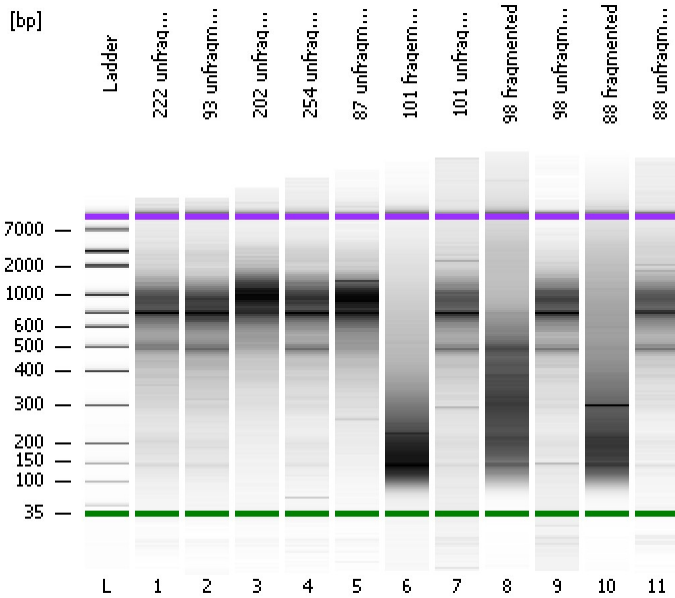


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
Modified: 11/6/2014 12:20:37 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

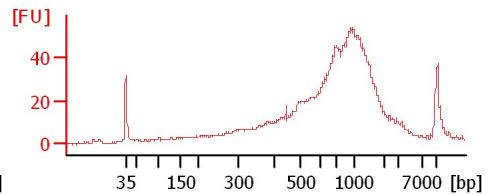
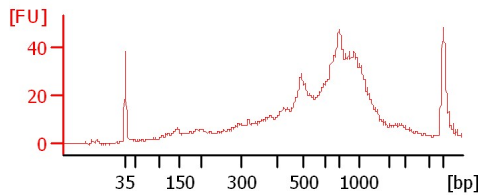
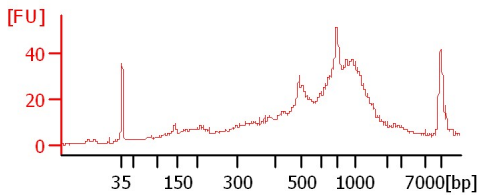
Chip Information:

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

222 unfragmented

93 unfragmented

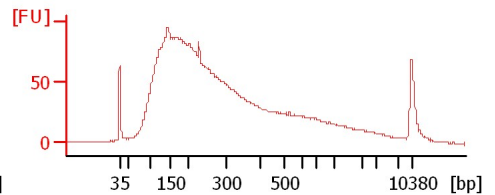
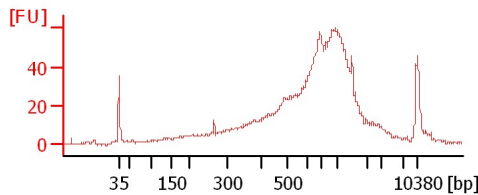
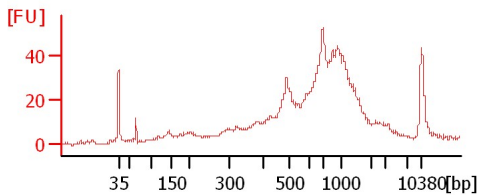
202 unfragmented



254 unfragmented

87 unfragmented

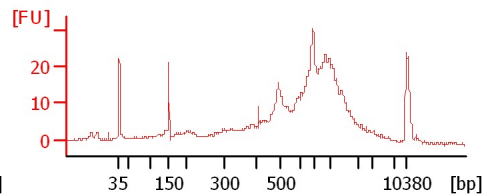
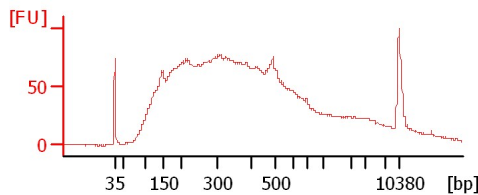
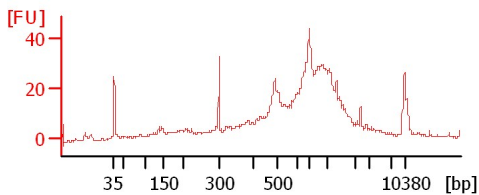
101 fragmented



101 unfragmented

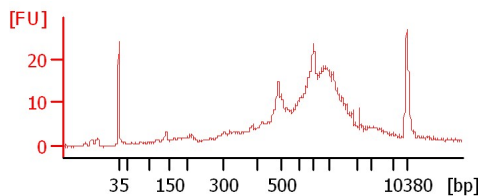
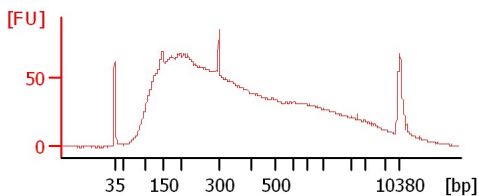
98 fragmented

98 unfragmented



88 fragmented

88 unfragmented



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
222 unfragmented		<input type="checkbox"/>				
93 unfragmented		<input type="checkbox"/>				
202 unfragmented		<input type="checkbox"/>				
254 unfragmented		<input type="checkbox"/>				
87 unfragmented		<input type="checkbox"/>				
101 fragmented		<input type="checkbox"/>				
101 unfragmented		<input type="checkbox"/>				
98 fragmented		<input type="checkbox"/>				
98 unfragmented		<input type="checkbox"/>				
88 fragmented		<input type="checkbox"/>				
88 unfragmented		<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\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 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

