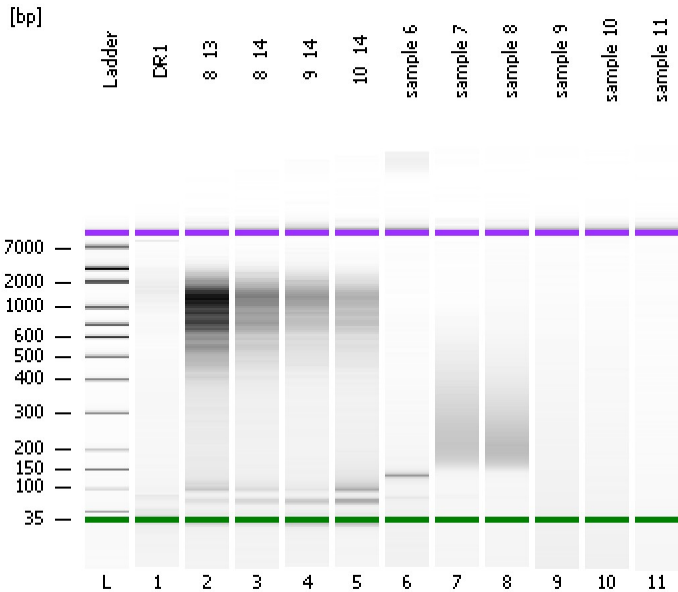


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
Modified: 6/1/2017 3:28:50 PM

### Electrophoresis File Run Summary



#### Instrument Information:

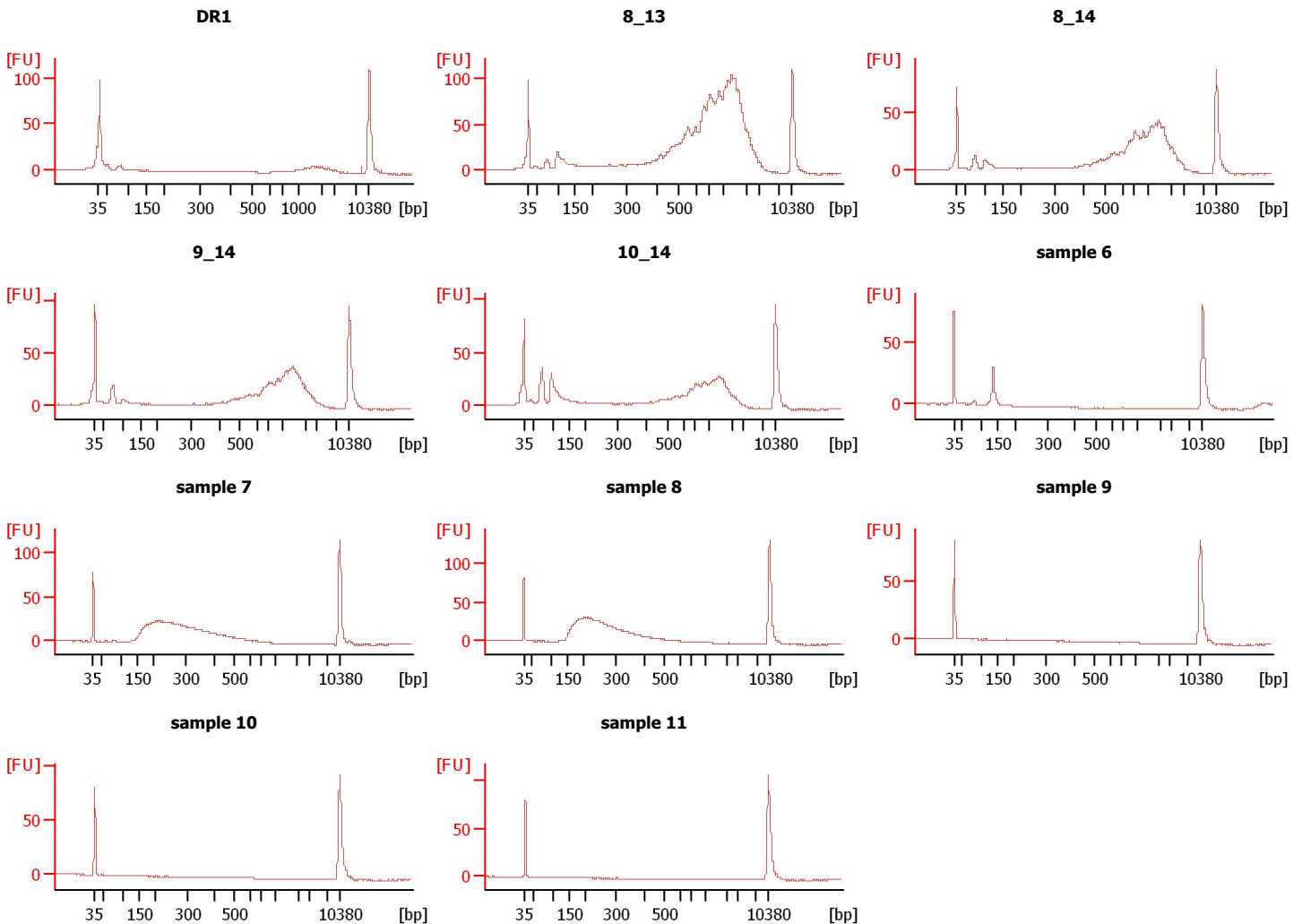
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
Modified: 6/1/2017 3:28:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DR1		<input type="checkbox"/>	✓			
8_13		<input type="checkbox"/>	✓			
8_14		<input type="checkbox"/>	✓			
9_14		<input type="checkbox"/>	✓			
10_14		<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 #**

