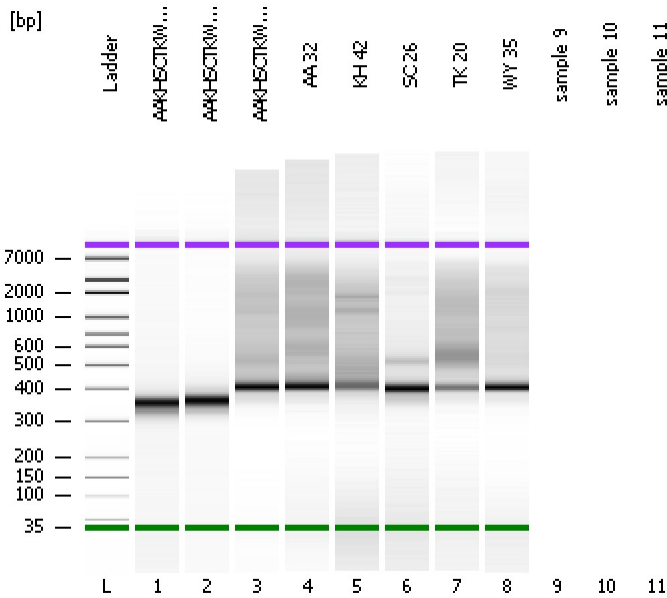


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
Modified: 5/24/2017 3:48:12 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

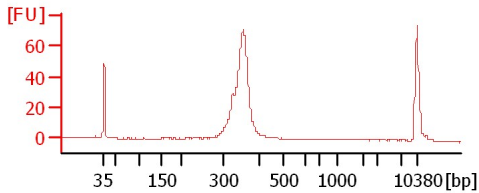
Assay Information:

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

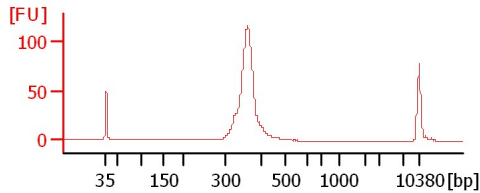
Chip Information:

