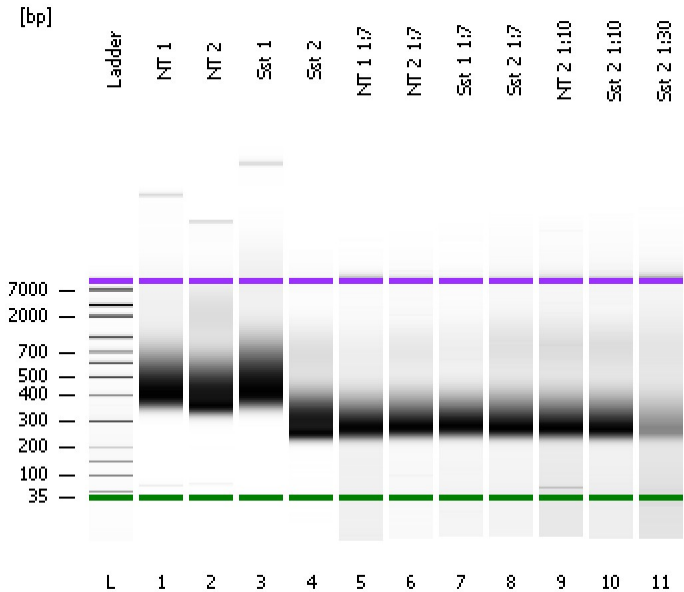


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
Modified: 9/6/2017 12:35:40 PM

**Electrophoresis File Run Summary**



Instrument Information:

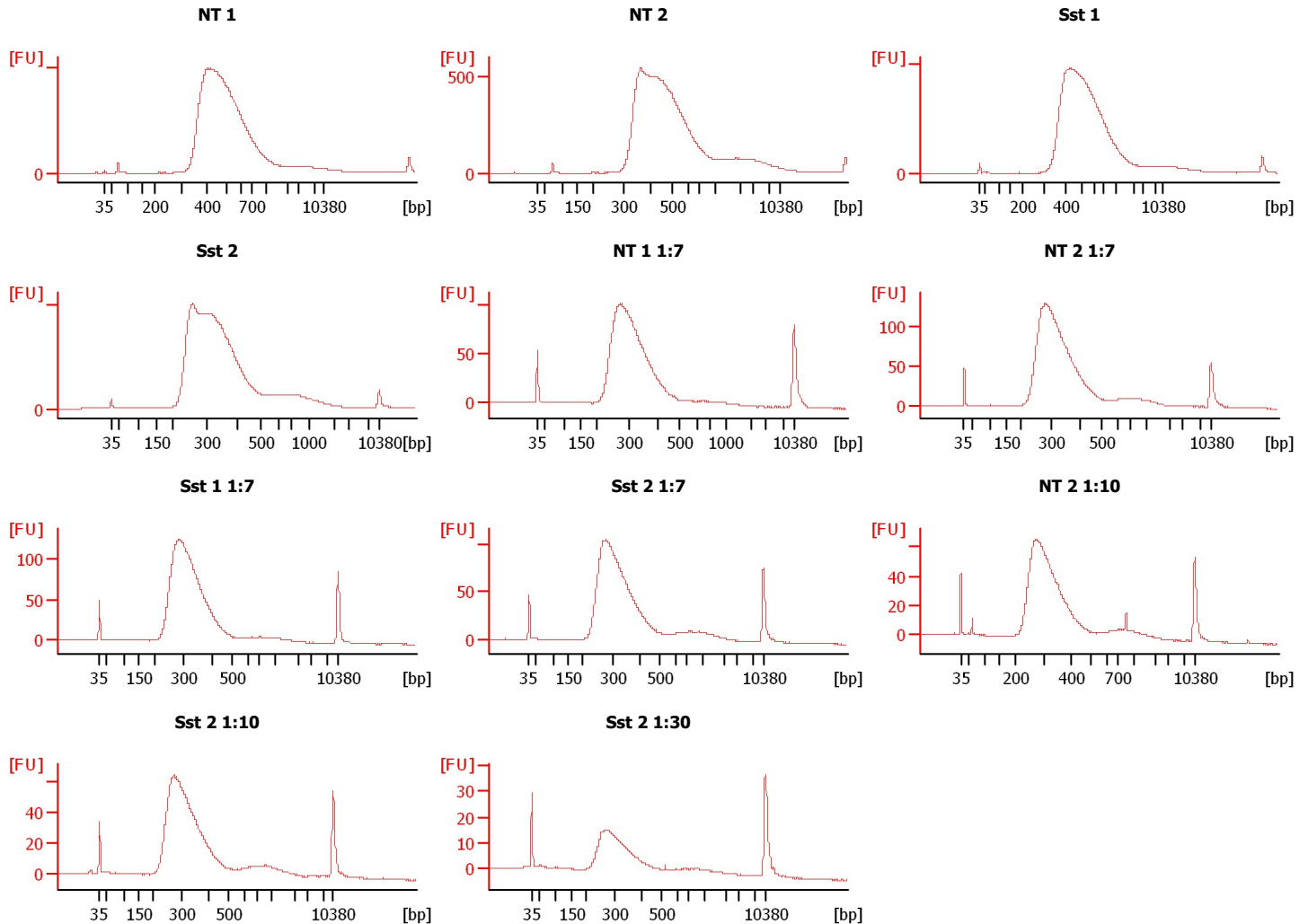
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NT 1		<input type="checkbox"/>	✓			
NT 2		<input type="checkbox"/>	✓			
Sst 1		<input type="checkbox"/>	✓			
Sst 2		<input type="checkbox"/>	✓			
NT 1 1:7		<input type="checkbox"/>	✓			
NT 2 1:7		<input type="checkbox"/>	✓			
Sst 1 1:7		<input type="checkbox"/>	✓			
Sst 2 1:7		<input type="checkbox"/>	✓			
NT 2 1:10		<input type="checkbox"/>	✓			
Sst 2 1:10		<input type="checkbox"/>	✓			
Sst 2 1:30		<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\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
Modified: 9/6/2017 12:35:40 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