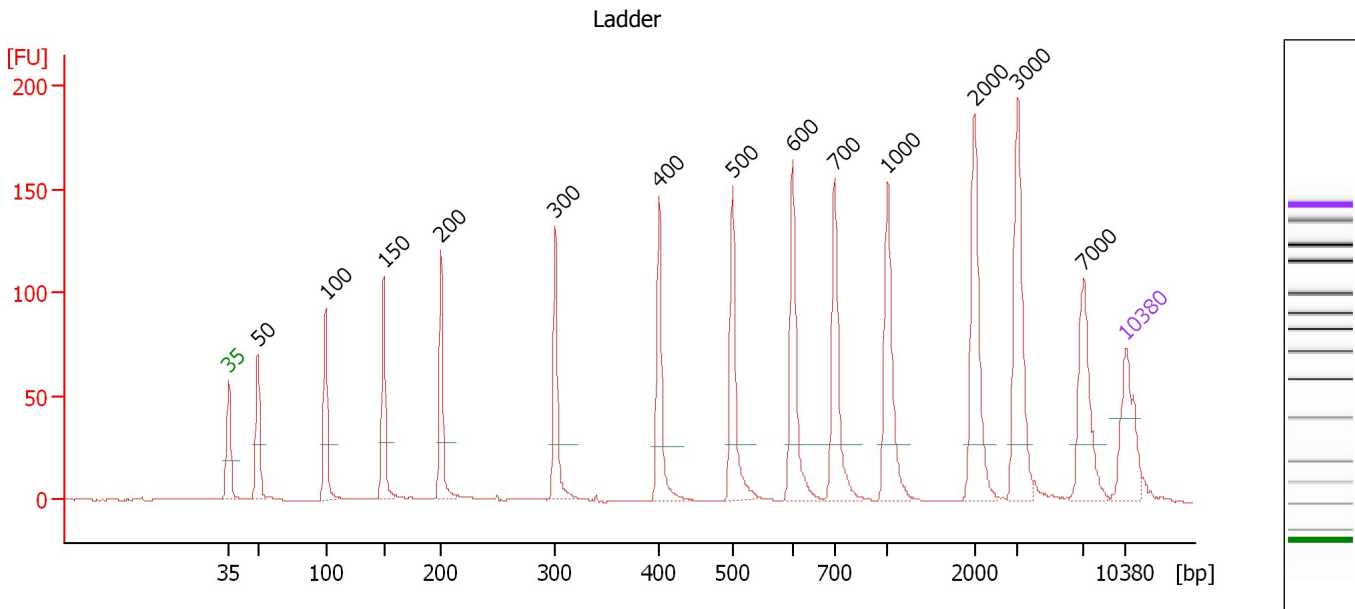
**Ladder**

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\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

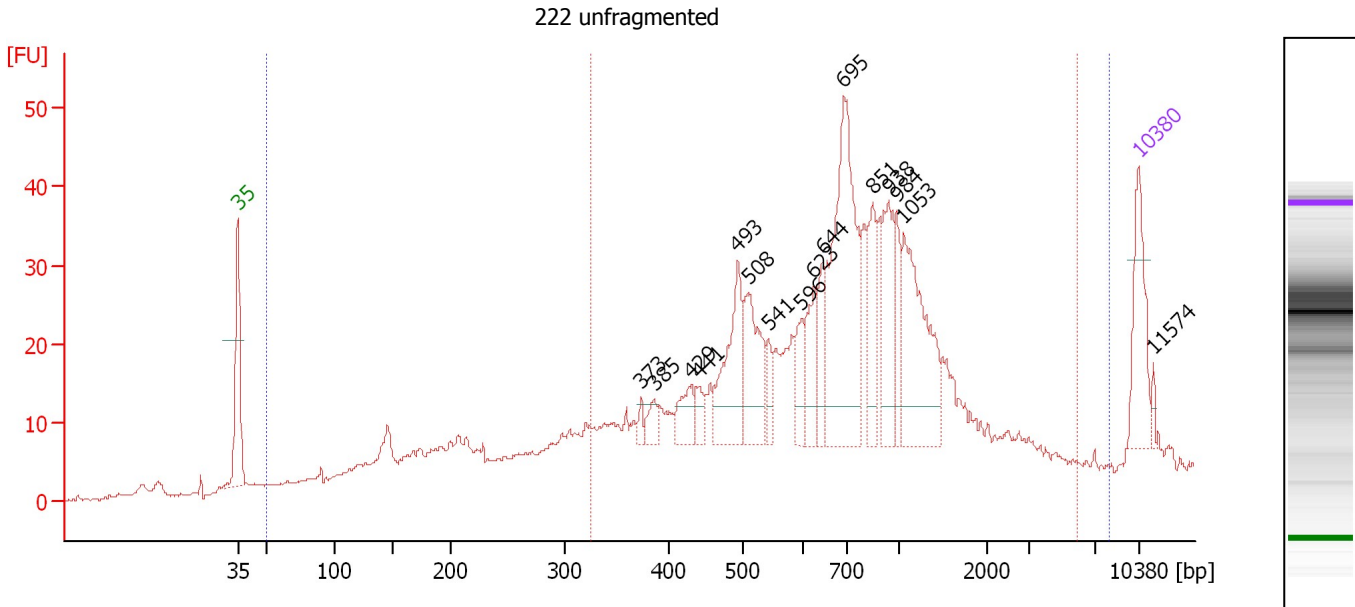
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 222 unfragmented**

Number of peaks found: 16      Corr. Area 1: 700.3  
 Noise: 0.2      Corr. Area 2: 889.7

**Peak table for sample 1 : 222 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	373	9.93	40.3	
3	385	21.52	84.6	
4	429	42.51	150.2	
5	441	21.22	73.0	
6	493	130.58	401.7	
7	508	113.58	339.0	
8	541	26.37	73.8	
9	596	38.19	97.1	
10	623	57.64	140.2	
11	644	47.88	112.6	
12	695	306.23	667.7	
13	851	74.80	133.2	
14	938	95.05	153.5	
15	984	45.08	69.4	
16	1,053	175.47	252.6	
17	10,380	75.00	10.9	Upper Marker
18	11,574	0.00	0.0	

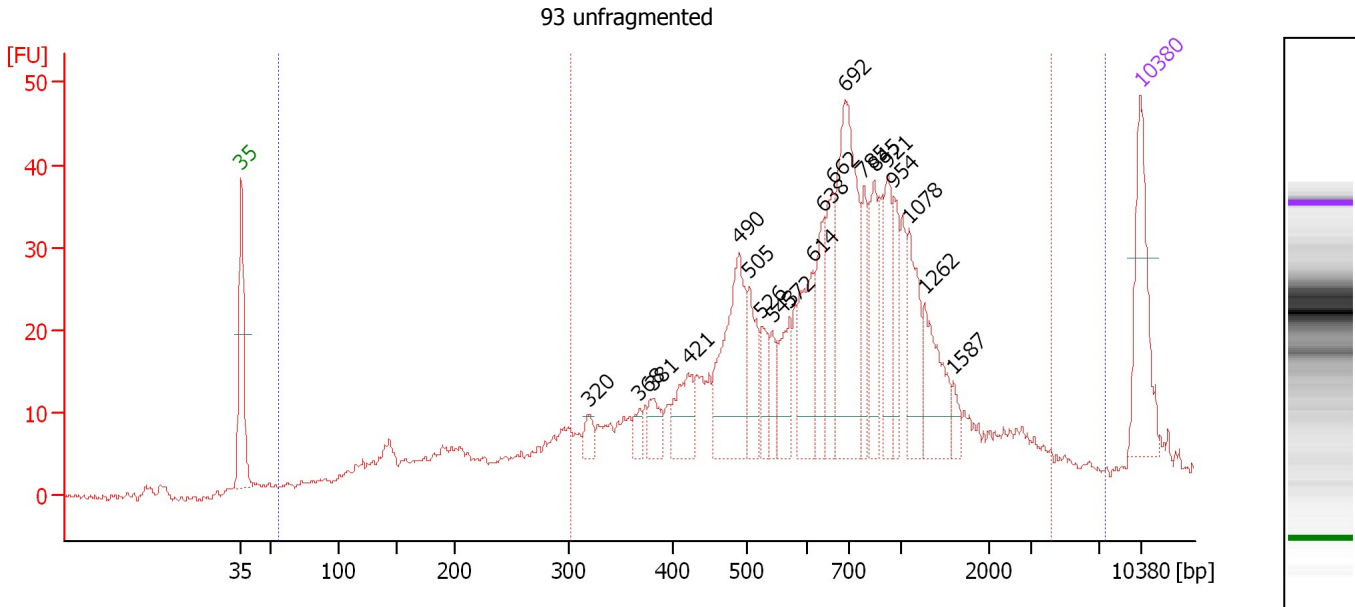
**Region table for sample 1 : 222 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
49	790	8,006	889.7	96	90.6	2,875.67	12,375.8	Blue
324	866	5,899	700.3	76	70.8	2,091.19	5,072.4	Red