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

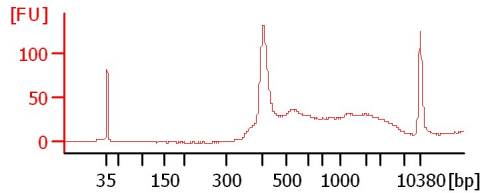
**AAKHSCTKWY155 Pippin 1**



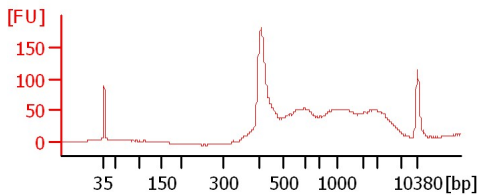
**AAKHSCTKWY155 Pippin 2**



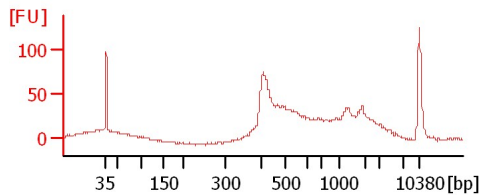
**AAKHSCTKWY155 Pool**



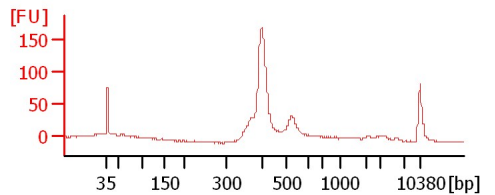
**AA 32**



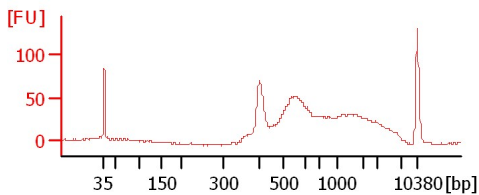
**KH 42**



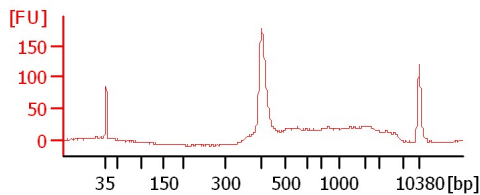
**SC 26**



**TK 20**



**WY 35**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
Modified: 5/24/2017 3:48:12 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AAKHSCTKWY155 Pippin 1		<input type="checkbox"/>	✓			
AAKHSCTKWY155 Pippin 2		<input type="checkbox"/>	✓			
AAKHSCTKWY155 Pool		<input type="checkbox"/>	✓			
AA 32		<input type="checkbox"/>	✓			
KH 42		<input type="checkbox"/>	✓			
SC 26		<input type="checkbox"/>	✓			
TK 20		<input type="checkbox"/>	✓			
WY 35		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

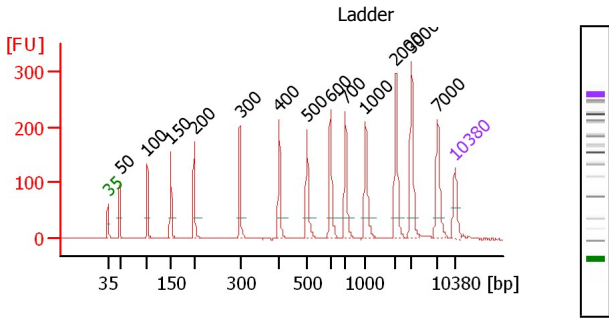
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
 Modified: 5/24/2017 3:48:12 PM

**Electropherogram Summary**



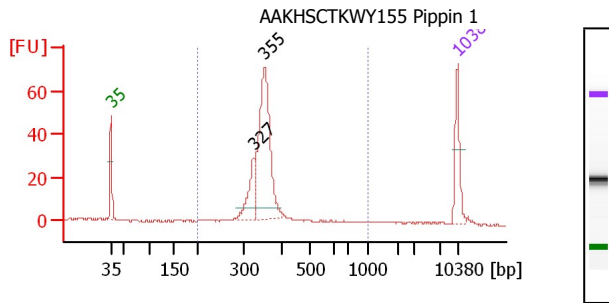
**Peak table for Ladder**

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.97
4	150	150.00	1,515.2	Ladder Peak	55.68
5	200	150.00	1,136.4	Ladder Peak	60.40
6	300	150.00	757.6	Ladder Peak	69.61
7	400	150.00	568.2	Ladder Peak	77.58
8	500	150.00	454.5	Ladder Peak	83.18
9	600	150.00	378.8	Ladder Peak	87.95
10	700	150.00	324.7	Ladder Peak	90.97
11	1,000	150.00	227.3	Ladder Peak	95.02
12	2,000	150.00	113.6	Ladder Peak	101.16
13	3,000	150.00	75.8	Ladder Peak	104.28

**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	109.57
15	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 1 : AAKHSCTKWY155 Pippin 1**

Number of peaks found: 2  
 Noise: 0.2  
 Corr. Area 1: 379.9

**Region table for sample 1 : AAKHSCTKWY155 Pippin 1**

From [bp]	To [bp]	Average Size [bp]	Corrected Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV	Size distribution [%]
200	1,000	361	379.9	2,637.3	610.63	89	19.8

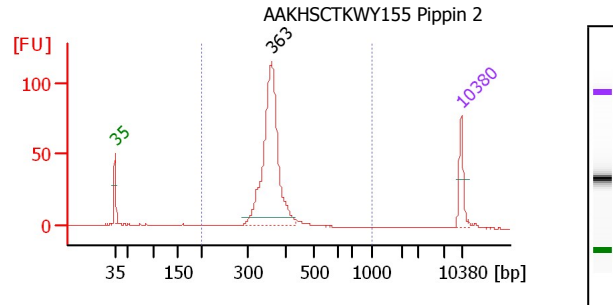
Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
 Modified: 5/24/2017 3:48:12 PM

