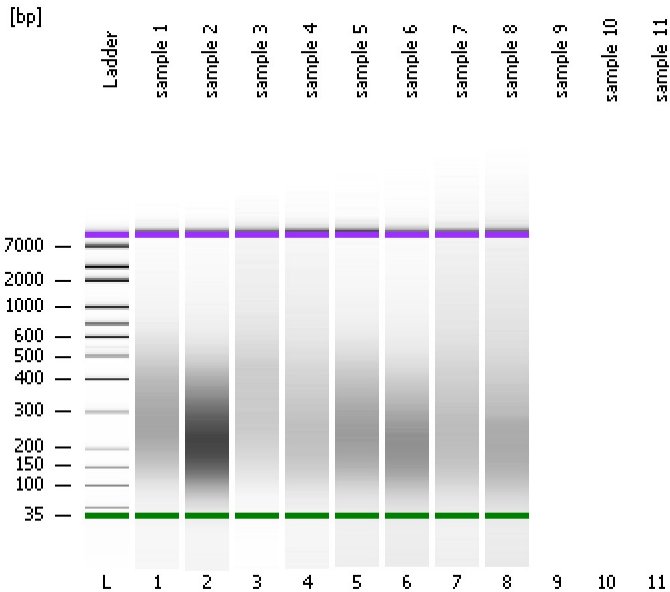


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
Modified: 3/12/2014 10:58:02 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

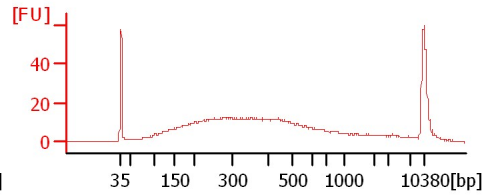
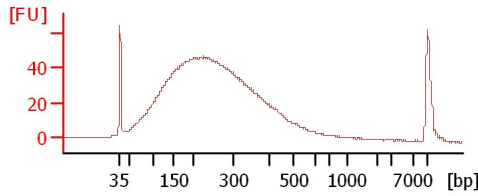
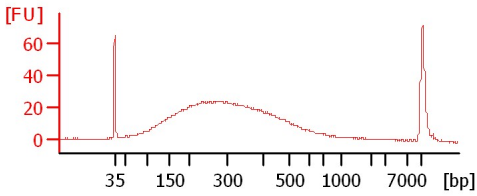
#### Chip Information:

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

sample 1

sample 2

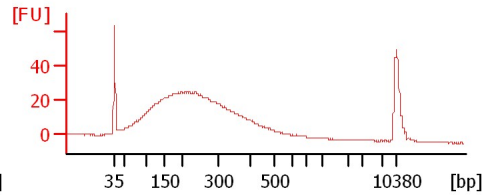
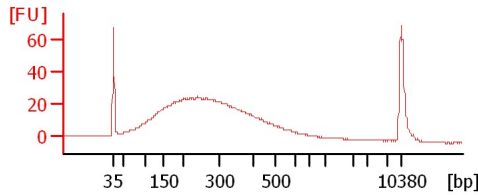
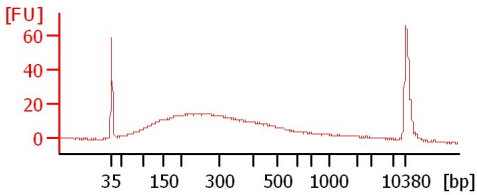
sample 3



sample 4

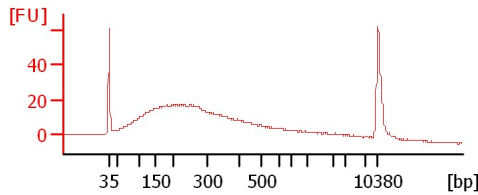
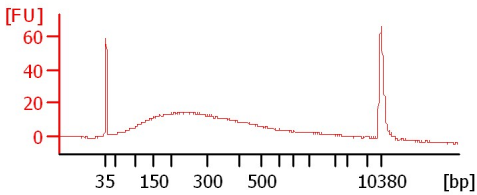
sample 5

sample 6



sample 7

sample 8



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
Modified: 3/12/2014 10:58:02 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**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