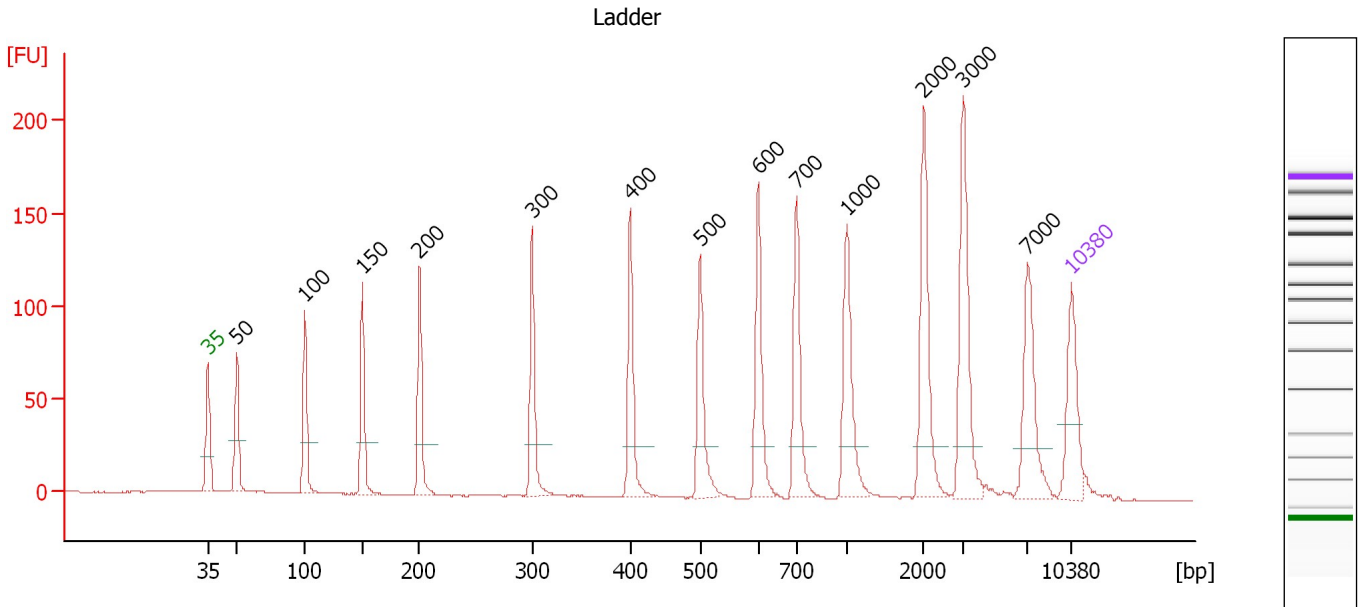
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

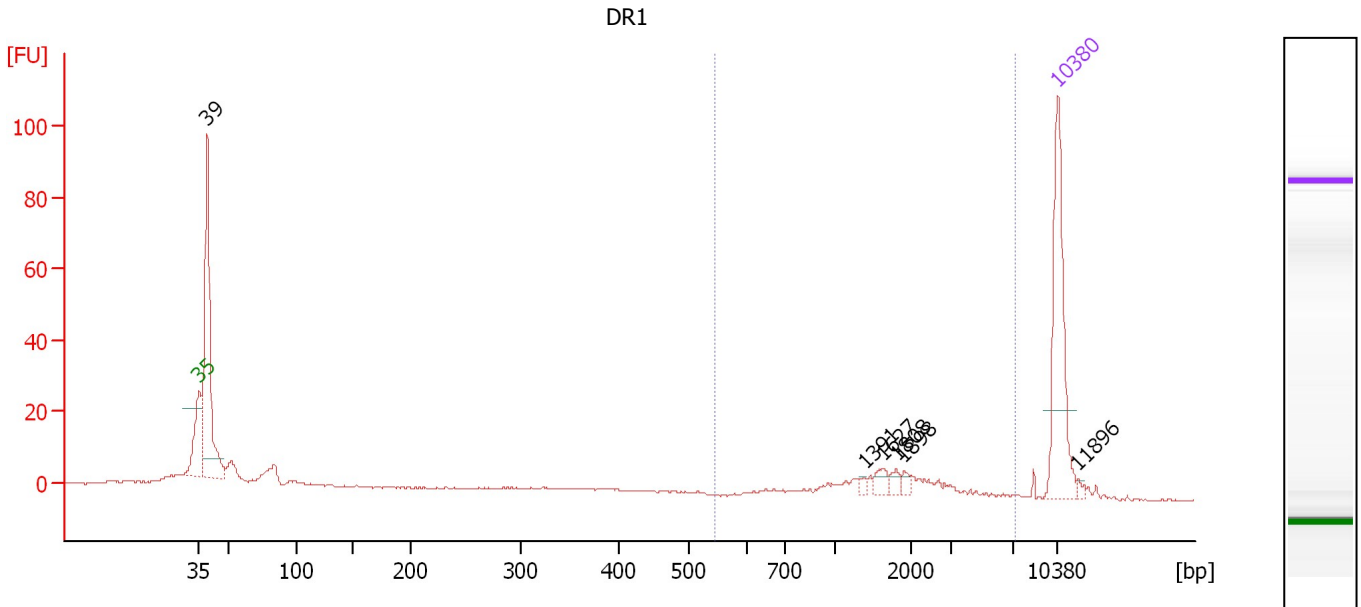
**Peak table for Ladder**

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.86
4	150	150.00	1,515.2	Ladder Peak	55.53
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.27
7	400	150.00	568.2	Ladder Peak	77.22
8	500	150.00	454.5	Ladder Peak	82.88
9	600	150.00	378.8	Ladder Peak	87.59
10	700	150.00	324.7	Ladder Peak	90.70
11	1,000	150.00	227.3	Ladder Peak	94.77
12	2,000	150.00	113.6	Ladder Peak	101.03
13	3,000	150.00	75.8	Ladder Peak	104.23
14	7,000	150.00	32.5	Ladder Peak	109.41
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : DR1**