**Electropherogram Summary Continued ...**

**Peak table for sample 1 : AAKHSCTKWY155 Pippin 1**

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	327	107.42	498.2		71.74
3	355	405.93	1,730.5		74.03
4	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 2 : AAKHSCTKWY155 Pippin 2**

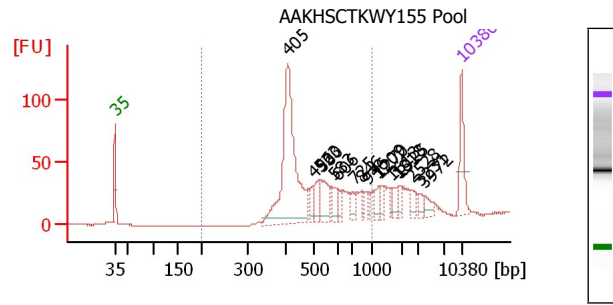
Number of peaks found: 1  
 Noise: 0.2  
 Corr. Area 1: 593.0

**Region table for sample 2 : AAKHSCTKWY155 Pippin 2**

From To [bp]	Average Size [bp]	Corr. Area [bp]	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution [%]	
200	1,000	365	593.0	3,884.8	921.09	89	12.8

**Peak table for sample 2 : AAKHSCTKWY155 Pippin 2**

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	363	814.69	3,401.8		74.62
3	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 3 : AAKHSCTKWY155 Pool**

Number of peaks found: 17  
 Noise: 0.2  
 Corr. Area 1: 802.3

**Region table for sample 3 : AAKHSCTKWY155 Pool**

From To [bp]	Average Size [bp]	Corr. Area [bp]	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution [%]	
200	1,000	521	802.3	2,584.9	816.20	75	29.0

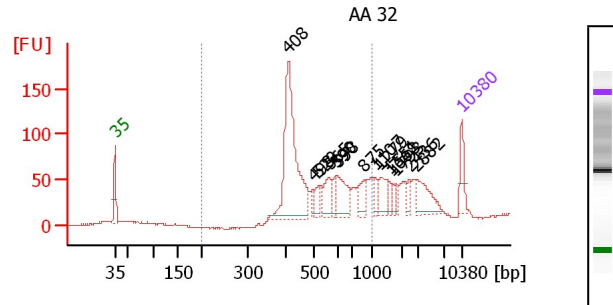
Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
 Modified: 5/24/2017 3:48:12 PM

**Electropherogram Summary Continued ...**

**Peak table for sample 3 : AAKHSCTKWY155 Pool**

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	405	522.49	1,952.5		77.88
3	496	30.77	93.9		82.98
4	523	48.72	141.1		84.29
5	530	75.09	214.6		84.62
6	583	27.06	70.3		87.14
7	606	18.40	46.0		88.12
8	725	22.91	47.9		91.30
9	846	15.55	27.9		92.94
10	946	13.12	21.0		94.30
11	1,209	28.57	35.8		96.31
12	1,270	19.77	23.6		96.68
13	1,613	12.33	11.6		98.78
14	1,818	20.31	16.9		100.05
15	1,925	15.12	11.9		100.70
16	2,528	19.02	11.4		102.81
17	3,231	13.71	6.4		104.58
18	3,972	21.67	8.3		105.57
19	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 4 : AA 32**

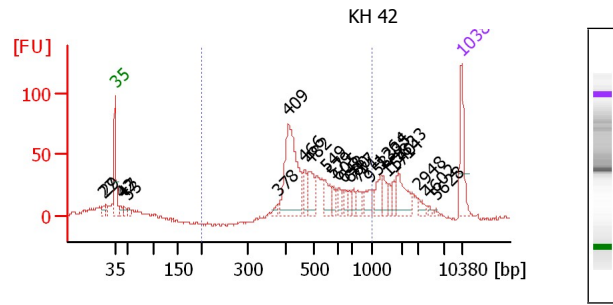
Number of peaks found: 14  
 Noise: 0.8  
 Corr. Area 1: 1,186.1

**Region table for sample 4 : AA 32**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	546	1,186.1	4,461.2	1,461.8	68	29.7

