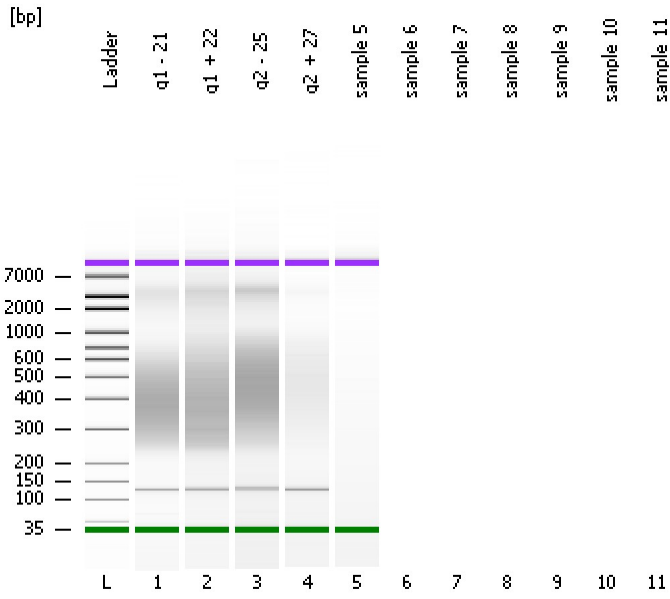


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
Modified: 5/23/2017 4:20:42 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

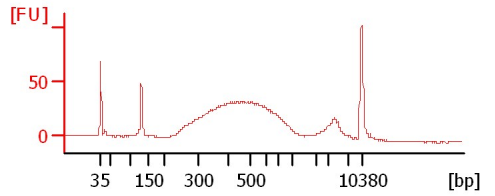
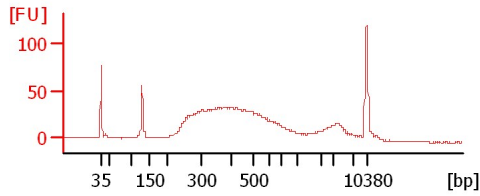
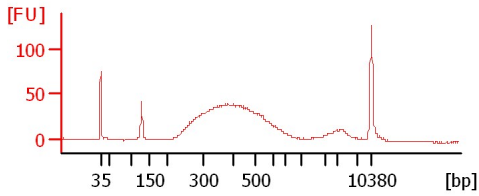
Chip Information:

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

**g1 - 21**

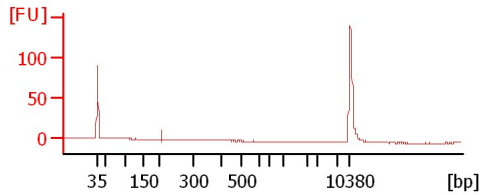
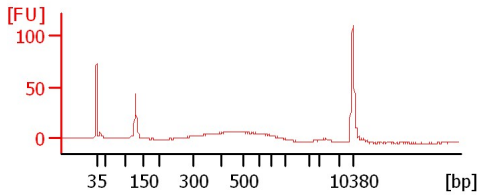
**g1 + 22**

**g2 - 25**



**g2 + 27**

**sample 5**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
 Modified: 5/23/2017 4:20:42 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
g1 - 21		<input type="checkbox"/>	✓			
g1 + 22		<input type="checkbox"/>	✓			
g2 - 25		<input type="checkbox"/>	✓			
g2 + 27		<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 #**

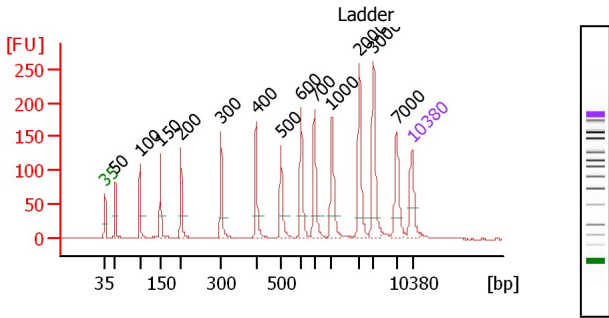
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
 Modified: 5/23/2017 4:20:42 PM

