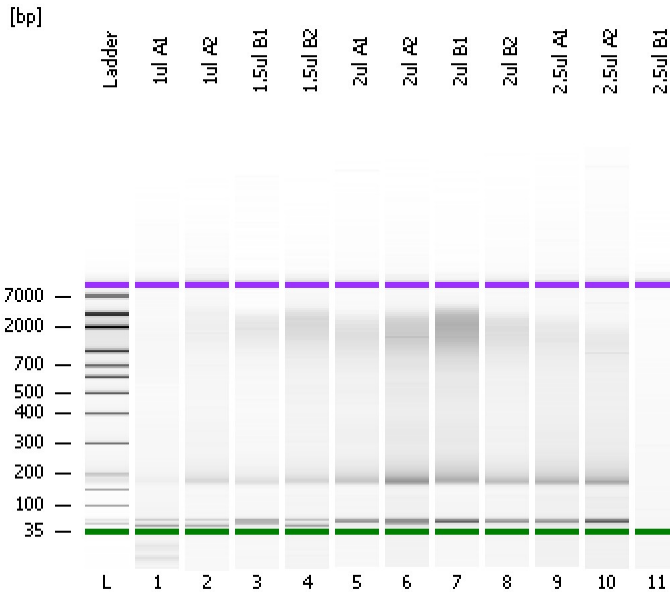


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
Modified: 6/24/2015 3:13:07 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

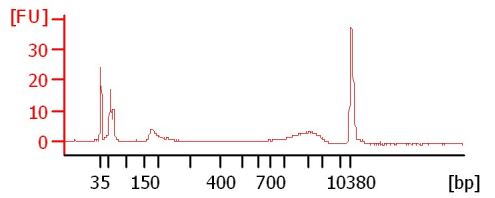
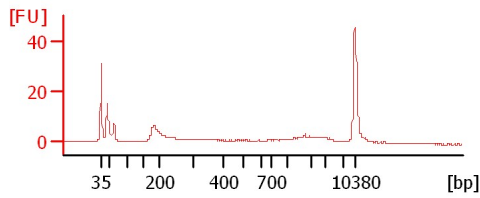
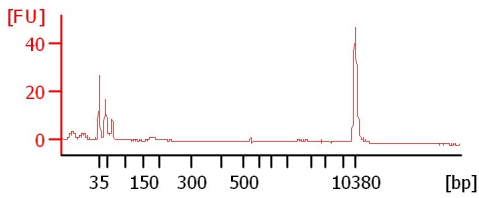
Chip Information:

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

1ul A1

1ul A2

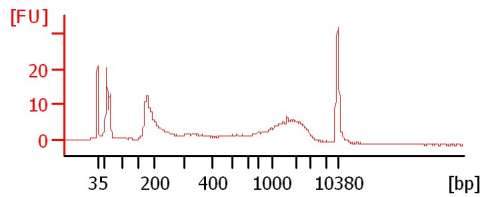
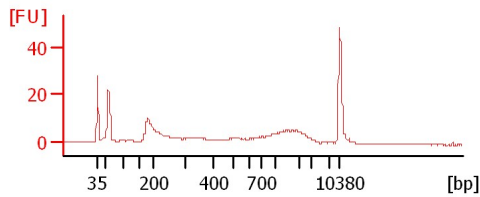
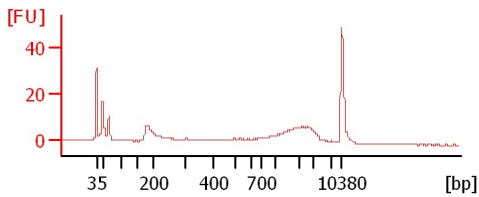
1.5ul B1



1.5ul B2

2ul A1

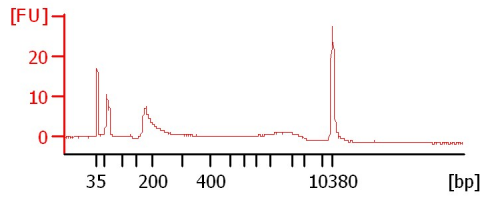
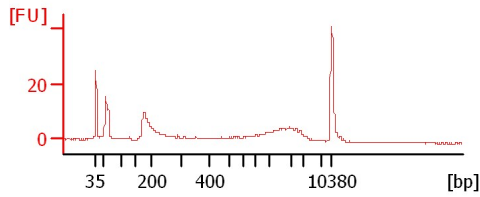
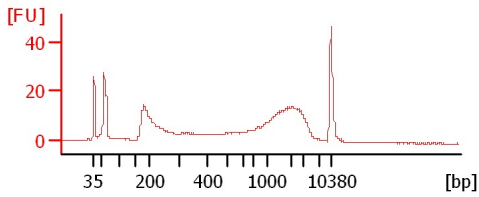
2ul A2



2ul B1

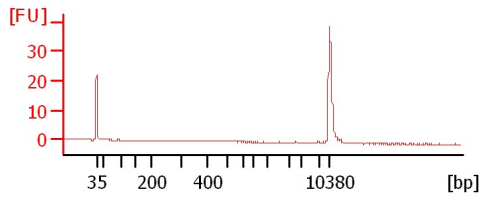
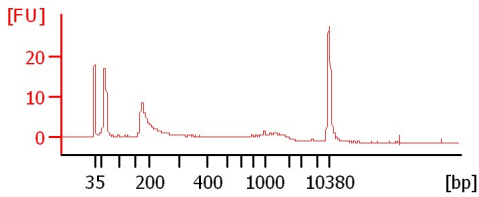
2ul B2

