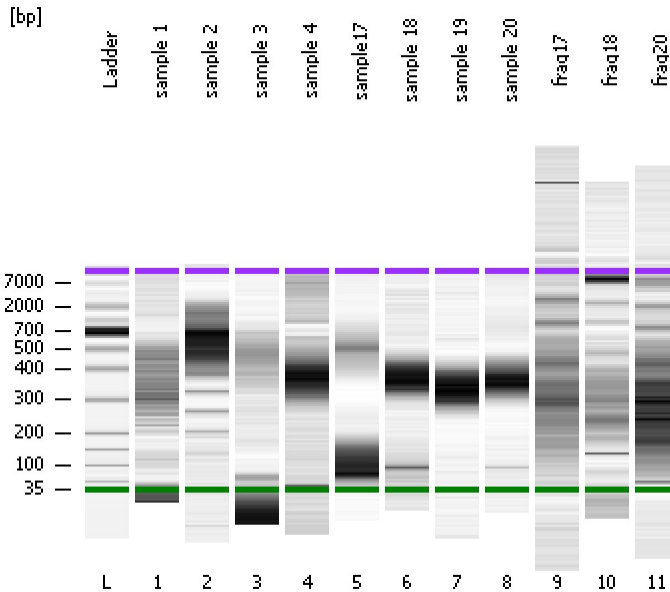


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
Modified: 1/28/2014 10:56:07 AM

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

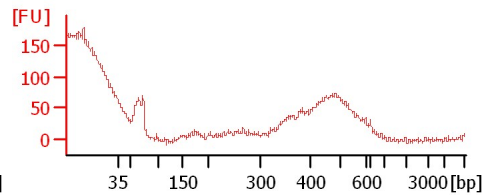
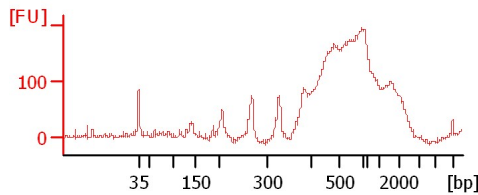
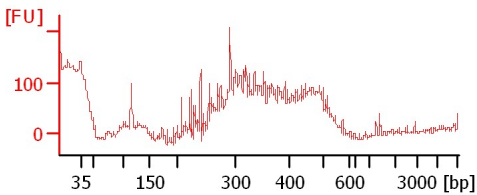
Chip Information:

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

sample 1

sample 2

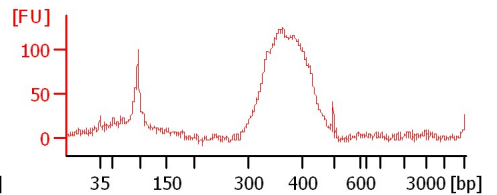
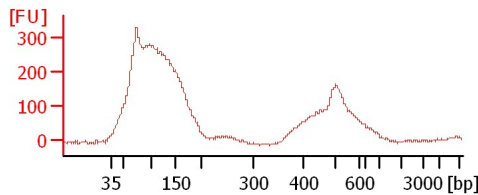
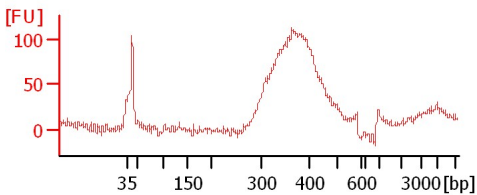
sample 3



sample 4

sample 17

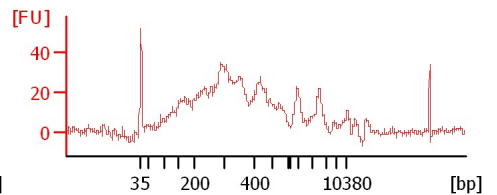
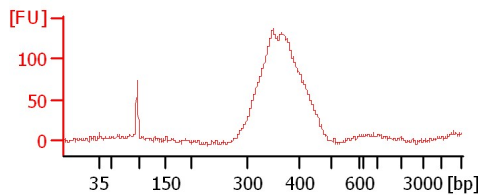
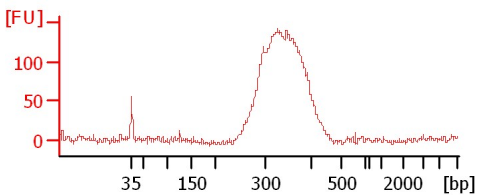
sample 18



sample 19

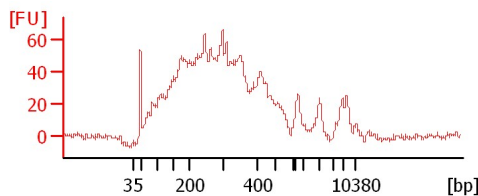
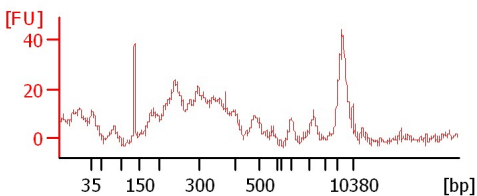
sample 20

frag17



frag18

frag20



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
Modified: 1/28/2014 10:56:07 AM

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"/>	✓			
sample17		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
frag17		<input type="checkbox"/>	✓			
frag18		<input type="checkbox"/>	✓			
frag20		<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\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
Modified: 1/28/2014 10:56:07 AM

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

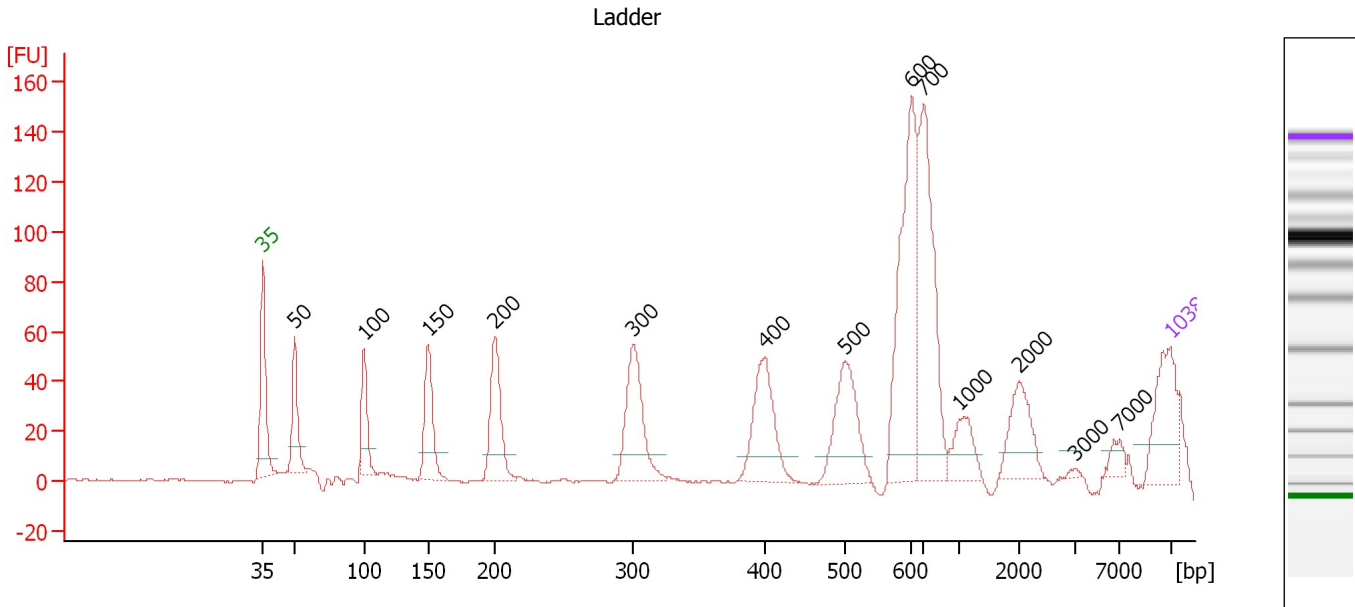
Ladder

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\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