**Electropherogram Summary**



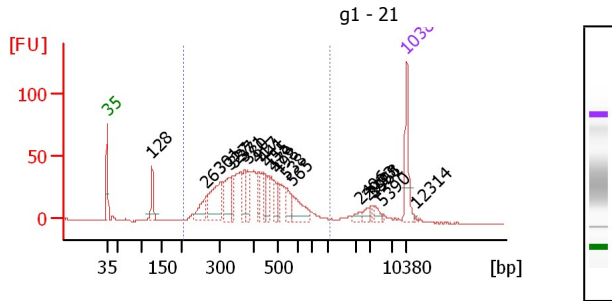
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
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	50.90
4	150	150.00	1,515.2	Ladder Peak	55.61
5	200	150.00	1,136.4	Ladder Peak	60.32
6	300	150.00	757.6	Ladder Peak	69.46
7	400	150.00	568.2	Ladder Peak	77.41
8	500	150.00	454.5	Ladder Peak	83.07
9	600	150.00	378.8	Ladder Peak	87.64
10	700	150.00	324.7	Ladder Peak	90.68
11	1,000	150.00	227.3	Ladder Peak	94.68
12	2,000	150.00	113.6	Ladder Peak	100.91
13	3,000	150.00	75.8	Ladder Peak	104.15

**Overall Results for Ladder**

Noise: 0.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
14	7,000	150.00	32.5	Ladder Peak	109.34
15	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 1 : g1 - 21**

Number of peaks found: 20  
 Noise: 0.2  
 Corr. Area 1: 1,020.9

**Region table for sample 1 : g1 - 21**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution [%]
207	1,048	416	1,020.9	4,326.4	1,069.4	87	28.8

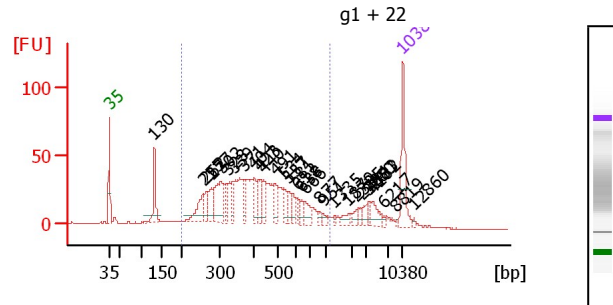
Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
 Modified: 5/23/2017 4:20:42 PM

**Electropherogram Summary Continued ...**

**Peak table for sample 1 : g1 - 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	128	70.42	834.2		53.53
3	263	68.31	393.1		66.11
4	301	142.10	715.9		69.52
5	327	91.29	423.6		71.57
6	337	34.62	155.7		72.39
7	371	46.03	187.8		75.12
8	380	47.62	189.6		75.86
9	417	39.30	143.0		78.34
10	441	34.69	119.0		79.75
11	455	43.86	146.0		80.53
12	479	40.87	129.2		81.90
13	498	30.74	93.5		82.97
14	538	34.41	96.8		84.82
15	565	74.70	200.3		86.04
16	2,406	10.69	6.7		102.23
17	2,933	13.58	7.0		103.93
18	3,398	6.11	2.7		104.66
19	3,961	12.45	4.8		105.40
20	5,390	3.13	0.9		107.25
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,314	0.00	0.0		115.10



**Overall Results for sample 2 : g1 + 22**

Number of peaks found: 30  
 Noise: 0.2  
 Corr. Area 1: 1,088.1

**Region table for sample 2 : g1 + 22**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
197	1,148	437	1,088.1	4,253.9	1,044.7	79	36.7