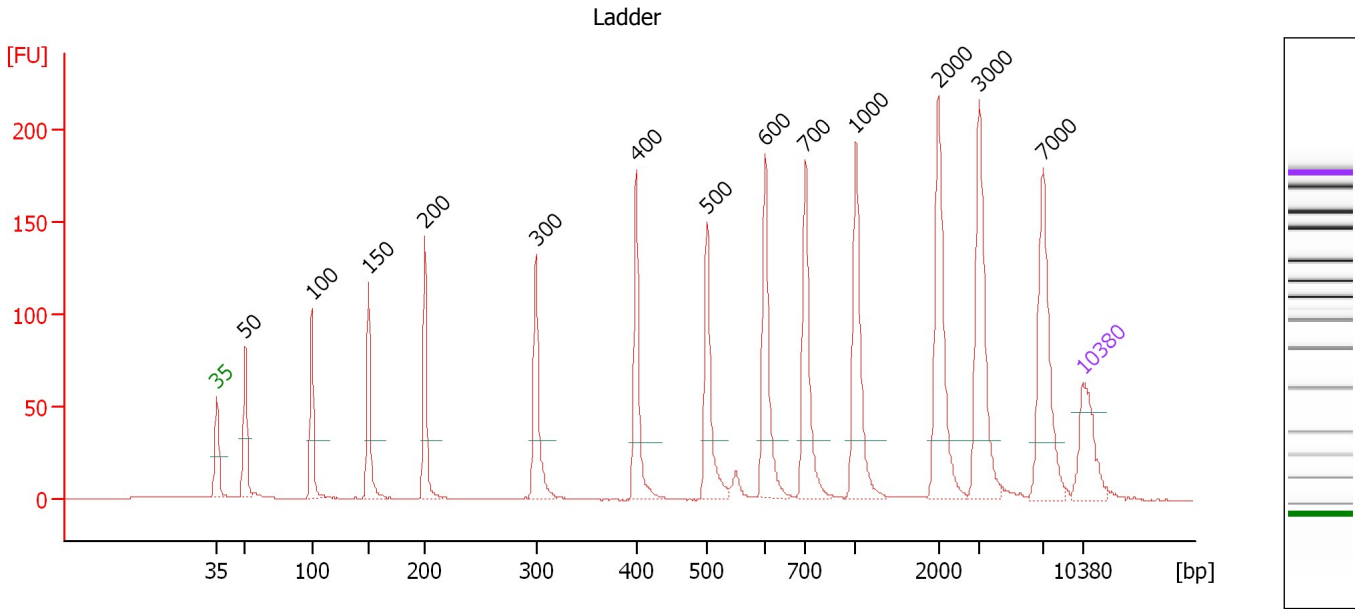
**Ladder**

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\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

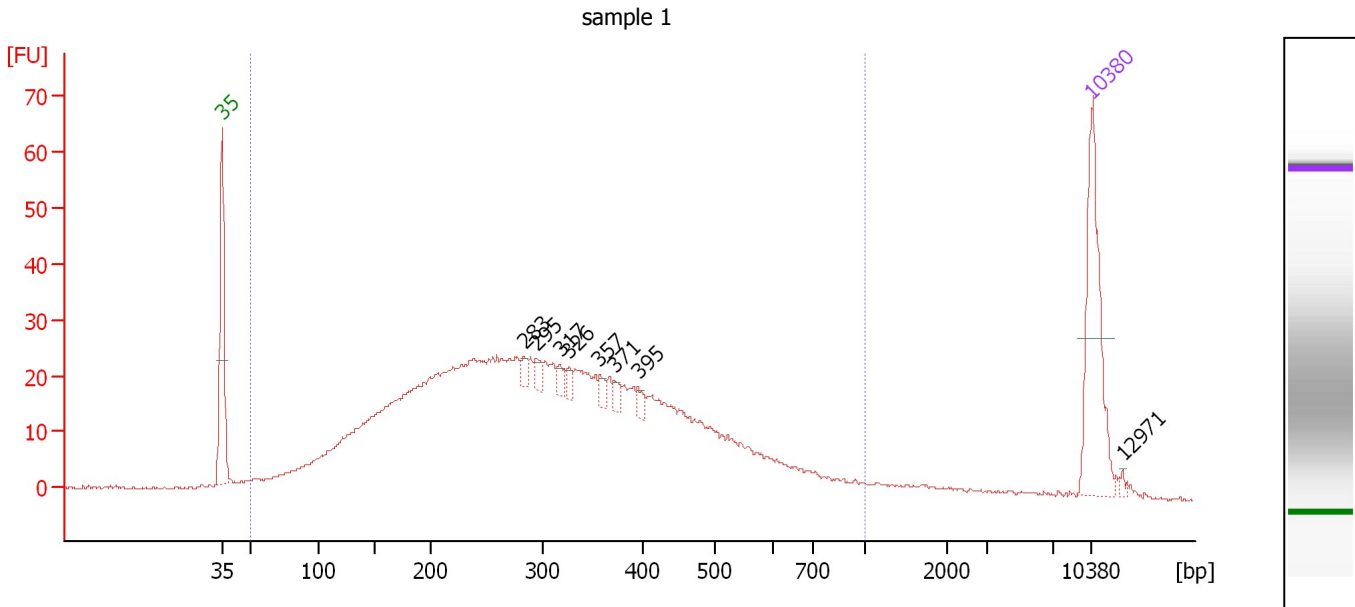
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.68	100	150.00	2,272.7	Ladder Peak
4	55.29	150	150.00	1,515.2	Ladder Peak
5	59.82	200	150.00	1,136.4	Ladder Peak
6	68.79	300	150.00	757.6	Ladder Peak
7	76.90	400	150.00	568.2	Ladder Peak
8	82.64	500	150.00	454.5	Ladder Peak
9	87.34	600	150.00	378.8	Ladder Peak
10	90.62	700	150.00	324.7	Ladder Peak
11	94.67	1,000	150.00	227.3	Ladder Peak
12	101.35	2,000	150.00	113.6	Ladder Peak
13	104.63	3,000	150.00	75.8	Ladder Peak
14	109.81	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 8                      Corr. Area 1: 1,037.6  
 Noise: 0.2