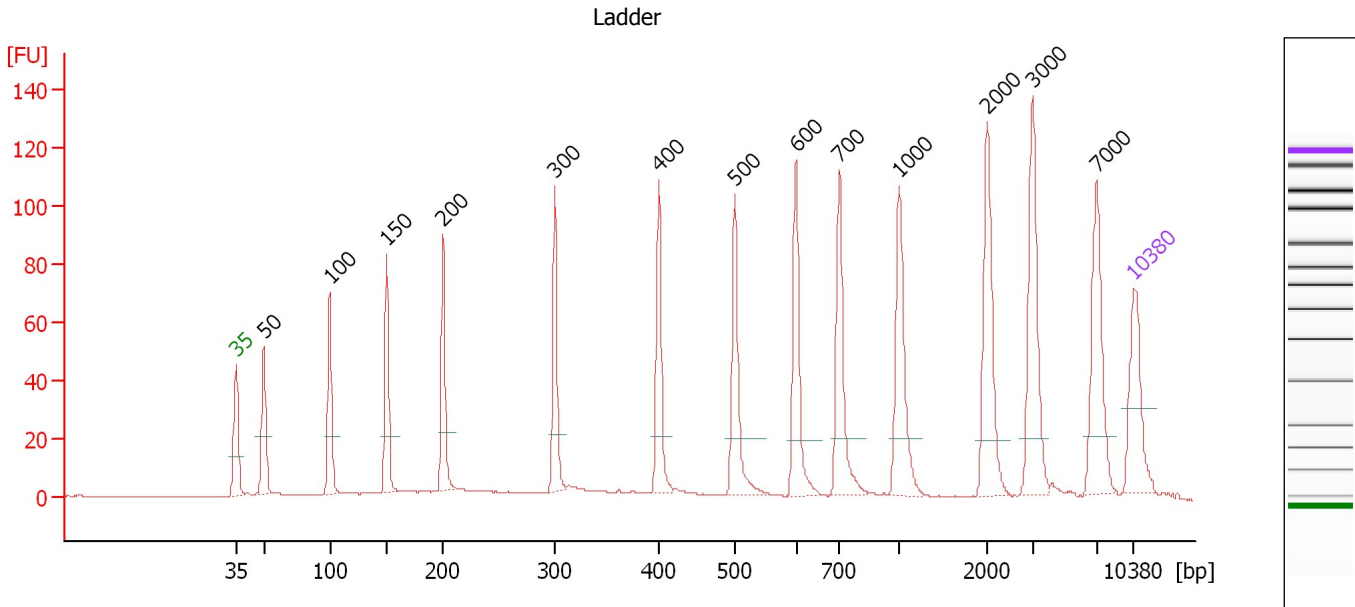
**Ladder**

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:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

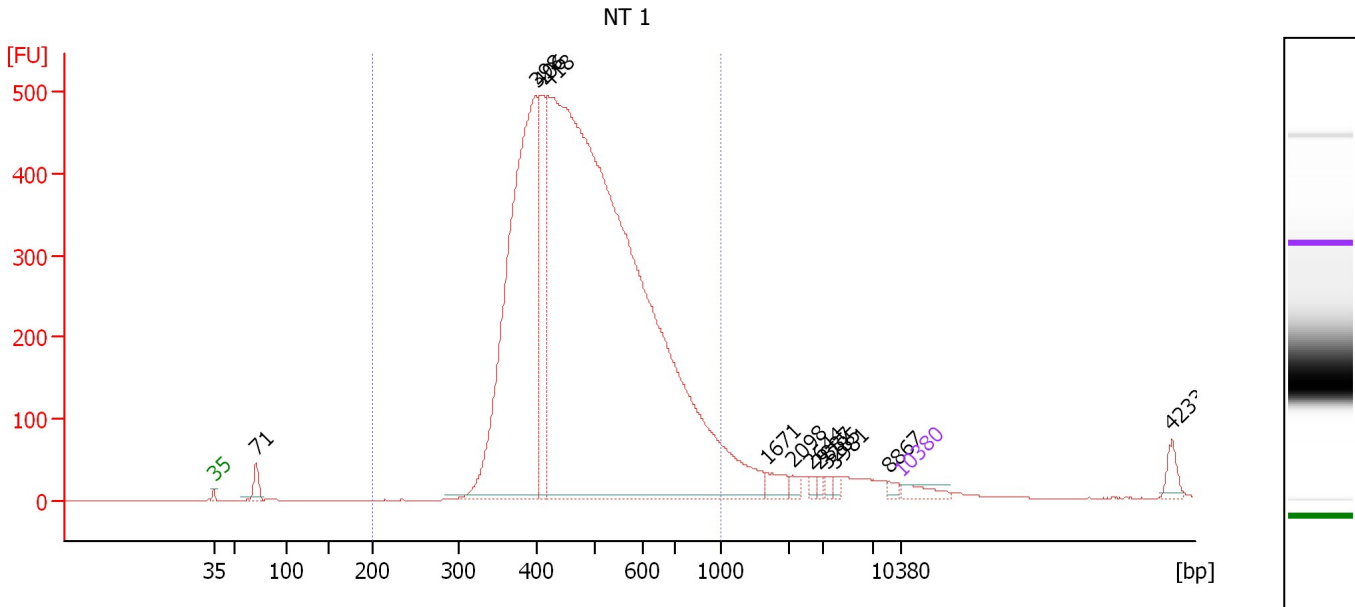
**Peak table for Ladder**

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	45.16
3	100	150.00	2,272.7	Ladder Peak	50.32
4	150	150.00	1,515.2	Ladder Peak	54.76
5	200	150.00	1,136.4	Ladder Peak	59.17
6	300	150.00	757.6	Ladder Peak	67.86
7	400	150.00	568.2	Ladder Peak	75.96
8	500	150.00	454.5	Ladder Peak	81.87
9	600	150.00	378.8	Ladder Peak	86.65
10	700	150.00	324.7	Ladder Peak	90.01
11	1,000	150.00	227.3	Ladder Peak	94.67
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	105.10
14	7,000	150.00	32.5	Ladder Peak	110.09
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