**Peak table for sample 2 : g1 + 22**

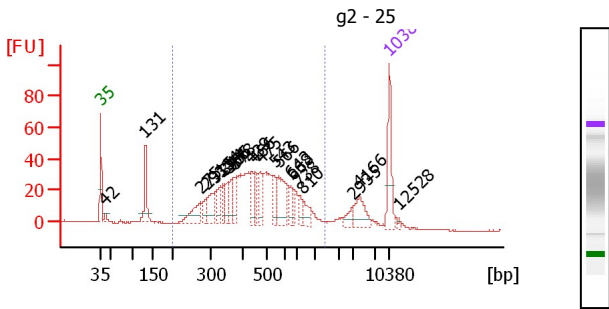
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	130	82.52	959.5		53.75
3	255	70.73	420.1		65.35
4	262	25.78	149.3		65.95
5	277	52.26	286.0		67.35
6	302	99.12	497.9		69.59
7	323	29.02	136.2		71.28
8	339	33.29	149.0		72.52
9	371	33.10	135.1		75.11
10	404	29.25	109.6		77.65
11	423	37.56	134.6		78.70
12	440	34.42	118.4		79.69
13	491	31.70	97.7		82.58
14	534	29.27	83.1		84.62
15	557	23.67	64.4		85.67
16	581	14.62	38.1		86.76
17	612	12.44	30.8		88.01
18	638	14.78	35.1		88.80
19	666	27.00	61.4		89.65
20	877	8.07	14.0		93.04
21	951	9.01	14.4		94.03
22	1,335	3.46	3.9		96.77
23	1,870	12.06	9.8		100.11
24	2,335	10.02	6.5		102.00
25	2,704	10.23	5.7		103.19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
26	3,260	11.35	5.3		104.49
27	3,683	7.37	3.0		105.03
28	4,182	24.52	8.9		105.68
29	6,217	2.94	0.7		108.32
30	8,819	2.32	0.4		111.31
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,860	0.00	0.0		115.69

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : g2 - 25**

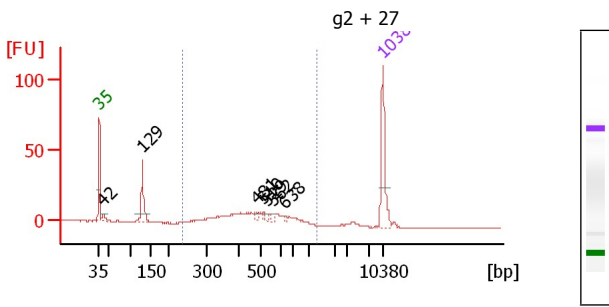
Number of peaks found: 22  
 Noise: 0.3  
 Corr. Area 1: 946.5

**Region table for sample 3 : g2 - 25**

From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]
200 1,448 485	485	946.5	3,875.3	1,064.9	36.2

**Peak table for sample 3 : g2 - 25**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	42	17.90	648.2		44.06
3	131	93.02	1,074.9		53.83
4	275	67.29	371.2		67.14
5	291	25.78	134.1		68.66
6	315	64.19	308.9		70.64
7	334	53.47	242.6		72.15
8	344	35.08	154.4		72.96
9	356	40.52	172.4		73.93
10	366	33.24	137.4		74.74
11	378	41.33	165.7		75.65
12	439	44.70	154.4		79.59
13	456	30.39	101.1		80.56
14	475	29.99	95.6		81.67
15	543	35.64	99.5		85.01
16	566	78.49	210.2		86.07
17	643	21.69	51.1		88.96
18	668	17.58	39.9		89.72
19	738	19.52	40.1		91.19
20	810	28.38	53.1		92.15
21	2,935	17.29	8.9		103.94
22	4,166	47.95	17.4		105.66
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,528	0.00	0.0		115.33



**Overall Results for sample 4 : g2 + 27**

Number of peaks found: 7  
 Noise: 0.2  
 Corr. Area 1: 179.5

**Region table for sample 4 : g2 + 27**

From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]
238 1,339 490	490	179.5	623.9	180.32	29.6

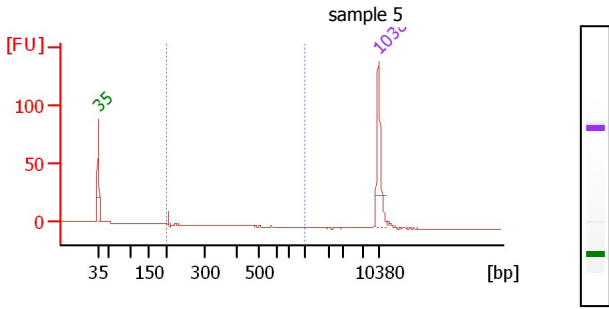
**Peak table for sample 4 : g2 + 27**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	42	13.77	501.1		44.03
3	129	77.06	902.8		53.66
4	481	4.99	15.7		81.99
5	510	4.31	12.8		83.54
6	529	4.82	13.8		84.41
7	562	5.39	14.5		85.91
8	638	3.29	7.8		88.79
9	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

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**Electropherogram Summary Continued ...**



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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

