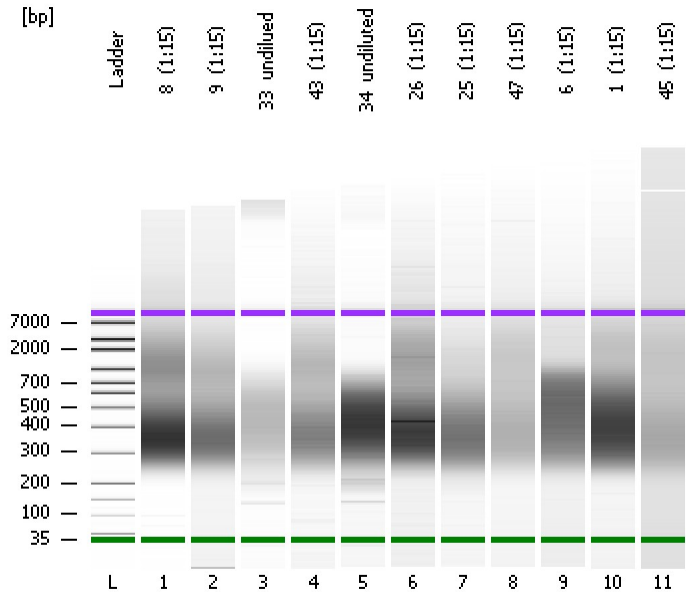


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
Modified: 8/7/2017 1:09:11 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

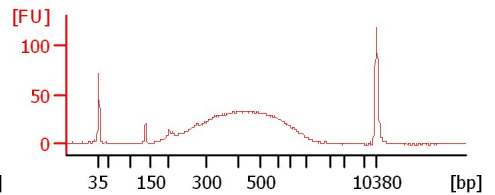
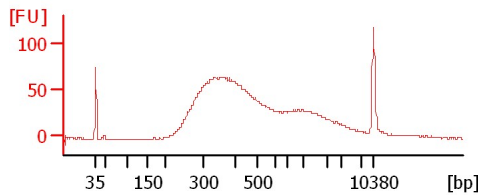
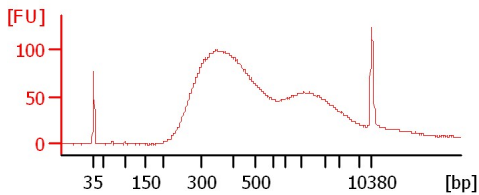
Chip Information:

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

8_(1:15)

9_(1:15)

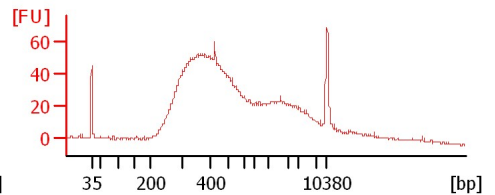
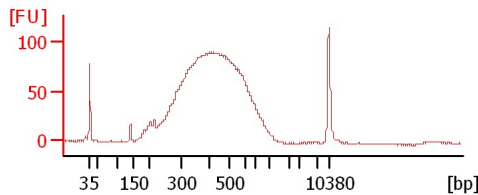
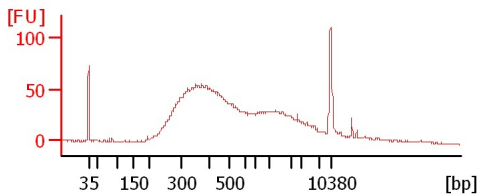
33_undilued



43_(1:15)

34_undiluted

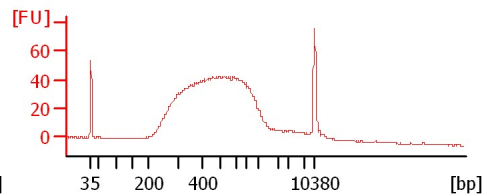
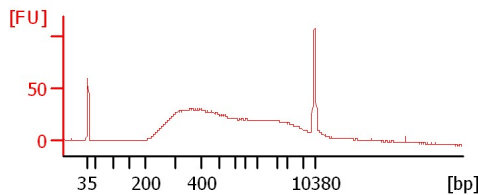
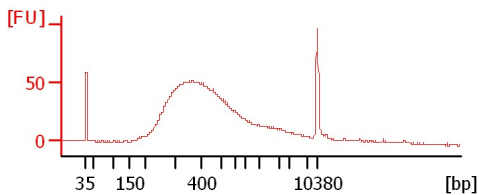
26_(1:15)