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 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 12                      Corr. Area 1: 8,329.0  
 Noise: 0.2

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

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	71	152.65	3,251.0		47.34
3	398	4,226.86	16,104.2		75.78
4	406	895.09	3,340.3		76.32
5	418	12,774.77	46,310.0		77.02
6	1,671	109.85	99.6		99.27
7	2,098	44.31	32.0		101.88
8	2,644	27.33	15.7		103.83
9	2,887	25.16	13.2		104.70
10	3,285	28.51	13.2		105.46
11	3,981	26.14	9.9		106.33
12	8,867	30.75	5.3		111.70
13	10,380	75.00	10.9	Upper Marker	113.00
14	42,338	0.00	0.0		140.51

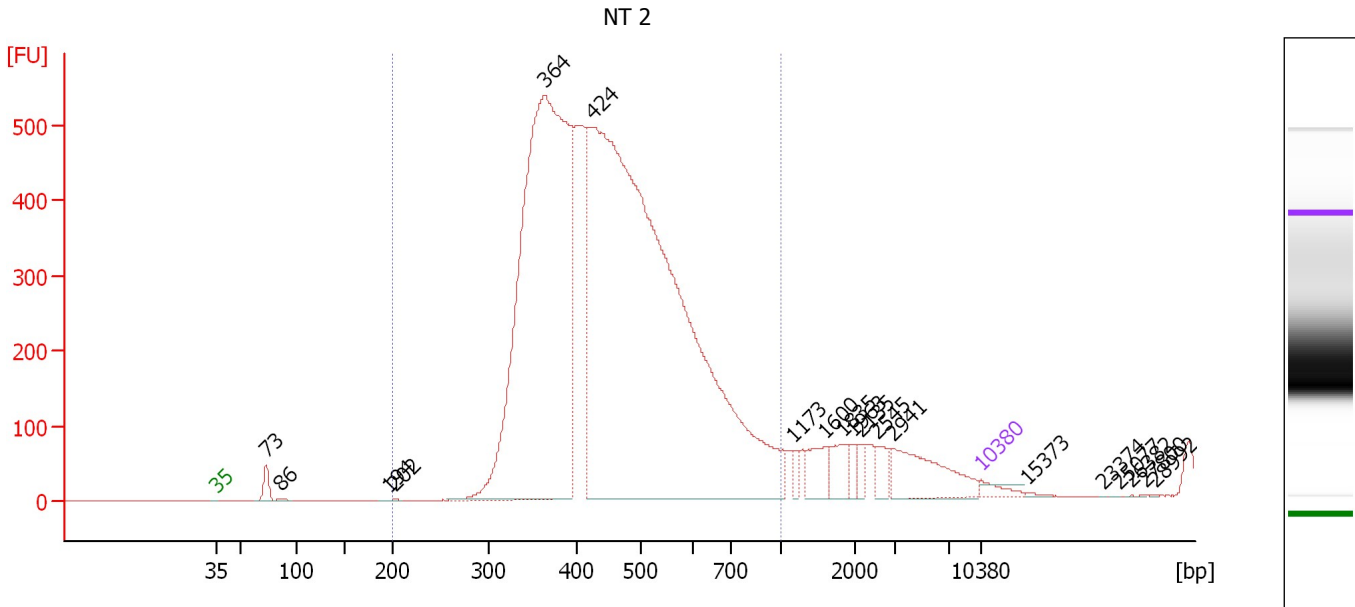
**Region table for sample 1 : NT 1**

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	498	8,329.0	53,264.5	16,346.31	93	25.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : NT 2**

Height Threshold [FU] : 0

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

Number of peaks found: 19                      Corr. Area 1: 8,970.1  
 Noise: 0.2

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

Pea k	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	73	159.47	3,305.3		47.54
3	86	18.15	318.4		48.91
4	194	0.89	6.9		58.68
5	202	4.50	33.7		59.36
6	364	8,115.19	33,783.2		73.04
7	424	12,491.07	44,619.3		77.39
8	1,173	75.36	97.3		95.85
9	1,600	221.83	210.0		98.79
10	1,835	209.38	172.9		100.40
11	1,963	67.38	52.0		101.28
12	2,135	71.47	50.7		102.01
13	2,545	125.01	74.4		103.47
14	2,941	512.50	264.0		104.89
15	10,380	75.00	10.9	Upper Marker	113.00
16	15,373	0.00	0.0		117.30
17	23,374	0.00	0.0		124.19
18	25,077	0.00	0.0		125.65
19	26,382	0.00	0.0		126.78
20	27,800	0.00	0.0		128.00
21	28,992	0.00	0.0		129.02

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**

... Region table for sample 2 :