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	67.29	283	6.82	36.5	
3	68.32	295	8.67	44.6	
4	70.17	317	7.06	33.7	
5	70.94	326	6.40	29.7	
6	73.39	357	6.93	29.5	
7	74.59	371	6.97	28.4	
8	76.48	395	6.44	24.7	
9	113.00	10,380	75.00	10.9	Upper Marker
10	115.45	12,971	0.00	0.0	

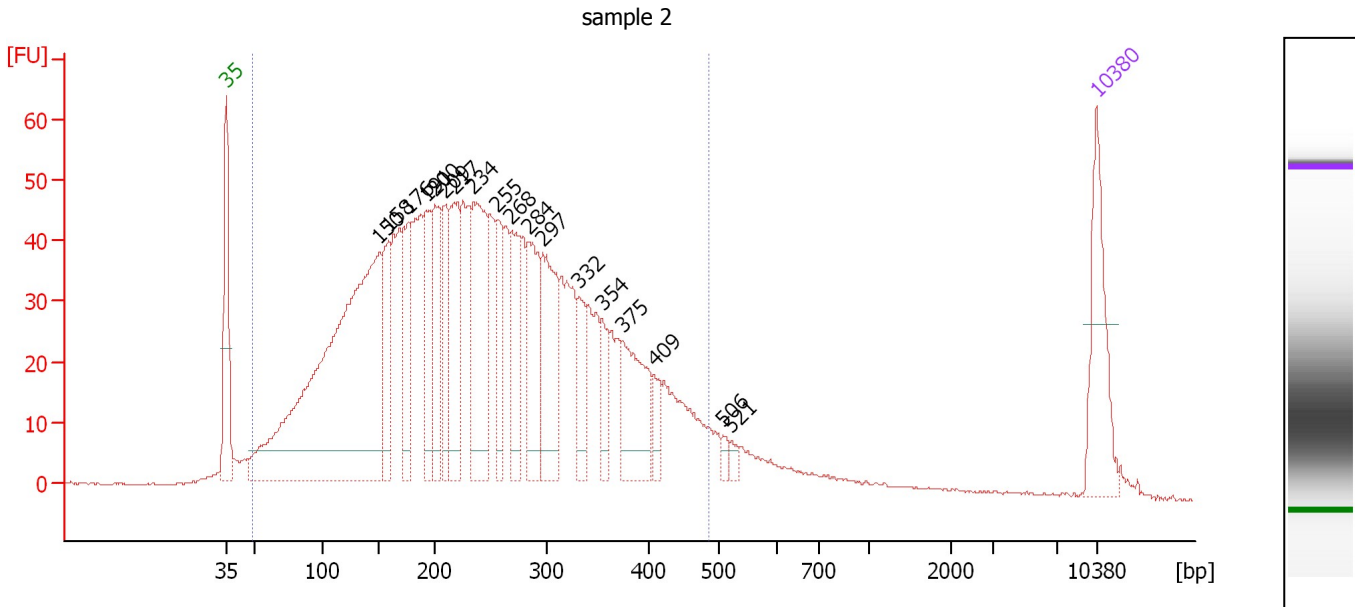
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
50	1,000	318	11,034.3	1,635.09	1,037.6	96	45.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 18      Corr. Area 1: 1,854.5  
 Noise: 0.2