2.5ul A1



2.5ul A2

2.5ul B1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1ul A1		<input type="checkbox"/>	✓			
1ul A2		<input type="checkbox"/>	✓			
1.5ul B1		<input type="checkbox"/>	✓			
1.5ul B2		<input type="checkbox"/>	✓			
2ul A1	50K cells	<input type="checkbox"/>	✓			
2ul A2	50K cells	<input type="checkbox"/>	✓			
2ul B1	50K cells	<input type="checkbox"/>	✓			
2ul B2	50K cells	<input type="checkbox"/>	✓			
2.5ul A1		<input type="checkbox"/>	✓			
2.5ul A2		<input type="checkbox"/>	✓			
2.5ul B1		<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\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 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

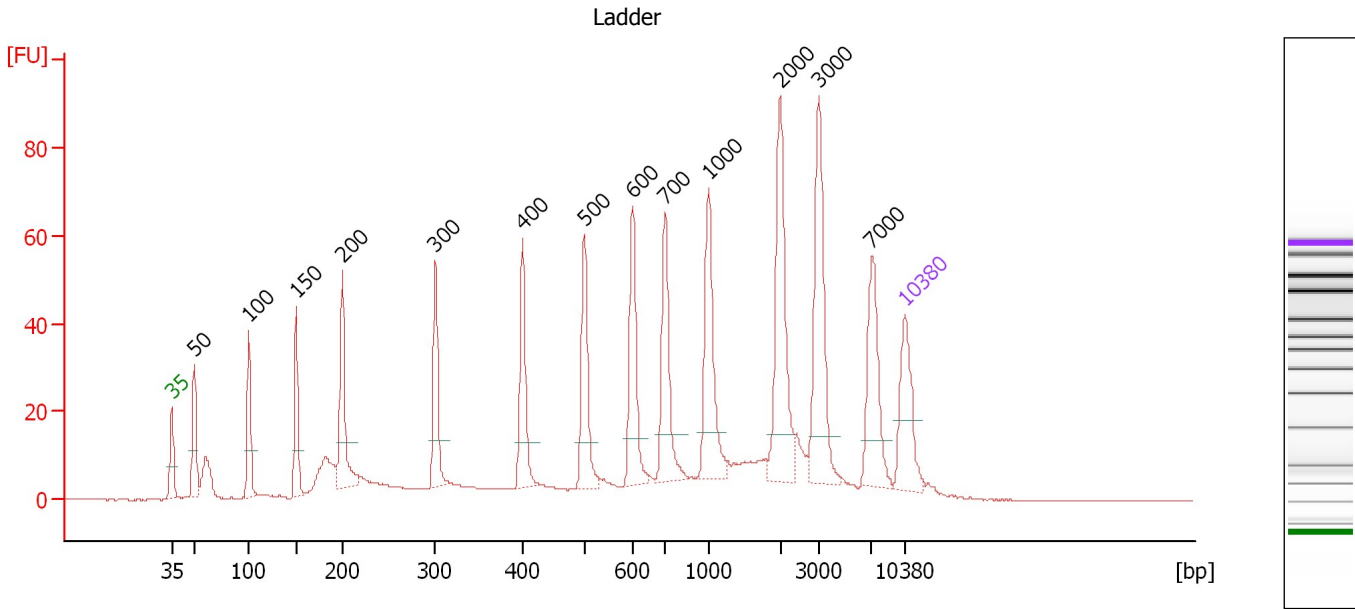
**Ladder**

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\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

