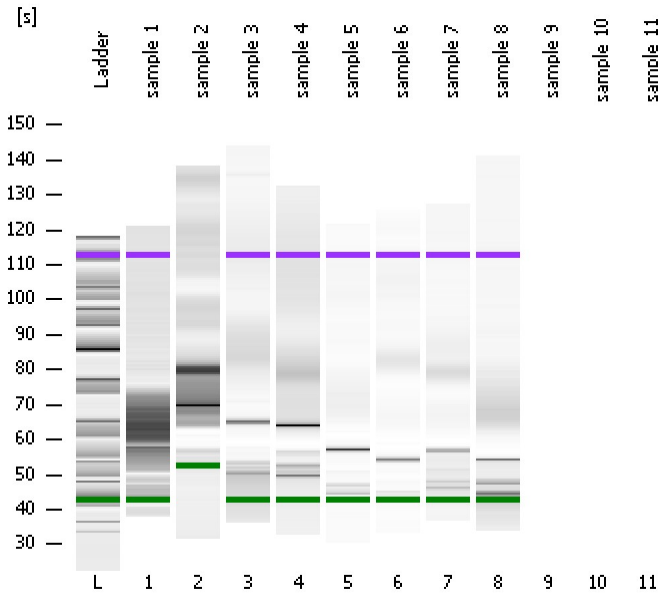


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 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

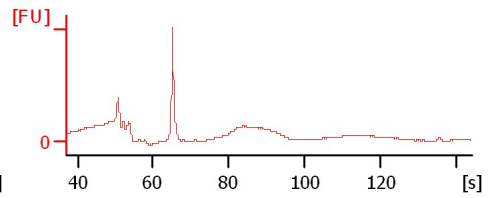
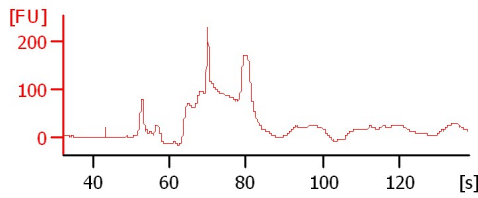
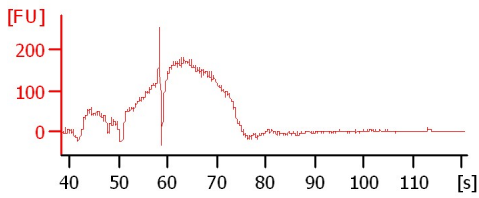
#### Chip Information:

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

sample 1

sample 2

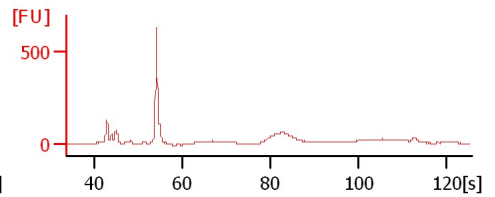
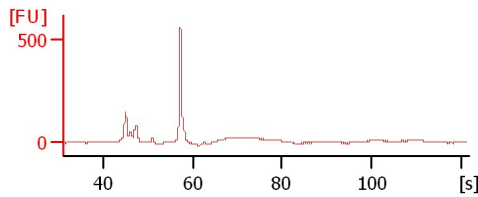
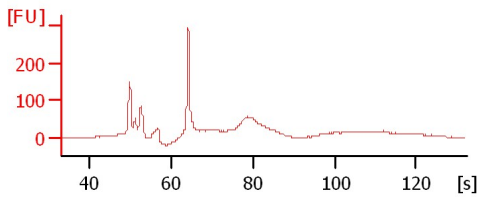
sample 3



sample 4

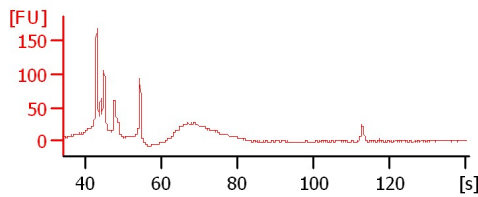
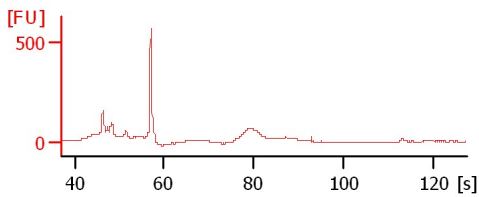
sample 5

sample 6



sample 7

sample 8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**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\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 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

