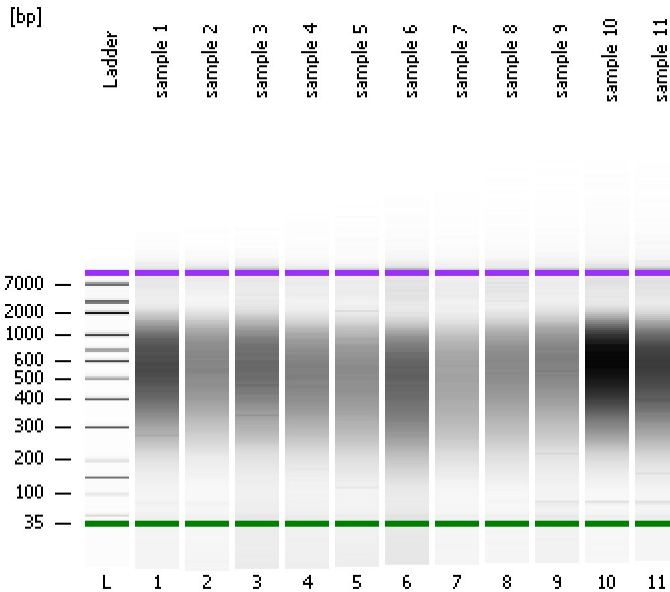


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 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

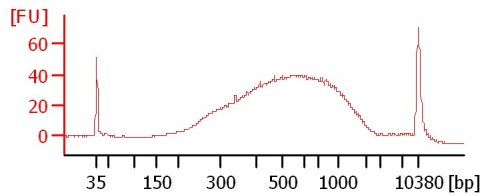
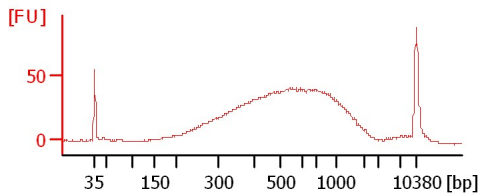
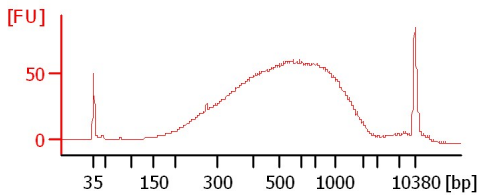
Chip Information:

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

sample 1

sample 2

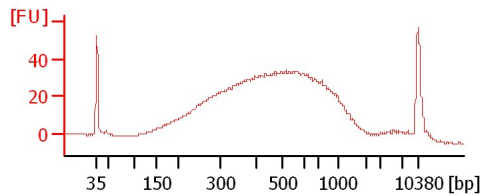
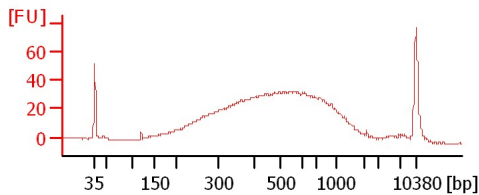
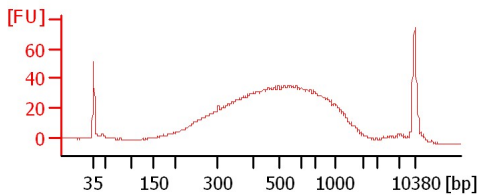
sample 3



sample 4

sample 5

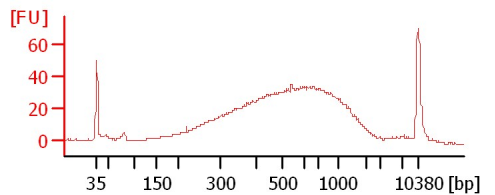
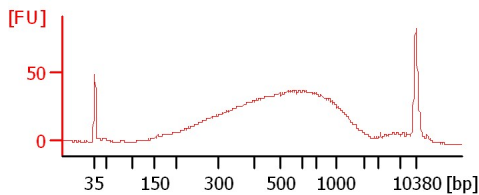
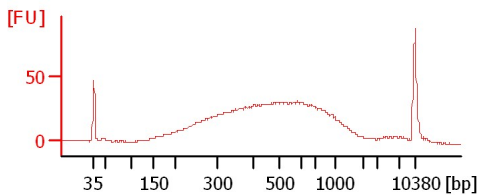
sample 6