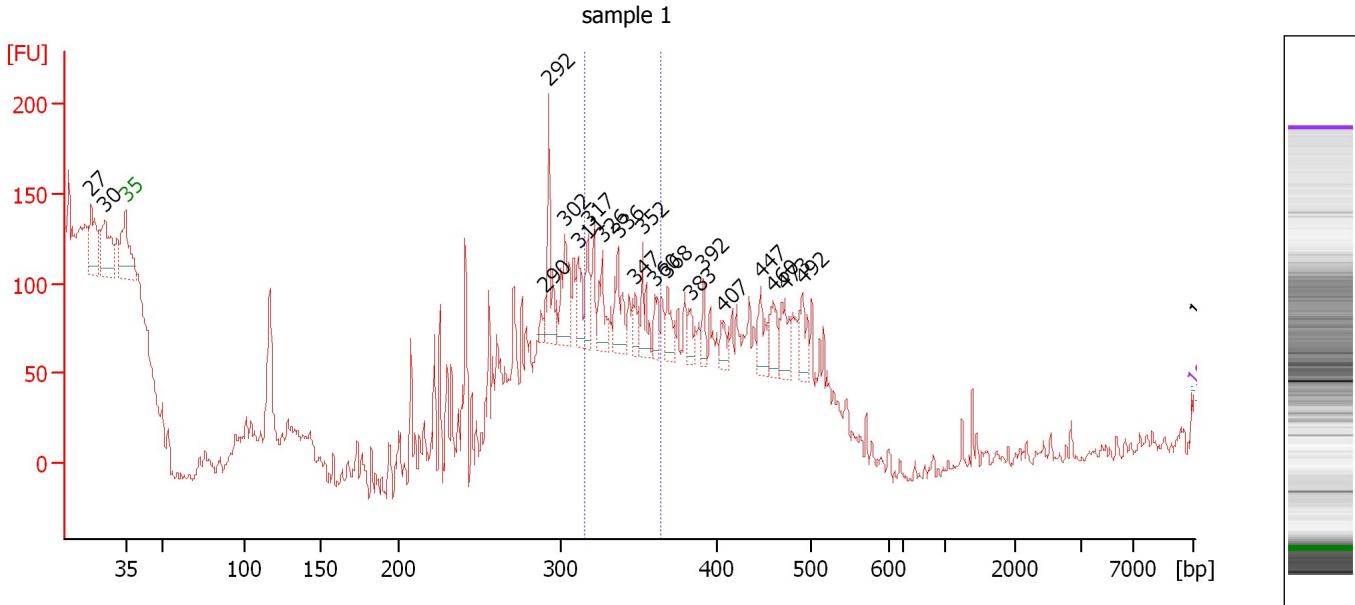
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.47	50	150.00	4,545.5	Ladder Peak
3	50.81	100	150.00	2,272.7	Ladder Peak
4	55.75	150	150.00	1,515.2	Ladder Peak
5	60.93	200	150.00	1,136.4	Ladder Peak
6	71.58	300	150.00	757.6	Ladder Peak
7	81.74	400	150.00	568.2	Ladder Peak
8	87.87	500	150.00	454.5	Ladder Peak
9	93.01	600	150.00	378.8	Ladder Peak
10	93.96	700	150.00	324.7	Ladder Peak
11	96.75	1,000	150.00	227.3	Ladder Peak
12	101.32	2,000	150.00	113.6	Ladder Peak
13	105.64	3,000	150.00	75.8	Ladder Peak
14	109.05	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
 Modified: 1/28/2014 10:56:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 21 Corr. Area 1: 423.8
 Noise: 6.3

Peak table for sample 1 : sample 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	40.73	27	0.00	0.0	
2	41.64	30	0.00	0.0	
3	43.00	35	125.00	5,411.3	Lower Marker
4	70.52	290	2,680.28	14,004.1	
5	70.76	292	16,094.37	83,430.1	
6	71.81	302	15,260.59	76,503.4	
7	72.72	311	8,379.78	40,800.9	
8	73.35	317	8,750.74	41,775.4	
9	74.26	326	8,414.39	39,068.1	
10	75.27	336	11,801.04	53,166.1	
11	76.39	347	4,895.26	21,354.8	
12	76.88	352	7,611.56	32,749.9	
13	77.72	360	4,446.79	18,694.4	
14	78.52	368	6,471.72	26,622.5	
15	79.99	383	4,288.31	16,974.5	
16	80.90	392	4,173.85	16,144.0	
17	82.20	407	4,111.47	15,291.1	
18	84.64	447	7,897.92	26,750.7	
19	85.45	460	7,240.51	23,825.1	
20	86.22	473	9,029.49	28,923.3	
21	87.37	492	6,890.40	21,226.4	
22	113.17	10,530	802.12	115.4	
23	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
Modified: 1/28/2014 10:56:07 AM

Electropherogram Summary Continued ...

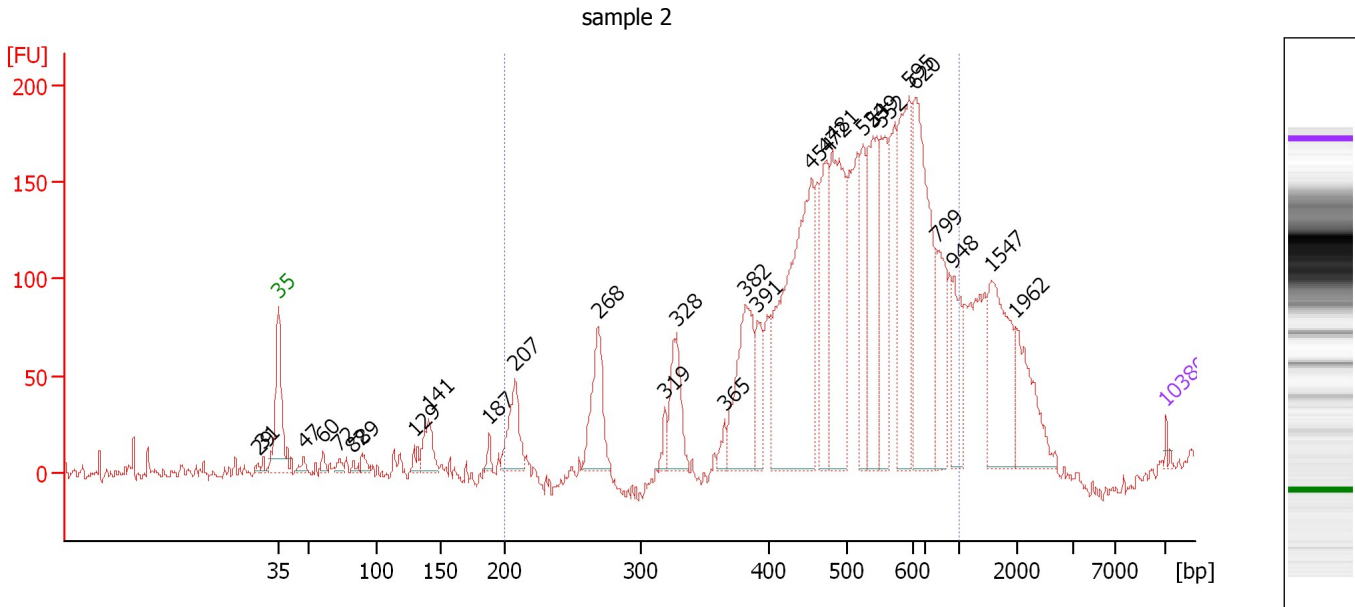
... Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
315	364	338	425,210.0	94,884.13	423.8	25	4.3	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
 Modified: 1/28/2014 10:56:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : sample 2