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	55.31	150	782.17	7,890.2	
3	56.04	158	97.99	938.2	
4	57.63	176	93.98	810.1	
5	59.04	191	93.98	743.9	
6	59.81	200	99.00	750.3	
7	60.59	209	78.76	572.3	
8	61.31	217	125.16	875.3	
9	62.86	234	174.70	1,131.8	
10	64.79	255	65.85	390.7	
11	65.90	268	84.24	476.6	
12	67.32	284	110.29	589.2	
13	68.48	297	132.81	678.7	
14	71.35	332	49.75	227.3	
15	73.20	354	35.83	153.2	
16	74.87	375	104.72	423.2	
17	77.40	409	21.06	78.1	
18	82.93	506	7.62	22.8	
19	83.62	521	7.35	21.4	
20	113.00	10,380	75.00	10.9	Upper Marker

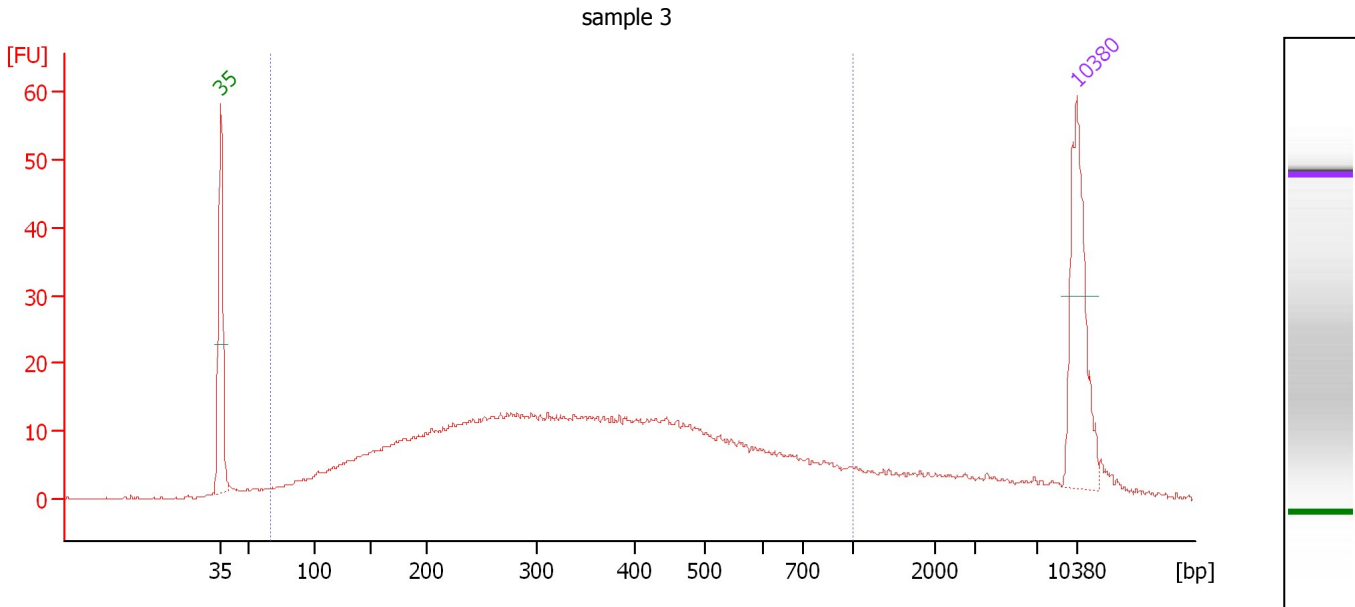
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
49	486	243	28,162.0	3,336.55	1,854.5	93	40.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 597.7  
 Noise: 0.2