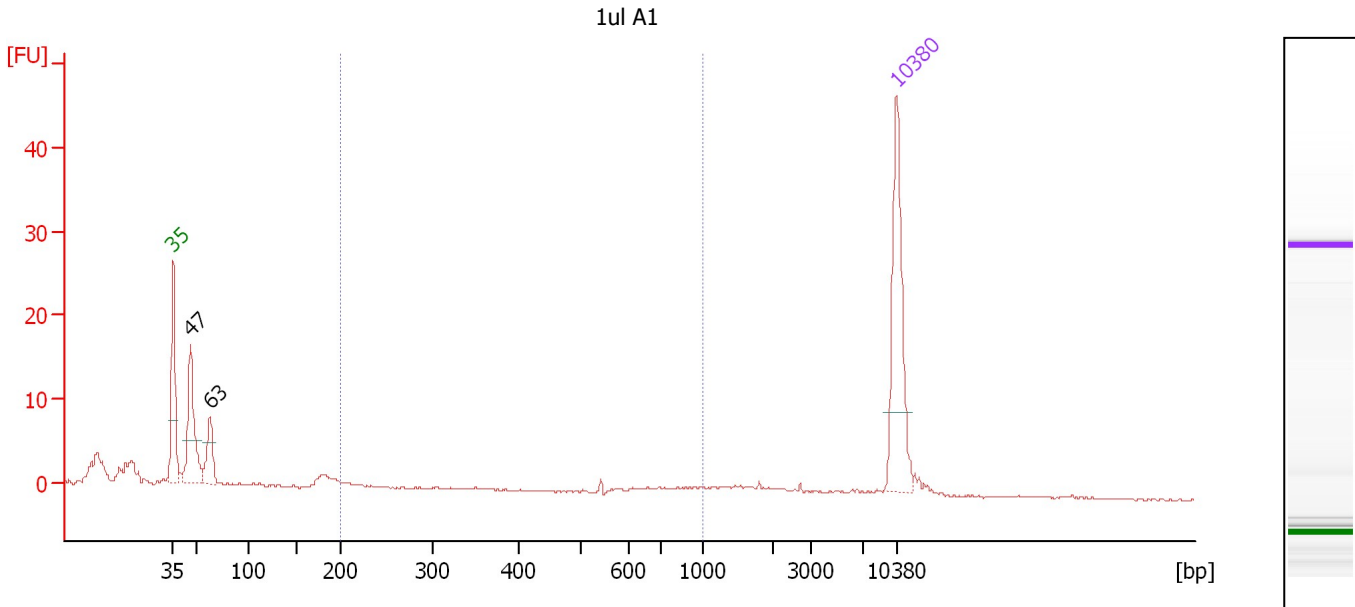
**Peak table for Ladder**

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	45.19
3	100	150.00	2,272.7	Ladder Peak	50.38
4	150	150.00	1,515.2	Ladder Peak	54.91
5	200	150.00	1,136.4	Ladder Peak	59.29
6	300	150.00	757.6	Ladder Peak	68.20
7	400	150.00	568.2	Ladder Peak	76.50
8	500	150.00	454.5	Ladder Peak	82.40
9	600	150.00	378.8	Ladder Peak	87.04
10	700	150.00	324.7	Ladder Peak	90.14
11	1,000	150.00	227.3	Ladder Peak	94.27
12	2,000	150.00	113.6	Ladder Peak	101.09
13	3,000	150.00	75.8	Ladder Peak	104.80
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1ul A1**

Number of peaks found: 2                      Corr. Area 1: 12.2  
 Noise: 0.1

**Peak table for sample 1 : 1ul A1**

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	91.50	2,970.5		44.70
3	63	37.98	910.3		46.56
4	10,380	75.00	10.9	Upper Marker	113.00

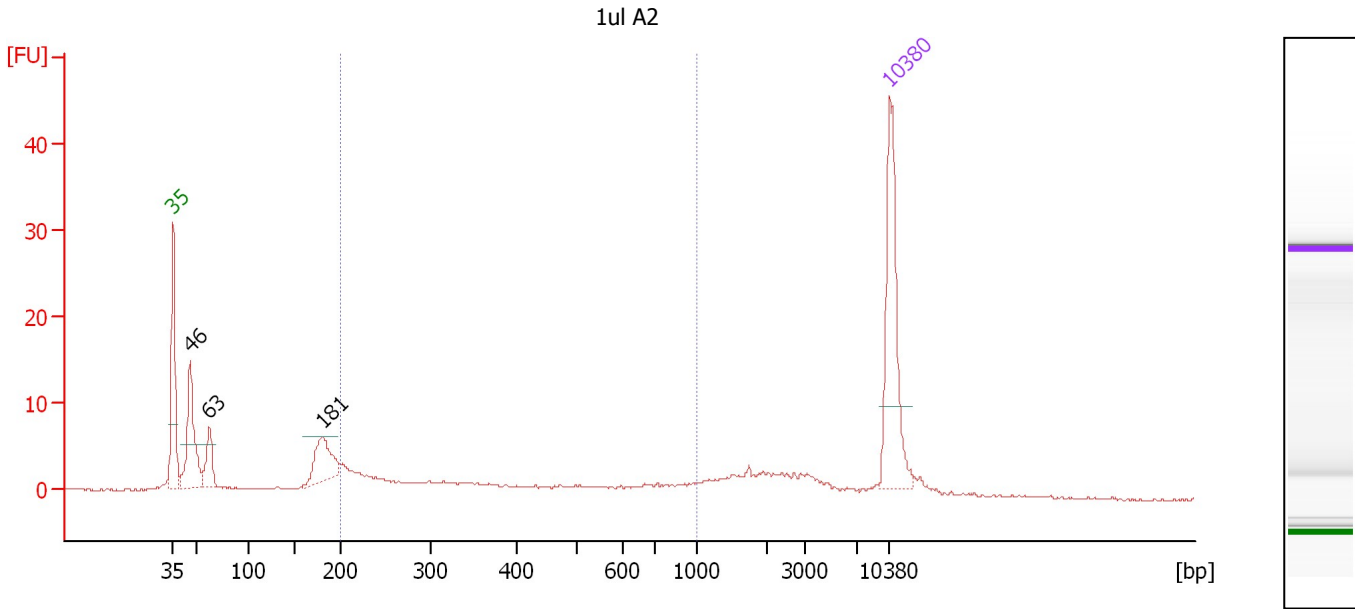
**Region table for sample 1 : 1ul A1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	540	1,000	12.2	121.9	11	46.7	29.08

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1ul A2**

Number of peaks found: 3                      Corr. Area 1: 54.0  
 Noise: 0.1

**Peak table for sample 2 : 1ul A2**

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	88.45	2,886.4		44.67
3	63	31.16	748.9		46.54
4	181	48.04	403.0		57.59
5	10,380	75.00	10.9	Upper Marker	113.00

