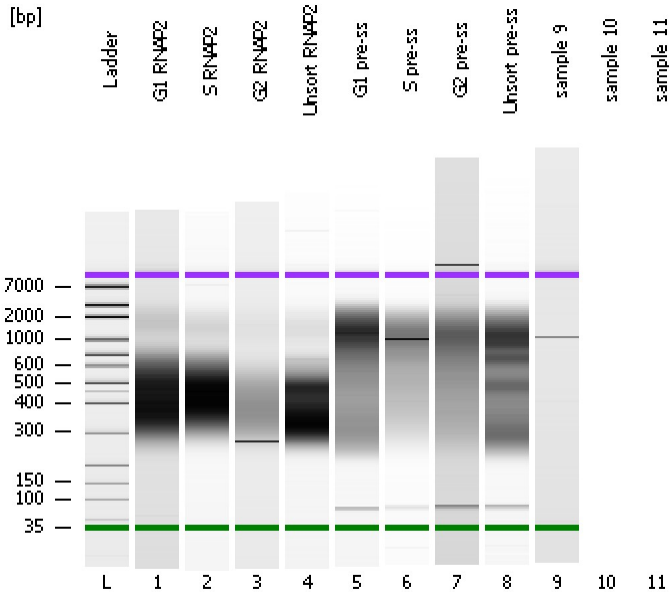


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
Modified: 4/2/2018 12:10:50 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

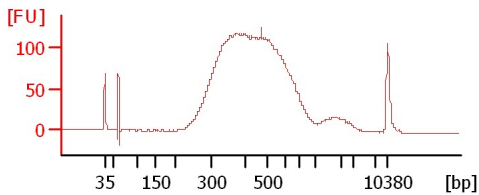
Assay Information:

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

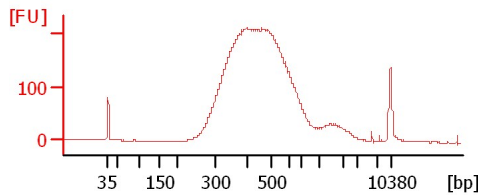
Chip Information:

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

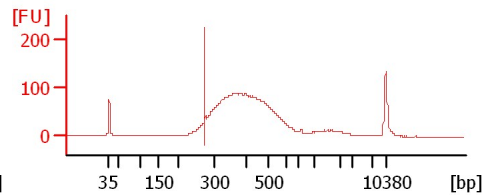
**G1 RNAP2**



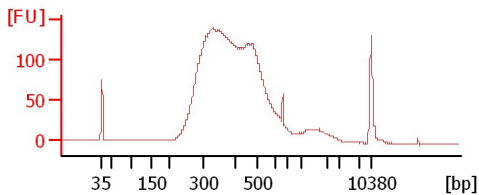
**S RNAP2**



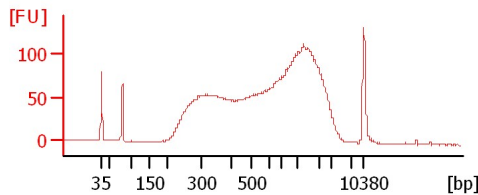
**G2 RNAP2**



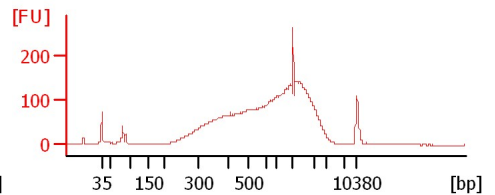
**Unsort RNAP2**



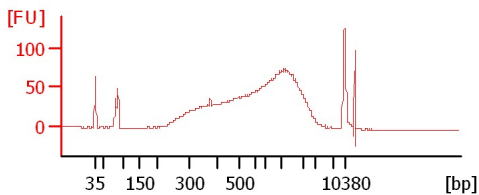
**G1 pre-ss**



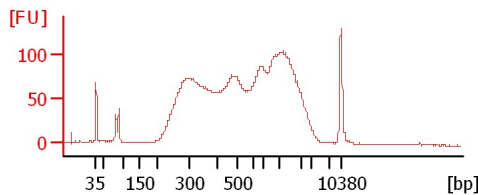
**S pre-ss**



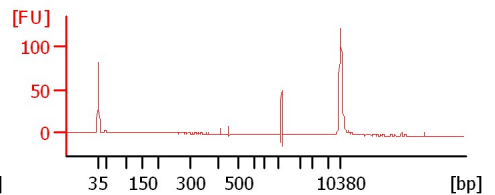
**G2 pre-ss**



**Unsort pre-ss**



**sample 9**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G1 RNAP2		<input type="checkbox"/>	✓			
S RNAP2		<input type="checkbox"/>	✓			
G2 RNAP2		<input type="checkbox"/>	✓			
Unsort RNAP2		<input type="checkbox"/>	✓			
G1 pre-ss		<input type="checkbox"/>	✓			
S pre-ss		<input type="checkbox"/>	✓			
G2 pre-ss		<input type="checkbox"/>	✓			
Unsort pre-ss		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