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

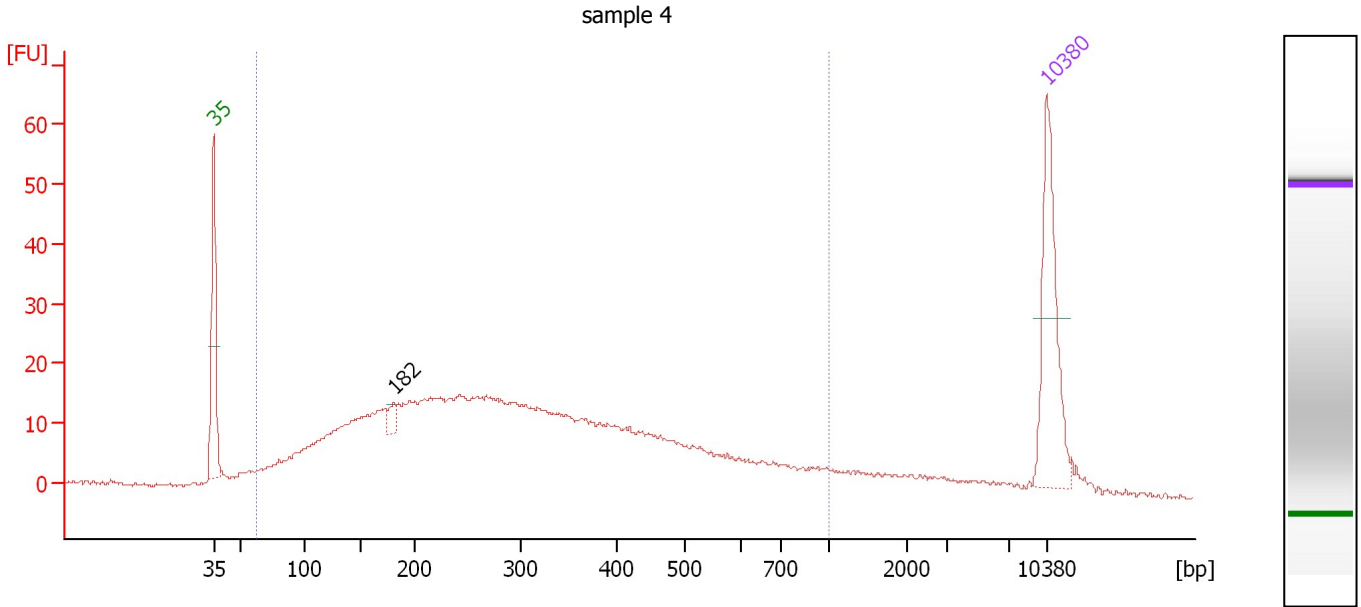
**Region table for sample 3 : sample 3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
66	1,000	364	6,152.5	987.88	597.7	89	48.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 707.5  
 Noise: 0.3

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	58.15	182	10.64	88.8	
3	113.00	10,380	75.00	10.9	Upper Marker

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

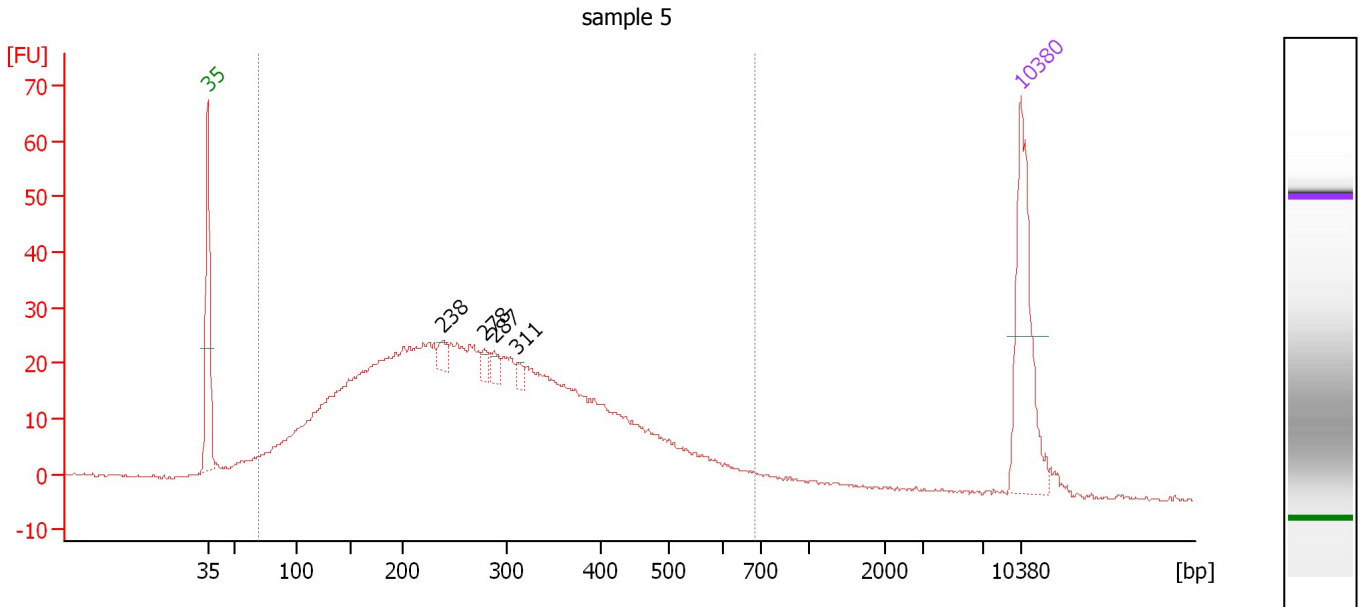
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
62	1,000	322	8,005.6	1,117.05	707.5	91	53.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 4                      Corr. Area 1: 1,008.7  
 Noise: 0.3