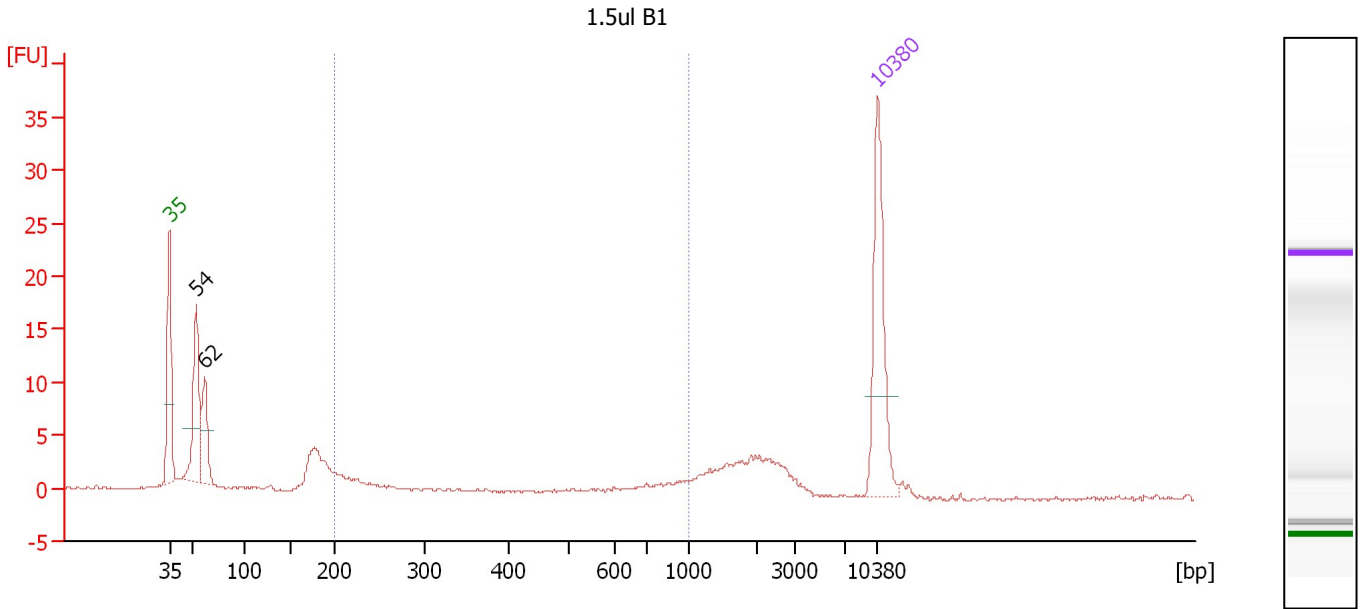
**Region table for sample 2 : 1ul A2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	424	1,000	54.0	618.2	33	49.2	129.99

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1.5ul B1**

Number of peaks found: 2                      Corr. Area 1: 15.2  
 Noise: 0.1

**Peak table for sample 3 : 1.5ul B1**

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	54	98.75	2,755.4		45.64
3	62	52.28	1,268.9		46.48
4	10,380	75.00	10.9	Upper Marker	113.00

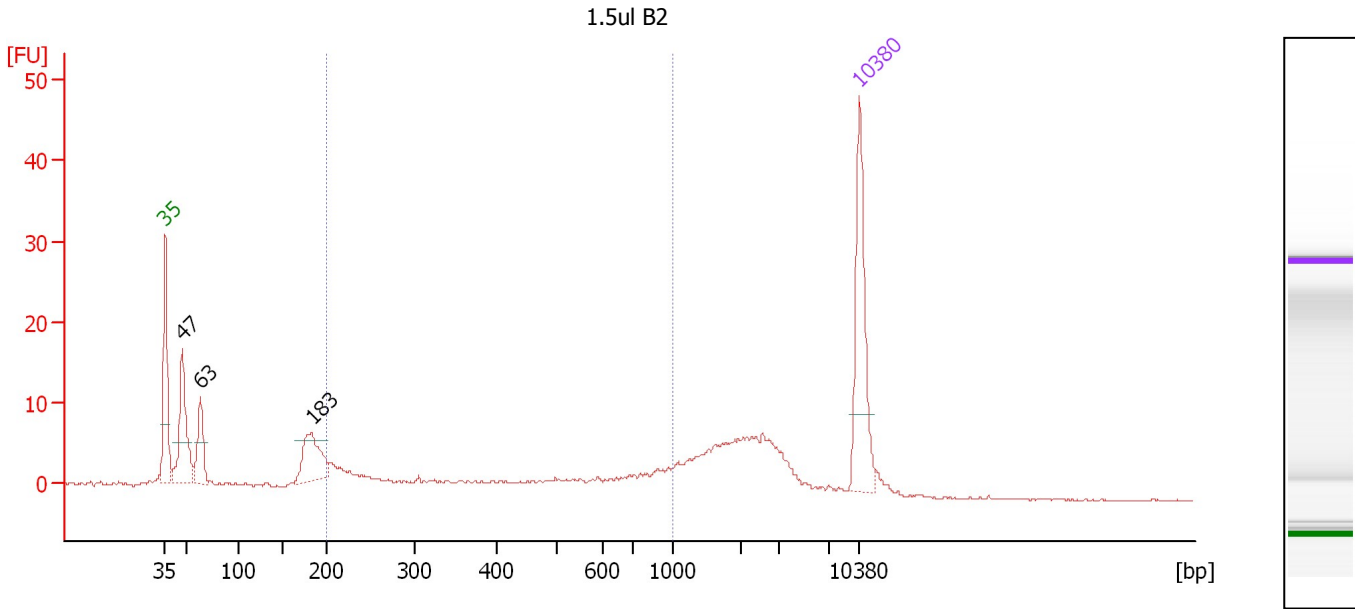
**Region table for sample 3 : 1.5ul B1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	491	1,000	15.2	231.0	14	57.7	45.97

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1.5ul B2**

Number of peaks found: 3                      Corr. Area 1: 62.8  
 Noise: 0.1

**Peak table for sample 4 : 1.5ul B2**

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	104.37	3,379.9		44.72
3	63	50.51	1,213.1		46.55
4	183	61.66	511.1		57.78
5	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 1.5ul B2**