25_(1:15)

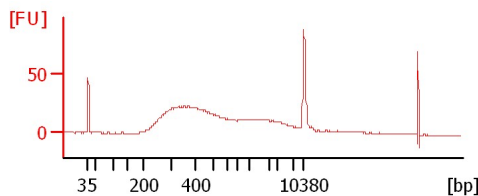
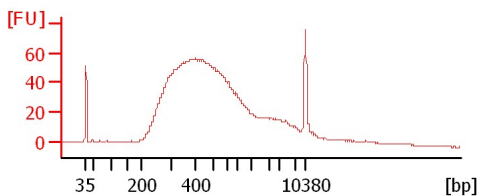
47_(1:15)

6_(1:15)



1_(1:15)

45_(1:15)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
Modified: 8/7/2017 1:09:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
8_(1:15)		<input type="checkbox"/>	✓			
9_(1:15)		<input type="checkbox"/>	✓			
33_undilued		<input type="checkbox"/>	✓			
43_(1:15)		<input type="checkbox"/>	✓			
34_undiluted		<input type="checkbox"/>	✓			
26_(1:15)		<input type="checkbox"/>	✓			
25_(1:15)		<input type="checkbox"/>	✓			
47_(1:15)		<input type="checkbox"/>	✓			
6_(1:15)		<input type="checkbox"/>	✓			
1_(1:15)		<input type="checkbox"/>	✓			
45_(1:15)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

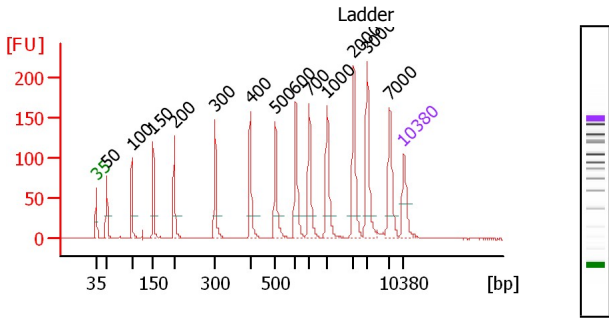
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary



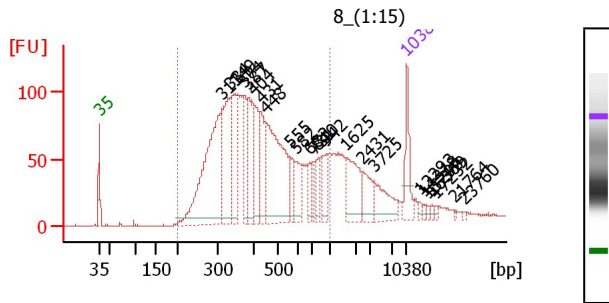
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.95
5	200	150.00	1,136.4	Ladder Peak	60.74
6	300	150.00	757.6	Ladder Peak	70.07
7	400	150.00	568.2	Ladder Peak	78.08
8	500	150.00	454.5	Ladder Peak	83.79
9	600	150.00	378.8	Ladder Peak	88.43
10	700	150.00	324.7	Ladder Peak	91.43
11	1,000	150.00	227.3	Ladder Peak	95.56
12	2,000	150.00	113.6	Ladder Peak	101.63
13	3,000	150.00	75.8	Ladder Peak	104.69

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	109.74
15	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 1

Number of peaks found: 24
 Noise: 0.4
 Corr. Area 1: 2,630.5

Region table for sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	450	2,630.5	10,261.6	2,595.5	79	37.8

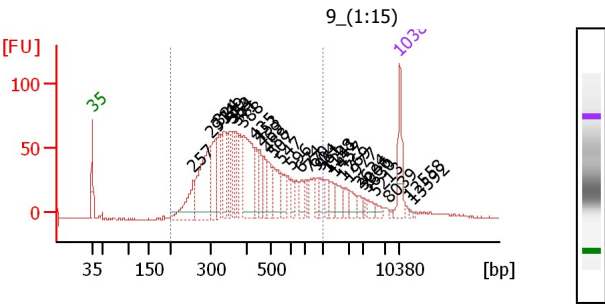
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...