Height Threshold [FU] : 1

Overall Results for sample 2 : sample 2

Number of peaks found: 29 Corr. Area 1: 2,869.9
 Noise: 4.6

Peak table for sample 2 : sample 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	41.40	29	0.00	0.0	
2	41.82	31	0.00	0.0	
3	43.00	35	125.00	5,411.3	Lower Marker
4	45.02	47	191.45	6,136.8	
5	46.57	60	170.95	4,292.4	
6	47.83	72	177.02	3,718.2	
7	48.93	82	121.37	2,232.9	
8	49.60	89	211.13	3,608.5	
9	53.72	129	268.09	3,138.0	
10	54.86	141	910.34	9,786.1	
11	59.61	187	209.70	1,697.1	
12	61.62	207	1,489.94	10,932.0	
13	68.23	268	2,045.32	11,543.1	
14	73.48	319	288.49	1,371.6	
15	74.41	328	1,562.51	7,222.8	
16	78.19	365	274.30	1,138.6	
17	79.87	382	2,821.51	11,203.6	
18	80.80	391	885.51	3,434.2	
19	85.04	454	7,272.38	24,278.9	
20	86.18	472	2,186.53	7,013.5	
21	86.68	481	4,021.76	12,679.2	
22	89.12	524	1,691.01	4,886.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
 Modified: 1/28/2014 10:56:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	89.88	539	3,029.76	8,516.4	
24	90.55	552	1,923.95	5,279.9	
25	92.74	595	3,187.47	8,121.8	
26	93.20	620	4,579.98	11,197.7	
27	94.88	799	1,607.60	3,048.8	
28	96.27	948	1,189.35	1,901.4	
29	99.25	1,547	2,384.25	2,334.9	
30	101.14	1,962	1,442.09	1,113.9	
31	113.00	10,380	75.00	10.9	Upper Marker

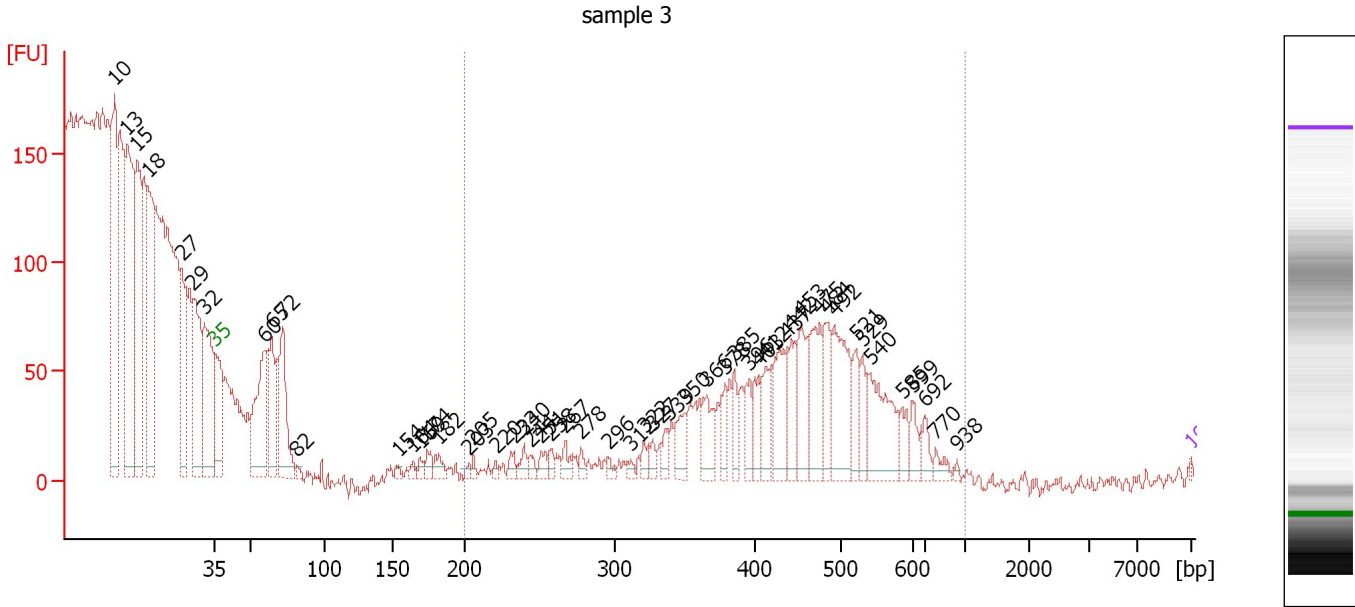
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	528	146,929.7	45,442.48	2,869.9	83	28.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 52 Corr. Area 1: 64.5
 Noise: 4.0

Peak table for sample 3 : sample 3


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35.77	10	0.00	0.0	
2	36.69	13	0.00	0.0	
3	37.38	15	0.00	0.0	
4	38.18	18	0.00	0.0	
5	40.59	27	0.00	0.0	
6	41.39	29	0.00	0.0	
7	42.20	32	0.00	0.0	
8	43.00	35	125.00	5,411.3	Lower Marker
9	46.56	60	20,657.09	520,150.0	
10	47.05	65	13,000.29	303,878.5	
11	47.82	72	15,001.62	315,820.5	
12	48.89	82	621.77	11,491.4	
13	56.15	154	733.39	7,221.4	
14	57.18	164	869.53	8,041.5	
15	57.68	169	1,017.83	9,145.3	
16	58.22	174	1,870.92	16,310.8	
17	59.02	182	2,026.26	16,911.4	
18	61.24	203	683.75	5,107.0	
19	61.50	205	784.42	5,787.3	
20	63.11	220	665.44	4,573.8	
21	64.41	233	1,451.56	9,453.7	
22	65.17	240	1,738.69	10,984.8	
23	65.59	244	1,187.25	7,379.3	
24	66.40	251	1,656.37	9,986.4	
25	67.09	258	1,302.05	7,653.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad