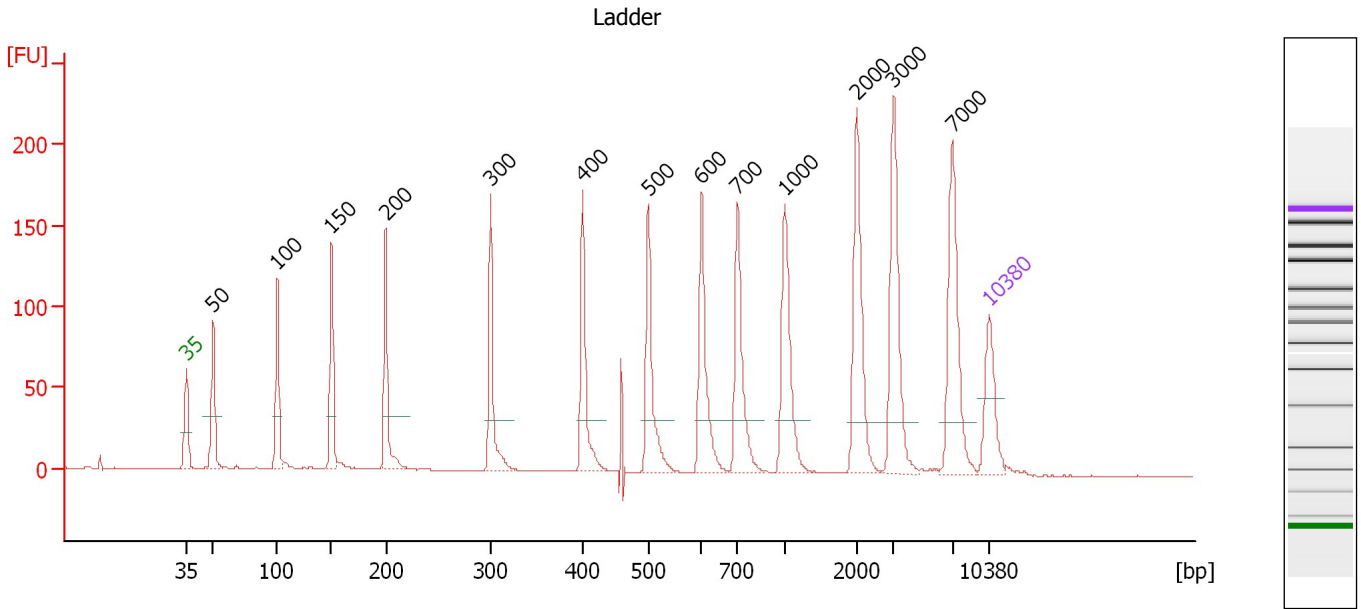
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

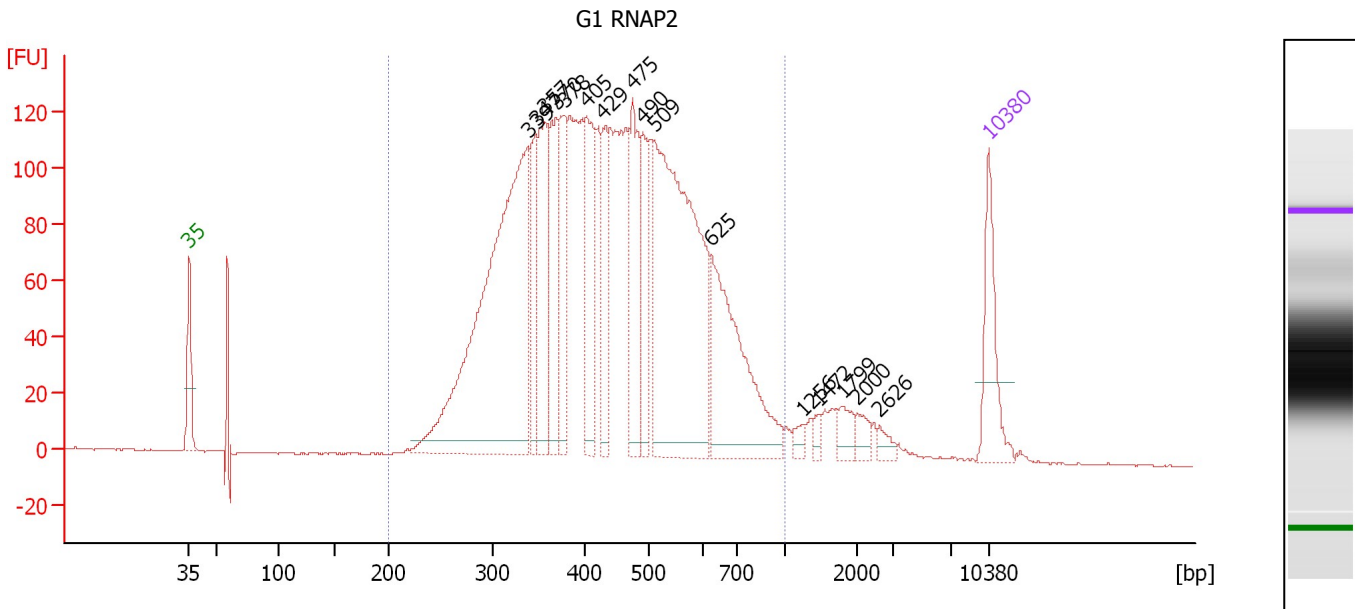
**Peak table for Ladder**

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.90
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.38
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.54
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.90
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	95.15
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : G1 RNAP2**

Number of peaks found: 16                      Corr. Area 1: 3,235.0  
 Noise: 0.3

**Peak table for sample 1 : G1 RNAP2**

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	339	735.55	3,290.6		72.63
3	347	100.57	438.6		73.33
4	357	173.38	735.1		74.13
5	370	147.98	606.6		75.11
6	378	124.16	497.2		75.81
7	405	152.54	570.9		77.81
8	429	90.91	320.8		79.21
9	475	143.15	456.6		81.83
10	490	110.63	342.3		82.67
11	509	566.36	1,684.3		83.69
12	625	246.03	596.2		88.69
13	1,256	11.03	13.3		96.76
14	1,472	10.04	10.3		98.11
15	1,799	21.93	18.5		100.17
16	2,000	15.52	11.8		101.43
17	2,626	11.21	6.5		103.43
18	10,380	75.00	10.9	Upper Marker	113.00