Number of peaks found: 6                      Corr. Area 1: 62.5  
 Noise: 0.3

**Peak table for sample 1 : DR1**

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	39	215.31	8,323.6		43.65
3	1,391	2.62	2.8		97.22
4	1,627	6.95	6.5		98.70
5	1,808	4.91	4.1		99.83
6	1,898	4.23	3.4		100.39
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,896	0.00	0.0		114.61

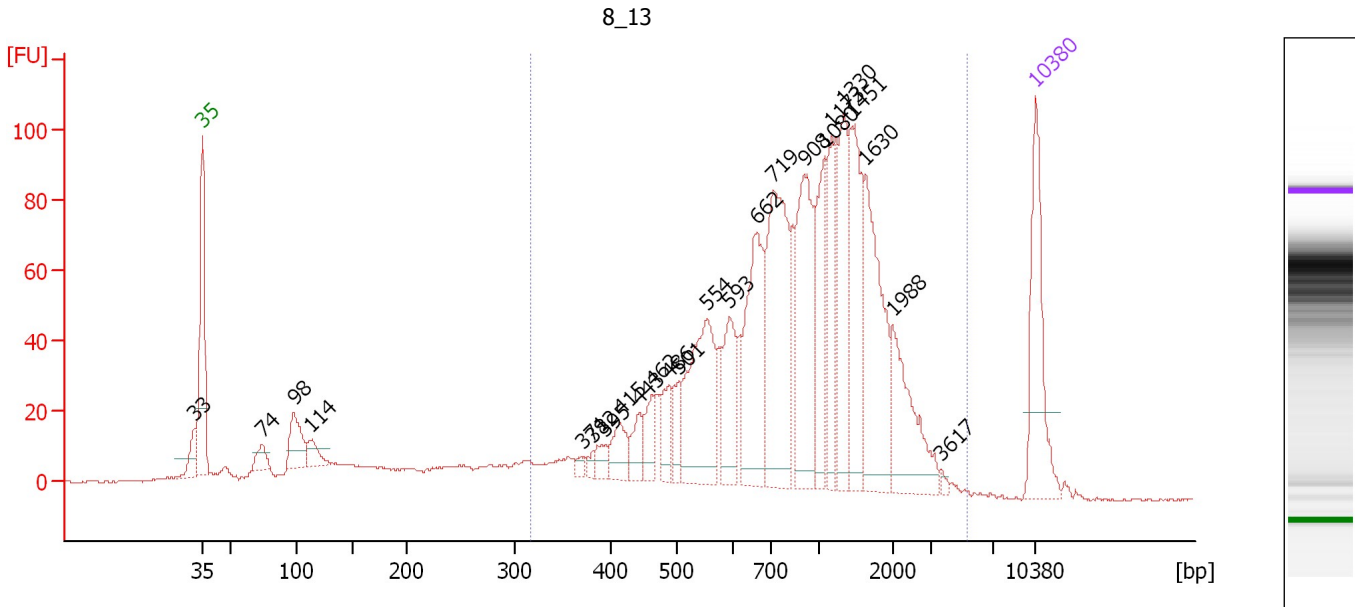
**Region table for sample 1 : DR1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
546	7,142	1,937	62.5	51.8	52.02	22	54.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 8\_13**

Number of peaks found: 24                      Corr. Area 1: 1,741.8  
 Noise: 0.2

**Peak table for sample 2 : 8\_13**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.37
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	20.88	426.0		48.02
4	98	48.75	752.6		50.66
5	114	22.43	299.1		52.14
6	371	6.17	25.2		74.89
7	382	6.21	24.6		75.83
8	395	13.11	50.3		76.86
9	415	27.70	101.2		78.07
10	443	24.01	82.1		79.68
11	462	24.95	81.8		80.75
12	486	26.45	82.4		82.10
13	501	20.47	61.9		82.95
14	554	126.42	345.9		85.41
15	593	58.12	148.6		87.25
16	662	124.76	285.4		89.53
17	719	166.81	351.4		90.97
18	908	127.39	212.6		93.52
19	1,080	69.24	97.2		95.26
20	1,173	47.29	61.1		95.85
21	1,330	77.81	88.7		96.83
22	1,451	86.63	90.4		97.59
23	1,630	114.20	106.1		98.71
24	1,988	72.90	55.6		100.95
25	3,617	2.87	1.2		105.03

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...****... Peak table for sample 2 : 8\_13**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