Peak table for sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00	23	16,369	0.00	0.0		118.78
2	311	593.11	2,893.7		70.92	24	17,232	0.00	0.0		119.61
3	334	246.39	1,117.8		72.79	25	21,764	0.00	0.0		123.99
4	349	181.48	788.0		73.99	26	23,760	0.00	0.0		125.92
5	374	103.56	419.2		76.02						
6	387	182.69	715.9		77.01						
7	404	133.78	501.6		78.31						
8	431	116.93	411.5		79.82						
9	448	405.74	1,372.5		80.81						
10	555	58.59	160.0		86.33						
11	582	87.30	227.3		87.58						
12	683	38.91	86.3		90.92						
13	731	30.16	62.5		91.85						
14	810	45.71	85.5		92.95						
15	942	58.78	94.5		94.77						
16	1,625	114.63	106.9		99.35						
17	2,431	62.37	38.9		102.95						
18	3,725	80.96	32.9		105.60						
19	10,380	75.00	10.9	Upper Marker	113.00						
20	13,293	0.00	0.0		115.81						
21	14,318	0.00	0.0		116.80						
22	15,290	0.00	0.0		117.74						



Overall Results for sample 2

Number of peaks found: 32
 Noise: 0.5
 Corr. Area 1: 1,817.0

Region table for sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	444	1,817.0	7.4690	1,870.2	84	37.5

Peak table for sample 2

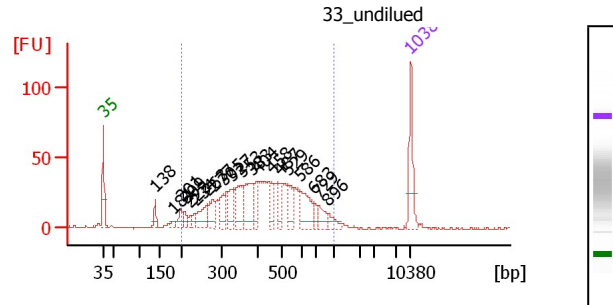
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00
2	257	116.58	688.5		66.02
3	297	262.24	1,337.3		69.80
4	314	133.46	644.6		71.17
5	324	98.70	462.2		71.96
6	339	82.99	371.3		73.17
7	353	70.75	303.6		74.32
8	364	69.30	288.8		75.16
9	371	66.38	271.2		75.74
10	388	231.04	902.5		77.11
11	435	60.17	209.3		80.10
12	453	58.67	196.3		81.10
13	469	59.55	192.5		81.99
14	488	51.35	159.4		83.10
15	507	77.78	232.6		84.10
16	547	52.96	146.6		85.99
17	596	24.58	62.5		88.25
18	674	44.62	100.2		90.67
19	770	20.46	40.3		92.40
20	904	25.69	43.1		94.24
21	961	20.54	32.4		95.03
22	1,128	17.34	23.3		96.34
23	1,241	30.99	37.8		97.02
24	1,457	36.89	38.4		98.34
25	1,769	19.16	16.4		100.23

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
26	1,977	26.50	20.3		101.49
27	2,624	15.29	8.8		103.54
28	3,006	7.34	3.7		104.70
29	3,630	17.07	7.1		105.48
30	5,213	12.36	3.6		107.48
31	8,039	4.03	0.8		110.74
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,558	0.00	0.0		115.10
34	13,592	0.00	0.0		116.10



Overall Results for sample 3 : 33_undilued

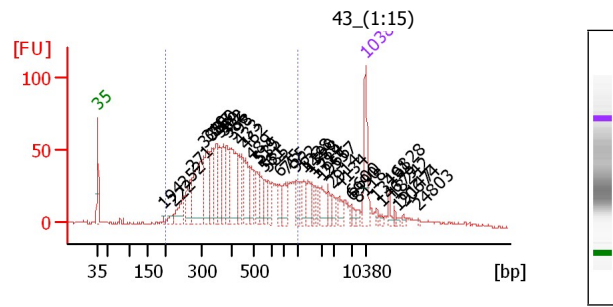
Number of peaks found: 20
 Noise: 0.3
 Corr. Area 1: 794.5