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 93 unfragmented**

Number of peaks found: 20      Corr. Area 1: 725.6  
 Noise: 0.3      Corr. Area 2: 863.0

**Peak table for sample 2 : 93 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	320	16.95	80.2	
3	368	15.00	61.7	
4	381	26.50	105.3	
5	421	49.66	178.5	
6	490	138.55	428.3	
7	505	50.39	151.3	
8	526	29.59	85.2	
9	543	23.86	66.6	
10	572	44.05	116.7	
11	614	72.92	179.9	
12	638	47.86	113.6	
13	662	60.00	137.3	
14	692	195.46	427.7	
15	785	41.87	80.9	
16	845	56.88	102.0	
17	921	58.35	96.0	
18	954	36.62	58.2	
19	1,078	61.48	86.4	
20	1,262	61.99	74.4	
21	1,587	11.78	11.2	
22	10,380	75.00	10.9	Upper Marker

**Region table for sample 2 : 93 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
56	766	7,557	863.0	98	81.1	2,032.92	7,860.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary Continued ...**

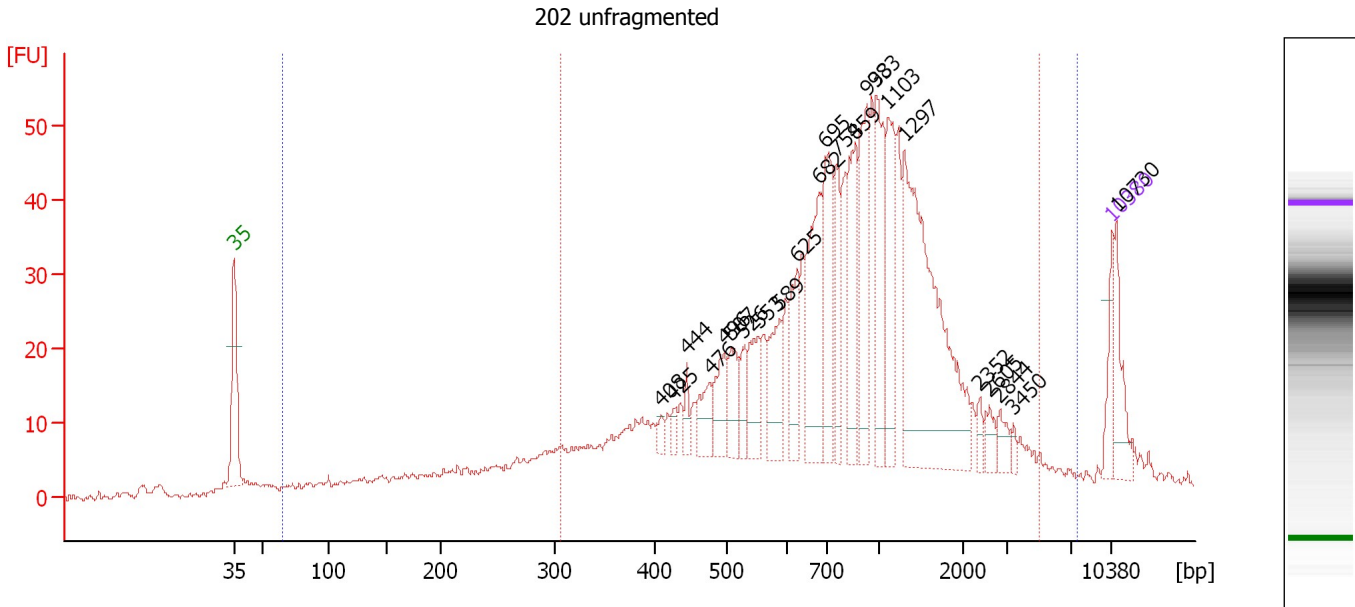
... Region table for sample 2 : 93 unfragmented

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
302	802	4,108	725.6	83	61.3	1,613.88	4,091.2	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 202 unfragmented**

Number of peaks found: 23                      Corr. Area 1: 857.2  
 Noise: 0.3                                      Corr. Area 2: 939.4

**Peak table for sample 3 : 202 unfragmented**



Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	408	25.81	95.8	
3	425	30.03	107.0	
4	444	39.97	136.4	
5	476	97.08	308.7	
6	496	121.80	371.7	
7	507	107.32	321.0	
8	526	66.34	190.9	
9	553	129.38	354.7	
10	589	152.46	392.3	
11	625	143.67	348.1	
12	682	337.84	750.2	
13	695	279.09	608.2	
14	754	155.12	311.9	
15	859	263.02	464.0	
16	933	256.70	416.8	
17	983	255.72	394.2	
18	1,103	228.92	314.4	
19	1,297	787.16	919.3	
20	2,352	26.75	17.2	
21	2,605	38.04	22.1	
22	2,844	38.75	20.6	
23	3,450	15.51	6.8	
24	10,380	75.00	10.9	Upper Marker
25	10,730	0.00	0.0	



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
Modified: 11/6/2014 12:20:37 PM