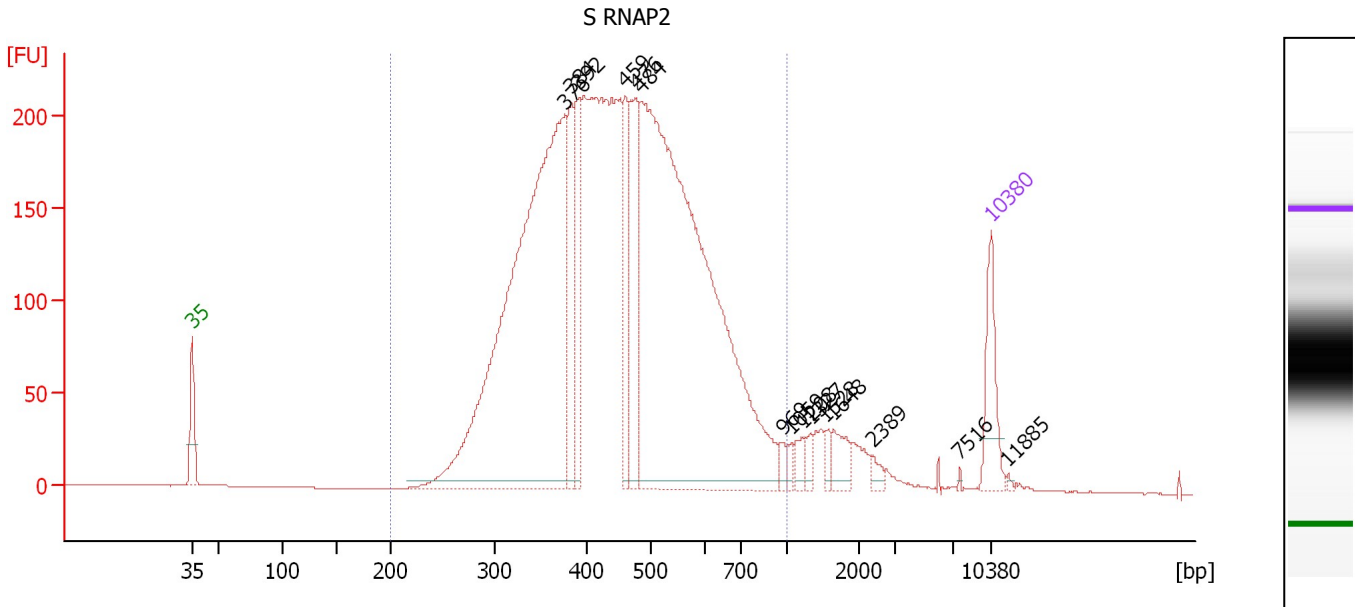
**Region table for sample 1 : G1 RNAP2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	451	3,235.0	3,271.72	12,222.6	94	28.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : S RNAP2**

Number of peaks found: 15                      Corr. Area 1: 5,023.8  
 Noise: 0.2

**Peak table for sample 2 : S RNAP2**

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	376	1,359.45	5,478.1		75.62
3	384	150.38	594.0		76.22
4	392	162.13	626.1		76.93
5	459	141.46	467.2		80.90
6	476	203.63	648.2		81.88
7	484	1,546.20	4,838.9		82.35
8	969	12.12	18.9		94.73
9	1,059	11.65	16.7		95.52
10	1,208	18.18	22.8		96.46
11	1,327	15.20	17.3		97.21
12	1,528	13.81	13.7		98.47
13	1,648	35.87	33.0		99.21
14	2,389	11.28	7.2		102.67
15	7,516	1.63	0.3		110.24
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,885	0.00	0.0		114.45

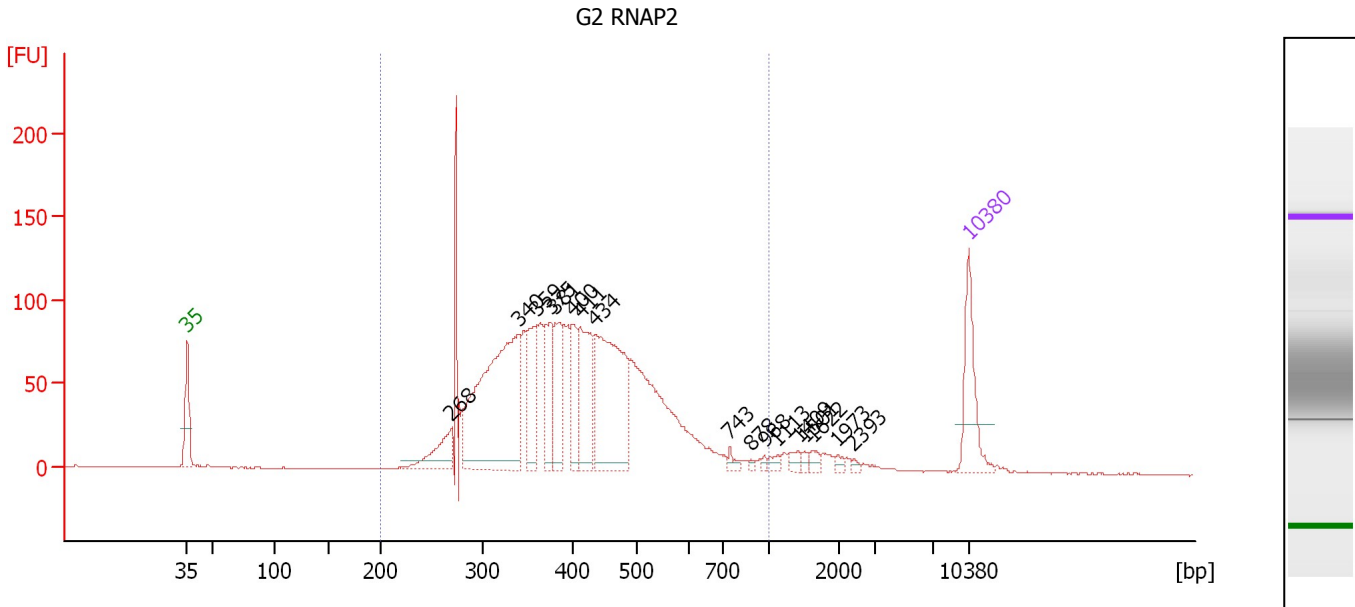
**Region table for sample 2 : S RNAP2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
200	1,000	460	5,023.8	4,441.71	15,989.9	95	26.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : G2 RNAP2**