Region table for sample 3 : 33_undilued

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	431	794.5	3,520.9	875.99	96	30.5

Peak table for sample 3 : 33_undilued

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	138	34.00	372.0		54.84
3	181	13.06	109.5		58.89
4	201	38.07	287.4		60.81
5	209	22.27	161.2		61.61
6	222	13.55	92.6		62.78
7	234	20.25	131.2		63.90
8	263	71.34	411.1		66.62
9	277	58.74	321.0		67.95
10	305	53.92	267.4		70.51
11	327	54.09	250.3		72.27
12	353	80.58	346.1		74.29
13	383	104.18	412.4		76.69
14	404	48.42	181.7		78.29
15	458	30.18	99.8		81.39
16	487	29.04	90.4		83.04
17	529	43.48	124.6		85.12
18	586	84.81	219.2		87.78
19	683	16.15	35.8		90.93
20	729	34.39	71.5		91.83
21	896	23.10	39.1		94.13
22	10,380	75.00	10.9	Upper Marker	113.00



Overall Results for sample 4

Number of peaks found: 40
 Noise: 0.8
 Corr. Area 1: 1,537.2

Region table for sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total	Size distribution CV [%]
200	1,000	453	1,537.2	6,461.2	1,636.7	77	37.9

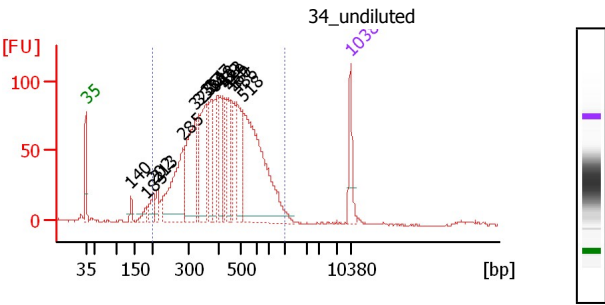
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...

Peak table for sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00	27	1,714	20.75	18.3		99.90
2	194	4.23	33.1		60.15	28	1,966	38.74	29.9		101.42
3	222	18.06	123.4		62.77	29	2,557	19.41	11.5		103.34
4	252	67.91	408.1		65.61	30	2,914	16.15	8.4		104.43
5	271	80.36	448.6		67.41	31	4,134	18.00	6.6		106.12
6	308	224.54	1,105.9		70.68	32	6,600	8.88	2.0		109.23
7	319	112.71	535.0		71.61	33	6,990	6.25	1.4		109.72
8	337	81.91	368.3		73.03	34	8,118	8.52	1.6		110.82
9	350	78.06	338.0		74.07	35	10,380	75.00	10.9	Upper Marker	113.00
10	359	72.18	304.8		74.78	36	13,491	0.00	0.0		116.00
11	372	70.49	287.3		75.82	37	14,679	0.00	0.0		117.15
12	386	63.93	250.9		76.96	38	16,828	0.00	0.0		119.22
13	398	151.10	575.7		77.89	39	18,242	0.00	0.0		120.59
14	433	60.23	210.7		79.97	40	19,147	0.00	0.0		121.46
15	462	84.91	278.6		81.60	41	20,674	0.00	0.0		122.94
16	489	39.28	121.8		83.13	42	24,803	0.00	0.0		126.92
17	519	32.74	95.6		84.66						
18	535	46.95	132.9		85.43						
19	561	33.57	90.6		86.63						
20	585	31.61	81.9		87.72						
21	675	24.25	54.5		90.67						
22	755	38.28	76.8		92.20						
23	962	24.29	38.3		95.04						
24	1,228	31.60	39.0		96.95						
25	1,390	27.04	29.5		97.93						
26	1,588	19.94	19.0		99.13						



Peak table for sample 5 : 34 undiluted

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	140	27.46	297.0		54.99
3	183	34.22	283.9		59.08
4	202	67.78	509.2		60.90
5	213	42.88	305.1		61.95
6	285	313.76	1,670.4		68.64
7	325	314.46	1,466.7		72.06
8	335	89.04	402.5		72.89
9	361	224.94	944.8		74.93
10	377	119.79	481.1		76.26
11	388	111.87	437.3		77.09
12	409	84.49	313.1		78.58
13	422	102.42	367.4		79.35
14	439	131.52	454.1		80.29
15	460	96.99	319.4		81.51
16	486	164.42	512.4		83.00
17	518	648.82	1,899.3		84.60
18	10,380	75.00	10.9	Upper Marker	113.00