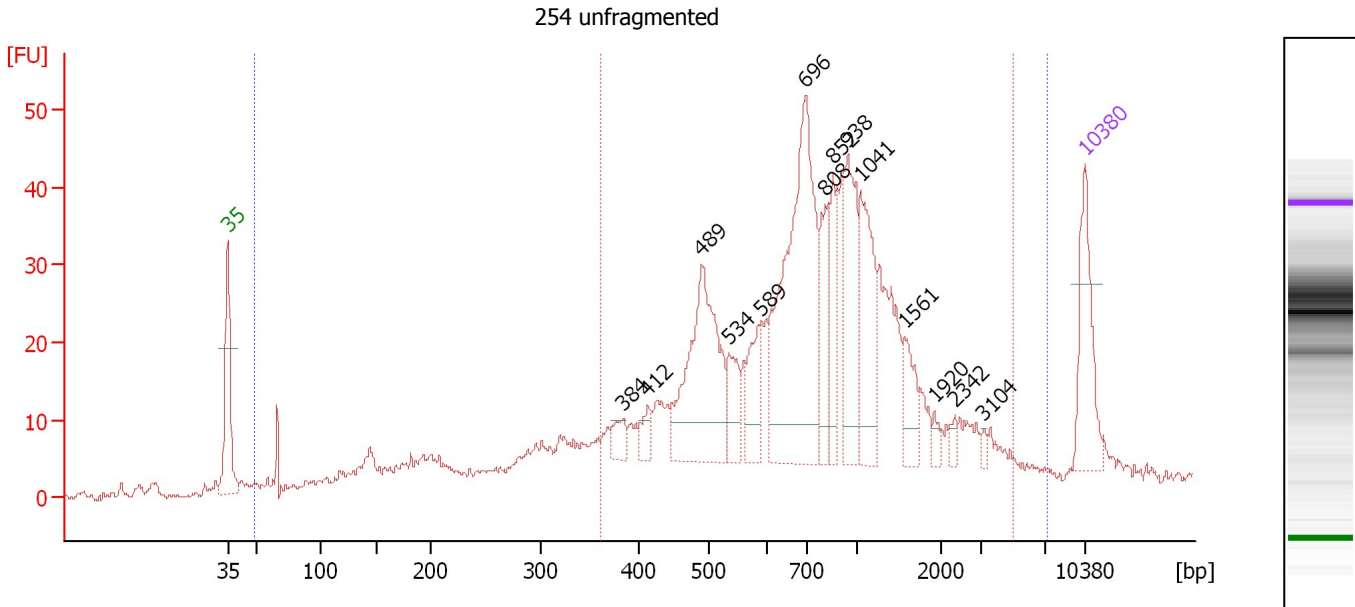
**Electropherogram Summary Continued ...****... Region table for sample 3 : 202 unfragmented**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Molarity [pmol/l]</b>	<b>Color</b>
65	956	7,559	939.4	95	69.9	6,044.12	17,712.1	
306	989	5,091	857.2	87	62.2	5,327.69	11,560.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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 Modified: 11/6/2014 12:20:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 254 unfragmented**

Number of peaks found: 14                      Corr. Area 1: 710.2  
 Noise: 0.5                                      Corr. Area 2: 865.4

**Peak table for sample 4 : 254 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	384	23.87	94.2	
3	412	21.09	77.5	
4	489	229.98	712.5	
5	534	47.83	135.7	
6	589	58.85	151.3	
7	696	360.80	785.4	
8	808	66.85	125.4	
9	852	55.66	99.0	
10	938	111.07	179.5	
11	1,041	108.01	157.2	
12	1,561	38.89	37.8	
13	1,920	8.60	6.8	
14	2,342	7.54	4.9	
15	3,104	4.86	2.4	
16	10,380	75.00	10.9	Upper Marker

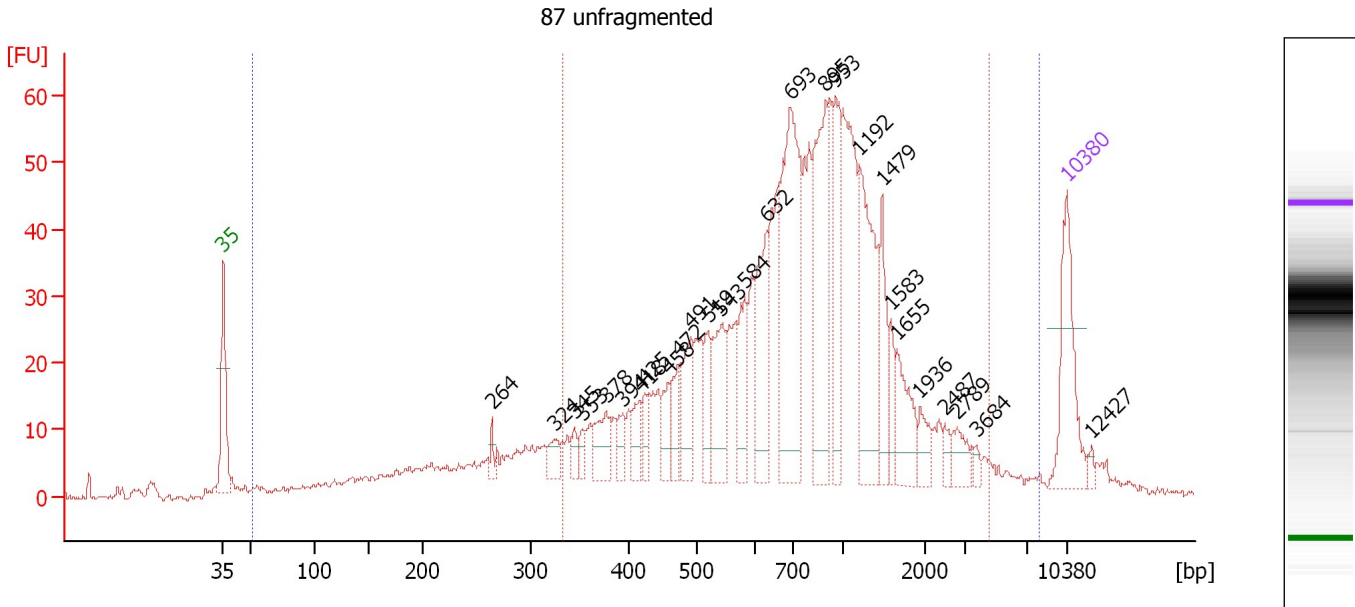
**Region table for sample 4 : 254 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	875	7,141	865.4	97	82.9	2,192.61	8,236.3	Blue
362	935	4,938	710.2	80	65.7	1,687.34	3,732.4	Red

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 87 unfragmented**

Number of peaks found: 27                      Corr. Area 1: 1,030.5  
 Noise: 0.5    Corr. Area 2: 1,201.4

**Peak table for sample 5 : 87 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	10.18	58.4	
3	324	19.35	90.6	
4	345	13.51	59.3	
5	353	13.01	55.9	
6	378	38.63	155.0	
7	394	18.51	71.1	
8	418	25.62	92.9	
9	425	22.19	79.2	
10	458	28.50	94.3	
11	472	32.95	105.7	
12	491	58.21	179.7	
13	519	34.75	101.5	
14	543	66.72	186.0	
15	584	48.91	126.9	
16	632	90.15	216.1	
17	693	217.31	475.3	
18	895	149.48	253.0	
19	953	84.48	134.3	
20	1,192	127.90	162.6	
21	1,479	46.03	47.2	
22	1,583	22.14	21.2	
23	1,655	46.17	42.3	
24	1,936	19.09	14.9	
25	2,487	9.42	5.7	
26	2,789	18.72	10.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad



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 Modified: 11/6/2014 12:20:37 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : 87 unfragmented

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,684	5.09	2.1	
28	10,380	75.00	10.9	Upper Marker
29	12,427	0.00	0.0	

