	3,364.2	666.83	59	29.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 54**

Number of peaks found: 12                      Corr. Area 1: 526.1  
 Noise: 0.2

**Peak table for sample 6 : sample 54**

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	40	105.25	3,960.1		43.85
3	49	100.99	3,100.5		45.32
4	136	100.47	1,119.7		54.57
5	225	170.25	1,147.5		62.97
6	247	44.18	271.1		65.01
7	264	54.68	314.0		66.57
8	280	57.16	309.5		68.04
9	294	44.11	227.6		69.32
10	325	41.41	192.8		71.93
11	363	22.73	95.0		74.92
12	375	26.73	108.0		75.91
13	389	13.26	51.6		77.05
14	10,380	75.00	10.9	Upper Marker	113.00

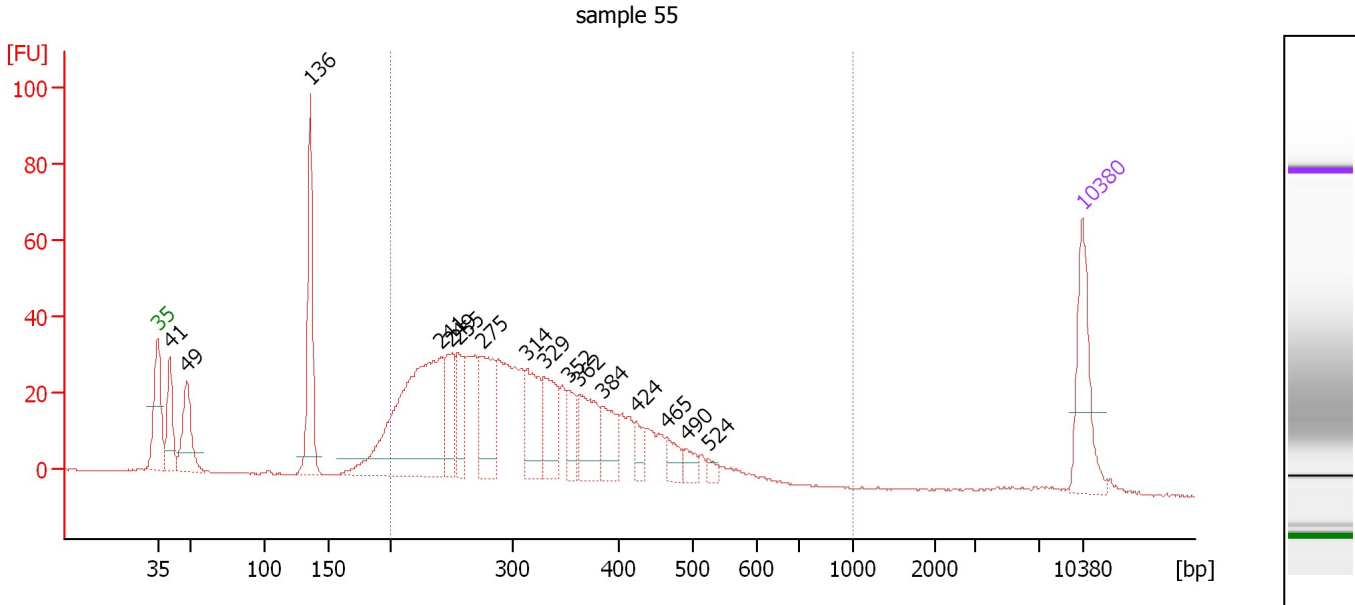
**Region table for sample 6 : sample 54**

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	321	526.1	5,539.0	1,076.17	76	27.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 55**

Number of peaks found: 16                      Corr. Area 1: 809.4  
 Noise: 0.2

**Peak table for sample 7 : sample 55**

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	41	75.53	2,813.7		43.92
3	49	93.38	2,903.3		45.22
4	136	180.05	2,009.3		54.55
5	241	368.37	2,315.6		64.46
6	249	74.37	451.8		65.24
7	255	56.25	334.7		65.72
8	275	108.66	599.6		67.56
9	314	86.15	416.2		70.99
10	329	74.97	345.0		72.25
11	352	34.13	146.8		74.08
12	362	76.41	319.4		74.91
13	384	49.17	193.9		76.65
14	424	22.17	79.3		79.26
15	465	22.68	73.9		81.58
16	490	16.92	52.3		83.03
17	524	8.71	25.2		84.72
18	10,380	75.00	10.9	Upper Marker	113.00