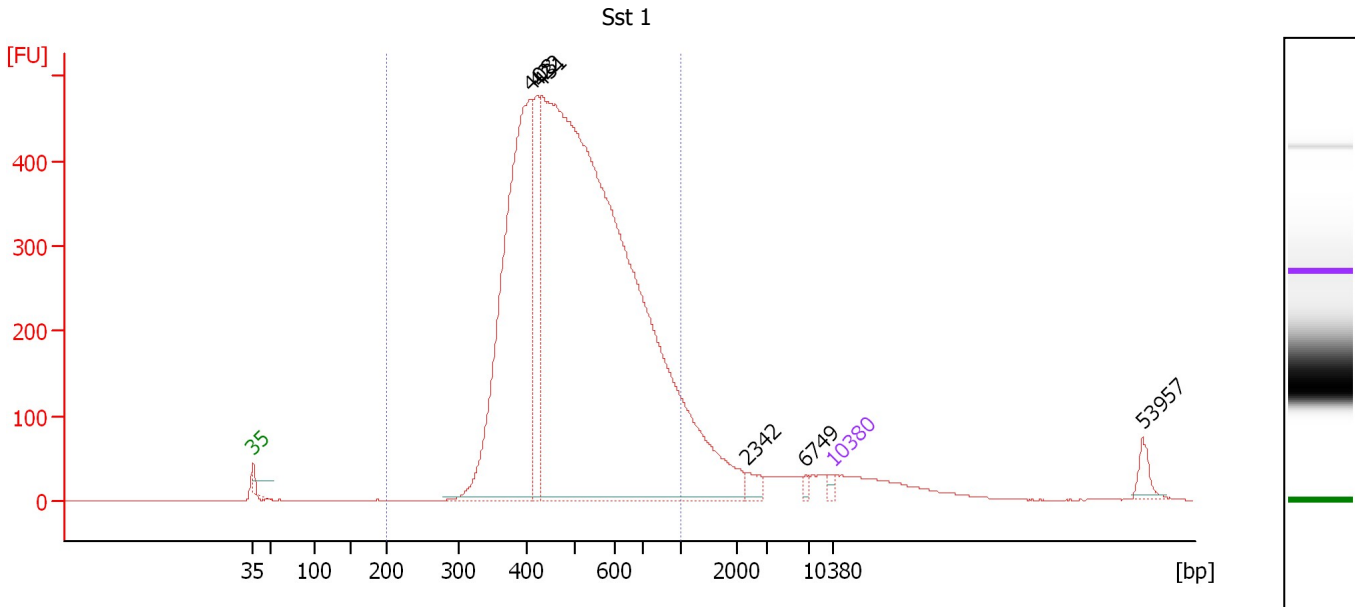
NT 2

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	456	8,970.1	65,648.2	18,611.70	97	23.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sst 1**

Number of peaks found: 6                      Corr. Area 1: 7,764.6  
 Noise: 0.3

**Peak table for sample 3 : Sst 1**

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	408	10,897.51	40,439.4		76.45
3	422	2,175.47	7,801.7		77.29
4	431	33,134.79	116,420.6		77.81
5	2,342	201.66	130.4		102.75
6	6,749	75.78	17.0		109.78
7	10,380	75.00	10.9	Upper Marker	113.00
8	53,957	0.00	0.0		150.51

**Region table for sample 3 : Sst 1**

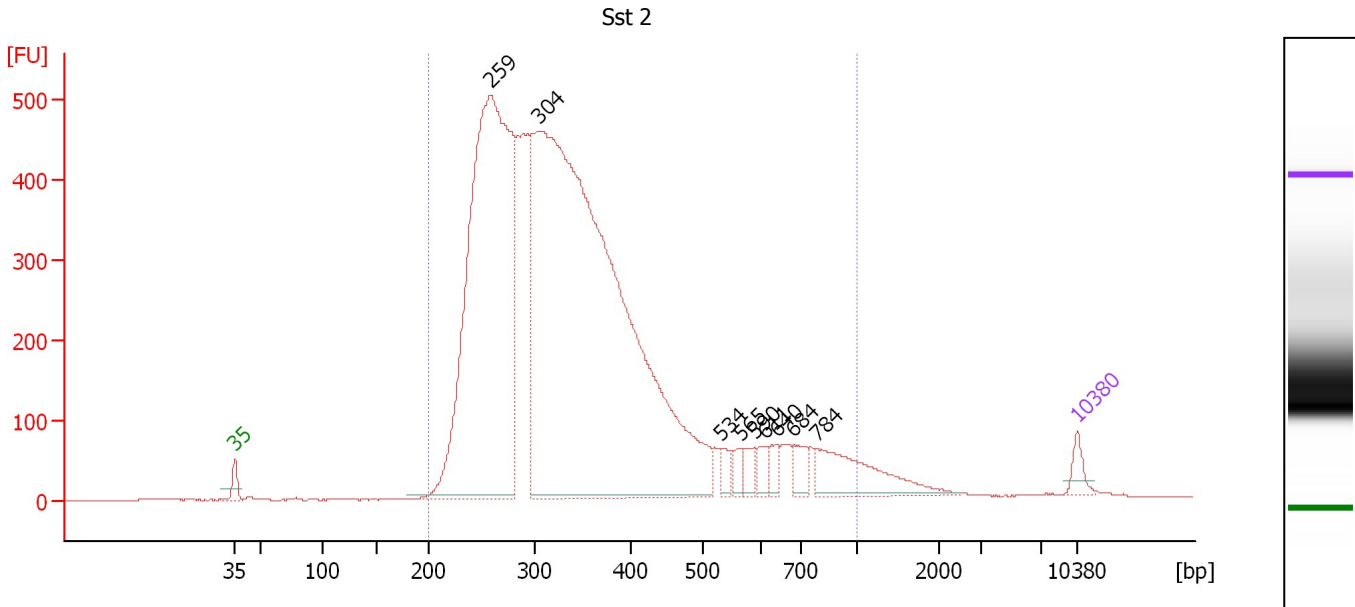
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	521	7,764.6	128,478.0	40,834.45	89	26.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