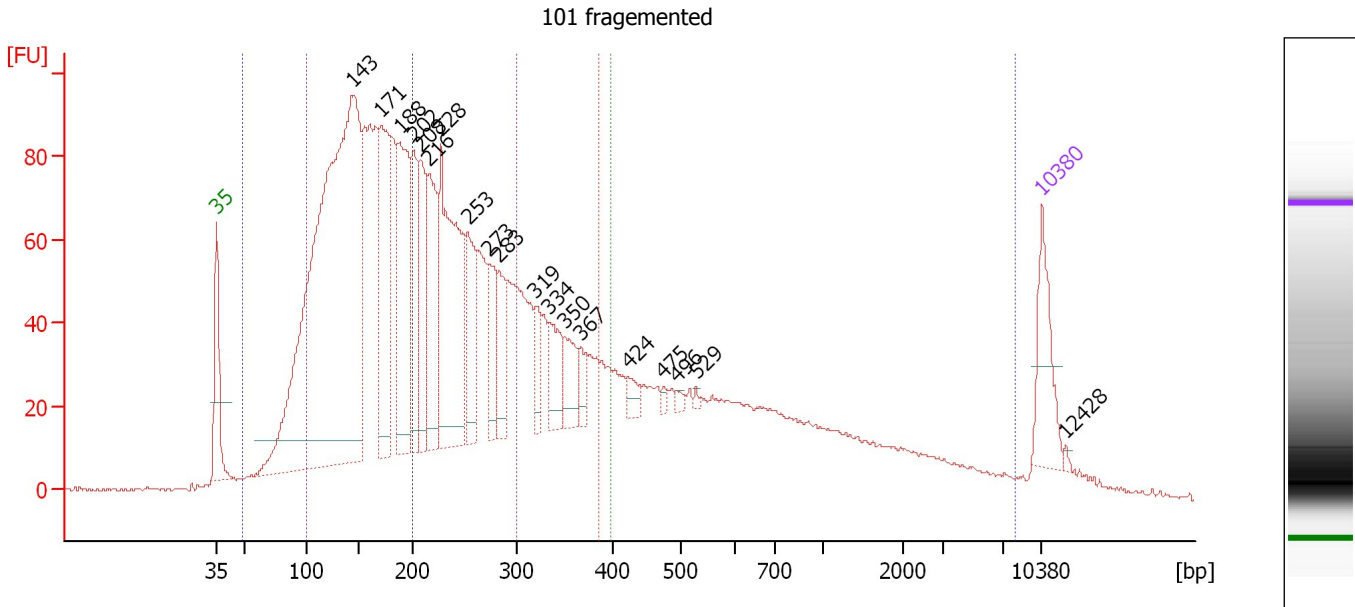
#### Region table for sample 5 : 87 unfragmented

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
51	923	8,050	1,201.4	97	88.1	2,442.56	7,980.5	
334	927	4,485	1,030.5	84	62.0	1,999.03	4,485.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 101 fragmented**

Number of peaks found:	19	Corr. Area 3:	3,486.6
Noise:	0.4	Corr. Area 4:	904.2
Corr. Area 1:	2,799.9	Corr. Area 5:	2,243.3
Corr. Area 2:	640.4		






**Peak table for sample 6 : 101 fragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	143	1,586.46	16,836.2	
3	171	269.61	2,394.5	
4	188	282.71	2,273.7	
5	202	136.70	1,024.8	
6	208	169.25	1,231.9	
7	216	182.17	1,276.2	
8	228	391.37	2,601.8	
9	253	131.67	787.9	
10	273	82.21	456.3	
11	283	75.85	406.7	
12	319	46.15	219.3	
13	334	72.77	330.2	
14	350	57.26	247.7	
15	367	25.25	104.2	
16	424	19.98	71.4	
17	475	6.66	21.2	
18	496	6.57	20.1	
19	529	3.66	10.5	
20	10,380	75.00	10.9	Upper Marker
21	12,428	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
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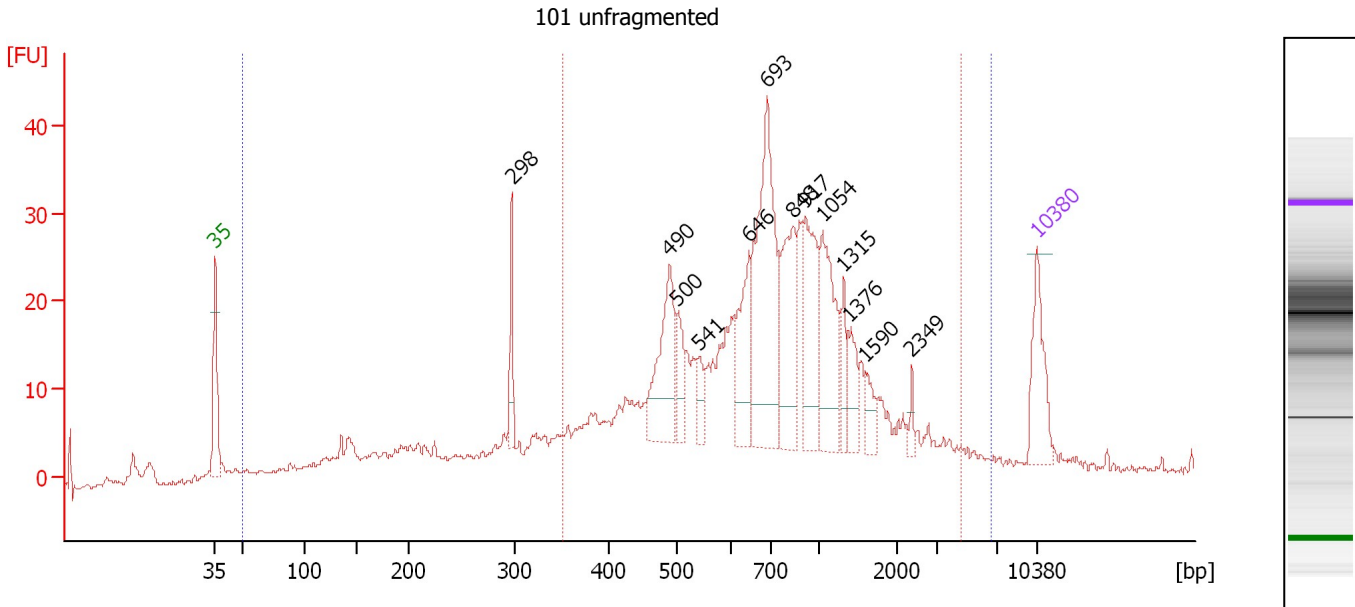
**Electropherogram Summary Continued ...****... Region table for sample 6 : 101 fragemented**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/μl]</b>	<b>Molarity [pmol/l]</b>	<b>Color</b>
49	211	385	2,799.9	79	37.1	5,462.56	48,806.8	
49	446	8,136	3,486.6	99	100.0	6,423.60	51,207.9	
100	193	300	2,243.3	64	28.2	4,447.22	39,171.6	
200	245	300	904.2	26	11.8	1,653.11	10,226.8	
399	1,138	8,136	640.4	18	100.0	889.49	2,124.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 101 unfragmented**

Number of peaks found: 13                      Corr. Area 1: 559.6  
 Noise: 0.3                                      Corr. Area 2: 723.4