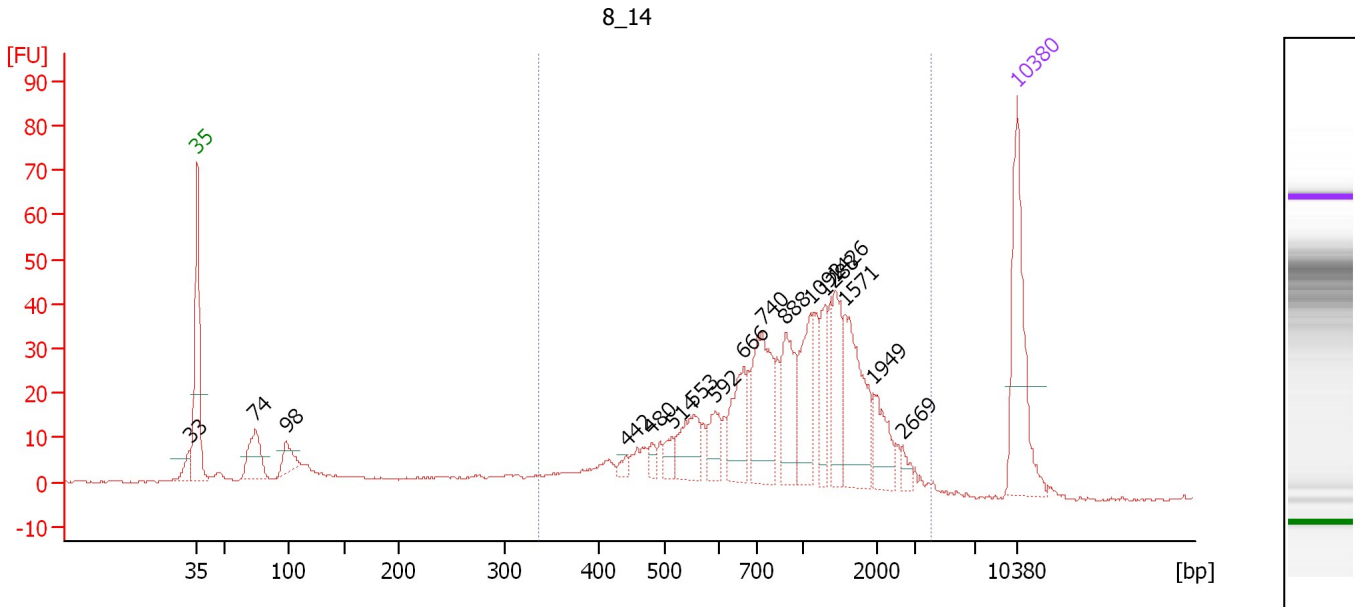
**Region table for sample 2 : 8\_13**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
316	5,372	1,057	1,741.8	2,937.4	1,449.96	82	57.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 8\_14**

Number of peaks found: 17                      Corr. Area 1: 670.9  
 Noise: 0.2

**Peak table for sample 3 : 8\_14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	48.74	1,001.2		47.96
4	98	23.96	371.9		50.60
5	442	5.39	18.5		79.59
6	480	7.14	22.5		81.78
7	514	12.03	35.5		83.55
8	553	35.90	98.4		85.37
9	592	21.66	55.5		87.19
10	666	43.85	99.7		89.65
11	740	77.01	157.7		91.24
12	888	46.77	79.8		93.25
13	1,092	43.93	61.0		95.34
14	1,288	28.16	33.1		96.57
15	1,426	39.57	42.0		97.43
16	1,571	66.95	64.6		98.34
17	1,949	27.54	21.4		100.71
18	2,669	6.64	3.8		103.17
19	10,380	75.00	10.9	Upper Marker	113.00

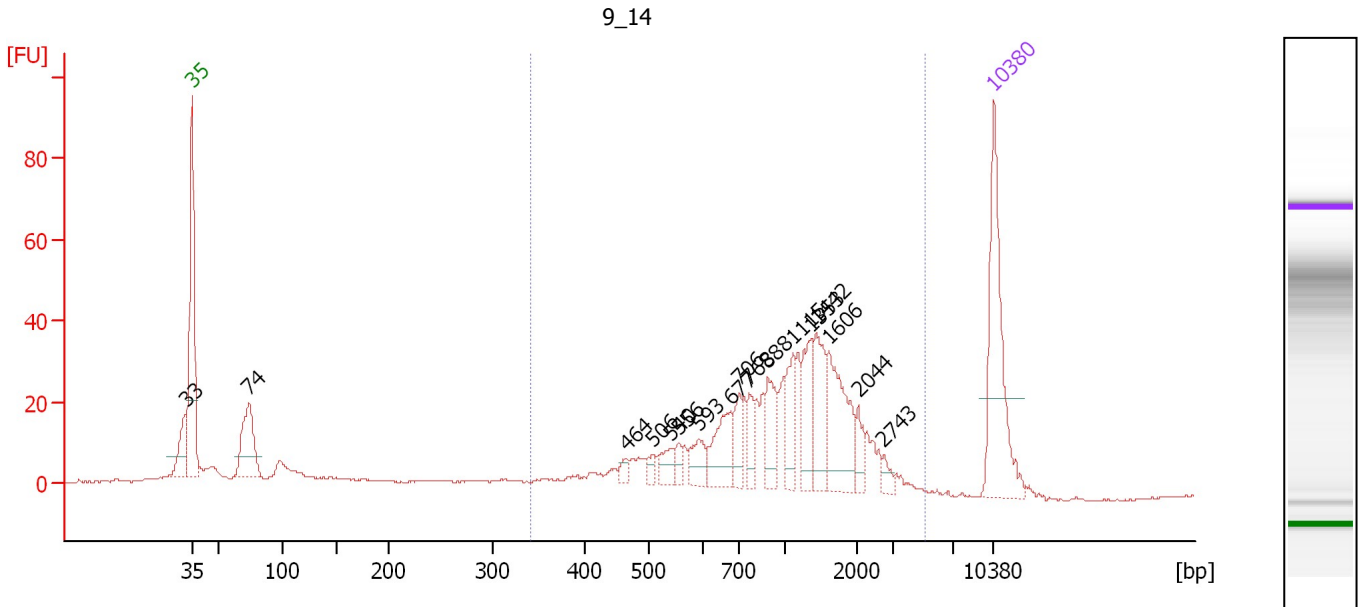
**Region table for sample 3 : 8\_14**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
336	4,092	1,092	670.9	1,294.7	668.97	80	53.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 9\_14**