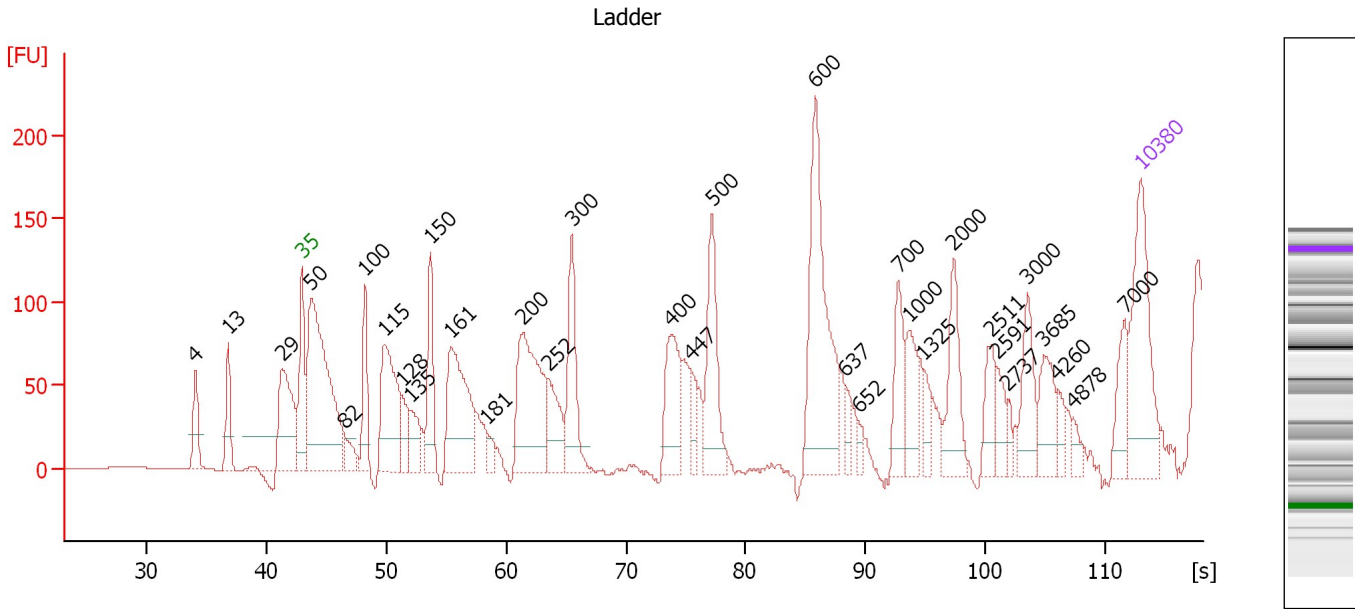
**Ladder**

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\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2




**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	4	0.00	0.0	
2	13	0.00	0.0	
3	29	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	50	150.00	4,545.5	Ladder Peak
6	82	0.00	0.0	
7	100	150.00	2,272.7	Ladder Peak
8	115	0.00	0.0	
9	128	0.00	0.0	
10	135	0.00	0.0	
11	150	150.00	1,515.2	Ladder Peak
12	161	0.00	0.0	
13	181	0.00	0.0	
14	200	150.00	1,136.4	Ladder Peak
15	252	0.00	0.0	
16	300	150.00	757.6	Ladder Peak
17	400	150.00	568.2	Ladder Peak
18	447	0.00	0.0	
19	500	150.00	454.5	Ladder Peak
20	600	150.00	378.8	Ladder Peak
21	637	0.00	0.0	
22	652	0.00	0.0	
23	700	150.00	324.7	Ladder Peak
24	1,000	150.00	227.3	Ladder Peak
25	1,325	0.00	0.0	
26	2,000	150.00	113.6	Ladder Peak
27	2,511	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 PM

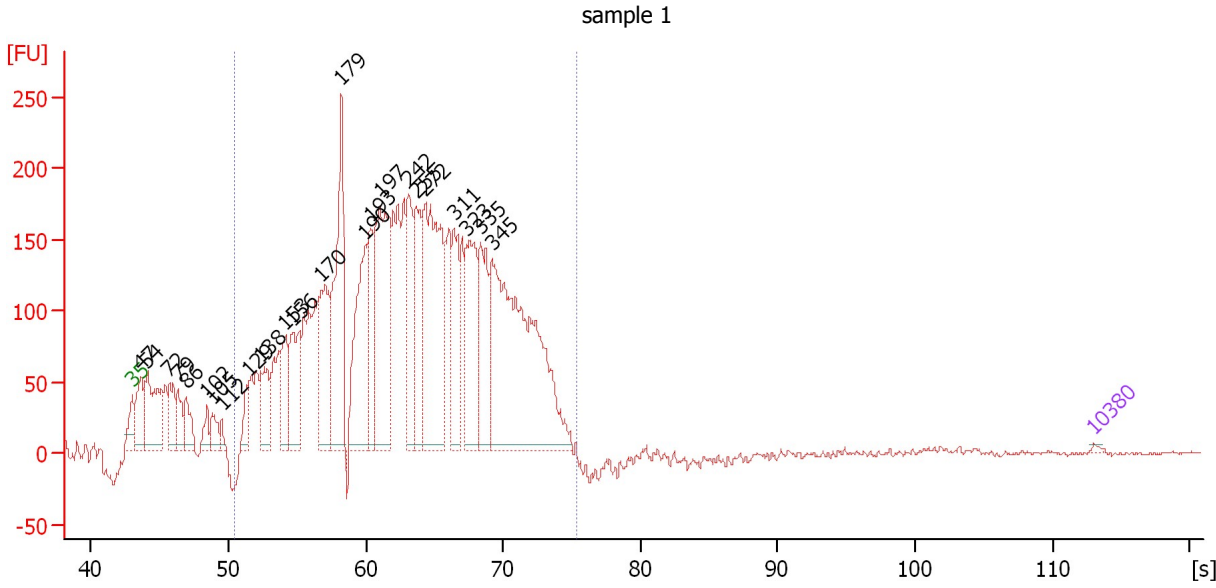
**Electropherogram Summary Continued ...****... Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
28	2,591	0.00	0.0	
29	2,737	0.00	0.0	
30	 3,000	150.00	75.8	Ladder Peak
31	3,685	0.00	0.0	
32	4,260	0.00	0.0	
33	4,878	0.00	0.0	
34	 7,000	150.00	32.5	Ladder Peak
35	 10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 24                      Corr. Area 1: 5,623.1  
 Noise: 0.8