**Peak table for sample 4 : AA 32**

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	408	781.81	2,903.6		78.02
3	498	31.85	97.0		83.05
4	520	51.35	149.5		84.15
5	565	100.81	270.1		86.30
6	590	48.41	124.4		87.45
7	598	146.40	371.2		87.83
8	875	69.09	119.6		93.33
9	1,107	31.17	42.7		95.68
10	1,279	92.54	109.7		96.73
11	1,551	28.67	28.0		98.41
12	1,668	21.26	19.3		99.12
13	1,793	25.62	21.7		99.89
14	2,436	31.90	19.8		102.52
15	2,882	129.81	68.3		103.91
16	10,380	75.00	10.9	Upper Marker	113.00



**Overall Results for sample 5 : KH 42**

Number of peaks found: 25  
 Noise: 1.1  
 Corr. Area 1: 712.6

**Region table for sample 5 : KH 42**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	539	712.6	2,049.1	673.51	63	27.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

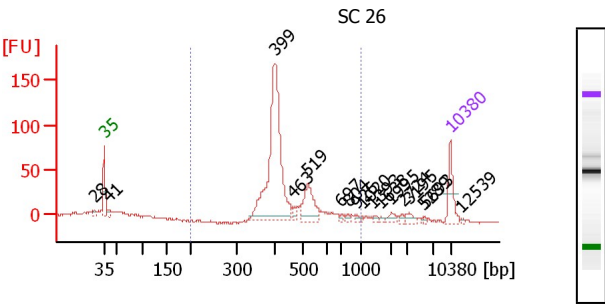
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 Modified: 5/24/2017 3:48:12 PM

**Electropherogram Summary Continued ...**

**Peak table for sample 5 : KH 42**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	27	0.00	0.0		40.62
2	29	0.00	0.0		41.20
3	35	125.00	5,411.3	Lower Marker	43.00
4	42	16.53	594.9		44.12
5	47	14.02	451.7		44.89
6	53	12.26	352.1		45.67
7	378	11.72	46.9		75.86
8	409	277.80	1,028.4		78.10
9	466	38.27	124.3		81.30
10	482	66.86	210.2		82.17
11	549	43.07	118.8		85.52
12	579	20.24	53.0		86.93
13	605	17.45	43.7		88.10
14	648	18.40	43.0		89.41
15	680	16.56	36.9		90.38
16	717	14.38	30.4		91.20
17	771	20.12	39.5		91.93
18	958	30.07	47.6		94.46
19	1,264	36.71	44.0		96.64
20	1,335	26.27	29.8		97.08
21	1,540	13.41	13.2		98.34
22	1,714	15.09	13.3		99.41
23	1,833	62.75	51.9		100.14
24	2,948	15.12	7.8		104.12
25	4,602	3.96	1.3		106.40
26	5,628	1.97	0.5		107.76

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
27	10,380	75.00	10.9	Upper Marker	113.00



**Peak table for sample 6 : SC 26**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	28	0.00	0.0		41.10
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	20.52	754.8		43.97
4	399	708.69	2,691.9		77.49
5	463	18.36	60.0		81.14
6	519	132.39	386.2		84.10
7	697	7.15	15.6		90.87
8	804	8.53	16.1		92.37
9	926	6.69	10.9		94.03
10	1,020	3.49	5.2		95.15
11	1,393	8.66	9.4		97.43
12	1,638	5.50	5.1		98.94
13	1,995	15.08	11.5		101.13
14	2,724	7.57	4.2		103.42
15	3,195	18.36	8.7		104.54
16	5,289	3.24	0.9		107.31
17	5,693	3.72	1.0		107.84
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,539	0.00	0.0		115.19