Number of peaks found: 17                      Corr. Area 1: 527.9  
 Noise: 0.3

**Peak table for sample 4 : 9\_14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.39
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	66.76	1,375.6		47.94
4	464	6.81	22.2		80.86
5	506	6.56	19.6		83.15
6	540	13.40	37.6		84.78
7	556	7.85	21.4		85.52
8	593	17.02	43.5		87.24
9	677	34.30	76.7		89.99
10	706	19.94	42.8		90.78
11	768	15.26	30.1		91.62
12	888	28.56	48.7		93.25
13	1,115	26.72	36.3		95.49
14	1,353	32.22	36.1		96.98
15	1,442	34.12	35.8		97.54
16	1,606	54.37	51.3		98.56
17	2,044	11.01	8.2		101.17
18	2,743	5.45	3.0		103.41
19	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 9\_14**

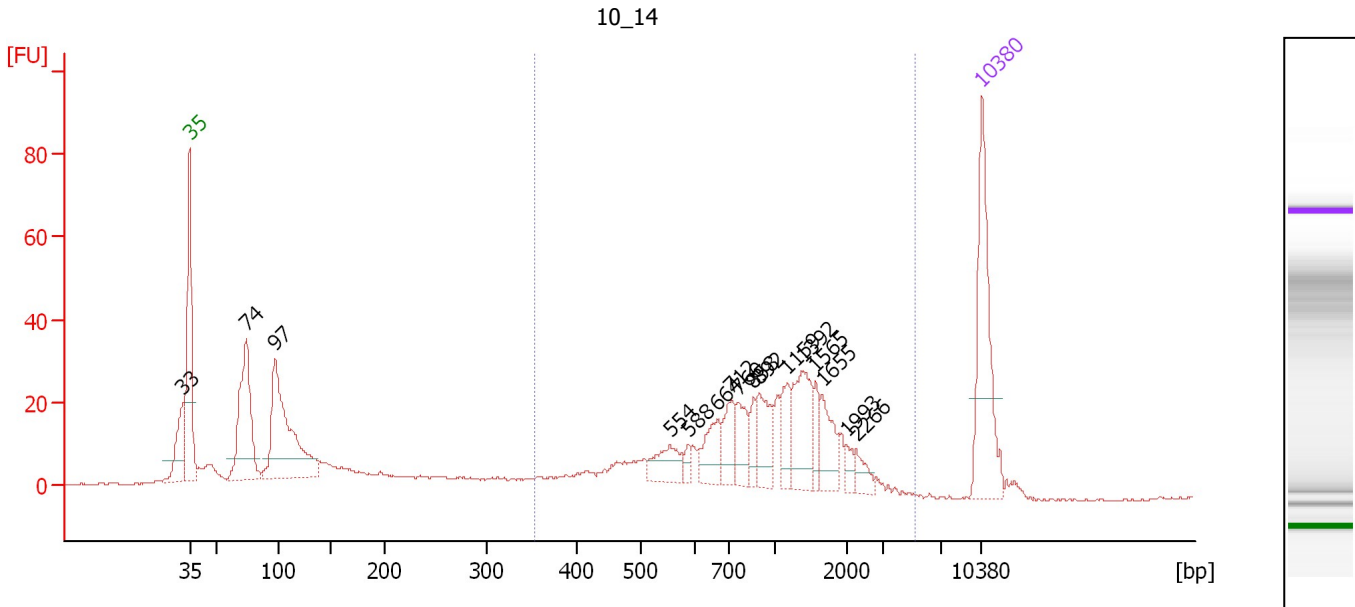
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
341	1174	1,174	527.9	834.4	457.81	72	55.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 10\_14**

Number of peaks found: 16                      Corr. Area 1: 435.4  
 Noise: 0.2

**Peak table for sample 5 : 10\_14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.43
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	128.72	2,633.9		47.99
4	97	171.04	2,670.4		50.54
5	554	25.18	68.8		85.44
6	588	6.20	16.0		87.04
7	664	27.80	63.4		89.59
8	712	26.29	56.0		90.86
9	760	24.20	48.2		91.52
10	858	12.50	22.1		92.84
11	892	30.66	52.0		93.31
12	1,159	20.90	27.3		95.76
13	1,392	45.01	49.0		97.22
14	1,565	12.70	12.3		98.30
15	1,655	24.61	22.5		98.87
16	1,993	6.29	4.8		100.99
17	2,266	8.94	6.0		101.88
18	10,380	75.00	10.9	Upper Marker	113.00