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	4,404.95	141,208.9	
3	54	8,357.95	233,781.9	
4	72	3,396.53	71,604.9	
5	79	2,550.87	48,793.9	
6	86	2,785.62	49,256.8	
7	102	1,651.59	24,598.0	
8	105	1,740.68	25,044.8	
9	112	685.74	9,298.3	
10	129	2,065.83	24,283.2	
11	138	4,400.50	48,373.1	
12	153	4,728.49	46,893.8	
13	156	6,912.30	67,212.7	
14	170	9,173.15	81,870.1	
15	179	14,163.25	119,618.3	
16	190	11,864.92	94,466.8	
17	193	6,872.31	53,926.1	
18	197	15,325.52	117,631.5	
19	242	6,872.40	43,041.2	
20	255	7,421.53	44,037.9	
21	272	18,094.00	100,926.4	
22	311	5,863.02	28,560.8	
23	323	8,218.66	38,574.3	
24	335	6,632.70	29,991.8	
25	345	27,739.05	121,998.0	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**

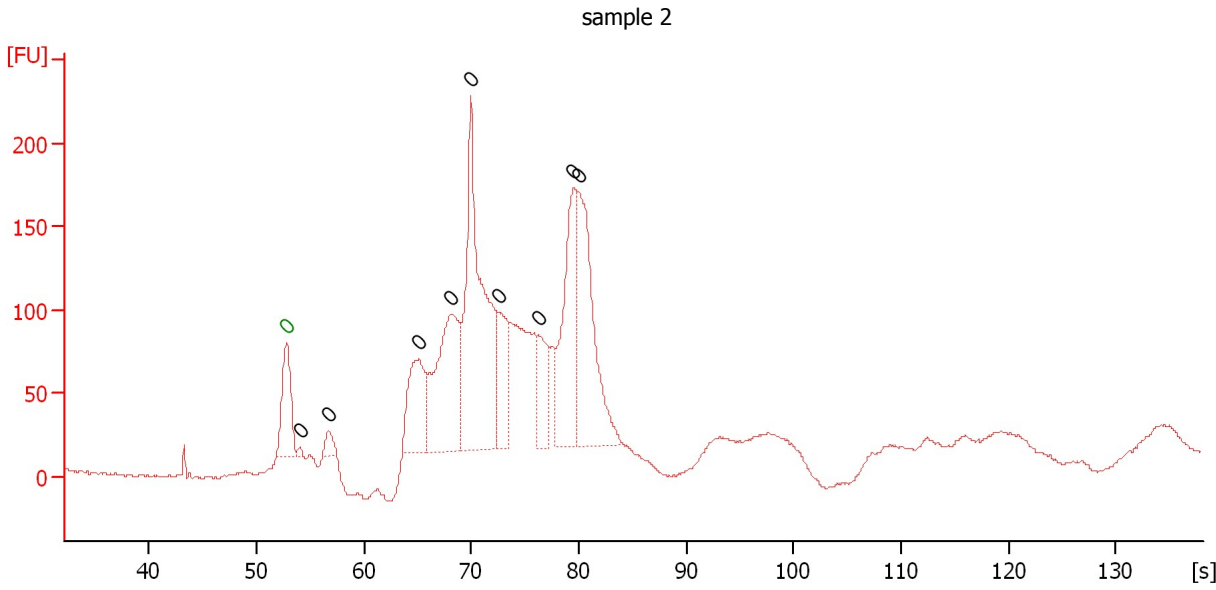
... Region table for sample 1 : sample 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
121	256	447	5,623.1	87	31.1	205,478.31	1,423,477.8	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 9                      Noise: 0.9

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

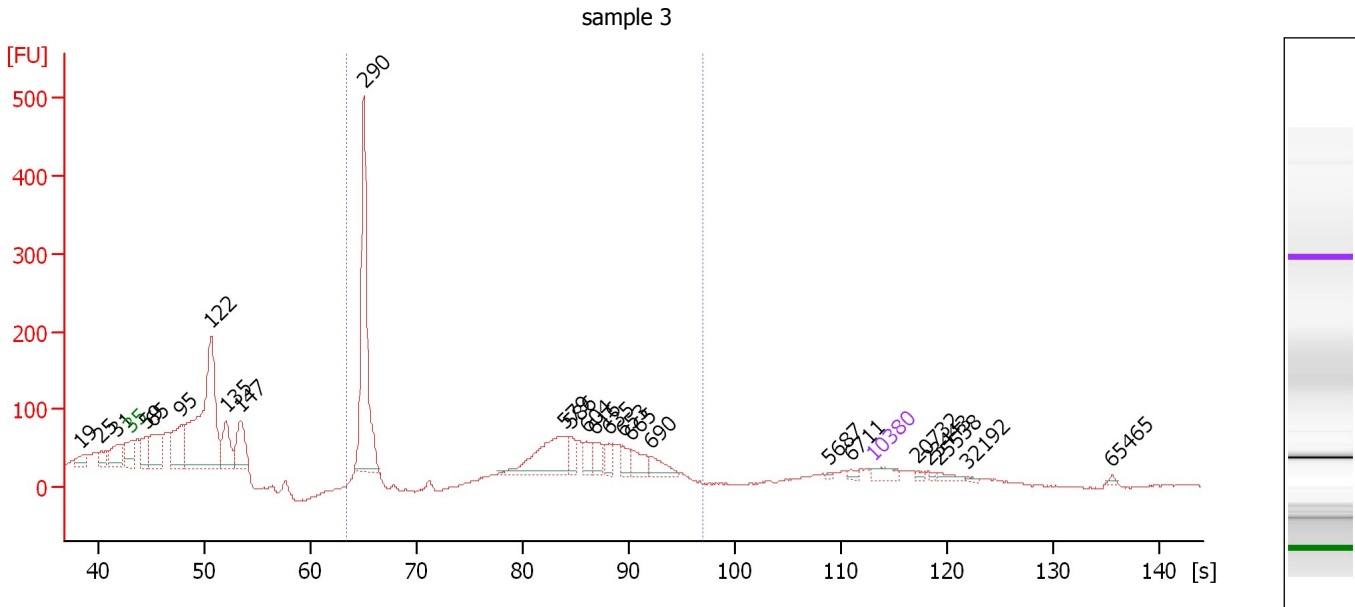
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 25                      Corr. Area 1: 1,017.4  
 Noise: 1.3