Number of peaks found: 17                      Corr. Area 1: 2,044.9  
 Noise: 0.3

**Peak table for sample 3 : G2 RNAP2**

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	70.22	396.6		66.64
3	340	434.00	1,936.8		72.70
4	359	110.79	467.3		74.28
5	375	88.54	358.0		75.52
6	381	87.68	348.9		75.99
7	400	68.27	258.7		77.52
8	411	129.68	477.5		78.19
9	434	272.27	950.5		79.48
10	743	9.40	19.2		91.61
11	878	3.80	6.6		93.47
12	968	4.21	6.6		94.71
13	1,113	8.10	11.0		95.86
14	1,409	9.86	10.6		97.72
15	1,501	5.35	5.4		98.29
16	1,622	8.59	8.0		99.06
17	1,973	5.44	4.2		101.25
18	2,393	3.88	2.5		102.69
19	10,380	75.00	10.9	Upper Marker	113.00

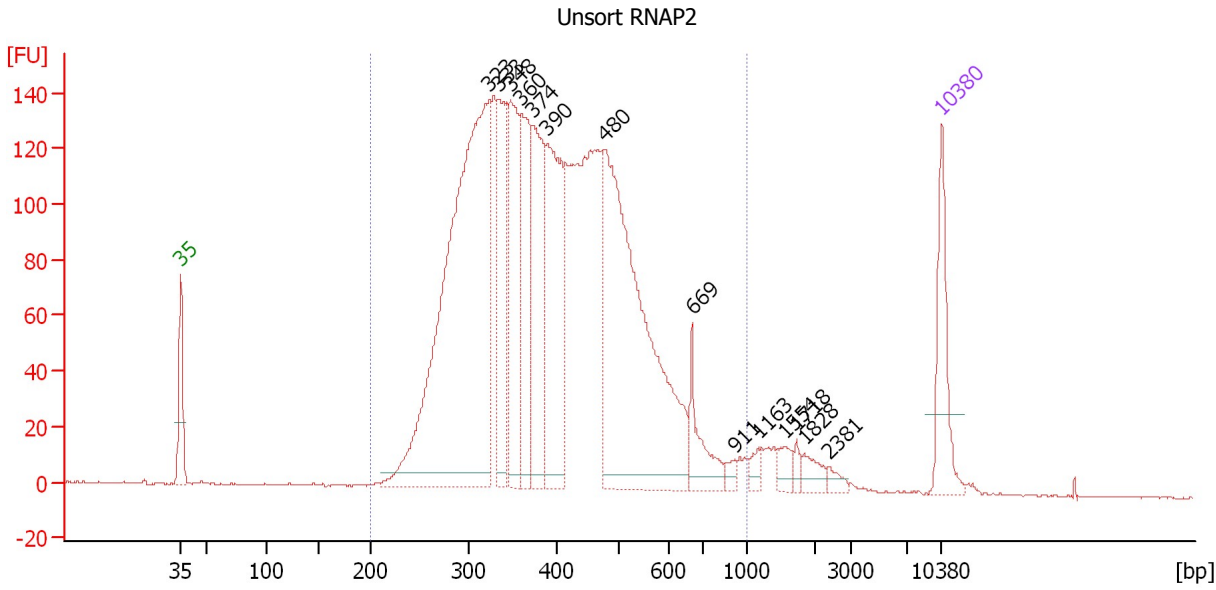
**Region table for sample 3 : G2 RNAP2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	414	2,044.9	1,900.48	7,589.9	95	27.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Unsort RNAP2**

Number of peaks found: 14                      Corr. Area 1: 3,406.1  
 Noise: 0.2

**Peak table for sample 4 : Unsort RNAP2**

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	323	903.96	4,236.6		71.40
3	333	172.07	782.7		72.19
4	348	191.53	834.3		73.36
5	360	171.97	723.6		74.35
6	374	207.49	840.1		75.47
7	390	254.32	987.6		76.75
8	480	617.05	1,948.7		82.10
9	669	61.25	138.8		90.04
10	911	9.71	16.1		93.92
11	1,163	12.79	16.7		96.17
12	1,554	16.82	16.4		98.63
13	1,718	7.65	6.7		99.66
14	1,828	18.72	15.5		100.34
15	2,381	9.06	5.8		102.65
16	10,380	75.00	10.9	Upper Marker	113.00