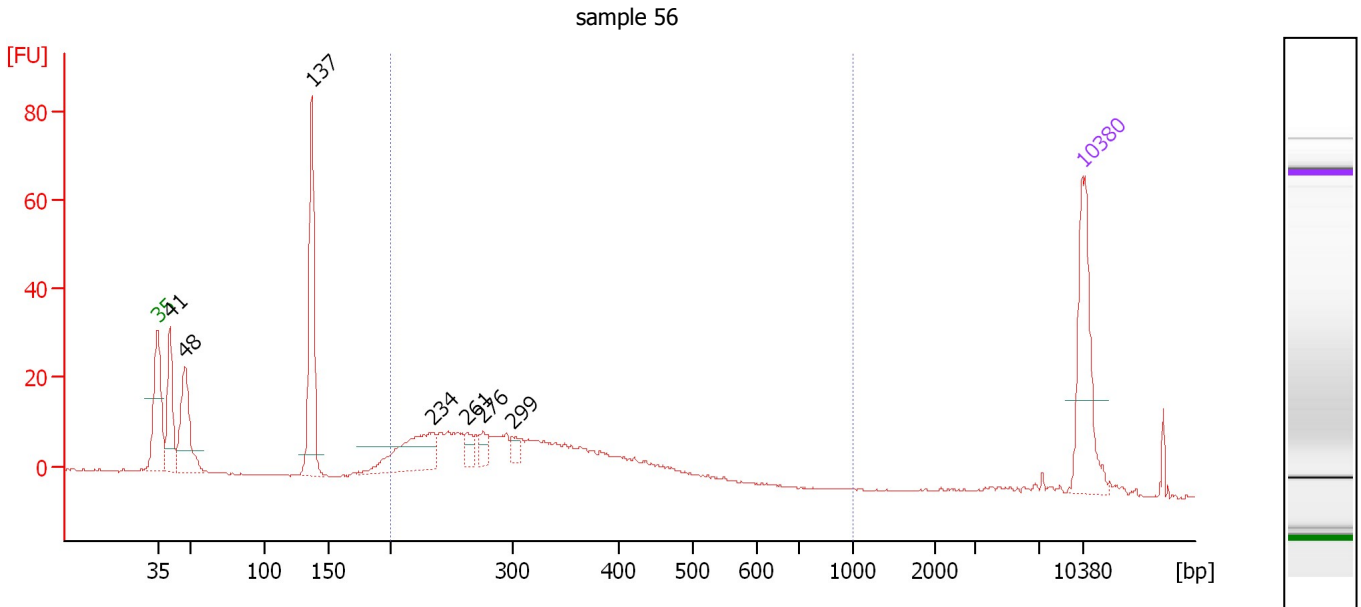
**Region table for sample 7 : sample 55**

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	323	809.4	6,986.7	1,361.74	80	27.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

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 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 56**

Number of peaks found: 7                      Corr. Area 1: 252.8  
 Noise: 0.2

**Peak table for sample 8 : sample 56**

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	41	78.28	2,908.8		43.94
3	48	94.94	3,011.5		45.07
4	137	150.42	1,664.1		54.67
5	234	81.00	525.5		63.77
6	261	14.20	82.3		66.33
7	276	12.70	69.8		67.66
8	299	8.87	44.9		69.83
9	10,380	75.00	10.9	Upper Marker	113.00