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	63.24	238	10.73	68.3	
3	66.82	278	7.05	38.4	
4	67.65	287	8.09	42.7	
5	69.67	311	5.95	29.0	
6	113.00	10,380	75.00	10.9	Upper Marker

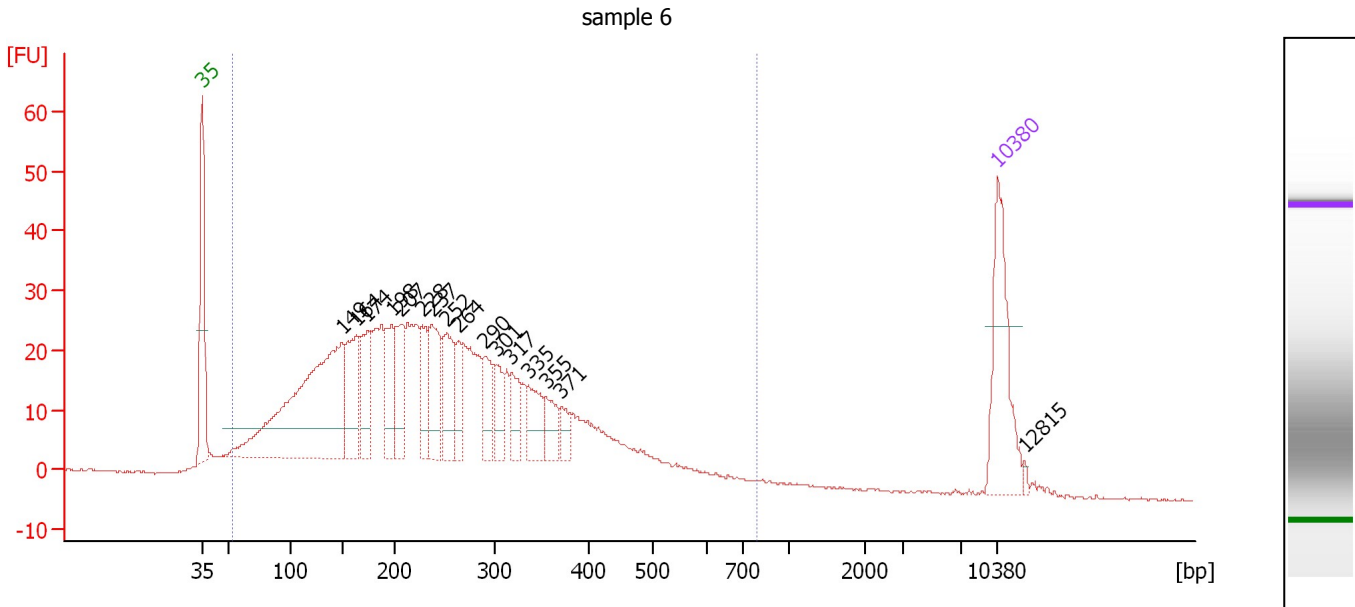
**Region table for sample 5 : sample 5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
69	686	283	10,071.8	1,381.76	1,008.7	95	42.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 16      Corr. Area 1: 1,017.1  
 Noise: 0.2

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	55.25	149	366.53	3,714.9	
3	56.56	164	79.35	733.1	
4	57.50	174	64.05	556.6	
5	59.66	198	58.92	450.5	
6	60.45	207	55.29	404.6	
7	62.33	228	45.41	301.8	
8	63.17	237	70.17	447.9	
9	64.49	252	60.77	365.3	
10	65.57	264	32.08	184.1	
11	67.91	290	41.65	217.4	
12	68.85	301	32.06	161.5	
13	70.16	317	32.05	153.2	
14	71.62	335	37.92	171.6	
15	73.21	355	29.03	124.1	
16	74.58	371	16.64	67.9	
17	113.00	10,380	75.00	10.9	Upper Marker
18	115.30	12,815	0.00	0.0	