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 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sst 2**

Number of peaks found: 9                      Corr. Area 1: 10,464.9  
 Noise: 0.3

**Peak table for sample 4 : Sst 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	259	5,987.31	35,051.1		64.28
3	304	9,932.51	49,506.5		68.18
4	534	96.61	274.3		83.47
5	565	96.84	259.6		84.98
6	590	95.26	244.5		86.18
7	611	92.97	230.5		87.02
8	640	86.05	203.7		88.00
9	684	129.16	286.3		89.46
10	784	532.62	1,028.9		91.32
11	10,380	75.00	10.9	Upper Marker	113.00

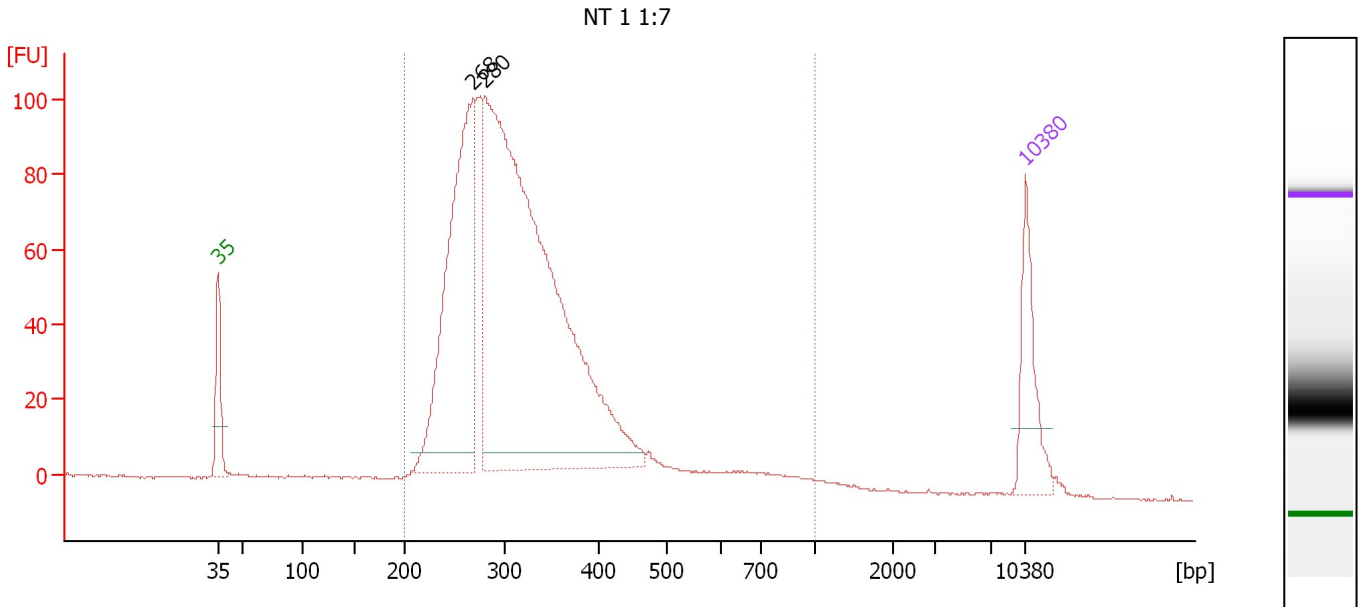
**Region table for sample 4 : Sst 2**

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	359	10,464.9	83,673.2	17,549.34	97	36.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : NT 1 1:7**

Number of peaks found: 2                      Corr. Area 1: 1,660.1  
 Noise: 0.3

**Peak table for sample 5 : NT 1 1:7**

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	268	530.88	2,996.5		65.12
3	280	1,290.62	6,993.4		66.09
4	10,380	75.00	10.9	Upper Marker	113.00

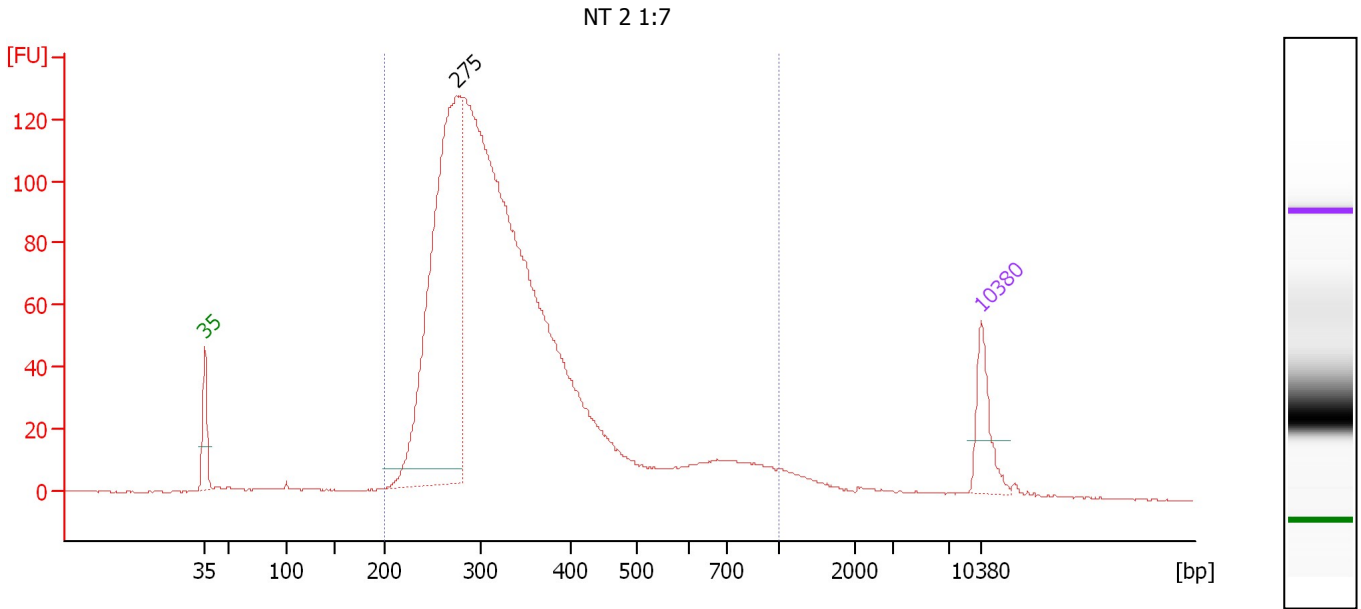
**Region table for sample 5 : NT 1 1:7**