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	19	0.00	0.0	
2	25	0.00	0.0	
3	31	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	59	257.34	6,623.8	
6	65	555.51	12,944.9	
7	95	563.75	8,969.1	
8	122	2,480.49	30,807.2	
9	135	435.17	4,885.3	
10	147	469.32	4,821.8	
11	290	1,655.98	8,655.6	
12	579	562.94	1,472.0	
13	586	98.42	254.3	
14	604	127.49	320.0	
15	616	117.41	288.8	
16	635	113.46	270.7	
17	653	100.36	232.8	
18	665	154.02	351.0	
19	690	138.53	304.0	
20	5,687	10.41	2.8	
21	6,711	26.41	6.0	
22	10,380	75.00	10.9	Upper Marker
23	20,732	0.00	0.0	
24	23,443	0.00	0.0	
25	25,538	0.00	0.0	
26	32,192	0.00	0.0	


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
27	65,465	0.00	0.0	

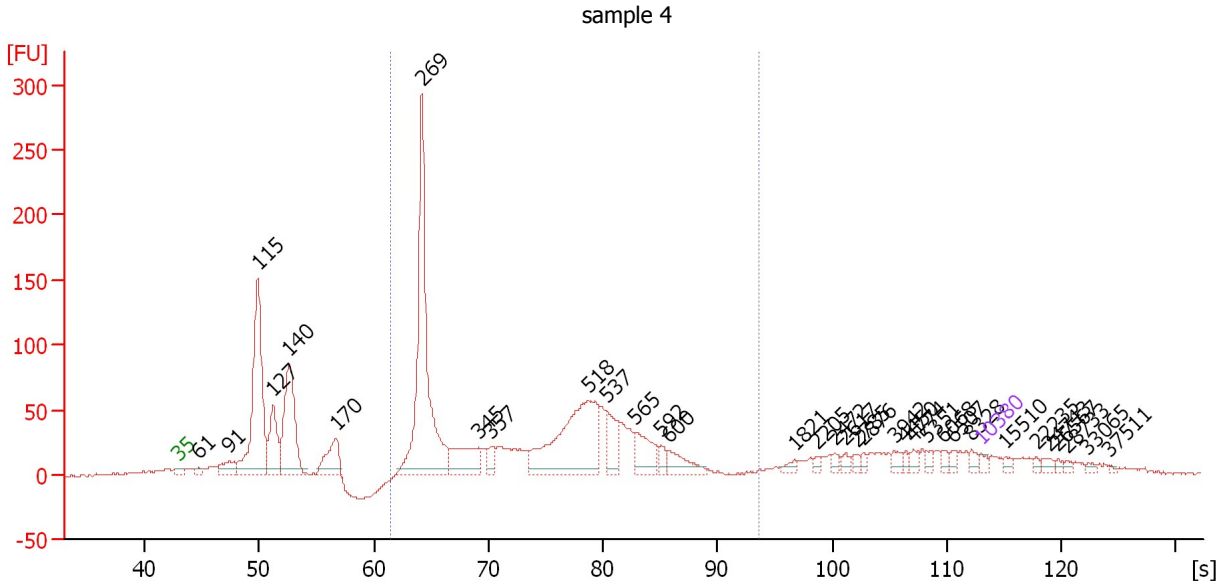
**Region table for sample 3 : sample 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
250	486	1,904	1,017.4	42	36.2	2,910.25	11,484.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 34                      Corr. Area 1: 1,287.6  
 Noise: 0.9

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	61	123.58	3,084.1	
3	91	448.12	7,483.3	
4	115	4,255.00	56,042.4	
5	127	1,187.52	14,116.0	
6	140	2,460.96	26,654.8	
7	170	823.53	7,358.2	
8	269	4,911.19	27,681.8	
9	345	856.11	3,764.6	
10	357	188.43	799.7	
11	518	2,764.68	8,093.8	
12	537	537.33	1,515.7	
13	565	621.02	1,664.0	
14	592	171.70	439.3	
15	600	376.43	950.0	
16	1,821	84.93	70.7	
17	2,205	61.37	42.2	
18	2,472	73.90	45.3	
19	2,617	71.26	41.3	
20	2,785	61.84	33.6	
21	2,876	64.32	33.9	
22	3,942	114.27	43.9	
23	4,450	67.76	23.1	
24	4,774	101.83	32.3	
25	5,351	75.20	21.3	
26	6,068	79.78	19.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad


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 Modified: 9/25/2014 3:09:29 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,507	68.42	15.9	
28	8,328	87.51	15.9	
29	10,380	75.00	10.9	Upper Marker
30	15,510	0.00	0.0	
31	22,235	0.00	0.0	
32	24,743	0.00	0.0	
33	26,567	0.00	0.0	
34	28,733	0.00	0.0	
35	33,065	0.00	0.0	
36	37,511	0.00	0.0	