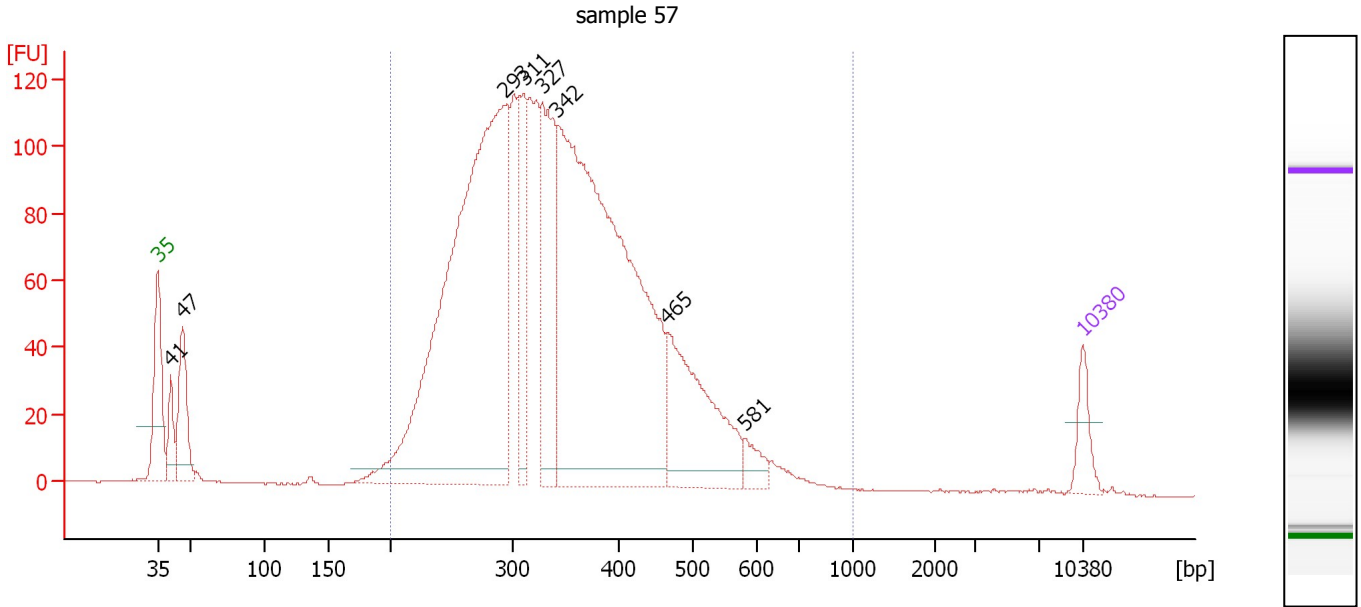
**Region table for sample 8 : sample 56**

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	318	252.8	2,130.4	412.72	59	25.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

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 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 57**

Number of peaks found: 8                      Corr. Area 1: 2,583.5  
 Noise: 0.2

**Peak table for sample 9 : sample 57**

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	41	140.40	5,169.2		44.00
3	47	289.25	9,386.5		44.89
4	293	2,582.26	13,353.5		69.26
5	311	314.95	1,536.4		70.75
6	327	577.40	2,672.1		72.10
7	342	2,515.48	11,133.6		73.29
8	465	554.10	1,804.3		81.61
9	581	64.15	167.2		87.49
10	10,380	75.00	10.9	Upper Marker	113.00

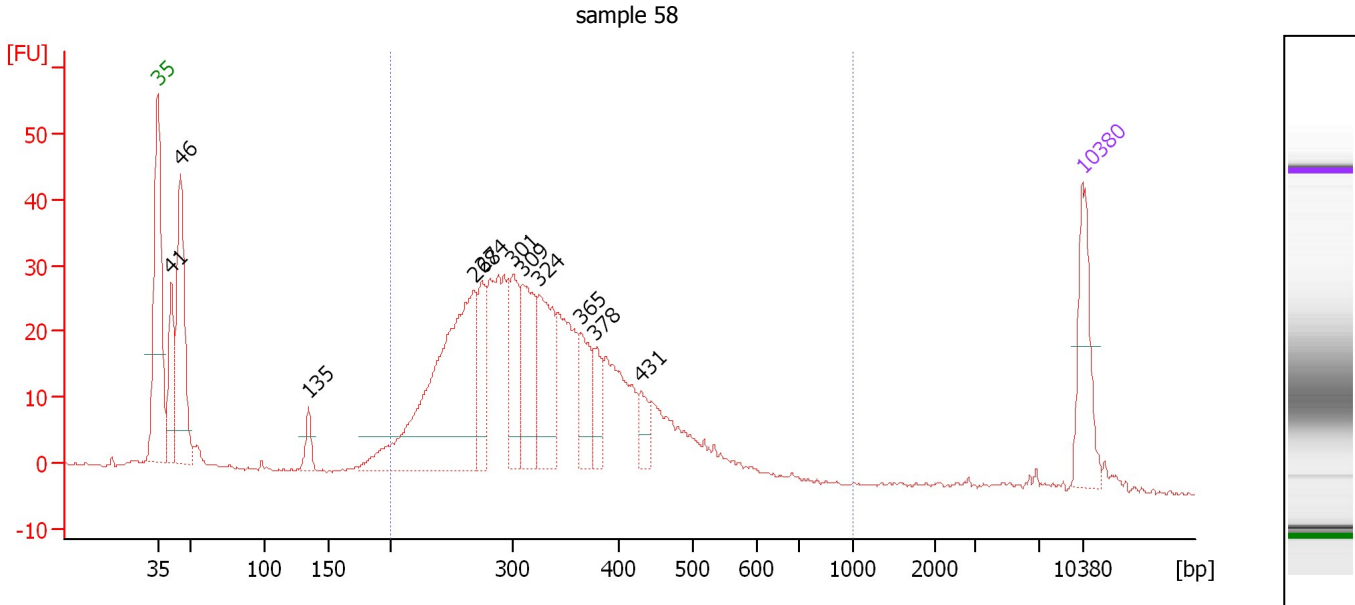
**Region table for sample 9 : sample 57**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	352	2,583.5	34,510.7	7,390.92	95	26.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 58**