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	330	1,660.1	10,309.4	2,073.59	96	30.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : NT 2 1:7**

Number of peaks found: 1                      Corr. Area 1: 2,101.9  
 Noise: 0.1

**Peak table for sample 6 : NT 2 1:7**

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	275	1,107.98	6,094.6		65.72
3	10,380	75.00	10.9	Upper Marker	113.00

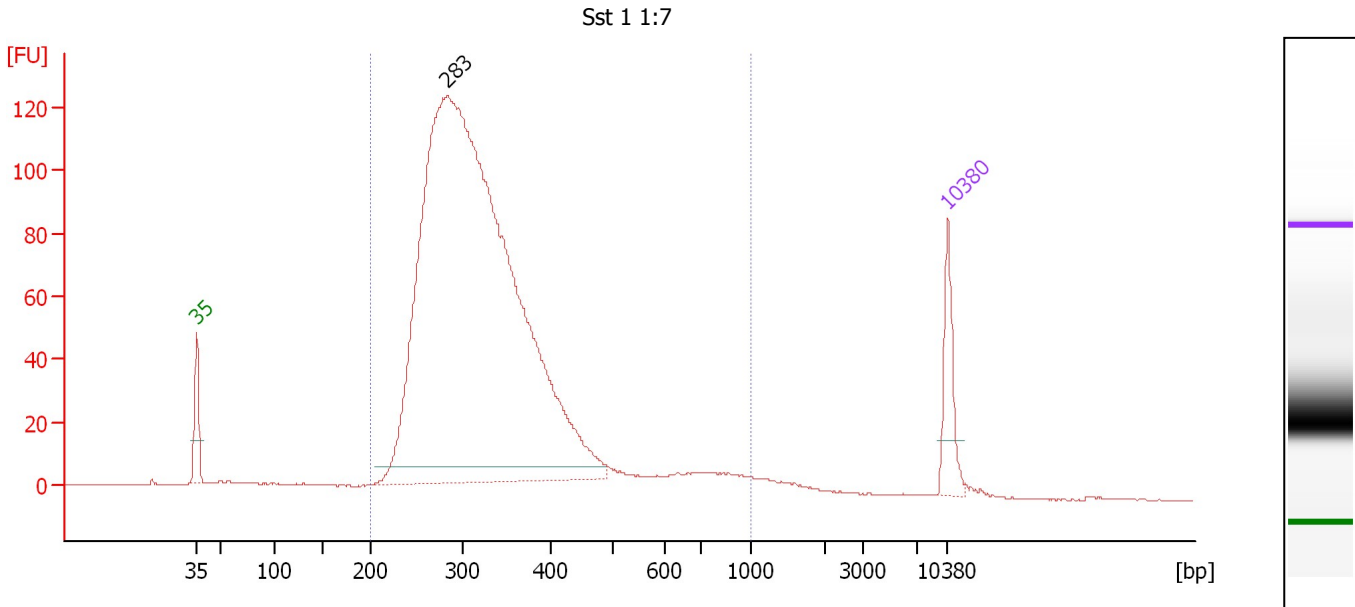
**Region table for sample 6 : NT 2 1:7**

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	350	2,101.9	17,679.7	3,675.51	95	35.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sst 1 1:7**

Number of peaks found: 1                      Corr. Area 1: 1,930.7  
 Noise: 0.1

**Peak table for sample 7 : Sst 1 1:7**

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	283	3,009.05	16,130.3		66.35
3	10,380	75.00	10.9	Upper Marker	113.00