Created: 1/28/2014 9:55:35 AM
 Modified: 1/28/2014 10:56:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	68.08	267	2,181.17	12,373.0	
27	69.23	278	1,156.42	6,305.8	
28	71.18	296	948.48	4,852.3	
29	72.78	312	872.96	4,242.2	
30	73.78	322	1,439.14	6,780.8	
31	74.35	327	1,642.04	7,603.3	
32	75.50	339	1,715.70	7,679.4	
33	76.68	350	4,048.46	17,517.1	
34	78.25	366	5,735.27	23,768.3	
35	79.55	378	3,041.61	12,178.9	
36	80.20	385	3,254.17	12,813.4	
37	81.31	396	3,528.99	13,512.3	
38	81.92	403	3,910.49	14,706.9	
39	82.45	412	4,829.03	17,776.0	
40	84.02	437	8,445.84	29,270.8	
41	84.33	442	5,827.06	19,966.9	
42	85.02	453	7,230.93	24,163.8	
43	86.35	475	9,390.77	29,939.5	
44	86.89	484	6,045.96	18,927.8	
45	87.39	492	12,037.23	37,063.3	
46	88.95	521	4,113.88	11,962.6	
47	89.37	529	3,469.13	9,931.8	
48	89.95	540	10,940.17	30,674.3	
49	92.24	585	2,392.13	6,195.6	
50	92.97	599	2,651.41	6,705.1	
51	93.88	692	2,029.95	4,442.8	
52	94.61	770	1,435.93	2,825.2	
53	96.18	938	297.97	481.2	
54	 113.00	10,380	75.00	10.9	Upper Marker

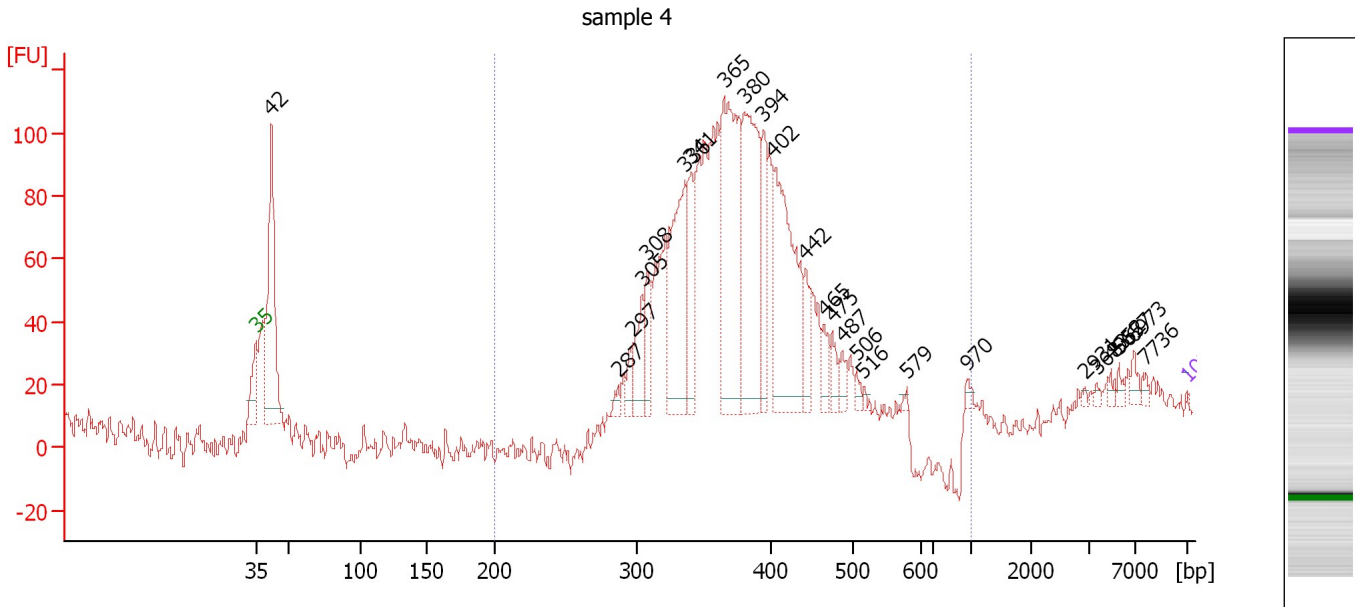
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	484	20,998.3	6,694.99	64.5	47	4.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 25 Corr. Area 1: 1,347.9
 Noise: 4.4

Peak table for sample 4 : sample 4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.12	42	33,491.23	1,213,179.3	
3	70.24	287	1,438.86	7,586.5	
4	71.28	297	2,641.30	13,467.7	
5	72.04	305	7,264.02	36,142.7	
6	72.40	308	6,628.36	32,599.4	
7	75.25	336	25,858.29	116,567.1	
8	75.73	341	9,940.16	44,186.5	
9	78.18	365	35,485.80	147,331.3	
10	79.70	380	30,595.64	122,011.2	
11	81.11	394	9,976.96	38,390.2	
12	81.87	402	30,281.96	114,106.6	
13	84.32	442	4,685.10	16,059.3	
14	85.72	465	3,179.06	10,360.0	
15	86.32	475	2,873.86	9,171.7	
16	87.09	487	2,179.03	6,776.7	
17	88.17	506	1,143.68	3,425.9	
18	88.69	516	507.34	1,489.9	
19	91.94	579	426.33	1,115.4	
20	96.47	970	740.81	1,157.4	
21	105.34	2,931	277.42	143.4	
22	106.22	3,683	428.27	176.2	
23	107.30	4,952	618.44	189.2	
24	107.91	5,657	706.66	189.3	
25	109.03	6,973	1,256.72	273.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad


Created: 1/28/2014 9:55:35 AM
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Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	109.91	7,736	640.27	125.4	
27	113.00	10,380	75.00	10.9	Upper Marker

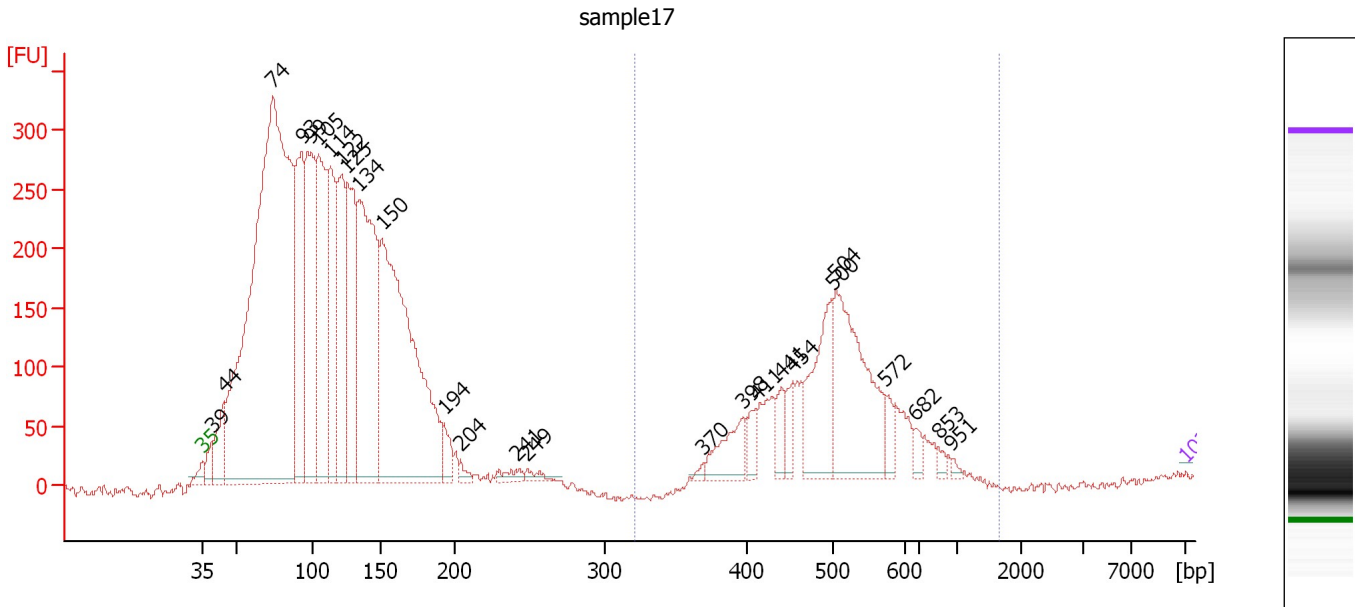
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	377	986,912.5	240,932.05	1,347.9	85	14.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