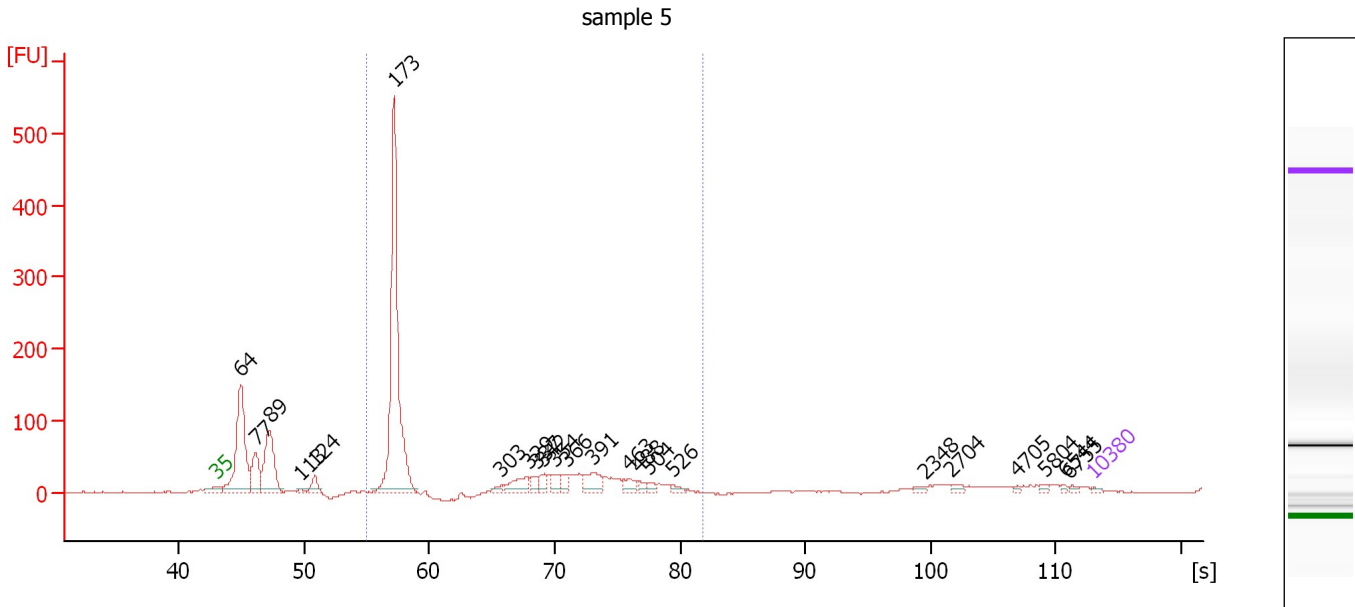
#### Region table for sample 4 : sample 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	425	1,000	1,287.6	52	29.8	12,731.16	52,797.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 23                      Corr. Area 1: 1,081.6  
 Noise: 1.3

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


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	64	8,519.59	202,132.6	
3	77	2,540.11	50,212.9	
4	89	5,074.91	86,436.5	
5	113	171.51	2,295.5	
6	124	809.64	9,909.9	
7	173	17,010.38	149,357.8	
8	303	281.92	1,408.8	
9	329	1,098.84	5,067.7	
10	337	404.73	1,820.7	
11	342	513.01	2,269.5	
12	354	531.50	2,275.7	
13	366	512.20	2,118.8	
14	391	1,186.64	4,597.2	
15	463	551.53	1,806.2	
16	488	293.27	910.9	
17	504	252.31	758.3	
18	526	229.89	662.1	
19	2,348	140.90	90.9	
20	2,704	183.28	102.7	
21	4,705	74.62	24.0	
22	5,804	100.21	26.2	
23	6,544	75.34	17.4	
24	6,755	87.72	19.7	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**

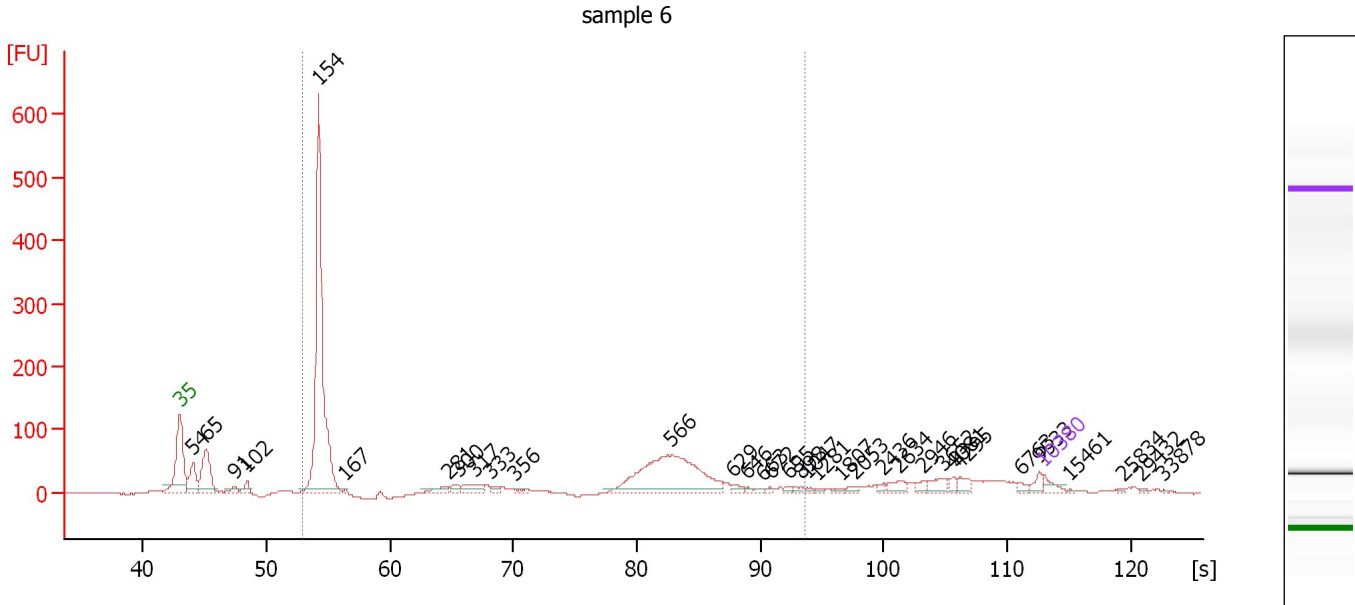
... Region table for sample 5 : sample 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
158	272	554	1,081.6	57	43.6	25,535.40	182,756.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 34                      Corr. Area 1: 1,438.0  
 Noise: 0.8