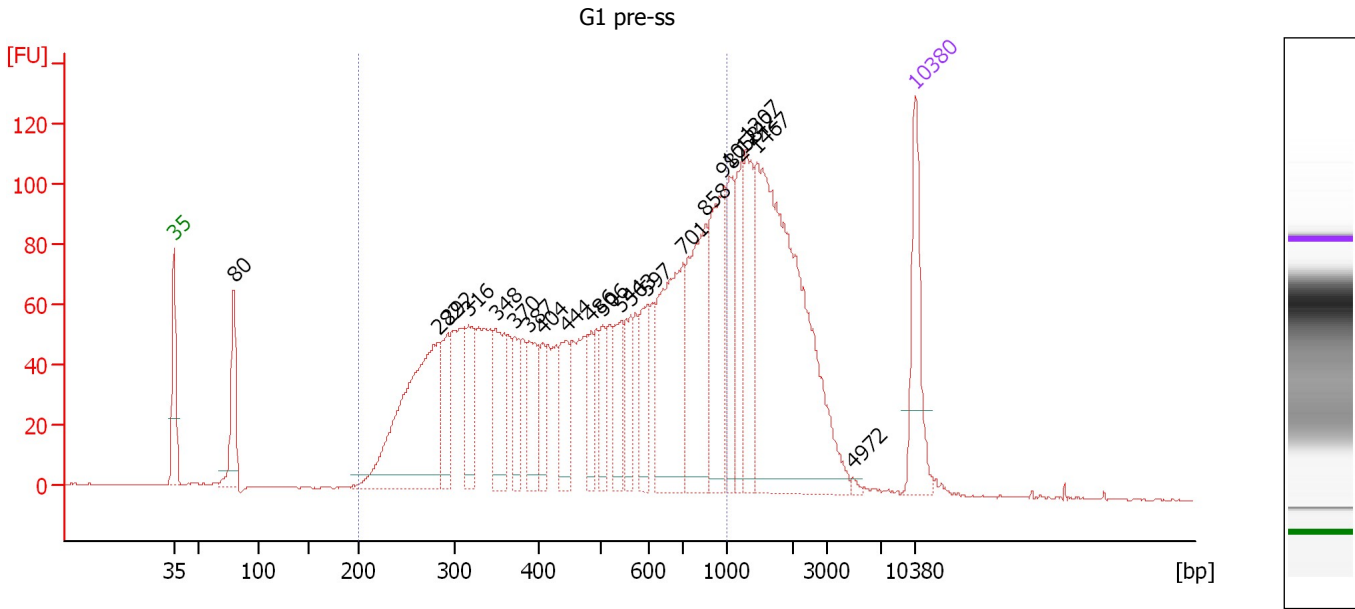
**Region table for sample 4 : Unsort RNAP2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	409	3,406.1	3,290.84	13,400.9	96	28.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : G1 pre-ss**

Number of peaks found: 22                      Corr. Area 1: 2,277.1  
 Noise: 0.3

**Peak table for sample 5 : G1 pre-ss**

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	80	98.57	1,872.4		48.64
3	282	309.18	1,661.0		67.90
4	292	64.83	335.8		68.85
5	316	73.30	351.5		70.82
6	348	86.60	376.9		73.39
7	370	47.69	195.2		75.15
8	387	65.44	256.1		76.51
9	404	37.05	138.9		77.77
10	444	61.73	210.8		80.04
11	486	40.47	126.1		82.46
12	506	38.48	115.3		83.52
13	544	54.44	151.7		85.28
14	563	42.83	115.2		86.19
15	597	57.81	146.8		87.75
16	701	187.08	404.4		91.03
17	858	153.97	271.9		93.19
18	982	128.32	197.9		94.91
19	1,058	65.95	94.5		95.51
20	1,242	61.38	74.9		96.67
21	1,307	91.81	106.5		97.07
22	1,467	413.83	427.4		98.08
23	4,972	2.74	0.8		107.15
24	10,380	75.00	10.9	Upper Marker	113.00




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**

... Region table for sample 5 :