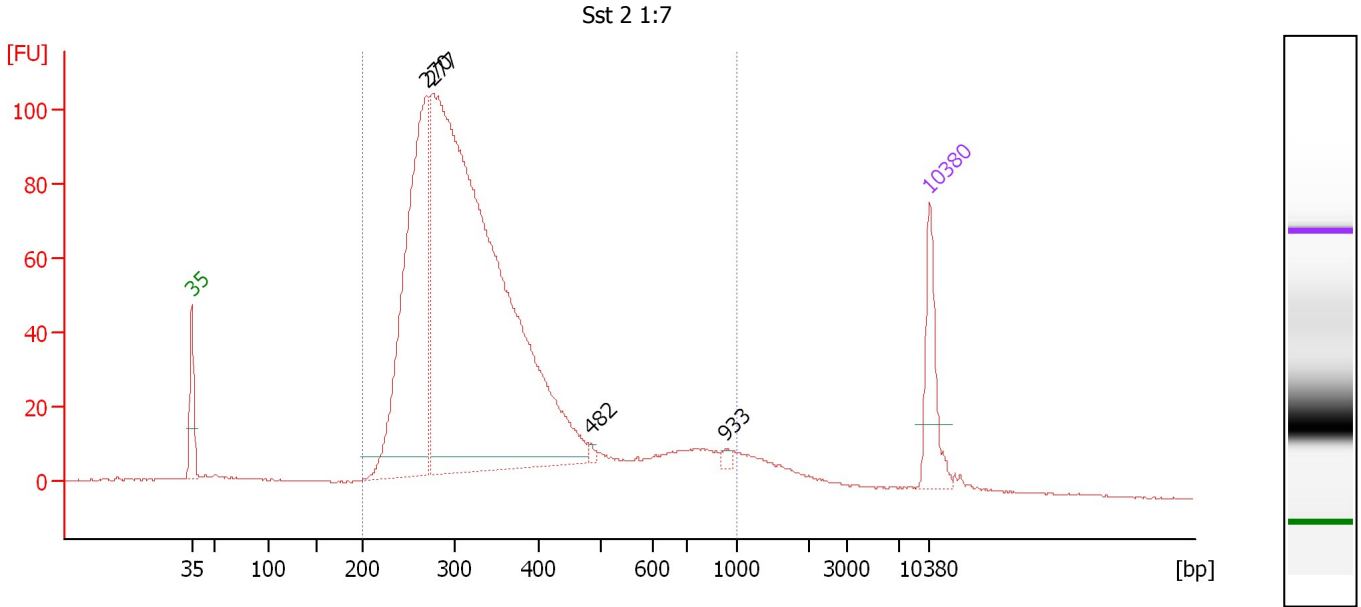
**Region table for sample 7 : Sst 1 1:7**

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	338	1,930.7	14,931.7	3,078.95	96	31.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sst 2 1:7**

Number of peaks found: 4                      Corr. Area 1: 1,743.4  
 Noise: 0.2

**Peak table for sample 8 : Sst 2 1:7**

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	270	664.12	3,726.3		65.25
3	277	1,843.73	10,084.1		65.86
4	482	5.52	17.3		80.83
5	933	6.69	10.9		93.63
6	10,380	75.00	10.9	Upper Marker	113.00

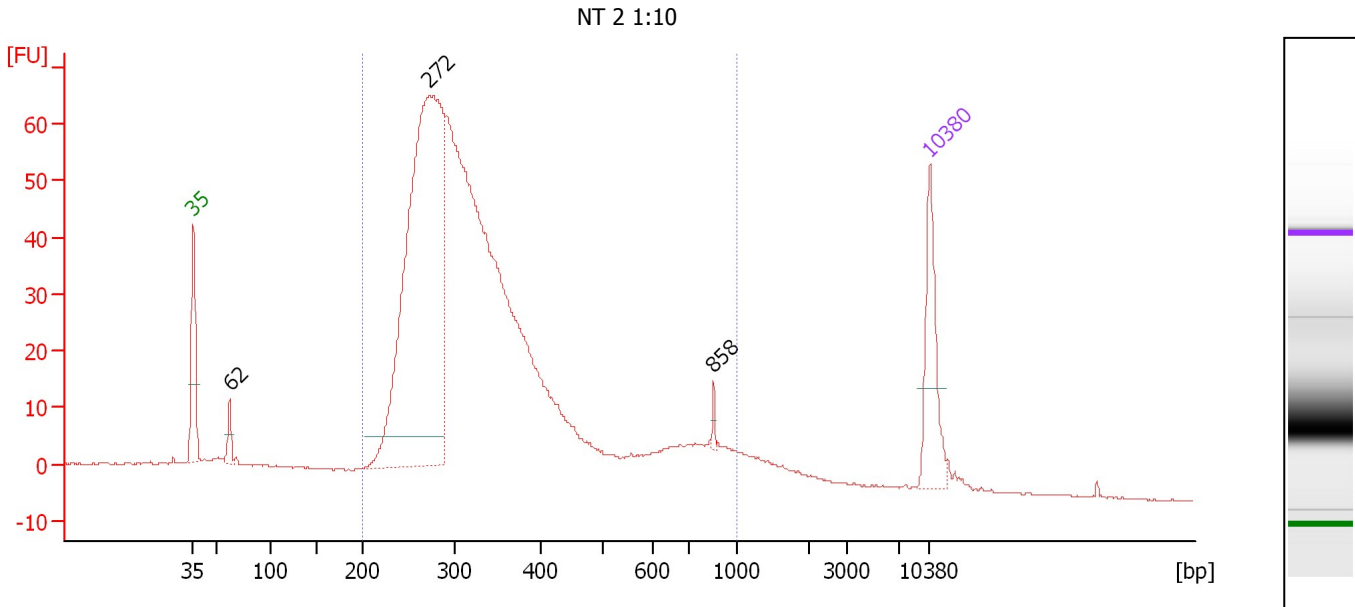
**Region table for sample 8 : Sst 2 1:7**

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	355	1,743.4	13,016.0	2,714.93	93	37.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : NT 2 1:10**

Number of peaks found: 3                      Corr. Area 1: 1,075.5  
 Noise: 0.1

**Peak table for sample 9 : NT 2 1:10**

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	62	24.54	595.1		46.45
3	272	870.86	4,855.3		65.40
4	858	5.98	10.6		92.47
5	10,380	75.00	10.9	Upper Marker	113.00