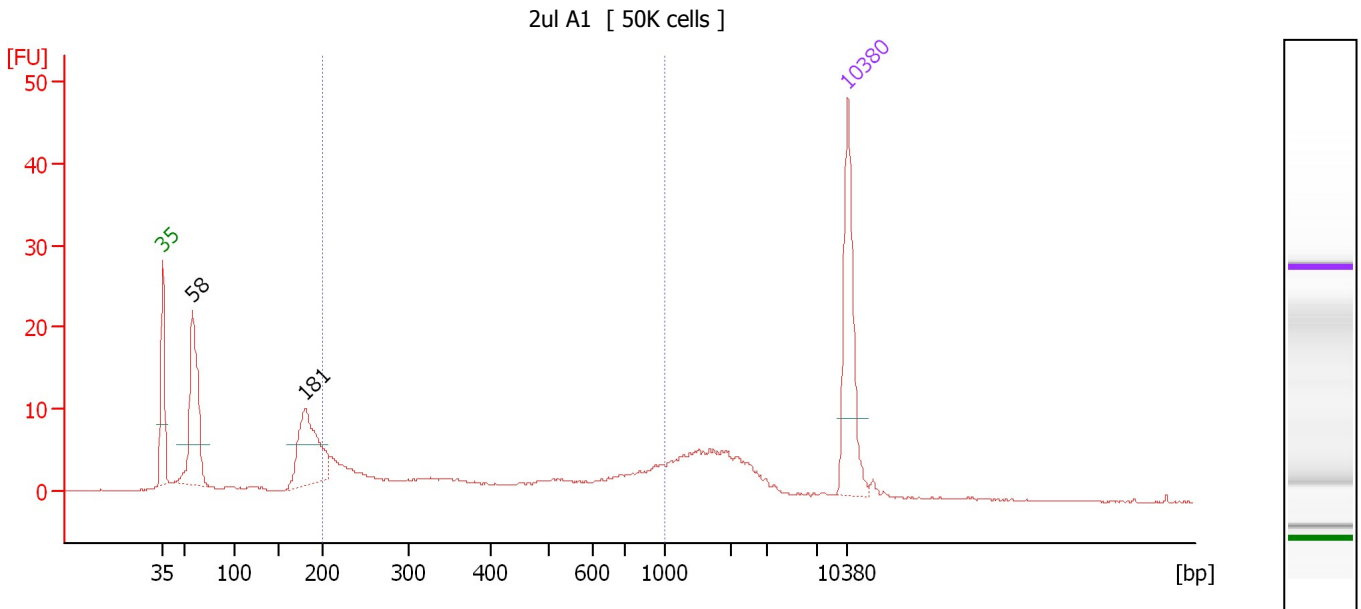
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	495	1,000	62.8	665.6	30	47.3	154.36



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 2ul A1**

Number of peaks found: 2                      Corr. Area 1: 96.7  
 Noise: 0.1

**Peak table for sample 5 : 2ul A1**

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	58	142.93	3,714.8		46.05
3	181	106.64	894.2		57.60
4	10,380	75.00	10.9	Upper Marker	113.00

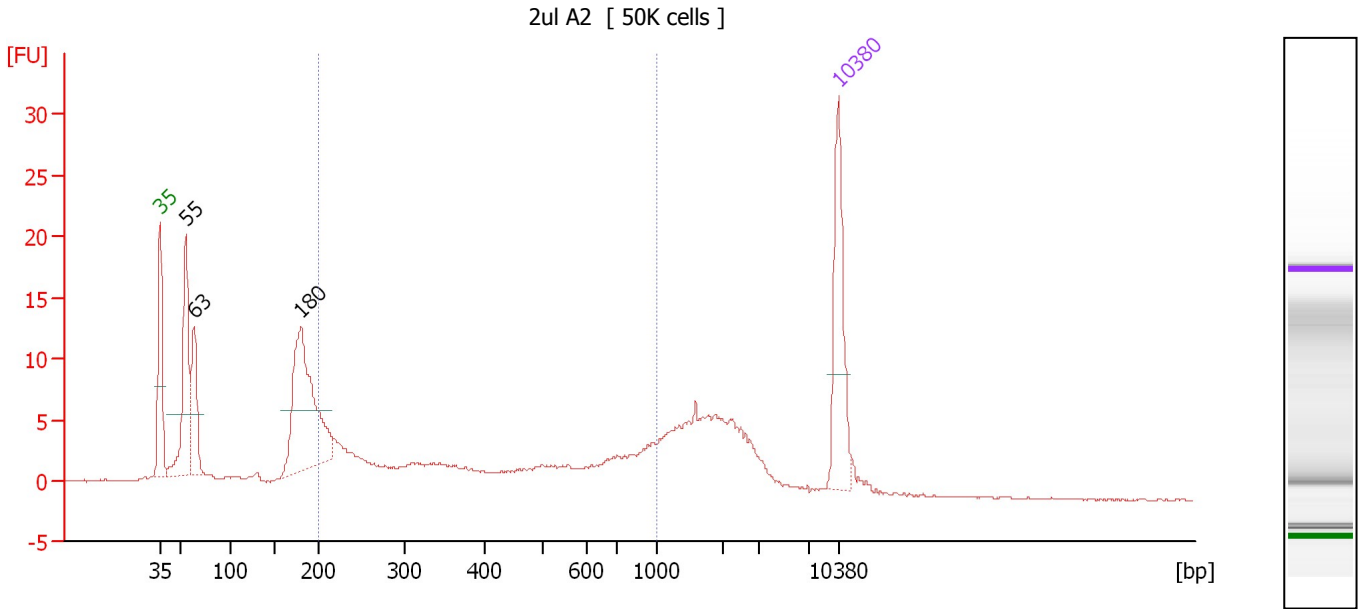
**Region table for sample 5 : 2ul A1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	463	1,000	96.7	1,041.8	39	49.4	229.11