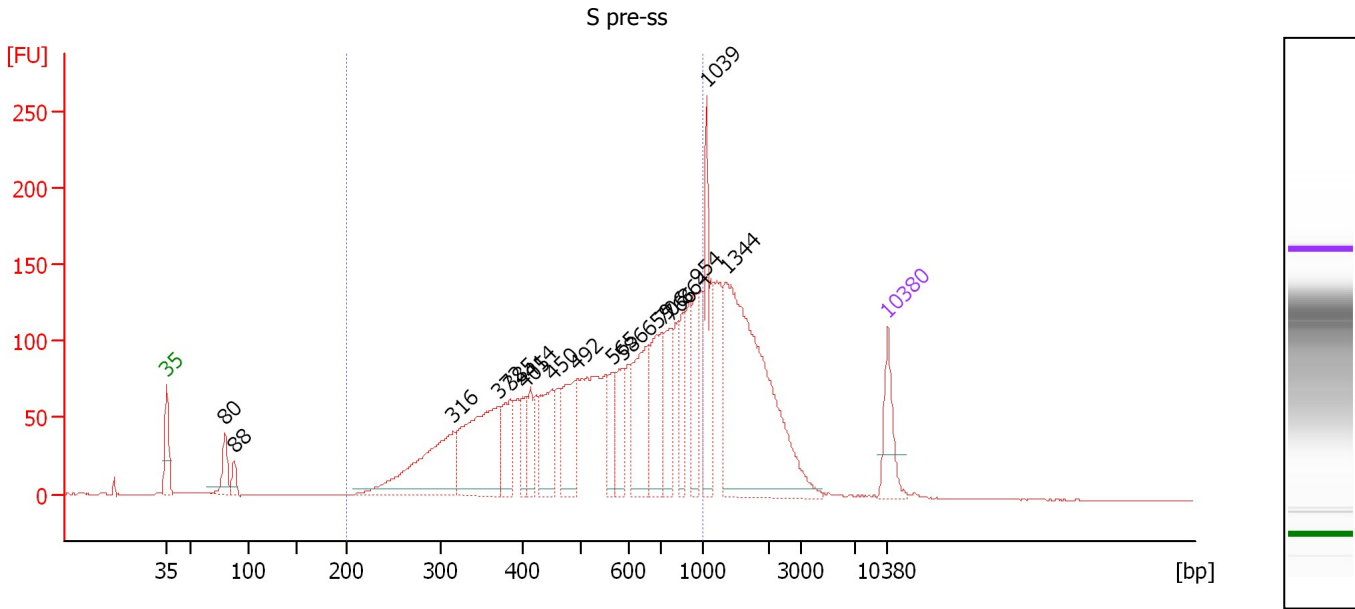
G1 pre-ss

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	520	2,277.1	2,081.55	7,670.3	 70	40.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : S pre-ss**

Number of peaks found: 18                      Corr. Area 1: 2,542.0  
 Noise: 0.2

**Peak table for sample 6 : S pre-ss**

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	80	77.19	1,466.4		48.64
3	88	32.79	566.9		49.52
4	316	315.73	1,511.7		70.86
5	372	337.86	1,375.6		75.31
6	385	103.63	407.7		76.34
7	405	66.62	249.0		77.84
8	414	63.87	234.0		78.31
9	450	130.61	440.0		80.38
10	492	158.91	489.0		82.82
11	565	75.88	203.4		86.28
12	586	91.31	235.9		87.27
13	659	196.30	451.0		89.75
14	706	163.52	350.9		91.10
15	766	107.69	213.0		91.93
16	864	84.38	148.0		93.27
17	954	116.20	184.6		94.52
18	1,039	161.64	235.7		95.40
19	1,344	616.88	695.3		97.31
20	10,380	75.00	10.9	Upper Marker	113.00

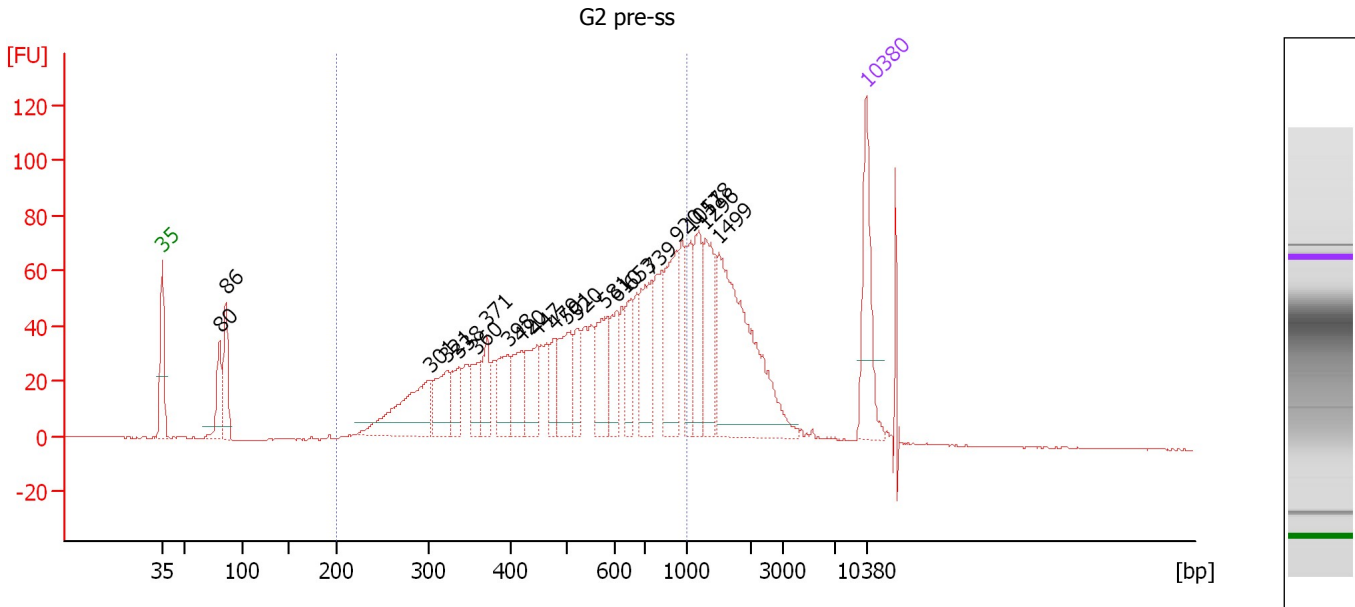
**Region table for sample 6 : S pre-ss**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	563	2,542.0	2,798.39	9,061.3	70	35.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : G2 pre-ss**

Number of peaks found: 22                      Corr. Area 1: 1,358.7  
 Noise: 0.2

**Peak table for sample 7 : G2 pre-ss**

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	80	64.38	1,212.8		48.72
3	86	69.97	1,230.9		49.35
4	301	122.29	616.6		69.58
5	321	57.16	269.8		71.22
6	338	39.65	178.0		72.55
7	360	35.35	148.8		74.35
8	371	41.26	168.3		75.25
9	398	55.39	210.9		77.36
10	420	48.57	175.1		78.69
11	447	56.46	191.3		80.22
12	479	31.42	99.5		82.02
13	501	67.44	204.0		83.30
14	520	33.18	96.6		84.20
15	581	63.91	166.8		87.00
16	610	46.09	114.4		88.22
17	653	43.29	100.5		89.54
18	739	76.41	156.6		91.56
19	920	90.36	148.9		94.04
20	1,051	45.09	65.0		95.47
21	1,178	58.40	75.1		96.27
22	1,296	73.36	85.8		97.01
23	1,499	216.00	218.4		98.28
24	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**