Overall Results for sample 5 : 34 undiluted

Number of peaks found: 16
 Noise: 0.4
 Corr. Area 1: 2,526.3

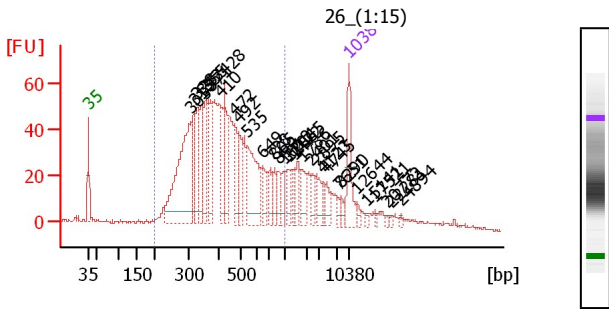
Region table for sample 5 : 34 undiluted

From [bp]	To [bp]	Average Size [bp]	Corrected Area	Molarity [pmol/l]	Concentration [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	439	2,526.3	10,667.1	2,692.9	96	31.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...



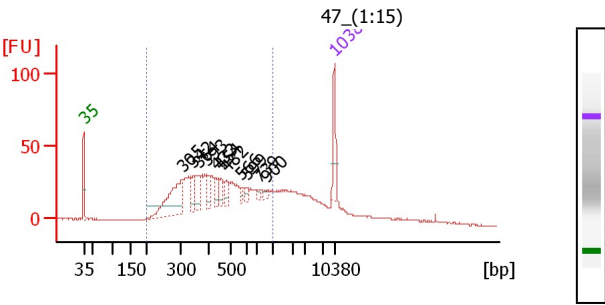
Assay Class: High Sensitivity DNA Assay
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Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...

Peak table for sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time	Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time
1	35	125.00	5,411.3	Lower Marker	43.00	25	13,219	0.00	0.0		115.74
2	299	422.80	2,140.4		70.01						
3	321	159.76	755.1		71.72						
4	353	94.95	407.9		74.29						
5	363	97.50	407.3		75.09						
6	385	81.88	322.4		76.86						
7	406	63.87	238.5		78.40						
8	422	72.37	260.0		79.31						
9	438	60.94	211.0		80.23						
10	459	71.25	235.4		81.43						
11	479	140.26	444.0		82.57						
12	528	51.16	146.8		85.08						
13	552	139.68	383.0		86.22						
14	778	28.57	55.7		92.50						
15	890	12.19	20.8		94.04						
16	960	11.34	17.9		95.01						
17	1,248	13.47	16.3		97.07						
18	1,681	9.68	8.7		99.70						
19	1,841	8.76	7.2		100.67						
20	2,040	7.13	5.3		101.75						
21	2,338	10.22	6.6		102.67						
22	3,839	6.38	2.5		105.75						
23	6,599	3.18	0.7		109.23						
24	10,380	75.00	10.9	Upper Marker	113.00						



Overall Results for sample 8

Number of peaks found: 11
 Noise: 0.2
 Corr. Area 1: 1,000.1

Region table for sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	469	1,000.1	6.0166	1,557.4	38.0	7

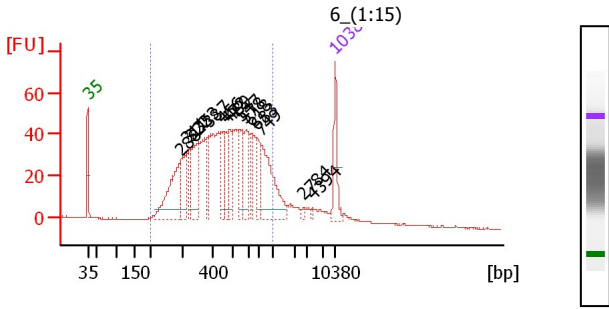
Peak table for sample 8

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	305	253.38	1,257.9		70.49
3	342	63.76	282.8		73.40
4	364	77.75	323.5		75.20
5	393	43.81	168.8		77.53
6	433	42.87	149.9		79.98
7	454	41.73	139.3		81.14
8	482	33.47	105.1		82.78
9	566	18.78	50.3		86.85
10	599	16.77	42.4		88.37
11	739	10.30	21.1		91.98
12	900	10.94	18.4		94.19
13	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...