Created: 1/28/2014 9:55:35 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample17

Number of peaks found: 26 Corr. Area 1: 1,625.5
 Noise: 3.7

Peak table for sample 5 : sample17


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	43.65	39	38,108.68	1,483,461.9	
3	44.56	44	86,224.57	2,938,397.0	
4	48.01	74	1,809,881.38	37,166,424.0	
5	50.06	93	328,795.31	5,359,440.5	
6	50.74	99	361,185.66	5,508,720.5	
7	51.28	105	363,257.13	5,258,229.5	
8	52.15	114	231,712.23	3,092,733.8	
9	52.95	122	265,047.25	3,302,697.3	
10	53.33	125	294,196.28	3,553,524.3	
11	54.16	134	516,656.56	5,846,243.5	
12	55.75	150	783,571.25	7,912,220.5	
13	60.27	194	36,272.47	283,822.8	
14	61.41	204	10,728.41	79,487.7	
15	65.32	241	17,278.19	108,534.6	
16	66.12	249	12,234.35	74,538.5	
17	78.68	370	5,648.57	23,138.1	
18	81.53	398	63,851.10	243,130.2	
19	82.40	411	24,778.02	91,392.3	
20	84.23	441	33,040.86	113,643.4	
21	85.06	454	27,412.86	91,456.6	
22	87.87	500	139,078.44	421,461.7	
23	88.10	504	246,290.17	739,803.6	
24	91.59	572	22,876.22	60,559.4	
25	93.79	682	14,343.13	31,843.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad


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Electropherogram Summary Continued ...

... Peak table for sample 5 : sample17

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	95.39	853	7,808.15	13,865.6	
27	96.30	951	4,253.79	6,777.5	
28	 113.00	10,380	75.00	10.9	Upper Marker

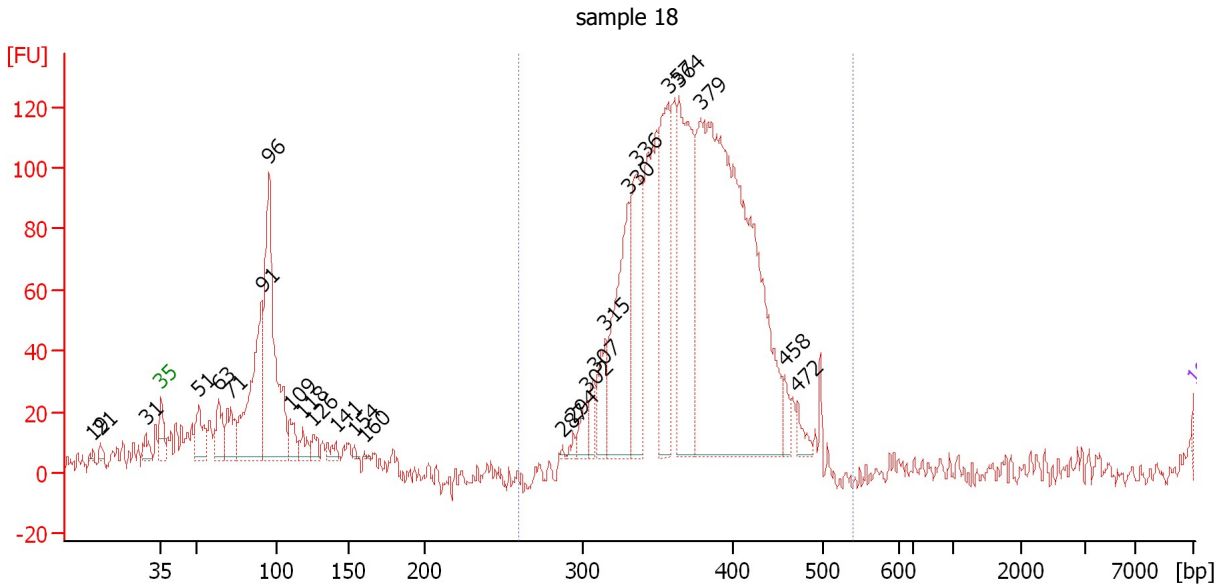
Region table for sample 5 : sample17

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
321	1,638	514	2,292,656.3	744,864.13	1,625.5	17	21.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : sample 18

Height Threshold [FU] : 1

Overall Results for sample 6 : sample 18

Number of peaks found: 26 Corr. Area 1: 1,695.0
 Noise: 4.9

Peak table for sample 6 : sample 18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	38.41	19	0.00	0.0	
2	38.92	21	0.00	0.0	
3	41.95	31	0.00	0.0	
4	43.00	35	125.00	5,411.3	Lower Marker
5	45.60	51	3,098.39	91,590.2	
6	46.90	63	2,691.68	64,304.1	
7	47.73	71	2,909.54	61,920.0	
8	49.83	91	11,640.14	194,243.3	
9	50.34	96	17,956.60	284,807.1	
10	51.75	109	1,742.84	24,130.4	
11	52.61	118	1,096.84	14,057.5	
12	53.34	126	880.16	10,622.5	
13	54.85	141	752.23	8,087.9	
14	56.15	154	234.72	2,310.7	
15	56.80	160	120.06	1,135.7	
16	70.21	287	113.42	598.5	
17	70.93	294	379.98	1,958.9	
18	71.80	302	1,399.86	7,019.7	
19	72.34	307	1,236.03	6,090.6	
20	73.14	315	2,876.92	13,824.3	
21	74.66	330	10,408.10	47,750.9	
22	75.27	336	8,103.46	36,509.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad


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Electropherogram Summary Continued ...