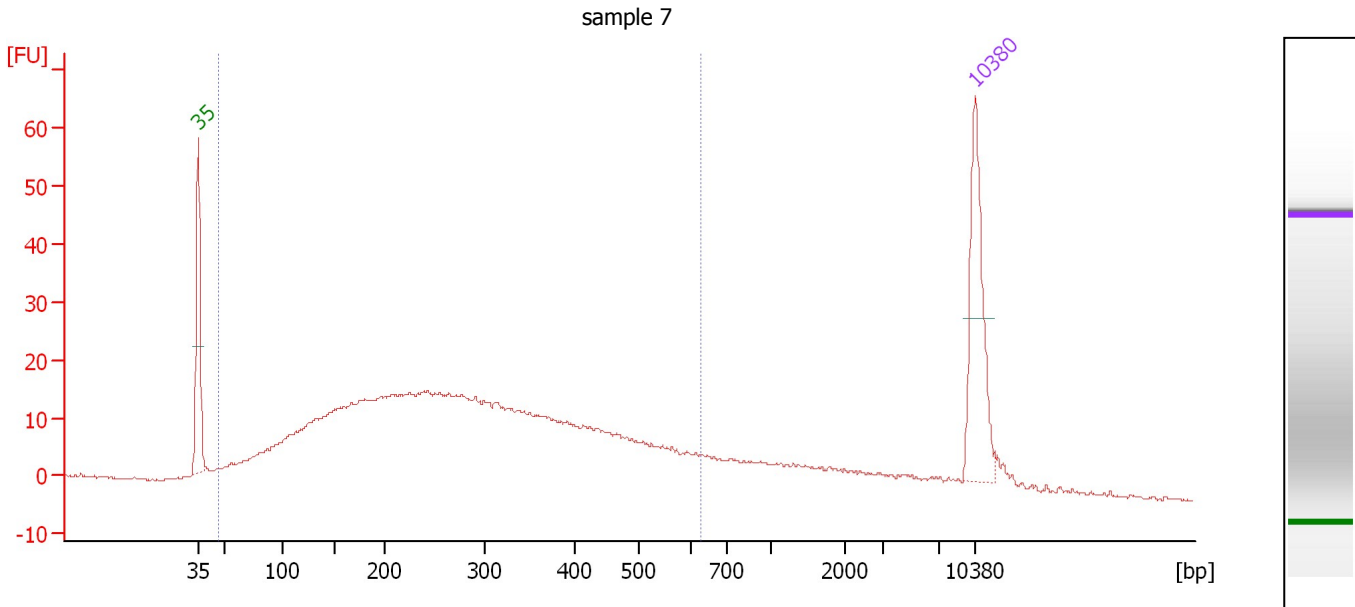
**Region table for sample 6 : sample 6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
54	790	253	15,635.4	1,851.80	1,017.1	97	46.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 699.5  
 Noise: 0.2

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

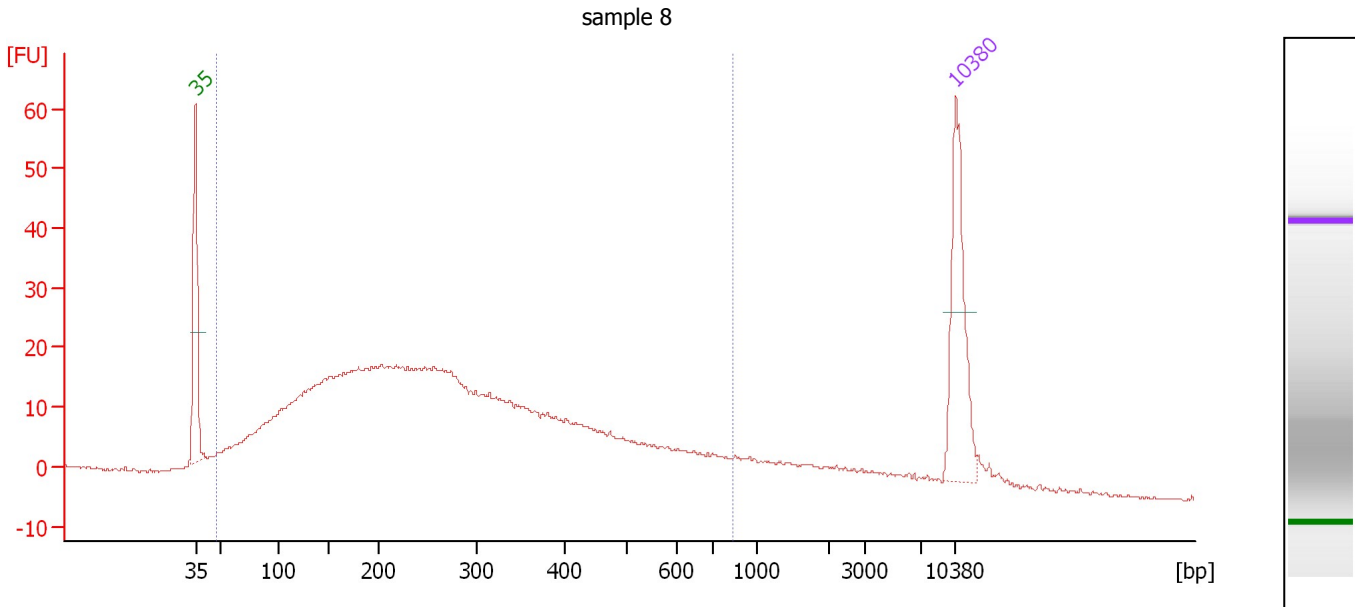
**Region table for sample 7 : sample 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
47	629	290	8,919.7	1,154.68	699.5	86	45.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 825.0  
 Noise: 0.3