Peak table for sample 9

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	288	234.33	1,232.0		68.97
3	311	134.50	654.6		70.98
4	322	63.32	297.6		71.86
5	353	159.39	684.9		74.28
6	387	60.57	237.4		77.00
7	456	103.18	343.2		81.25
8	472	59.86	192.1		82.19
9	489	80.97	251.1		83.13
10	547	86.47	239.5		85.97
11	578	104.69	274.7		87.38
12	618	49.30	120.8		88.98
13	683	62.78	139.2		90.93
14	749	221.18	447.5		92.11
15	2,784	6.81	3.7		104.03
16	4,394	4.13	1.4		106.45
17	10,380	75.00	10.9	Upper Marker	113.00

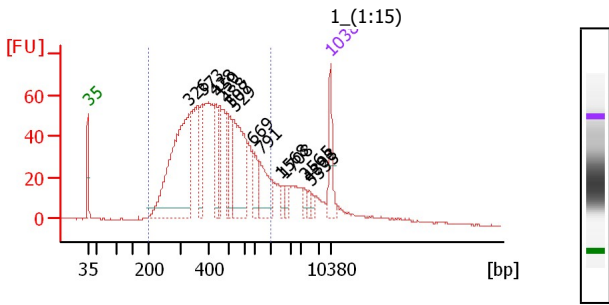
Overall Results for sample 9

Number of peaks found: 15
 Noise: 0.2
 Corr. Area 1: 1,374.2

Region table for sample 9

From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Size distribution Total in CV [%]
200	1,000	487	1,374	7,465.5	2,027.8
2	4	88	35.4		

200 1,000 487 1,374 7,465.5 2,027.8 88 35.4



Peak table for sample 10

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	326	649.44	3,015.1		72.18
3	373	102.52	416.4		75.92
4	428	90.05	319.0		79.66
5	450	75.93	255.7		80.92
6	488	79.26	246.2		83.09
7	507	65.93	197.0		84.12
8	529	279.04	798.8		85.14
9	669	84.45	191.2		90.51
10	791	120.62	231.2		92.68
11	1,568	15.09	14.6		99.01
12	1,708	16.57	14.7		99.86
13	3,565	16.73	7.1		105.40
14	4,808	12.46	3.9		106.97
15	5,333	11.47	3.3		107.63
16	10,380	75.00	10.9	Upper Marker	113.00

Overall Results for sample 10

Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 1,695.2

Region table for sample 10

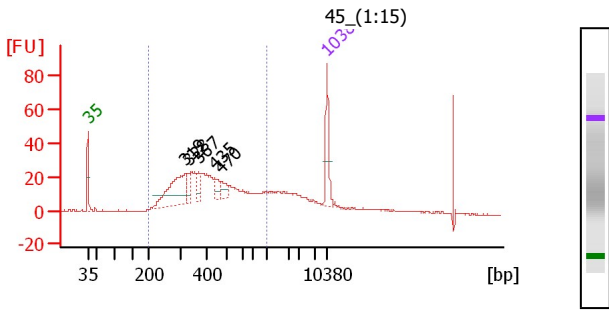
From To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Size distribution Total in CV [%]
200	1,000	454	1,695	9,602.6	2,459.2
2	4	83	35.4		

200 1,000 454 1,695 9,602.6 2,459.2 83 35.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
 Modified: 8/7/2017 1:09:11 PM

Electropherogram Summary Continued ...