**Peak table for sample 7 : 101 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	54.89	279.5	
3	490	160.93	497.7	
4	500	54.74	165.8	
5	541	31.97	89.5	
6	646	108.06	253.6	
7	693	316.15	691.7	
8	848	153.20	273.8	
9	917	144.48	238.7	
10	1,054	132.91	191.1	
11	1,315	35.34	40.7	
12	1,376	43.61	48.0	
13	1,590	28.53	27.2	
14	2,349	11.15	7.2	
15	10,380	75.00	10.9	Upper Marker

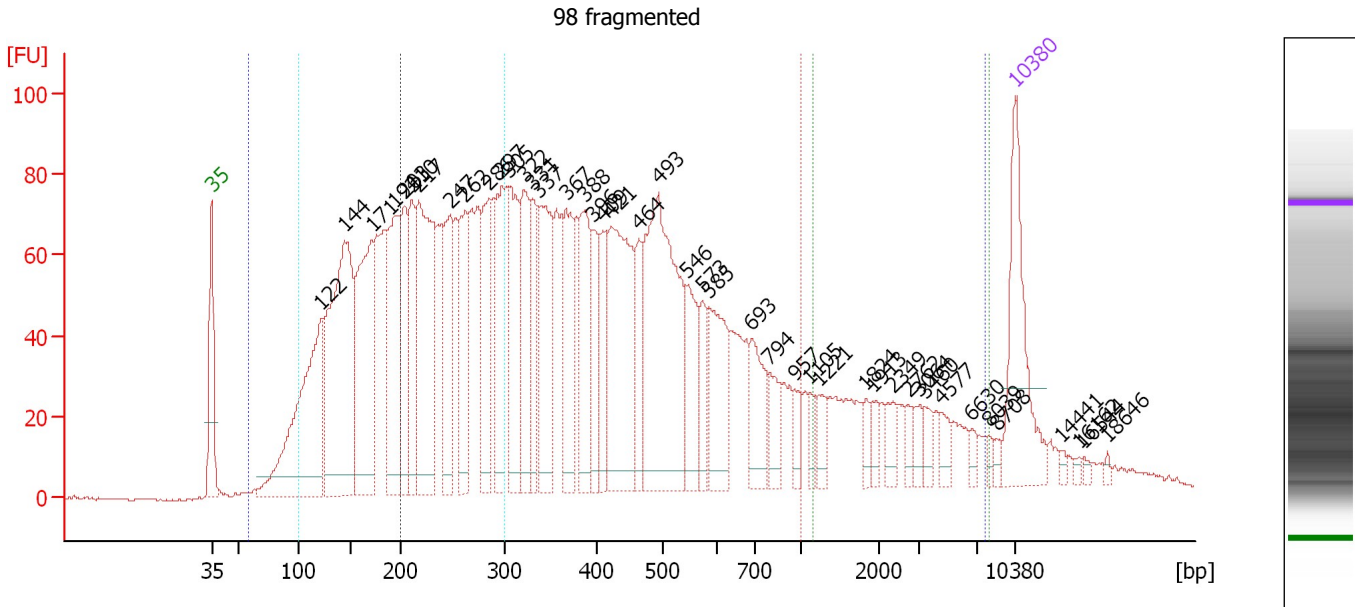
**Region table for sample 7 : 101 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	843	6,615	723.4	94	90.4	3,115.88	13,033.3	Blue
352	902	4,576	559.6	73	64.8	2,225.54	5,079.7	Red

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 98 fragmented**

Number of peaks found:	44	Corr. Area 3:	3,987.3
Noise:	0.3	Corr. Area 4:	974.3
Corr. Area 1:	3,678.8	Corr. Area 5:	1,820.6
Corr. Area 2:	285.2		

**Peak table for sample 8 : 98 fragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	122	245.49	3,047.7	
3	144	301.72	3,173.0	
4	171	182.47	1,615.8	
5	194	138.86	1,084.1	
6	203	83.90	626.5	
7	210	78.28	564.3	
8	217	191.46	1,337.1	
9	247	91.77	562.8	
10	262	85.04	491.5	
11	286	88.15	467.8	
12	297	93.51	476.3	
13	305	95.84	475.7	
14	322	87.23	410.5	
15	331	54.35	249.1	
16	337	116.32	523.1	
17	367	73.46	303.4	
18	388	79.78	311.9	
19	396	41.89	160.2	
20	409	44.26	163.9	
21	421	159.61	575.0	
22	464	40.57	132.4	
23	493	223.11	685.2	
24	546	51.74	143.5	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad






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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : 98 fragmented**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
25	573	28.36	75.0	
26	585	70.84	183.5	
27	693	46.33	101.3	
28	794	22.87	43.6	
29	957	13.28	21.0	
30	1,105	9.94	13.6	
31	1,221	13.22	16.4	
32	1,824	8.56	7.1	
33	1,913	10.15	8.0	
34	2,349	11.42	7.4	
35	2,762	7.60	4.2	
36	3,064	9.62	4.8	
37	3,460	9.33	4.1	
38	4,577	10.17	3.4	
39	6,630	5.03	1.1	
40	8,039	4.03	0.8	
41	8,708	3.75	0.7	
42	10,380	75.00	10.9	Upper Marker
43	14,441	0.00	0.0	
44	16,162	0.00	0.0	
45	16,544	0.00	0.0	
46	18,646	0.00	0.0	

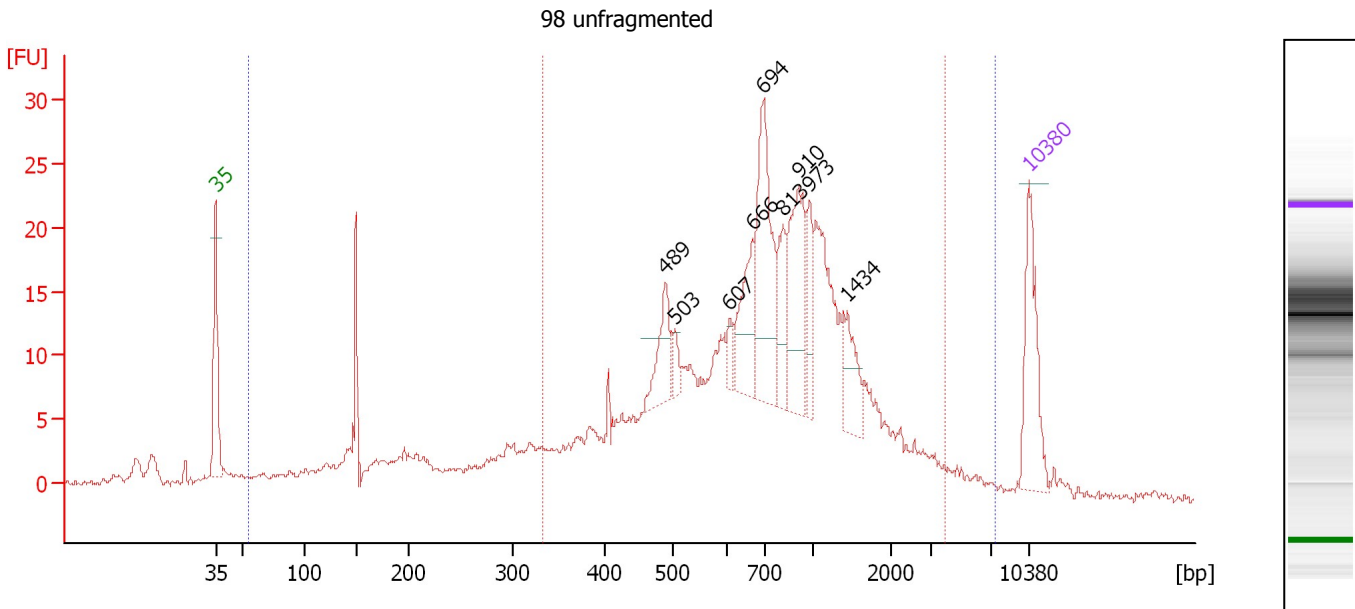
**Region table for sample 8 : 98 fragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
59	356	1,000	3,678.8	91	50.0	3,429.68	21,696.9	
59	624	7,701	3,987.3	98	100.0	3,622.24	21,840.6	
100	210	300	1,820.6	45	26.1	1,882.04	15,158.2	
200	250	300	974.3	24	11.8	945.55	5,734.3	
1,156	2,992	8,008	285.2	7	59.7	176.71	119.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 98 unfragmented**