**Overall Results for sample 6 : SC 26**

Number of peaks found: 17  
 Noise: 1.1  
 Corr. Area 1: 820.5

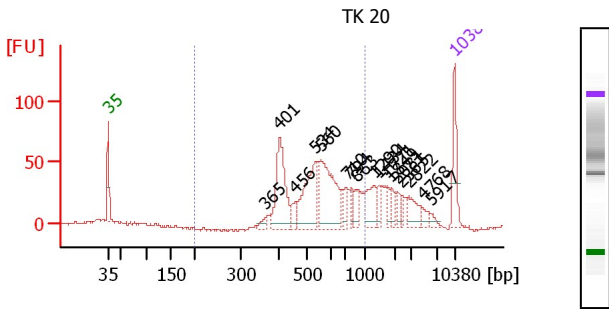
**Region table for sample 6 : SC 26**

From [bp]	To [bp]	Average Size [bp]	Corrected Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution [%]
200	1,000	449	820.5	3,247.3	919.50	81	22.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

Created: 5/24/2017 3:15:26 PM  
 Modified: 5/24/2017 3:48:12 PM

**Electropherogram Summary Continued ...**



Peak table for sample 7 : **TK 20**

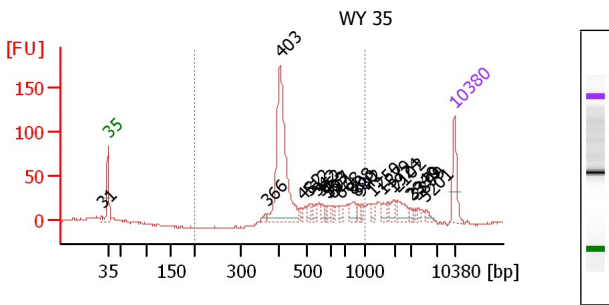
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	365	21.28	88.3		74.81
3	401	226.20	853.8		77.66
4	456	33.17	110.3		80.70
5	534	179.42	508.7		84.82
6	560	222.98	603.1		86.05
7	710	33.21	70.9		91.11
8	794	22.50	43.0		92.24
9	863	34.62	60.8		93.17
10	1,290	67.94	79.8		96.80
11	1,434	21.17	22.4		97.68
12	1,721	22.16	19.5		99.45
13	1,849	17.98	14.7		100.24
14	2,081	19.18	14.0		101.42
15	2,365	12.79	8.2		102.30
16	2,822	45.12	24.2		103.72
17	4,768	15.70	5.0		106.62
18	5,917	11.12	2.8		108.14
19	10,380	75.00	10.9	Upper Marker	113.00

**Overall Results for sample 7 : TK 20**

Number of peaks found: 17  
 Noise: 0.8  
 Corr. Area 1: 785.9

**Region table for sample 7 : TK 20**

From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Size distribution Total in CV [%]
200 1,000	572	785.9	2,268.0	787.78	68 26.6



Peak table for sample 8 : **WY 35**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	31	0.00	0.0		41.72
2	35	125.00	5,411.3	Lower Marker	43.00
3	366	13.43	55.5		74.90
4	403	517.40	1,944.5		77.75
5	482	13.17	41.4		82.18
6	512	17.80	52.7		83.76
7	542	21.97	61.4		85.19
8	562	14.43	38.9		86.12
9	583	14.38	37.4		87.16
10	597	18.59	47.2		87.80
11	621	15.06	36.7		88.58
12	668	19.96	45.3		90.01
13	808	36.85	69.1		92.42
14	880	12.92	22.2		93.41
15	942	13.26	21.3		94.24
16	1,250	12.28	14.9		96.56
17	1,579	19.91	19.1		98.58
18	1,924	20.21	15.9		100.69
19	2,102	42.29	30.5		101.48
20	2,940	7.95	4.1		104.09
21	3,379	8.15	3.7		104.78
22	3,899	9.97	3.9		105.47
23	5,201	14.02	4.1		107.19
24	10,380	75.00	10.9	Upper Marker	113.00

**Overall Results for sample 8 : WY 35**

Number of peaks found: 22  
 Noise: 0.7  
 Corr. Area 1: 788.7

**Region table for sample 8 : WY 35**

From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Size distribution Total in CV [%]
200 1,000	510	788.7	2,675.9	824.34	70 30.3

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-24\2017-05-24\_003.xad

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Modified: 5/24/2017 3:48:12 PM

**Gel Image**