... Peak table for sample 6 : sample 18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	77.37	357	9,137.26	38,787.0	
24	78.13	364	13,835.52	57,526.7	
25	79.57	379	45,091.91	180,441.4	
26	85.32	458	1,081.55	3,575.3	
27	86.15	472	808.15	2,594.7	
28	113.00	10,380	75.00	10.9	Upper Marker

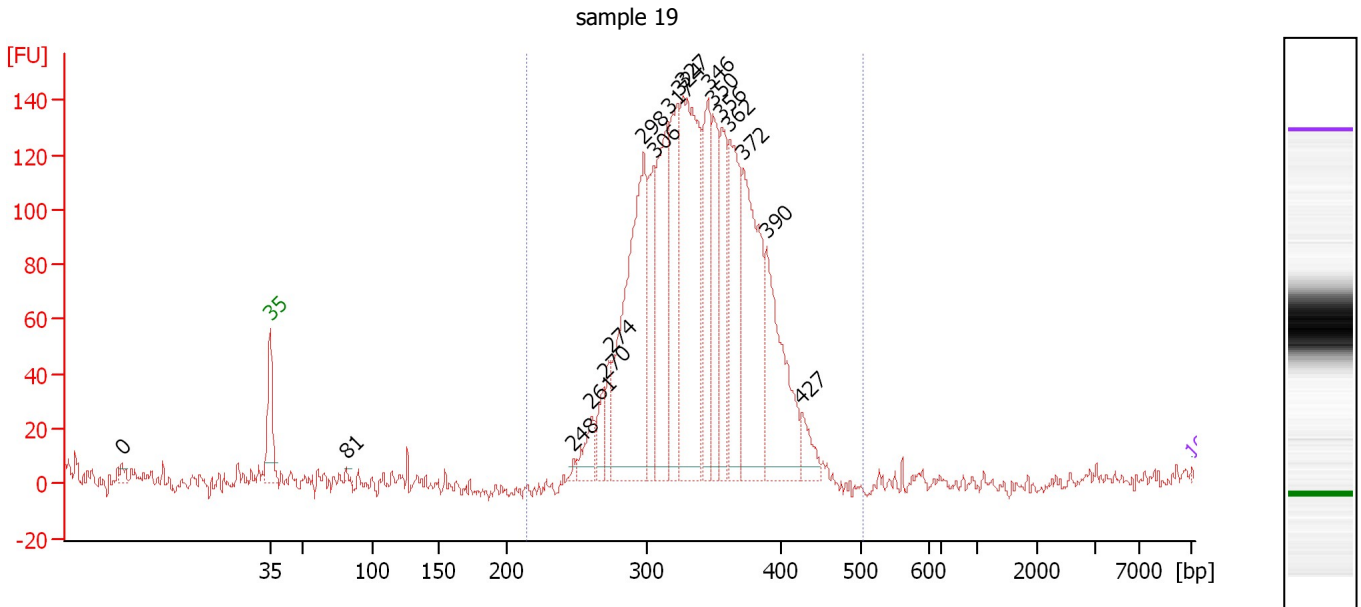
Region table for sample 6 : sample 18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
260	540	374	445,970.9	108,976.66	1,695.0	73	10.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 19

Number of peaks found: 18 Corr. Area 1: 1,983.0
 Noise: 3.7

Peak table for sample 7 : sample 19

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31.74	0	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	48.79	81	899.78	16,811.1	
4	66.05	248	1,411.48	8,621.8	
5	67.43	261	8,432.72	48,958.0	
6	68.36	270	6,539.83	36,737.1	
7	68.84	274	8,480.09	46,843.8	
8	71.36	298	78,939.09	401,540.9	
9	72.17	306	20,531.42	101,748.7	
10	73.26	317	45,103.43	215,917.8	
11	73.99	324	34,172.61	159,962.4	
12	74.35	327	73,332.54	339,506.2	
13	76.26	346	30,339.78	132,855.1	
14	76.66	350	22,823.66	98,804.0	
15	77.31	356	23,345.95	99,255.7	
16	77.92	362	34,837.71	145,668.1	
17	78.93	372	50,078.41	203,788.1	
18	80.75	390	38,428.40	149,189.5	
19	83.39	427	6,277.20	22,281.9	
20	113.00	10,380	75.00	10.9	Upper Marker

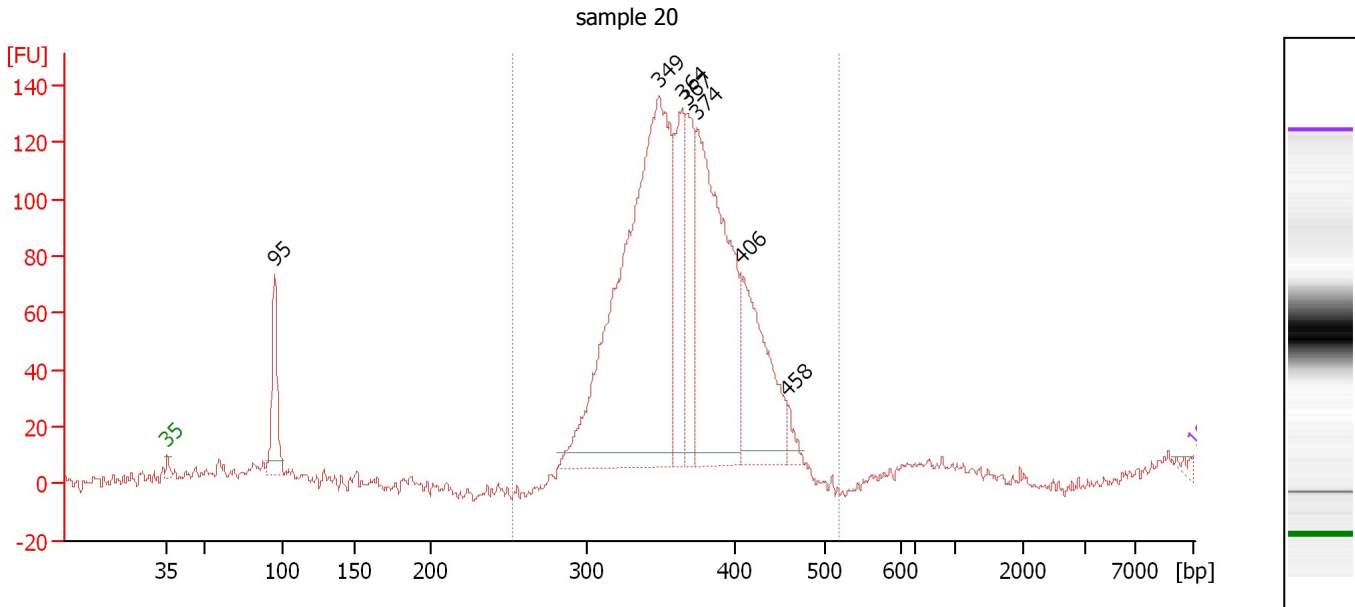
Region table for sample 7 : sample 19

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
214	504	339	2,121,159.5	467,898.09	1,983.0	100	11.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 20

Number of peaks found: 7 Corr. Area 1: 1,802.0
 Noise: 1.5

Peak table for sample 8 : sample 20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	50.31	95	1,919.53	30,526.1	
3	76.56	349	13,984.26	60,708.1	
4	78.13	364	2,563.33	10,657.8	
5	78.42	367	2,090.39	8,623.7	
6	79.15	374	7,332.23	29,669.9	
7	82.09	406	3,315.74	12,383.7	
8	85.29	458	253.54	838.9	
9	113.00	10,380	75.00	10.9	Upper Marker