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 2ul A2**

Number of peaks found: 3                      Corr. Area 1: 100.1  
 Noise: 0.1

**Peak table for sample 6 : 2ul A2**

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	55	150.51	4,156.3		45.69
3	63	79.50	1,917.8		46.52
4	180	220.38	1,857.7		57.52
5	10,380	75.00	10.9	Upper Marker	113.00

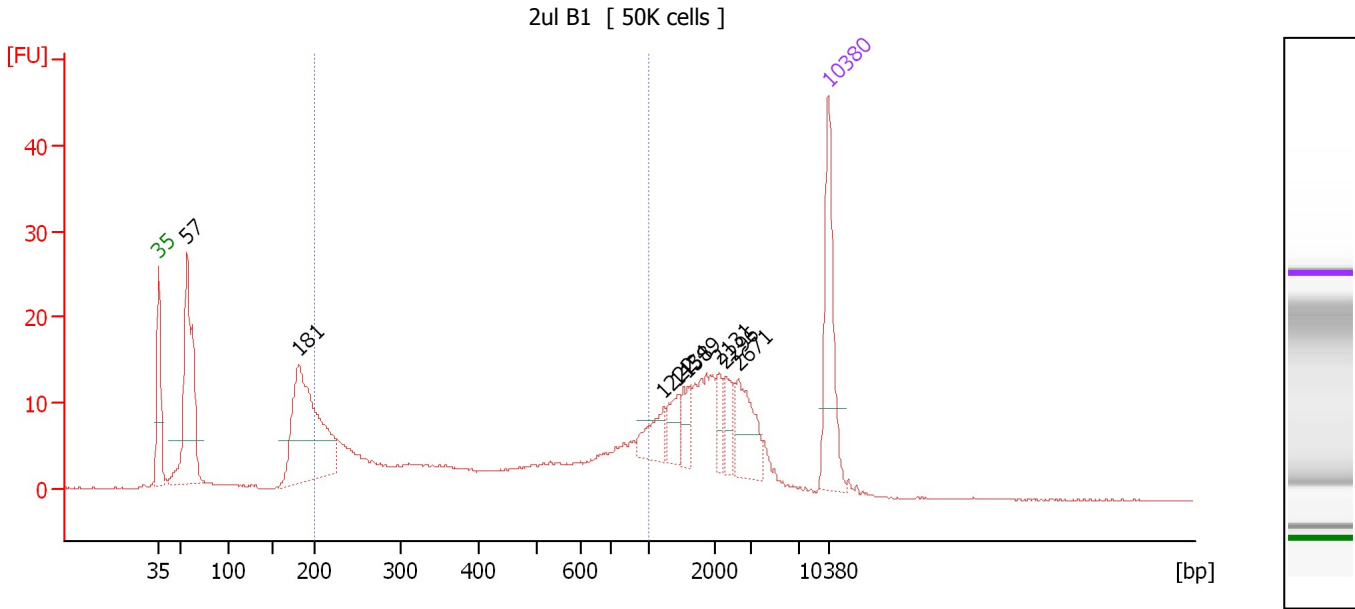
**Region table for sample 6 : 2ul A2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	462	1,000	100.1	1,662.8	36	49.3	364.62

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 2ul B1**

Number of peaks found: 8                      Corr. Area 1: 179.2  
 Noise: 0.1

**Peak table for sample 7 : 2ul B1**

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	57	223.64	5,906.9		45.95
3	181	237.74	1,986.3		57.66
4	1,222	26.96	33.4		95.78
5	1,434	21.76	23.0		97.23
6	1,589	19.70	18.8		98.29
7	2,131	14.87	10.6		101.57
8	2,296	17.83	11.8		102.19
9	2,671	43.26	24.5		103.58
10	10,380	75.00	10.9	Upper Marker	113.00

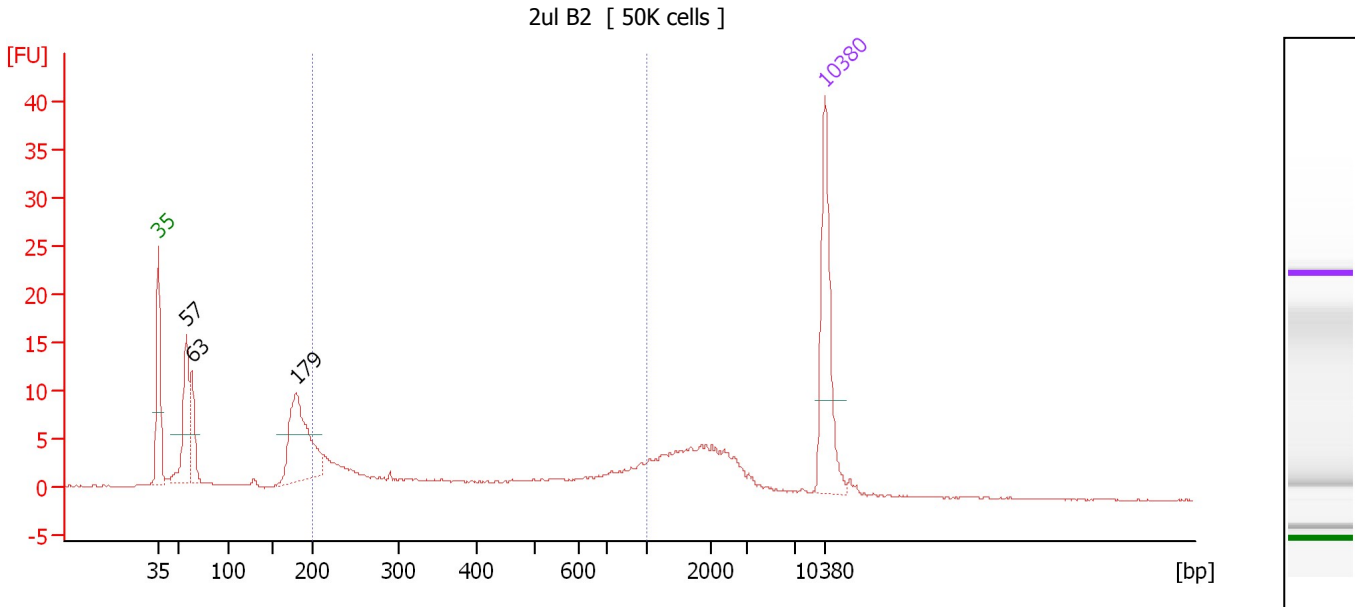
**Region table for sample 7 : 2ul B1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	471	1,000	179.2	2,172.0	39	49.0	483.64