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

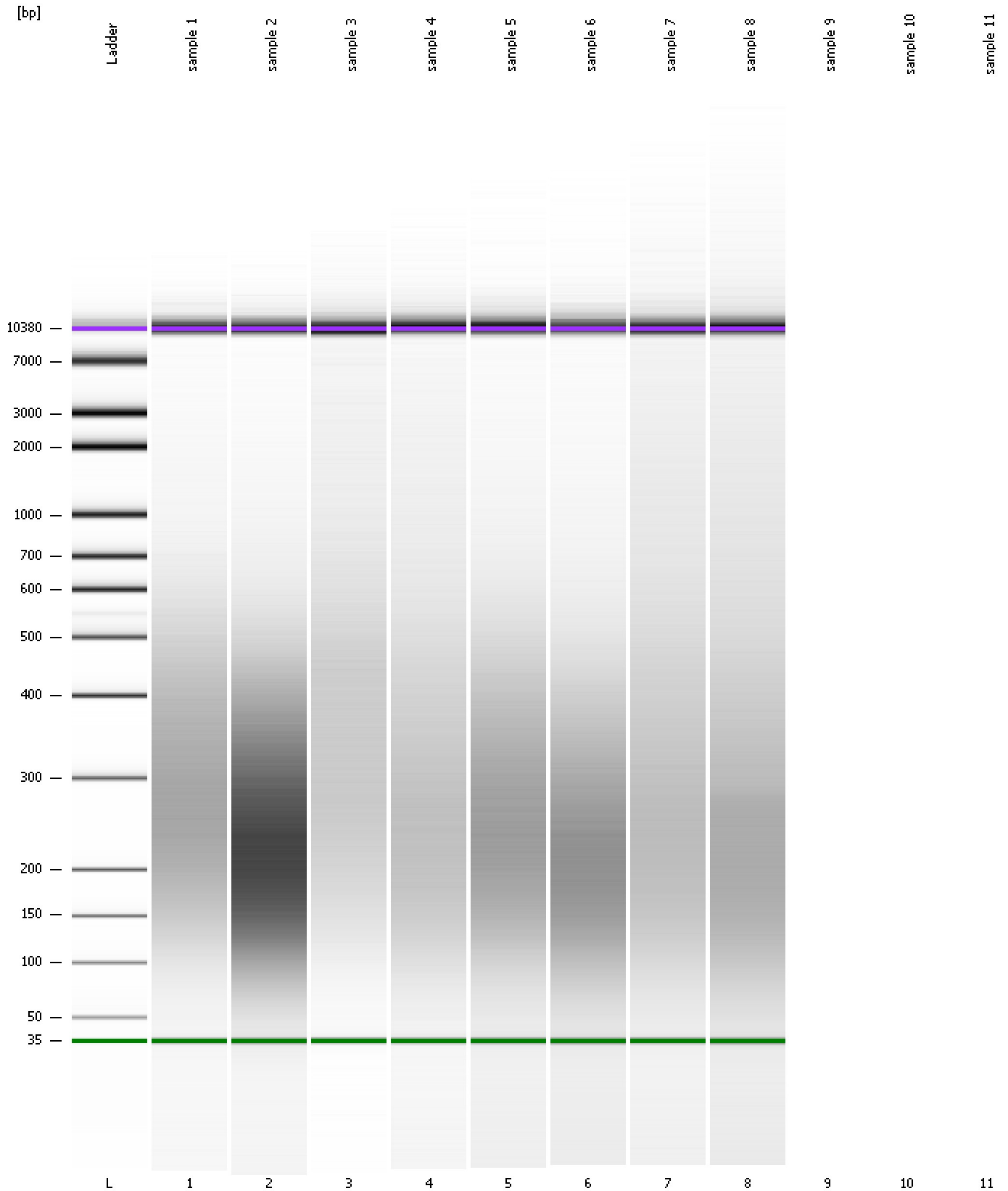
**Region table for sample 8 : sample 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
48	832	287	11,302.2	1,372.10	825.0	90	53.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
Modified: 3/12/2014 10:58:02 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-12\2014-03-12\_001.xad

Created: 3/12/2014 10:23:46 AM  
Modified: 3/12/2014 10:58:02 AM

**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.