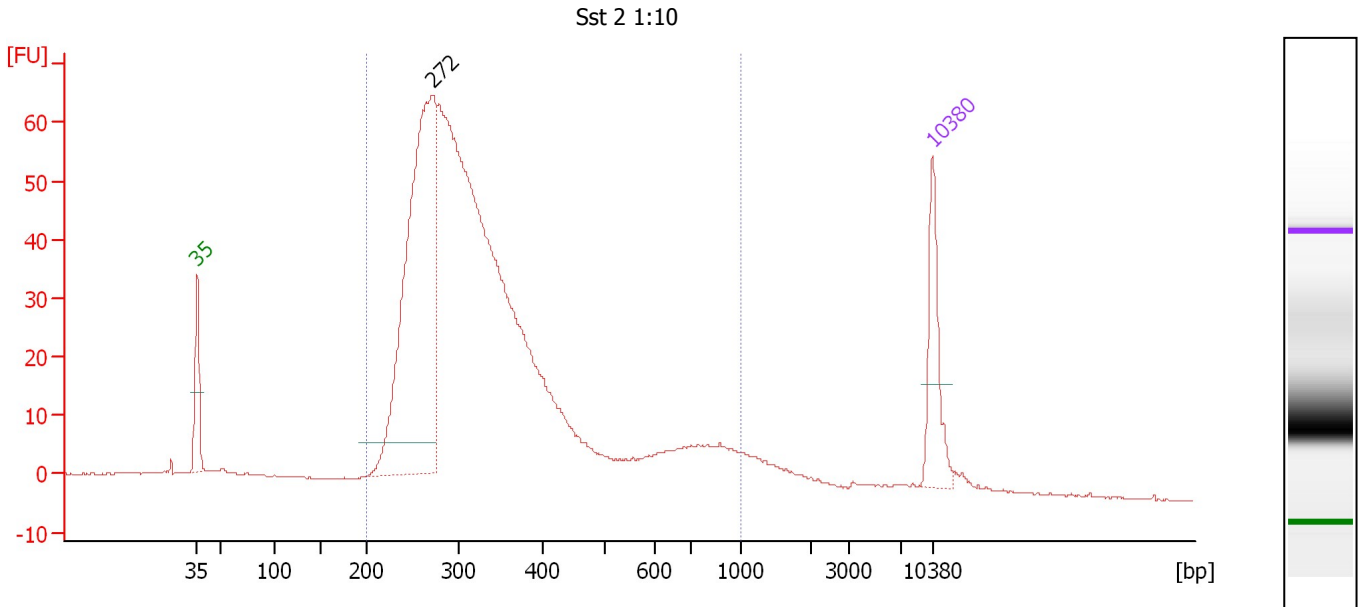
**Region table for sample 9 : NT 2 1:10**

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	354	1,075.5	10,847.8	2,247.22	92	39.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

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 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sst 2 1:10**

Number of peaks found: 1                      Corr. Area 1: 1,068.4  
 Noise: 0.1

**Peak table for sample 10 : Sst 2 1:10**

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	272	711.93	3,963.8		65.44
3	10,380	75.00	10.9	Upper Marker	113.00

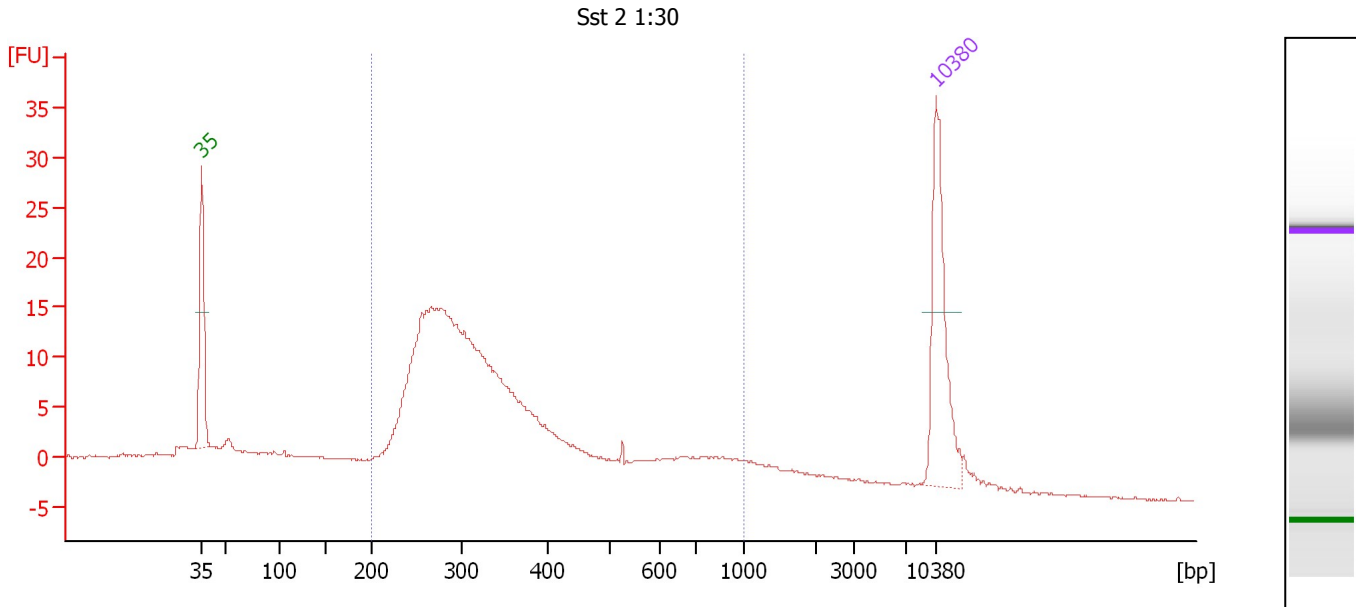
**Region table for sample 10 : Sst 2 1:10**

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	353	1,068.4	11,265.4	2,318.24	93	39.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
 Modified: 9/6/2017 12:35:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sst 2 1:30**

Number of peaks found: 0                      Corr. Area 1: 286.3  
 Noise: 0.1

**Peak table for sample 11 : Sst 2 1:30**

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 : Sst 2 1:30**

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	364	286.3	3,343.5	694.15	80	41.6



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-06\2017-09-06\_001.xad

Created: 9/6/2017 11:46:32 AM  
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**Gel Image**