... Region table for sample 7 :

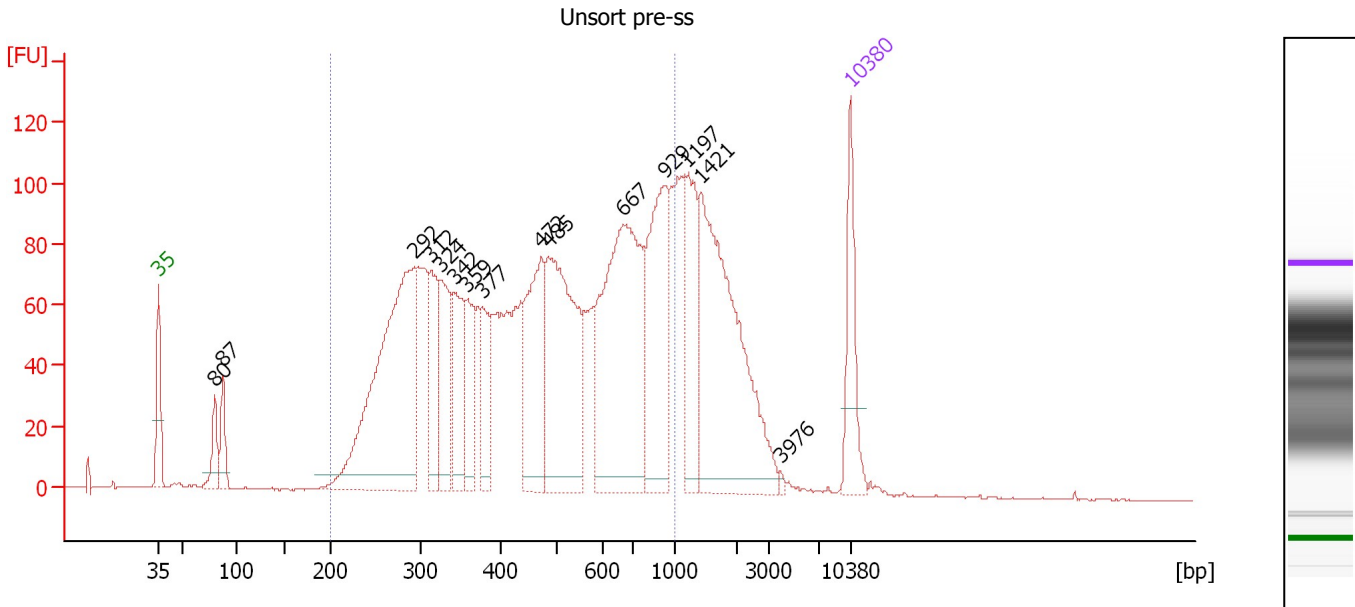
G2 pre-ss

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	560	1,358.7	1,352.47	4,464.8	 68	36.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Unsort pre-ss**

Number of peaks found: 15                      Corr. Area 1: 2,727.6  
 Noise: 0.2

**Peak table for sample 8 : Unsort pre-ss**

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	80	54.93	1,041.3		48.66
3	87	55.86	970.8		49.47
4	292	514.54	2,667.5		68.83
5	312	110.82	538.1		70.50
6	324	124.46	582.9		71.42
7	342	117.95	523.0		72.88
8	359	86.70	366.3		74.22
9	377	75.45	302.8		75.73
10	472	179.19	574.9		81.67
11	485	306.03	956.9		82.37
12	667	404.79	920.2		89.97
13	929	201.88	329.1		94.18
14	1,197	108.22	136.9		96.39
15	1,421	347.51	370.6		97.79
16	3,976	3.00	1.1		105.88
17	10,380	75.00	10.9	Upper Marker	113.00

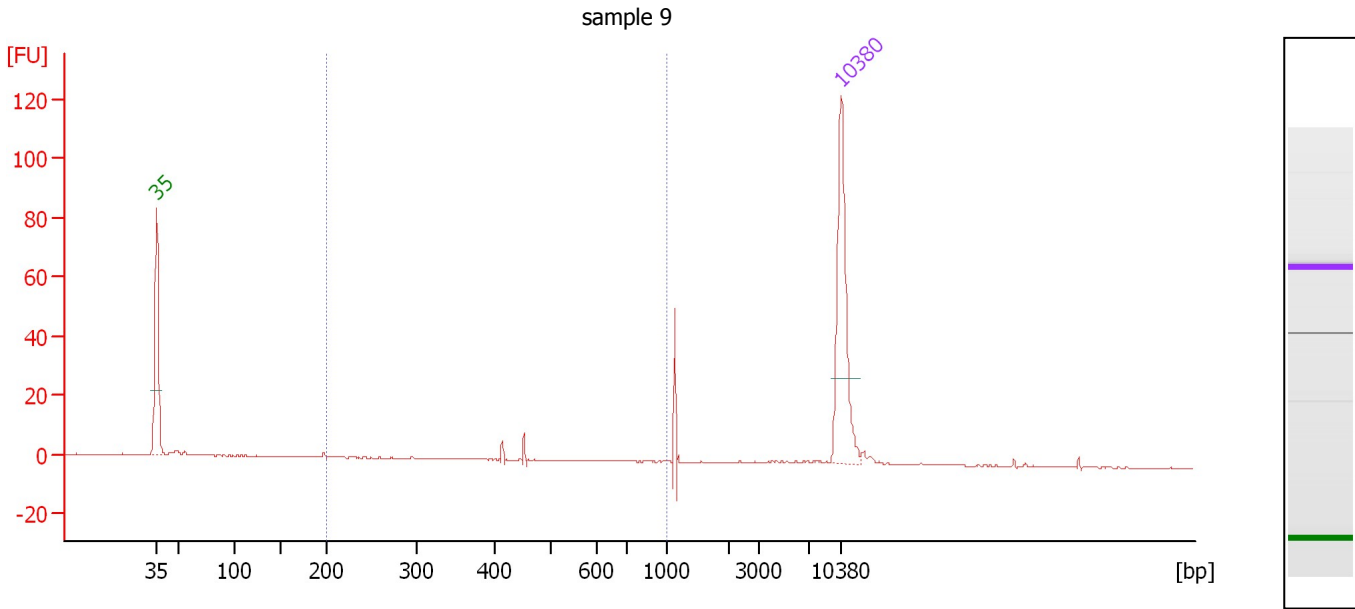
**Region table for sample 8 : Unsort pre-ss**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	503	2,727.6	2,730.60	10,293.0	77	40.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
 Modified: 4/2/2018 12:10:50 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 10.7  
 Noise: 0.2