Number of peaks found: 11                      Corr. Area 1: 632.1  
 Noise: 0.2

**Peak table for sample 10 : sample 58**

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	41	108.30	3,985.1		44.00
3	46	248.27	8,212.3		44.75
4	135	28.34	318.9		54.45
5	268	442.93	2,504.2		66.95
6	274	74.82	413.0		67.55
7	301	94.73	477.5		69.95
8	309	113.68	558.0		70.60
9	324	128.59	600.7		71.85
10	365	64.60	268.2		75.10
11	378	37.34	149.6		76.15
12	431	29.46	103.6		79.65
13	10,380	75.00	10.9	Upper Marker	113.00

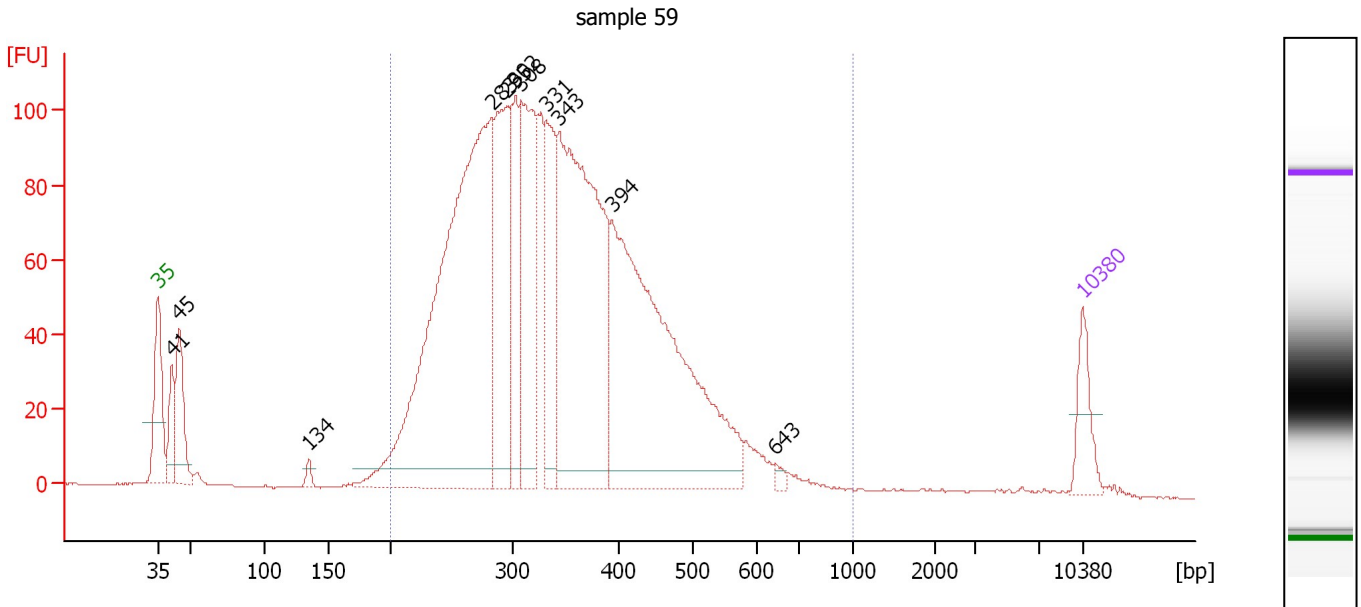
**Region table for sample 10 : sample 58**

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	335	632.1	8,082.4	1,660.56	82	25.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 59**

Number of peaks found: 11                      Corr. Area 1: 2,375.0  
 Noise: 0.2

**Peak table for sample 11 : sample 59**

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	41	113.84	4,157.4		44.05
3	45	206.00	6,906.1		44.65
4	134	17.83	201.2		54.41
5	283	1,676.85	8,983.3		68.32
6	295	466.45	2,393.3		69.47
7	302	234.55	1,176.4		70.07
8	308	473.38	2,330.9		70.52
9	331	252.28	1,153.2		72.42
10	343	1,080.94	4,770.3		73.37
11	394	1,139.16	4,381.4		77.42
12	643	12.66	29.9		89.73
13	10,380	75.00	10.9	Upper Marker	113.00