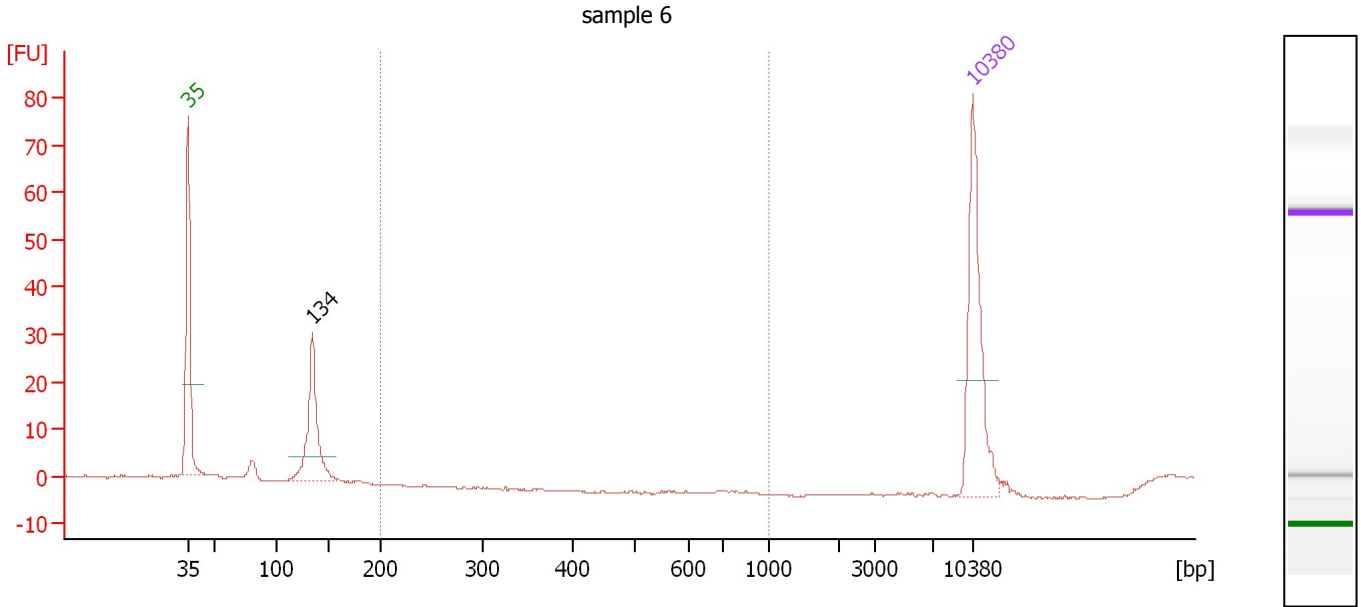
**Region table for sample 5 : 10\_14**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
352	5,171	1,071	435.4	784.5	400.29	52	54.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.2

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

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	134	92.31	1,040.2		54.08
3	10,380	75.00	10.9	Upper Marker	113.00

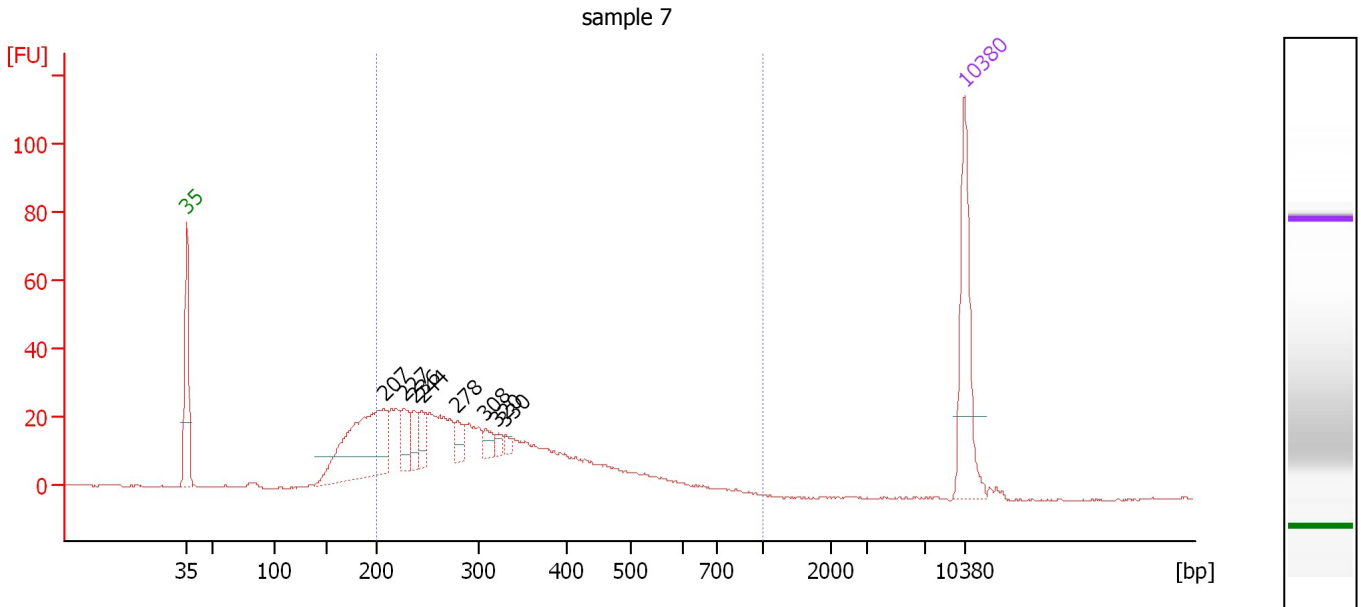
**Region table for sample 6 : sample 6**

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 8                      Corr. Area 1: 553.7  
 Noise: 0.2

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

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	207	177.61	1,300.4		60.79
3	227	27.14	181.2		62.61
4	236	20.64	132.3		63.47
5	244	19.63	122.0		64.14
6	278	18.51	100.7		67.31
7	308	13.57	66.8		69.90
8	320	6.66	31.5		70.86
9	330	5.72	26.3		71.67
10	10,380	75.00	10.9	Upper Marker	113.00