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	450.23	12,610.7	
3	65	813.99	18,931.1	
4	91	79.89	1,335.7	
5	102	120.18	1,789.0	
6	154	4,354.76	42,952.4	
7	167	18.67	169.0	
8	281	108.72	586.9	
9	300	71.50	360.6	
10	317	183.91	878.3	
11	333	56.00	254.8	
12	356	40.69	173.1	
13	566	1,623.67	4,348.4	
14	629	58.69	141.4	
15	646	23.89	56.0	
16	663	24.69	56.4	
17	672	18.80	42.4	
18	695	33.13	72.2	
19	898	28.19	47.6	
20	1,047	24.66	35.7	
21	1,281	17.60	20.8	
22	1,807	24.68	20.7	
23	2,053	34.55	25.5	
24	2,436	25.63	15.9	
25	2,634	92.34	53.1	
26	2,946	47.69	24.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad


Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,652	103.03	42.7	
28	4,081	44.86	16.7	
29	4,295	80.85	28.5	
30	6,763	37.36	8.4	
31	9,533	64.41	10.2	
32	10,380	75.00	10.9	Upper Marker
33	15,461	0.00	0.0	
34	25,834	0.00	0.0	
35	29,432	0.00	0.0	
36	33,878	0.00	0.0	

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

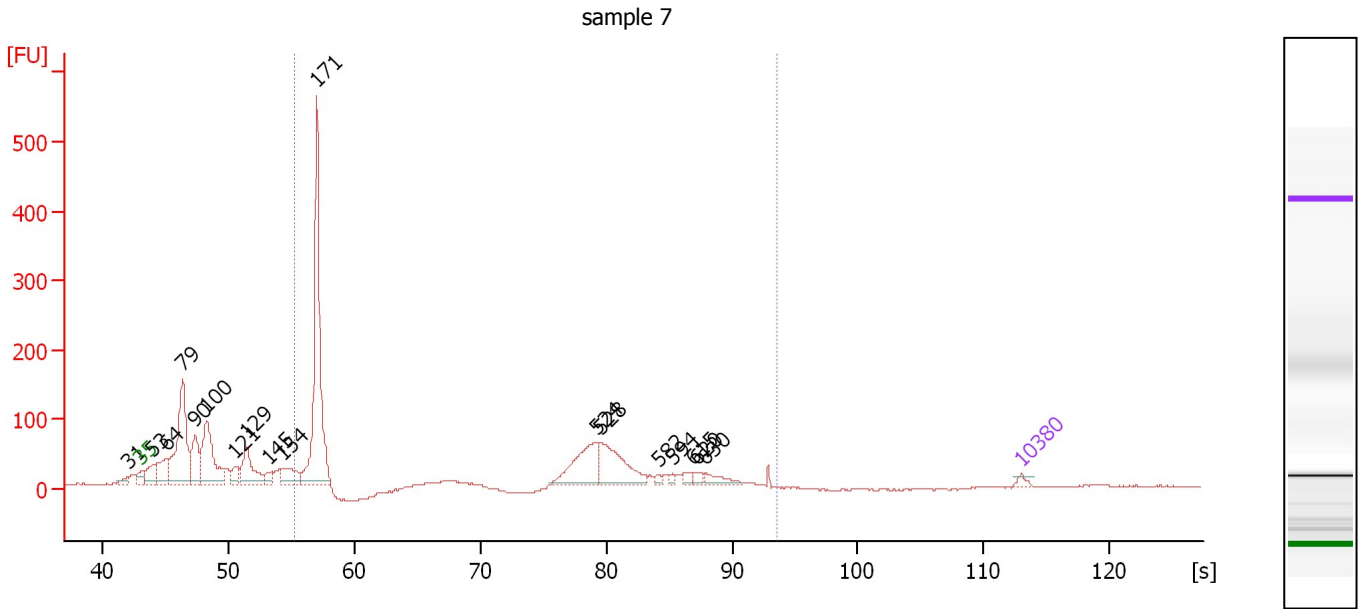
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
142	366	1,000	1,438.0	70	56.7	6,887.51	50,830.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 18                      Corr. Area 1: 1,234.4  
 Noise: 0.9

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	53	770.61	22,061.7	
4	64	1,115.08	26,300.0	
5	79	4,059.70	78,003.0	
6	90	1,428.09	23,995.8	
7	100	2,856.68	43,088.3	
8	121	458.39	5,751.8	
9	129	1,403.57	16,442.4	
10	145	334.49	3,505.8	
11	154	830.99	8,181.4	
12	171	6,632.67	58,653.3	
13	524	1,536.89	4,445.9	
14	528	1,551.86	4,451.3	
15	582	88.62	230.8	
16	594	81.98	209.0	
17	615	143.51	353.6	
18	620	132.33	323.5	
19	630	310.70	746.9	
20	10,380	75.00	10.9	Upper Marker