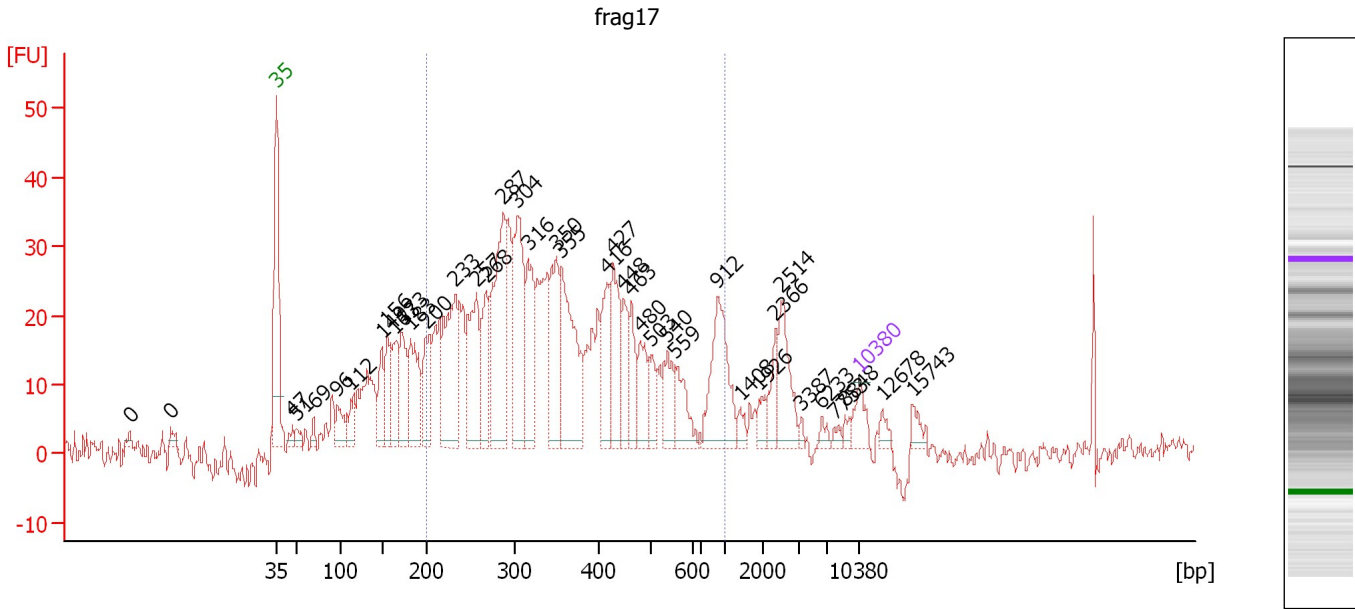
Region table for sample 8 : sample 20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
253	519	366	130,611.0	31,214.83	1,802.0	89	10.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : frag17

Height Threshold [FU] : 1

Overall Results for sample 9 : frag17

Number of peaks found: 40 Corr. Area 1: 642.5
 Noise: 2.1

Peak table for sample 9 : frag17

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	25.42	0	0.00	0.0	
2	30.34	0	0.00	0.0	
3	43.00	35	125.00	5,411.3	Lower Marker
4	44.92	47	40.93	1,329.0	
5	45.56	51	43.04	1,282.9	
6	47.54	69	40.34	881.1	
7	50.35	96	137.46	2,177.0	
8	52.01	112	94.44	1,275.9	
9	55.66	149	180.92	1,838.9	
10	56.36	156	213.79	2,077.9	
11	57.13	163	227.90	2,114.5	
12	58.09	173	254.95	2,238.7	
13	59.17	183	346.15	2,865.4	
14	60.96	200	257.62	1,948.7	
15	64.48	233	542.39	3,522.5	
16	67.04	257	449.33	2,645.9	
17	68.19	268	291.61	1,647.9	
18	70.23	287	667.32	3,519.1	
19	71.96	304	539.44	2,691.3	
20	73.17	316	345.00	1,656.0	
21	76.63	350	394.96	1,711.6	
22	77.20	355	555.59	2,369.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad


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Electropherogram Summary Continued ...

... Peak table for sample 9 : frag17

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	82.70	416	232.88	849.0	
24	83.40	427	301.39	1,069.2	
25	84.68	448	172.14	582.3	
26	85.58	463	145.79	477.6	
27	86.66	480	182.92	577.1	
28	88.00	503	109.82	331.1	
29	89.92	540	160.78	451.2	
30	90.88	559	161.63	438.4	
31	95.93	912	384.33	638.7	
32	98.62	1,408	35.23	37.9	
33	100.98	1,926	47.63	37.5	
34	102.90	2,366	100.23	64.2	
35	103.54	2,514	190.51	114.8	
36	105.97	3,387	14.17	6.3	
37	108.40	6,233	24.74	6.0	
38	109.93	7,753	19.28	3.8	
39	111.21	8,848	21.19	3.6	
40	113.00	10,380	75.00	10.9	Upper Marker
41	115.68	12,678	0.00	0.0	
42	119.26	15,743	0.00	0.0	

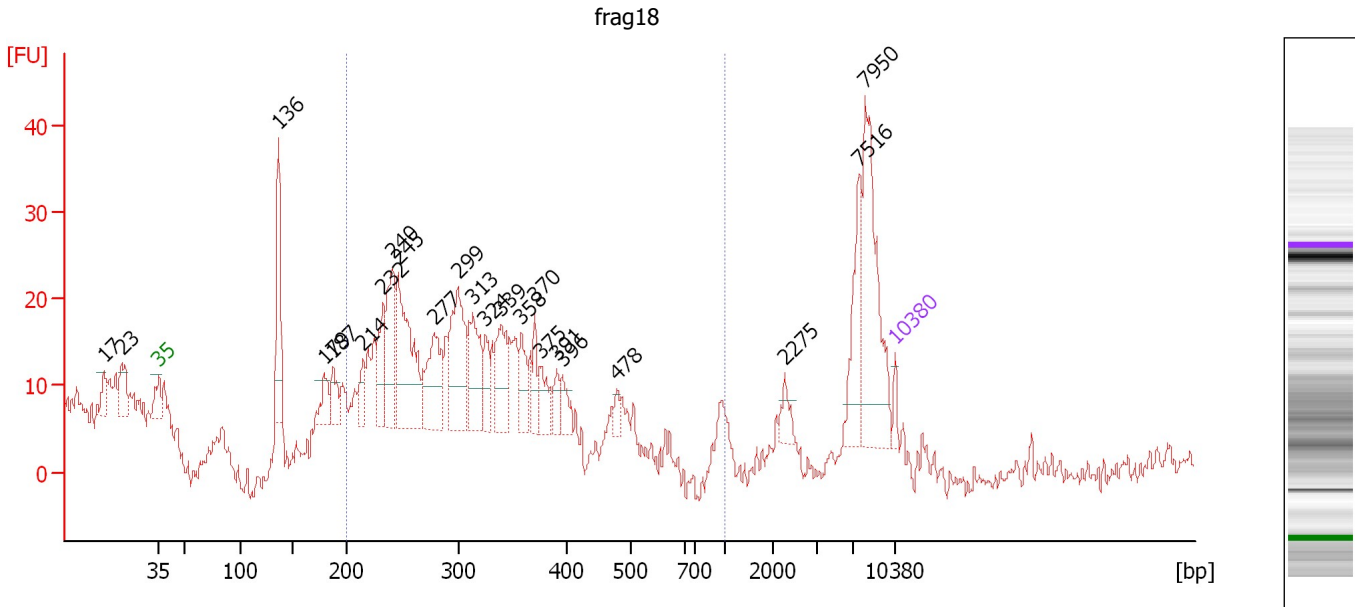
Region table for sample 9 : frag17

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	377	33,383.3	7,122.64	642.5	74	41.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : frag18