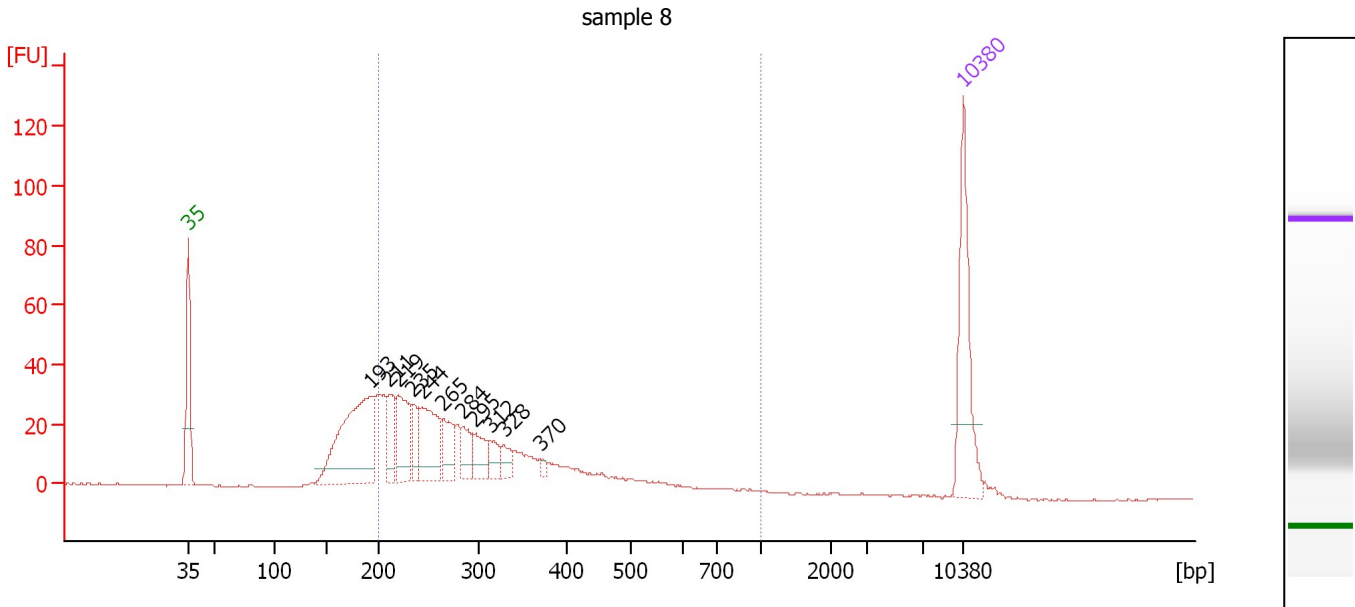
**Region table for sample 7 : sample 7**

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	553.7	3,287.5	626.77	80	31.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 11                      Corr. Area 1: 569.4  
 Noise: 0.2

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

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	193	185.38	1,454.9		59.51
3	211	38.43	276.0		61.15
4	219	61.58	425.3		61.92
5	235	27.01	174.4		63.32
6	244	75.82	471.5		64.13
7	265	35.69	204.2		66.06
8	284	24.00	128.2		67.79
9	295	27.72	142.4		68.80
10	312	18.50	89.7		70.25
11	328	14.49	66.9		71.50
12	370	4.05	16.6		74.82
13	10,380	75.00	10.9	Upper Marker	113.00

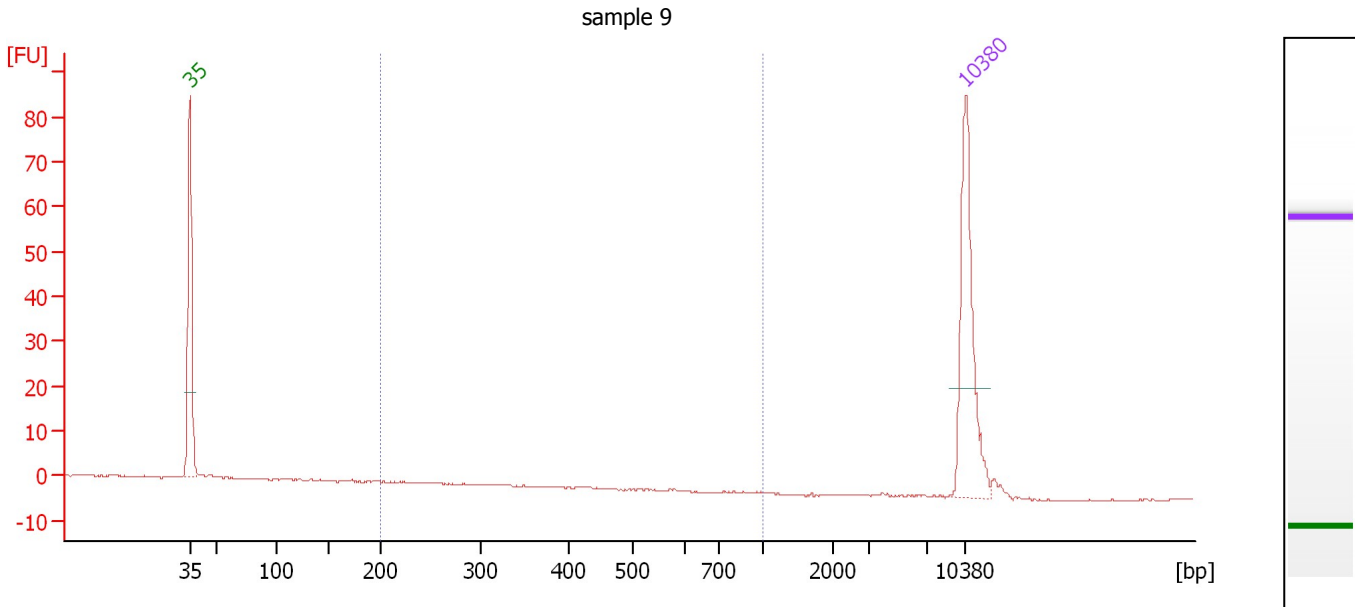
**Region table for sample 8 : sample 8**

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	307	569.4	3,145.3	572.15	74	34.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.6  
 Noise: 0.1