Number of peaks found: 9                      Corr. Area 1: 408.9  
 Noise: 0.2                                      Corr. Area 2: 501.3

**Peak table for sample 9 : 98 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	489	55.41	171.6	
3	503	16.13	48.6	
4	607	14.74	36.8	
5	666	70.90	161.3	
6	694	147.31	321.6	
7	813	50.55	94.2	
8	910	104.99	174.8	
9	973	40.47	63.0	
10	1,434	40.05	42.3	
11	10,380	75.00	10.9	Upper Marker

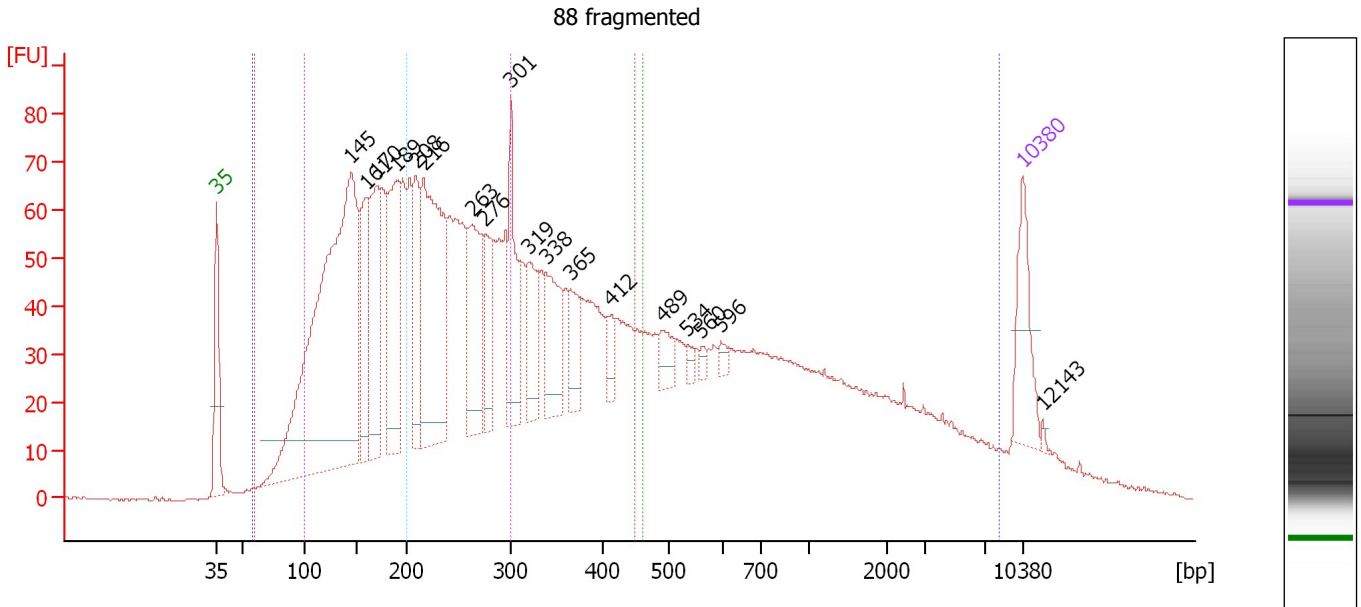
**Region table for sample 9 : 98 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
55	883	7,416	501.3	95	88.6	2,112.67	8,109.5	Blue
333	898	3,881	408.9	77	58.5	1,611.82	3,656.4	Red

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 88 fragmented**

Number of peaks found:	18	Corr. Area 3:	3,323.2
Noise:	0.3	Corr. Area 4:	821.1
Corr. Area 1:	2,468.8	Corr. Area 5:	1,735.1
Corr. Area 2:	827.1		