Peak table for sample 11

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	319	233.29	1,107.3		71.61
3	328	33.19	153.1		72.34
4	367	36.79	151.7		75.46
5	435	35.72	124.5		80.05
6	470	31.26	100.8		82.07
7	10,380	75.00	10.9	Upper Marker	113.00

Overall Results for sample 11

Number of peaks found: 5
 Noise: 0.2
 Corr. Area 1: 658.1

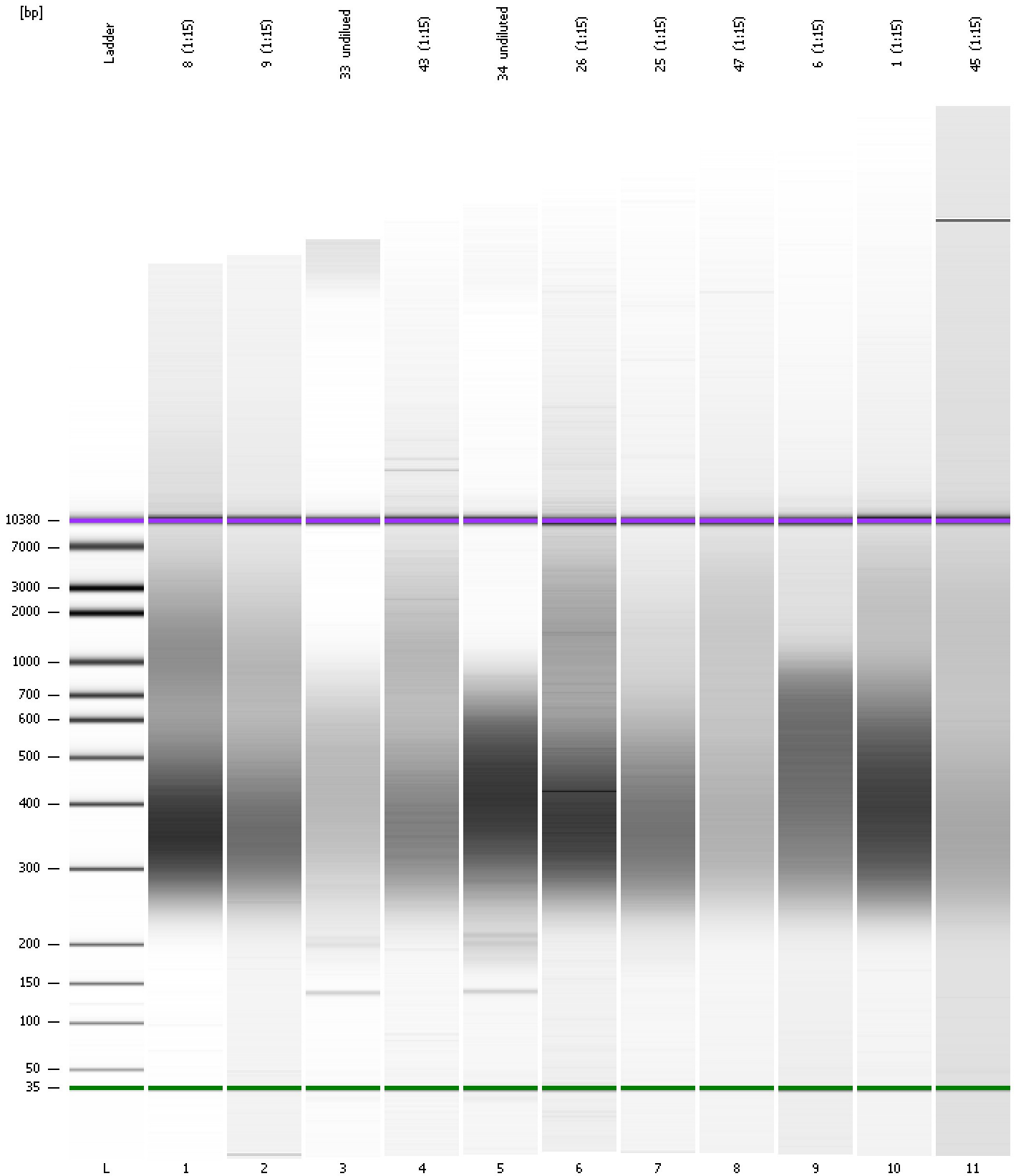
Region table for sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Conc. [pg/μl]	% of Total in CV [%]	Size distribution
200	1,000	443	658.1	3,991.0	984.49	74	38.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
Modified: 8/7/2017 1:09:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-07\2017-08-07_002.xad

Created: 8/7/2017 12:09:03 PM
Modified: 8/7/2017 1:09:11 PM

Curves

Standard Curve