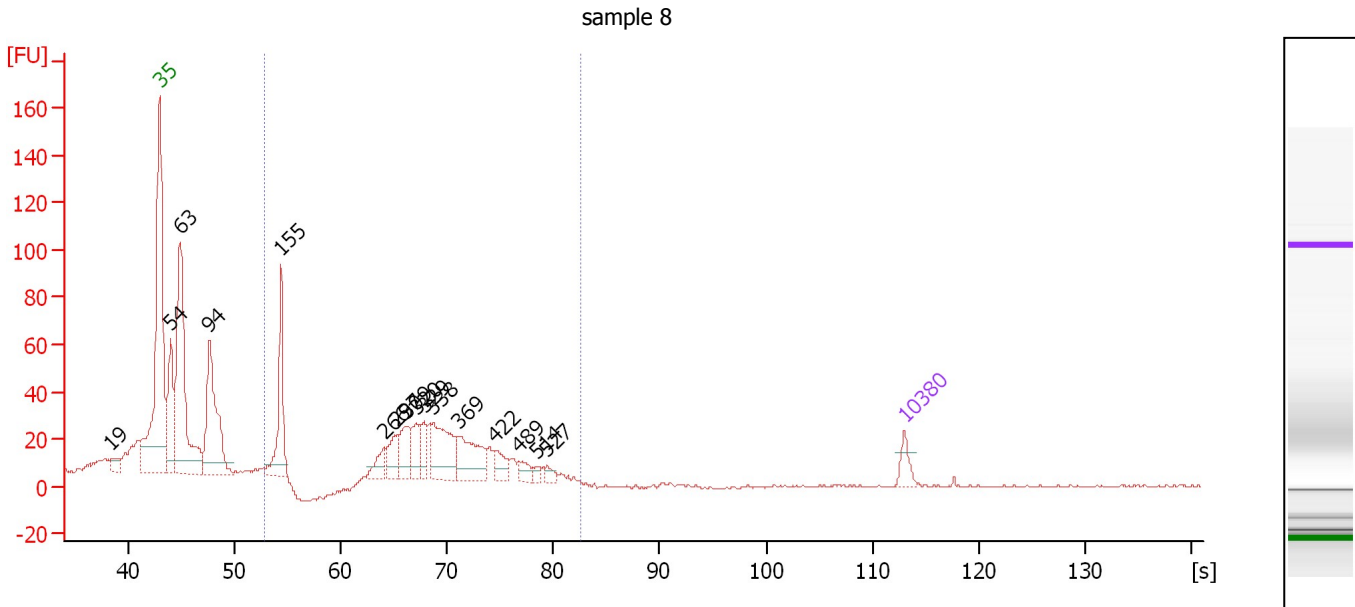
**Region table for sample 7 : sample 7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	386	1,000	1,234.4	49	49.8	11,443.80	74,220.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 16      Corr. Area 1: 421.2  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	19	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	54	660.83	18,615.2	
4	63	1,795.42	42,999.3	
5	94	1,126.20	18,166.8	
6	155	675.64	6,611.4	
7	266	143.75	819.9	
8	297	187.52	958.0	
9	309	257.60	1,262.0	
10	320	191.21	906.4	
11	329	146.98	677.4	
12	338	463.05	2,072.6	
13	369	384.00	1,577.0	
14	422	124.11	445.4	
15	489	76.73	237.8	
16	514	32.90	97.0	
17	527	45.63	131.3	
18	10,380	75.00	10.9	Upper Marker