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

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

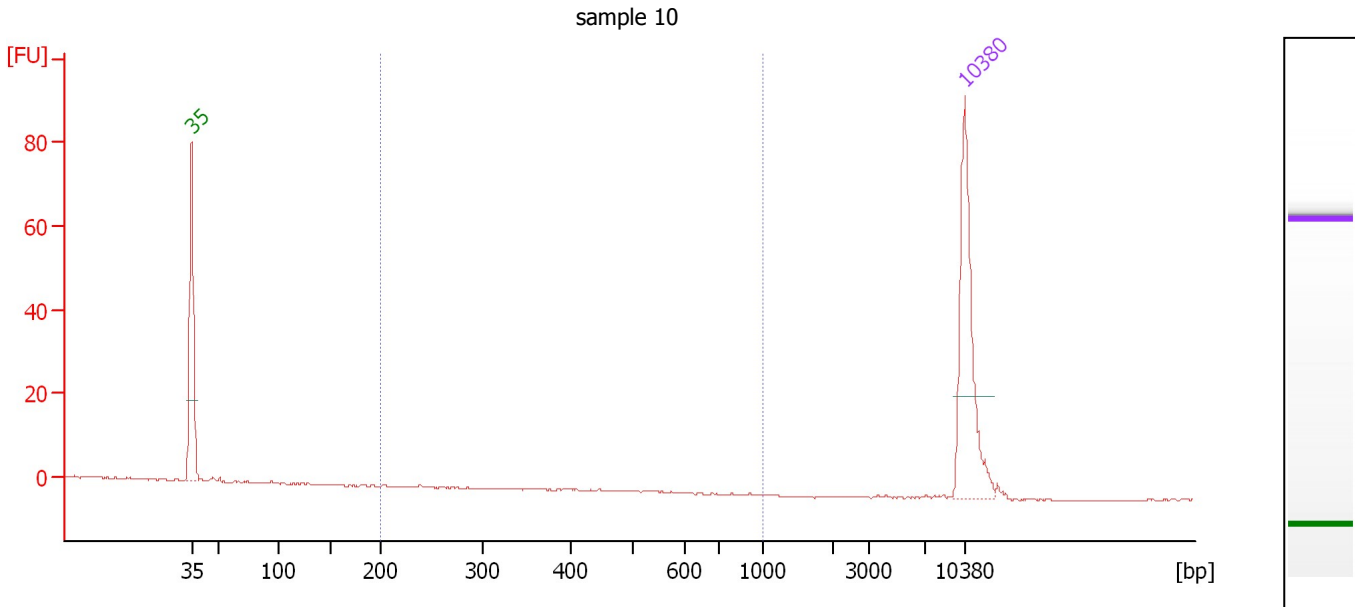
**Region table for sample 9 : sample 9**

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	232	0.6	4.9	0.74	4	12.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

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 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

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

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

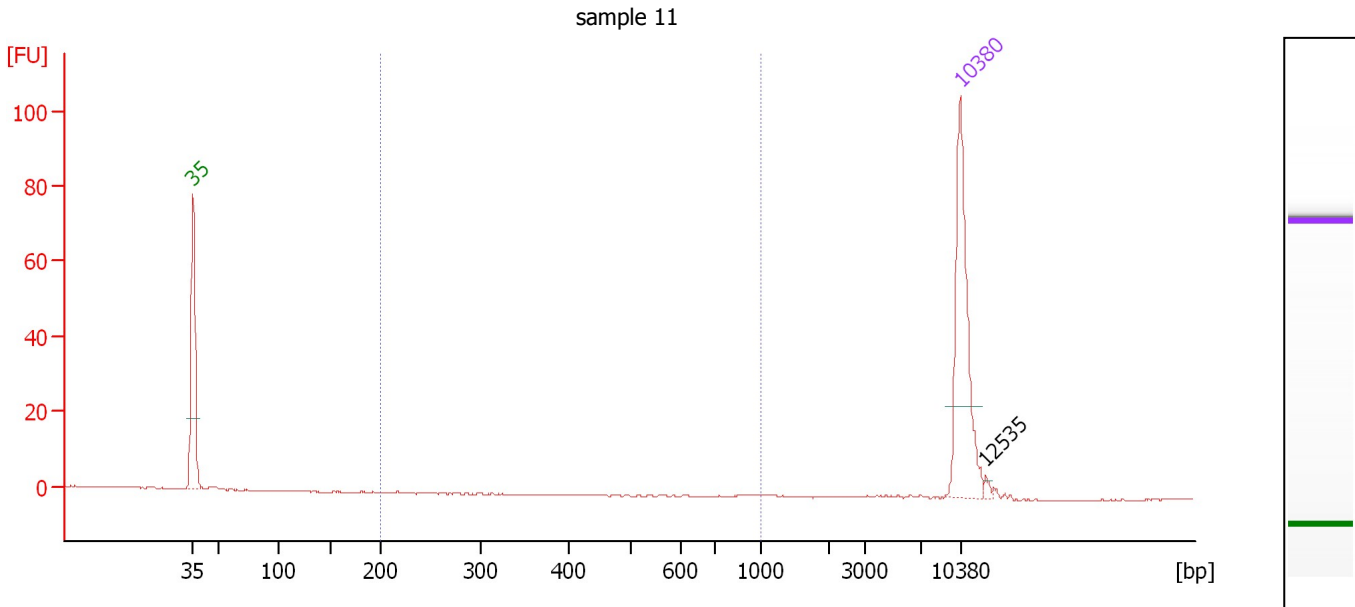
**Region table for sample 10 : sample 10**

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
 Modified: 6/1/2017 3:28:50 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.2

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

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
3	12,535	0.00	0.0		115.29

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

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-01\2017-06-01\_002.xad

Created: 6/1/2017 2:45:03 PM  
Modified: 6/1/2017 3:28:50 PM

**Gel Image**