**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

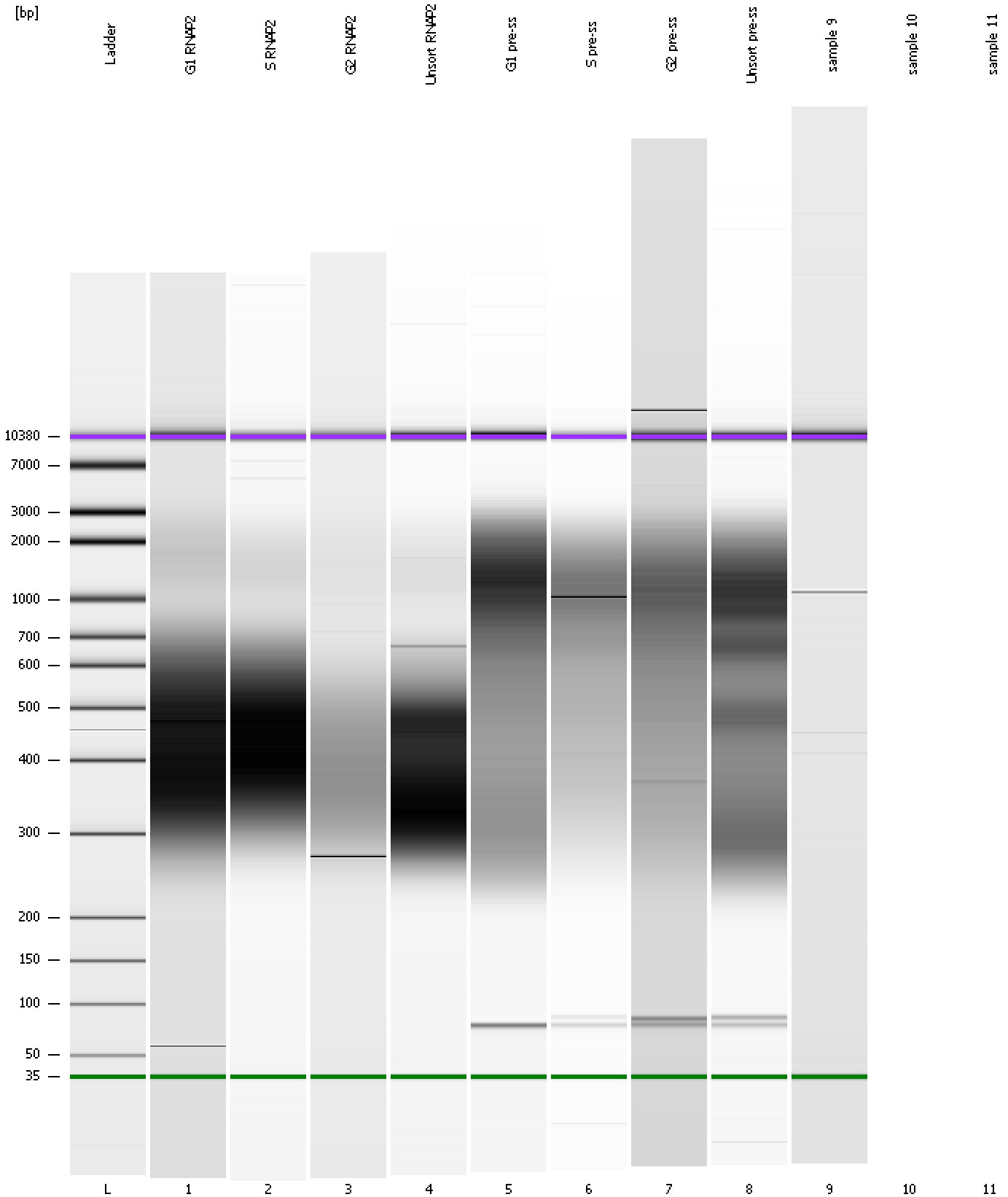
**Region table for sample 9 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	442	10.7	10.38	41.8	20	35.7

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
Modified: 4/2/2018 12:10:50 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-02\2018-04-02\_001.xad

Created: 4/2/2018 11:35:13 AM  
Modified: 4/2/2018 12:10:50 PM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.