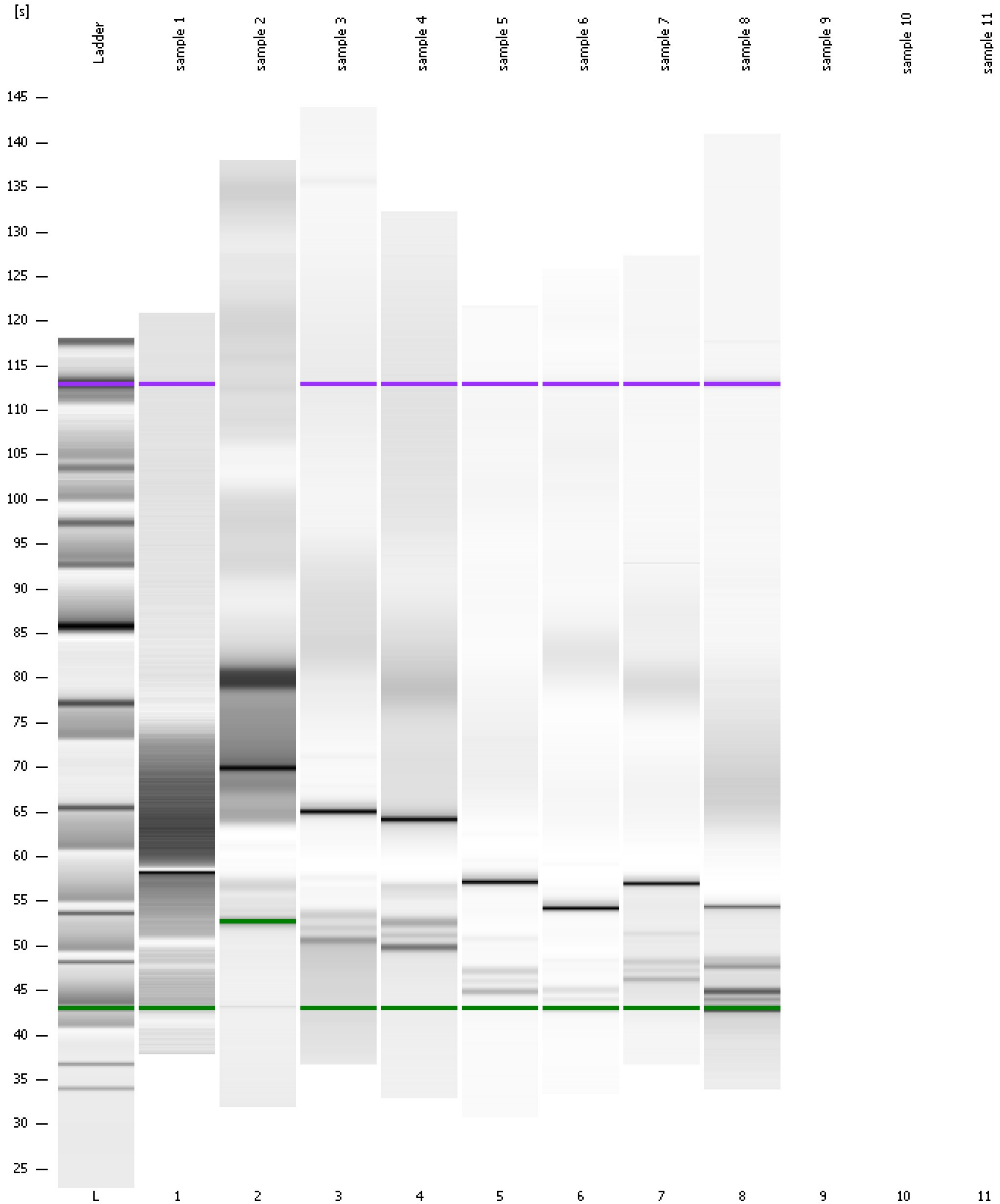
**Region table for sample 8 : sample 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
142	327	563	421.2	44	29.9	2,771.63	15,813.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 PM

**Gel Image**

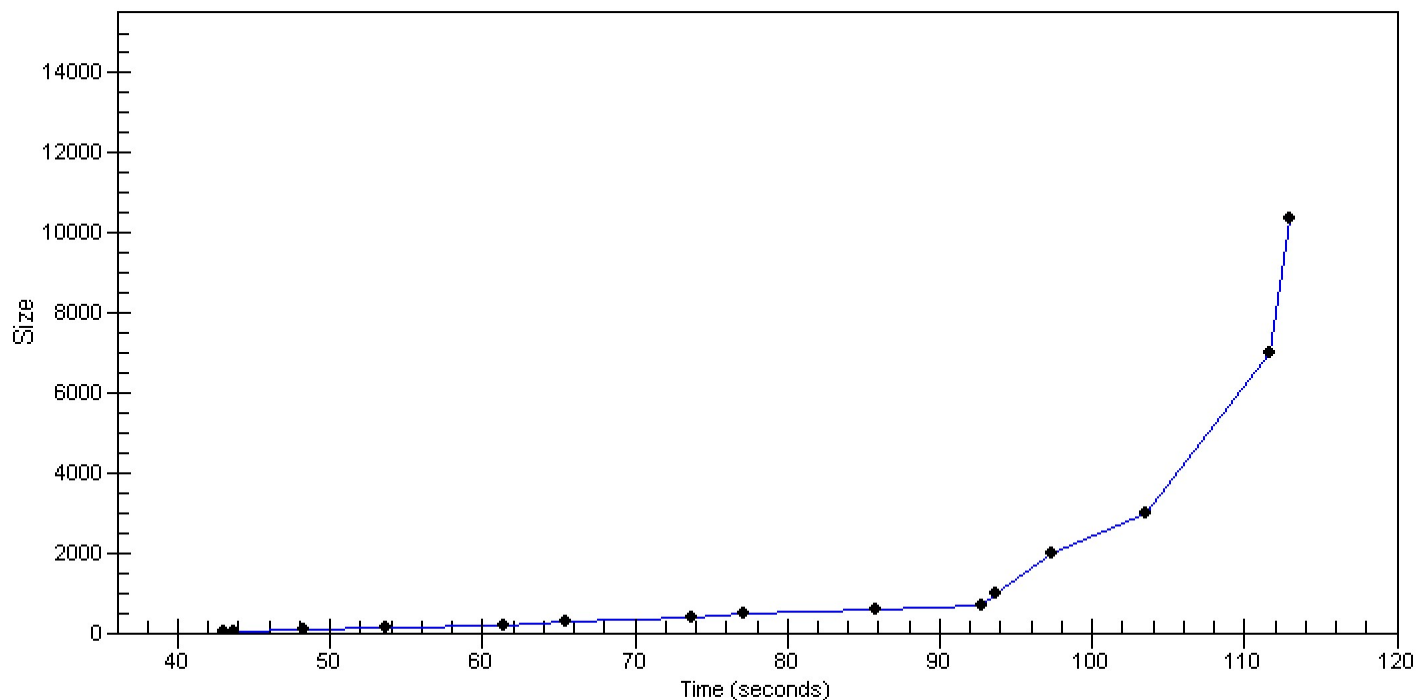


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
Modified: 9/25/2014 3:09:29 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_008.xad

Created: 9/25/2014 2:33:30 PM  
 Modified: 9/25/2014 3:09:29 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		9/25/2014 3:06:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-25\2014-09-25_008.xad)		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/25/2014 2:33:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1