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 2ul B2**

Number of peaks found: 3                      Corr. Area 1: 72.7  
 Noise: 0.1

**Peak table for sample 8 : 2ul B2**

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	57	94.59	2,517.0		45.91
3	63	47.11	1,135.5		46.53
4	179	128.65	1,090.1		57.44
5	10,380	75.00	10.9	Upper Marker	113.00

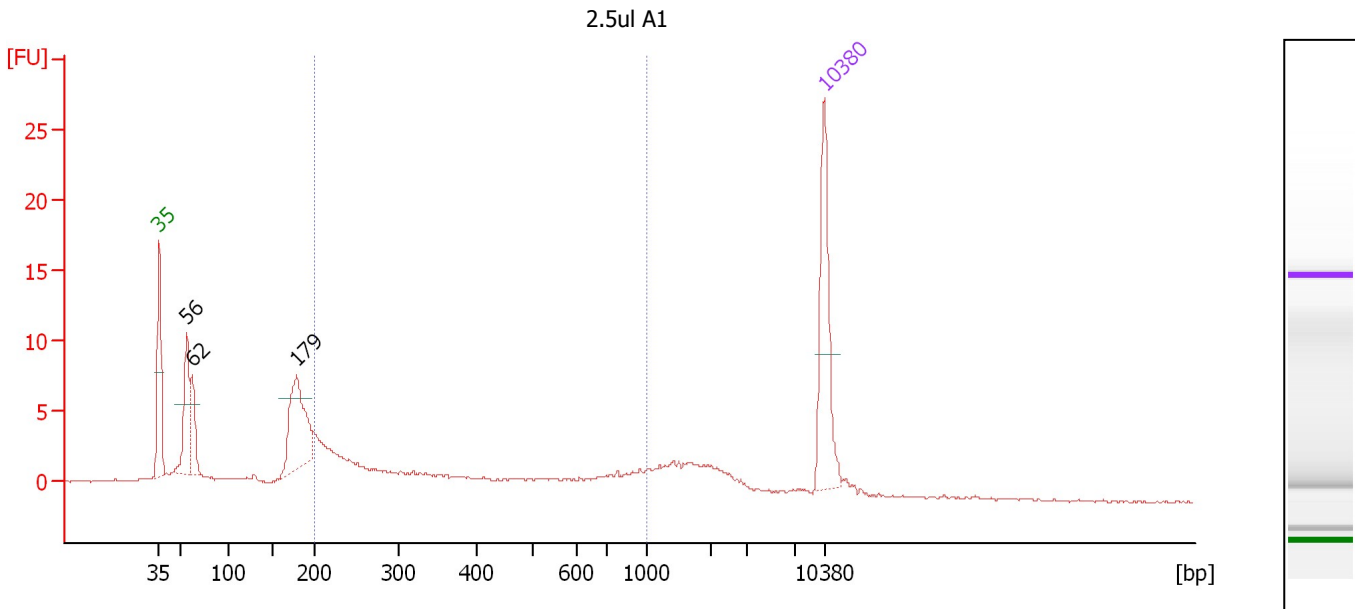
**Region table for sample 8 : 2ul B2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	463	1,000	72.7	963.0	35	50.4	208.54

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 2.5ul A1**

Number of peaks found: 3                      Corr. Area 1: 51.5  
 Noise: 0.1

**Peak table for sample 9 : 2.5ul A1**

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	56	84.91	2,277.6		45.86
3	62	42.86	1,040.1		46.48
4	179	112.02	946.3		57.48
5	10,380	75.00	10.9	Upper Marker	113.00