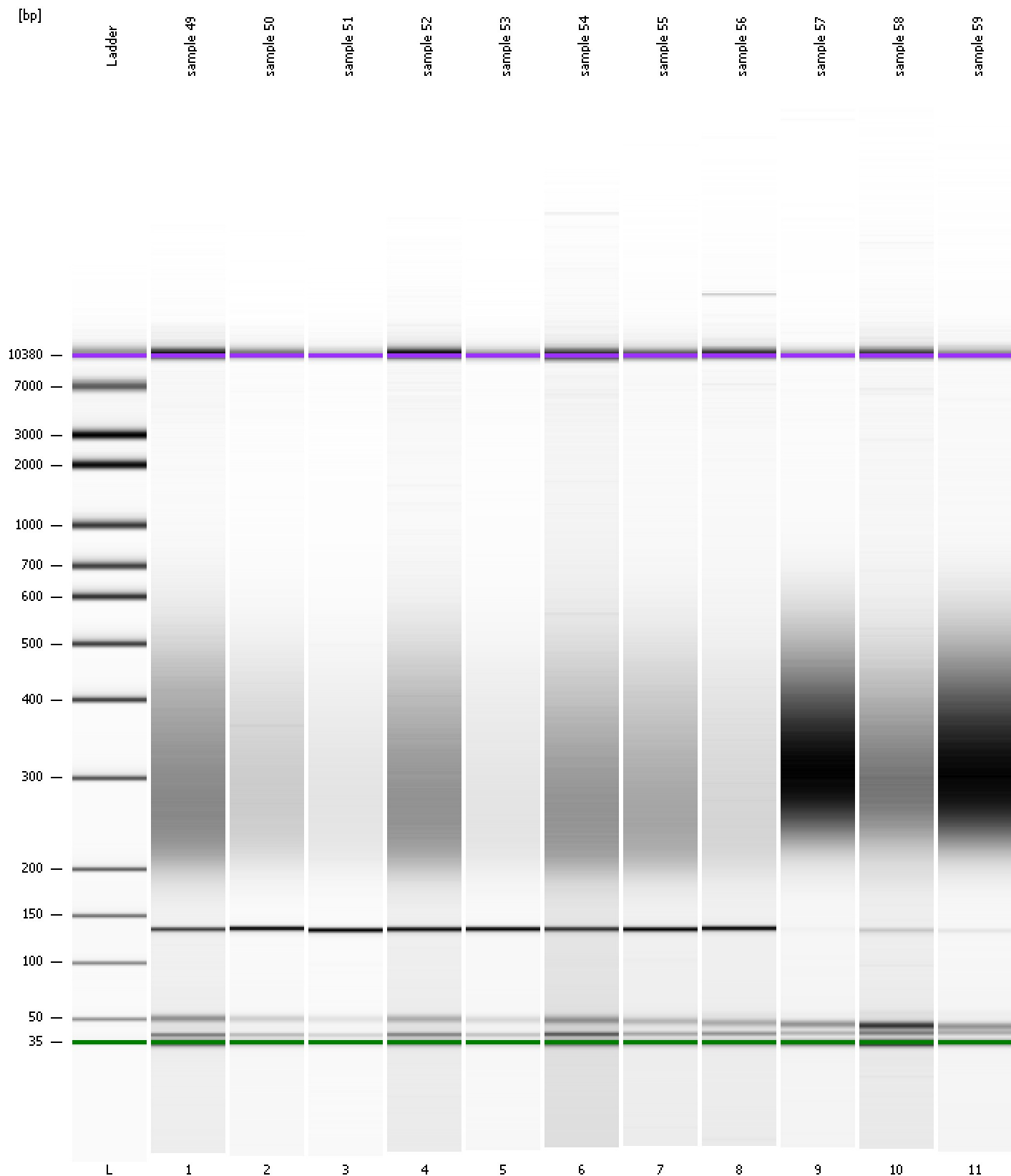
**Region table for sample 11 : sample 59**

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	350	2,375.0	26,495.8	5,618.72	94	27.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
Modified: 1/20/2016 11:00:07 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_001.xad

Created: 1/20/2016 10:18:50 AM  
 Modified: 1/20/2016 11:00:07 AM

**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		1/20/2016 11:00:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-20\2016-01-20_001.xad)		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2016 10:18:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1