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

Number of peaks found: 0  
 Noise: 0.2  
 Corr. Area 1: 3.2

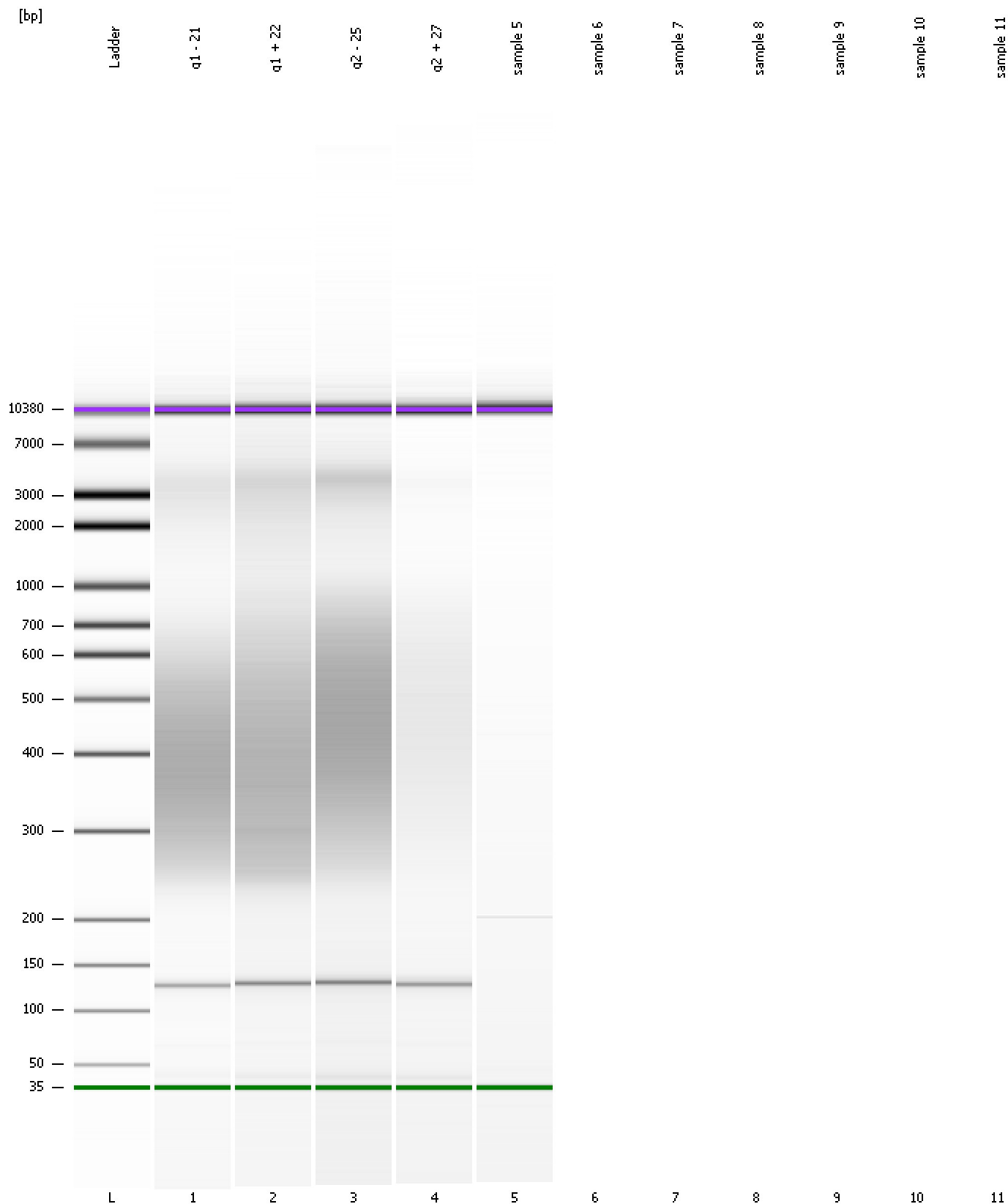
**Region table for sample 5 : sample 5**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	203	3.2	22.9	3.06	21	0.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
Modified: 5/23/2017 4:20:42 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-23\2017-05-23\_002.xad

Created: 5/23/2017 3:56:32 PM  
Modified: 5/23/2017 4:20:42 PM

**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.