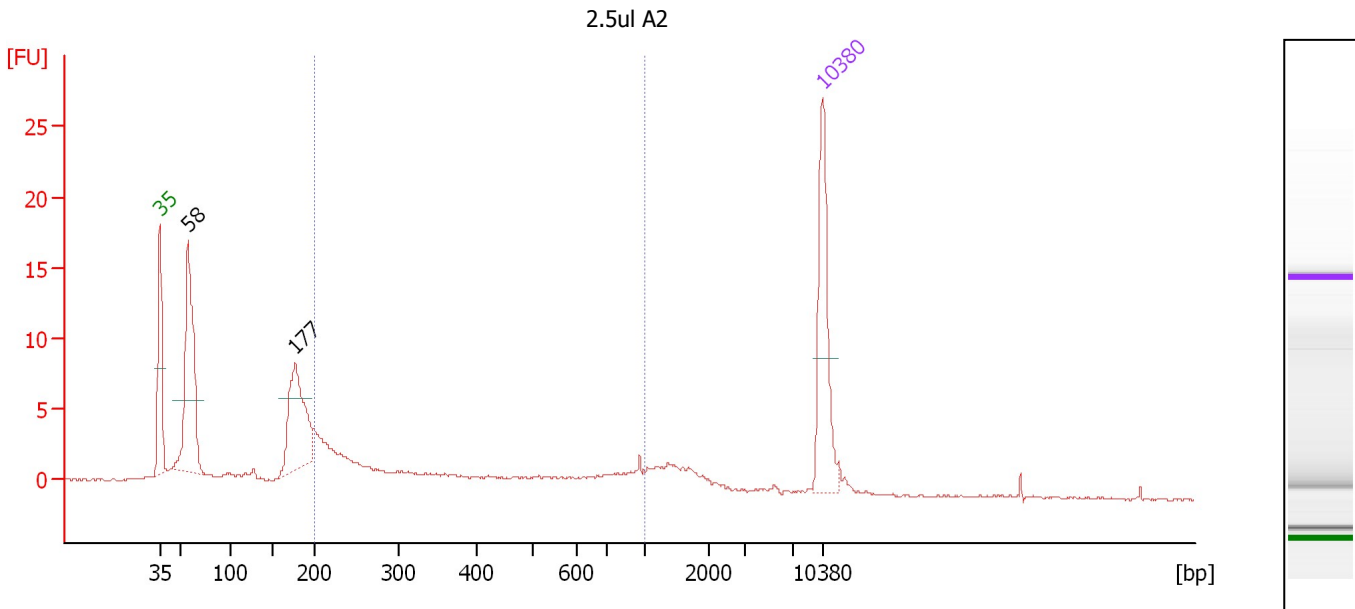
**Region table for sample 9 : 2.5ul A1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	418	1,000	51.5	1,137.7	39	51.8	231.11

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 2.5ul A2**

Number of peaks found: 2                      Corr. Area 1: 48.8  
 Noise: 0.1

**Peak table for sample 10 : 2.5ul A2**

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	58	196.12	5,153.4		45.98
3	177	121.35	1,037.0		57.30
4	10,380	75.00	10.9	Upper Marker	113.00

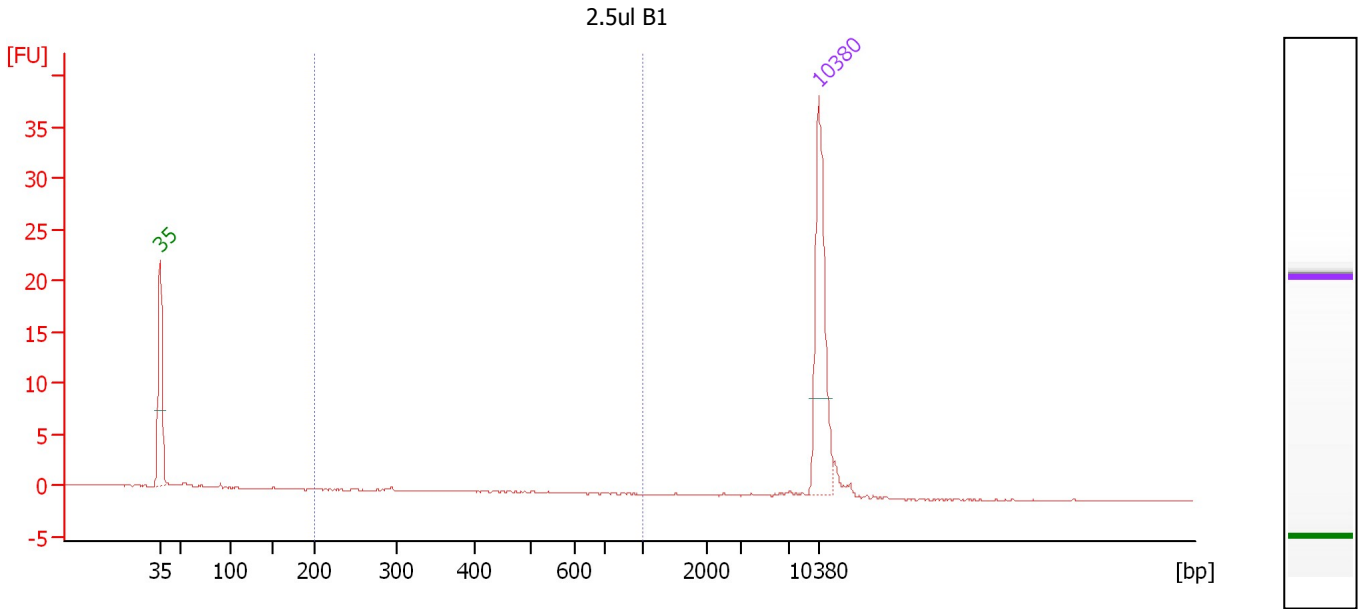
**Region table for sample 10 : 2.5ul A2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	418	1,000	48.8	1,034.7	35	52.6	208.48

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
 Modified: 6/24/2015 3:13:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 2.5ul B1**

Number of peaks found: 0                      Corr. Area 1: 0.1  
 Noise: 0.1

**Peak table for sample 11 : 2.5ul B1**

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 11 : 2.5ul B1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	328	1,000	0.1	1.3	2	19.2	0.28

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24\_003.xad

Created: 6/24/2015 2:32:42 PM  
Modified: 6/24/2015 3:13:07 PM

**Gel Image**