Number of peaks found: 23 Corr. Area 1: 296.4
 Noise: 1.6


Peak table for sample 10 : frag18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	37.78	17	0.00	0.0	
2	39.45	23	0.00	0.0	
3	43.00	35	125.00	5,411.3	Lower Marker
4	54.35	136	1,126.63	12,564.4	
5	58.71	179	300.27	2,547.4	
6	59.57	187	290.56	2,355.4	
7	62.41	214	252.08	1,785.5	
8	64.29	232	536.57	3,511.6	
9	65.20	240	842.94	5,319.8	
10	65.76	245	1,453.53	8,977.5	
11	69.15	277	847.22	4,630.9	
12	71.49	299	1,060.72	5,373.5	
13	72.86	313	716.77	3,475.1	
14	74.07	324	281.83	1,316.0	
15	75.59	339	573.78	2,561.0	
16	77.47	358	326.85	1,383.6	
17	78.73	370	231.70	947.8	
18	79.24	375	266.57	1,076.0	
19	80.81	391	151.82	588.5	
20	81.37	396	204.48	781.7	
21	86.54	478	97.97	310.3	
22	102.51	2,275	138.79	92.4	
23	109.65	7,516	563.55	113.6	
24	110.16	7,950	1,220.48	232.6	
25	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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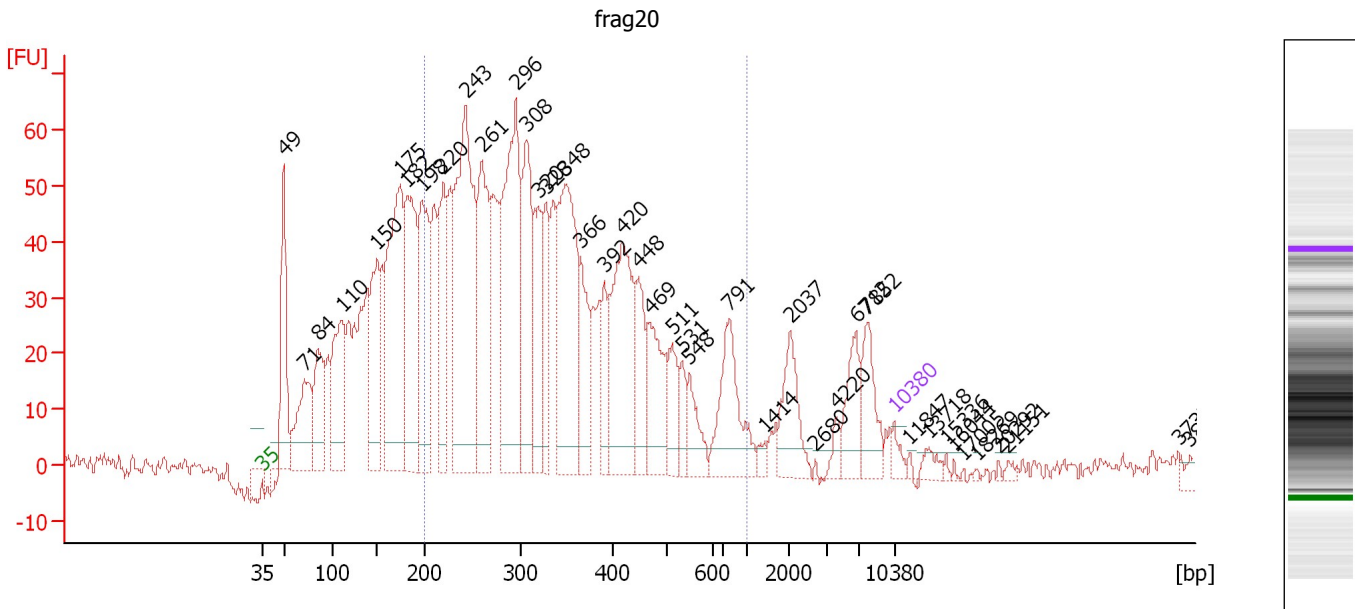
Electropherogram Summary Continued ...**... Region table for sample 10 : frag18**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
200	1,000	312	48,572.7	9,308.38	296.4	63	30.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : frag20

Number of peaks found: 41 Corr. Area 1: 1,396.0
 Noise: 1.4

Peak table for sample 11 : frag20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.36	49	1,096.34	33,651.1	
3	47.67	71	873.10	18,747.3	
4	49.14	84	737.46	13,242.9	
5	51.80	110	1,144.31	15,761.4	
6	55.76	150	1,065.91	10,759.9	
7	58.36	175	2,303.89	19,927.4	
8	59.07	182	1,685.35	14,029.6	
9	60.72	198	1,380.81	10,567.9	
10	63.08	220	1,018.34	7,006.7	
11	65.57	243	2,804.69	17,452.0	
12	67.40	261	1,438.00	8,357.8	
13	71.12	296	2,238.22	11,471.4	
14	72.36	308	1,285.04	6,329.2	
15	73.60	320	771.09	3,652.8	
16	74.43	328	577.83	2,669.4	
17	76.49	348	1,897.49	8,253.6	
18	78.32	366	584.47	2,417.2	
19	80.92	392	373.75	1,444.8	
20	82.99	420	1,438.51	5,184.7	
21	84.70	448	501.82	1,695.9	
22	85.95	469	710.67	2,298.0	
23	88.43	511	367.51	1,090.1	
24	89.49	531	203.76	580.9	
25	90.32	548	301.40	834.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 11 : frag20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	94.81	791	781.40	1,496.8	
27	98.65	1,414	60.62	64.9	
28	101.48	2,037	420.98	313.1	
29	104.26	2,680	10.19	5.8	
30	106.68	4,220	85.08	30.5	
31	108.81	6,712	347.24	78.4	
32	110.05	7,852	364.87	70.4	
33	113.00	10,380	75.00	10.9	Upper Marker
34	114.71	11,847	0.00	0.0	
35	116.90	13,718	0.00	0.0	
36	118.79	15,336	0.00	0.0	
37	119.62	16,044	0.00	0.0	
38	120.74	17,005	0.00	0.0	
39	122.22	18,269	0.00	0.0	
40	124.58	20,292	0.00	0.0	
41	125.58	21,151	0.00	0.0	
42	144.49	37,333	0.00	0.0	
43	145.78	38,446	0.00	0.0	

Region table for sample 11 : frag20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	347	103,254.3	20,739.54	1,396.0	64	37.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-28\2014-01-28_001.xad

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Gel Image