**Peak table for sample 10 : 88 fragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	145	1,058.69	11,042.2	
3	161	163.87	1,544.1	
4	170	205.54	1,835.8	
5	189	231.20	1,849.3	
6	208	136.14	991.1	
7	216	404.49	2,838.7	
8	263	170.32	983.0	
9	276	94.65	519.6	
10	301	129.77	653.3	
11	319	95.68	454.0	
12	338	115.84	518.9	
13	365	54.69	227.2	
14	412	29.43	108.3	
15	489	34.37	106.5	
16	534	9.60	27.2	
17	560	8.31	22.5	
18	596	10.46	26.6	
19	10,380	75.00	10.9	Upper Marker
20	12,143	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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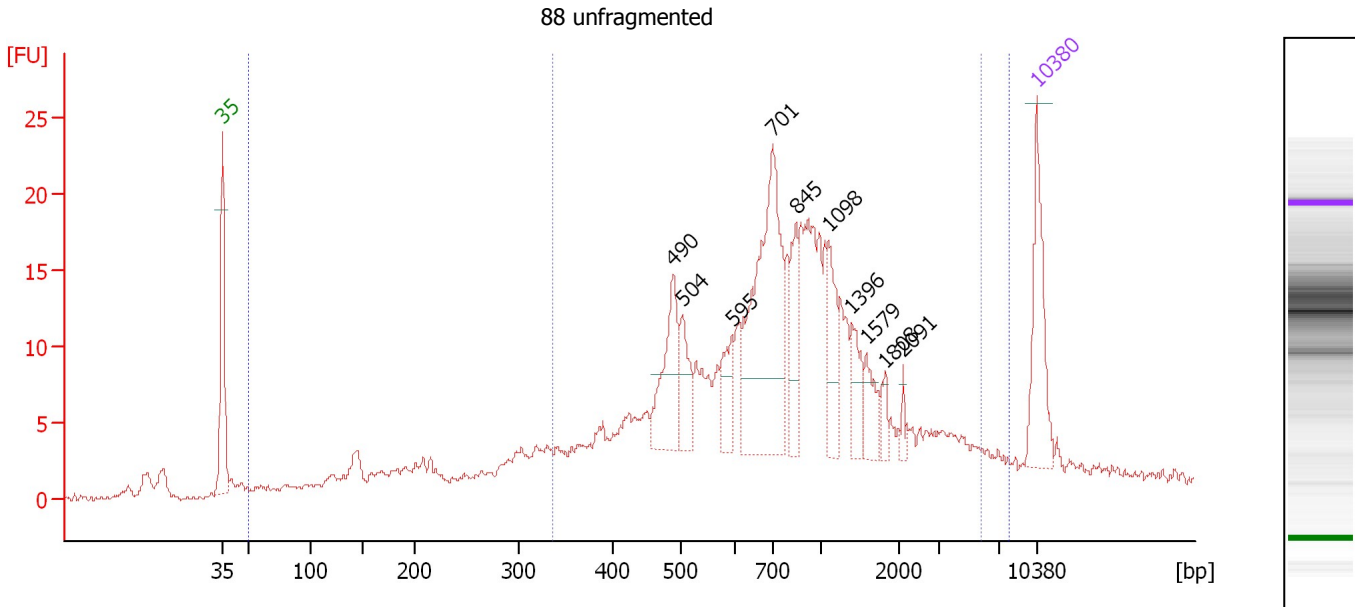
**Electropherogram Summary Continued ...****... Region table for sample 10 : 88 fragmented**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/μl]</b>	<b>Molarity [pmol/l]</b>	<b>Color</b>
57	662	8,266	3,323.2	98	100.0	6,436.76	43,105.1	
60	248	449	2,468.8	73	37.8	5,159.33	40,500.4	
100	202	300	1,735.1	51	27.2	3,784.64	31,810.3	
200	247	300	821.0	24	11.8	1,667.35	10,211.2	
459	1,506	8,266	827.1	24	100.0	1,230.33	2,388.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 88 unfragmented**

Number of peaks found: 10                      Corr. Area 1: 326.1  
 Noise: 0.2                                      Corr. Area 2: 377.9

**Peak table for sample 11 : 88 unfragmented**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	490	99.20	306.7	
3	504	52.27	157.3	
4	595	42.08	107.1	
5	701	274.33	592.7	
6	845	54.75	98.2	
7	1,098	52.24	72.0	
8	1,396	35.40	38.4	
9	1,579	27.73	26.6	
10	1,808	12.67	10.6	
11	2,091	7.49	5.4	
12	10,380	75.00	10.9	Upper Marker

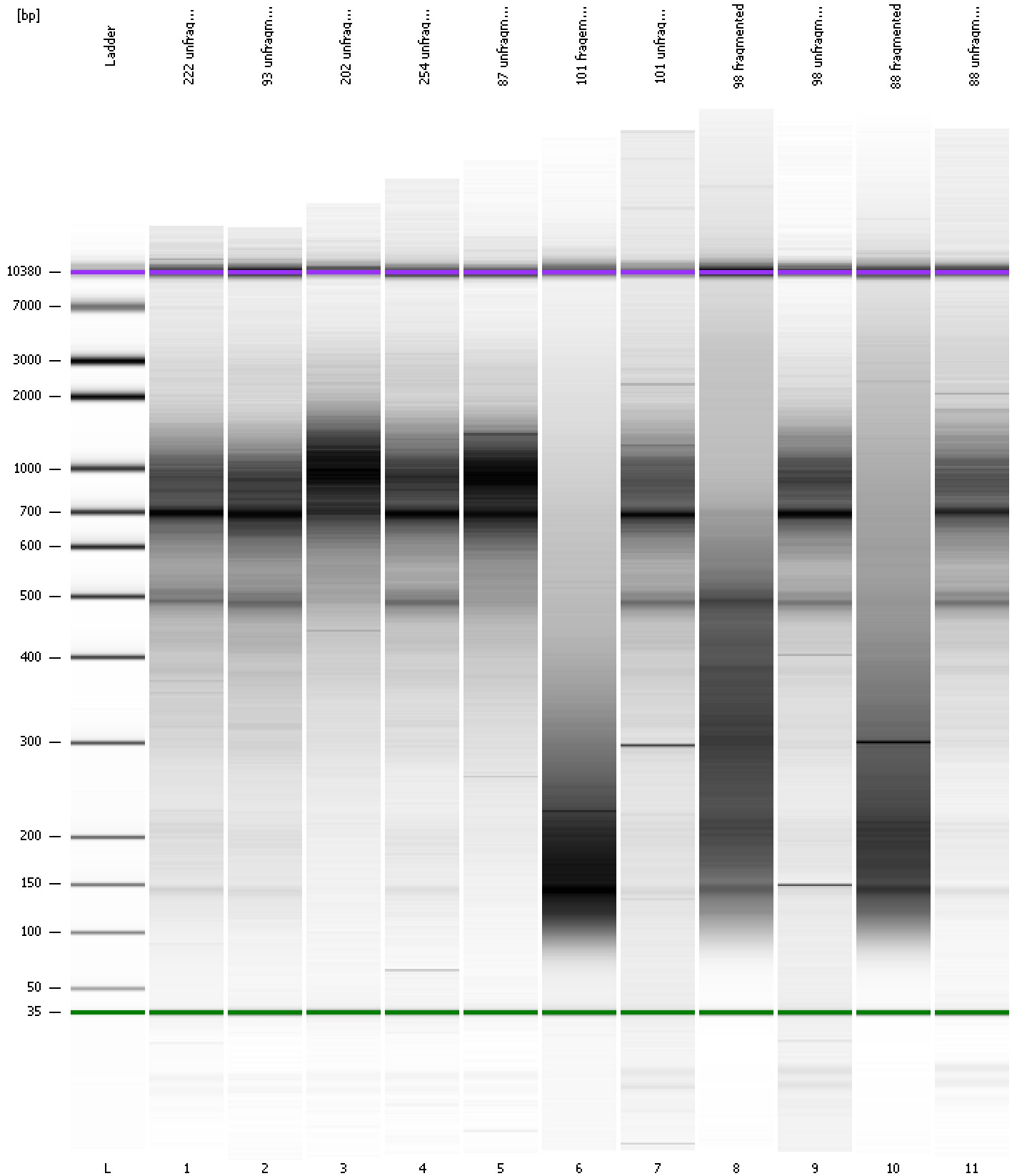
**Region table for sample 11 : 88 unfragmented**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
49	1,022	7,924	377.9	96	100.0	1,831.27	5,916.0	Blue
336	1,016	5,869	326.1	82	81.5	1,508.71	3,355.3	Dark Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06\_001.xad

Created: 11/6/2014 10:22:50 AM  
 Modified: 11/6/2014 12:20:37 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/6/2014 11:04:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-06\2014-11-06_001.xad)		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/6/2014 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1