sample 7

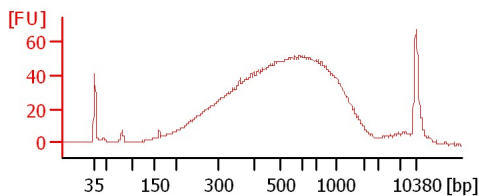
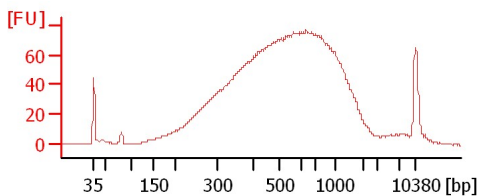
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 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\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 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

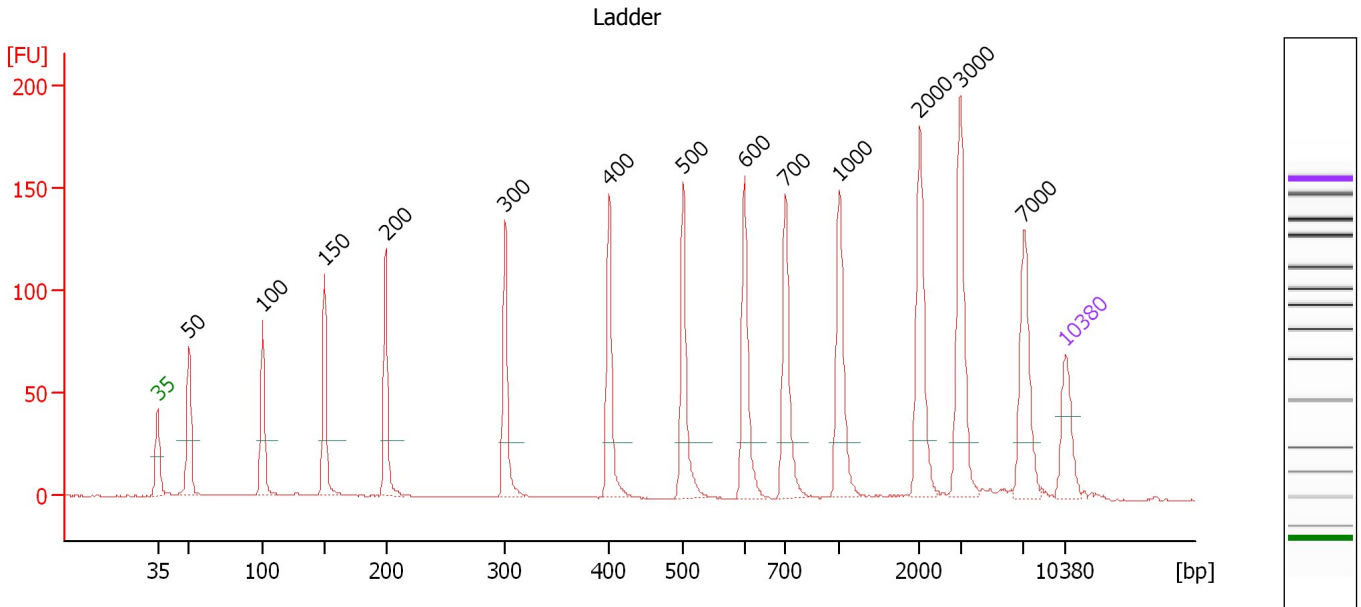
Ladder

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\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

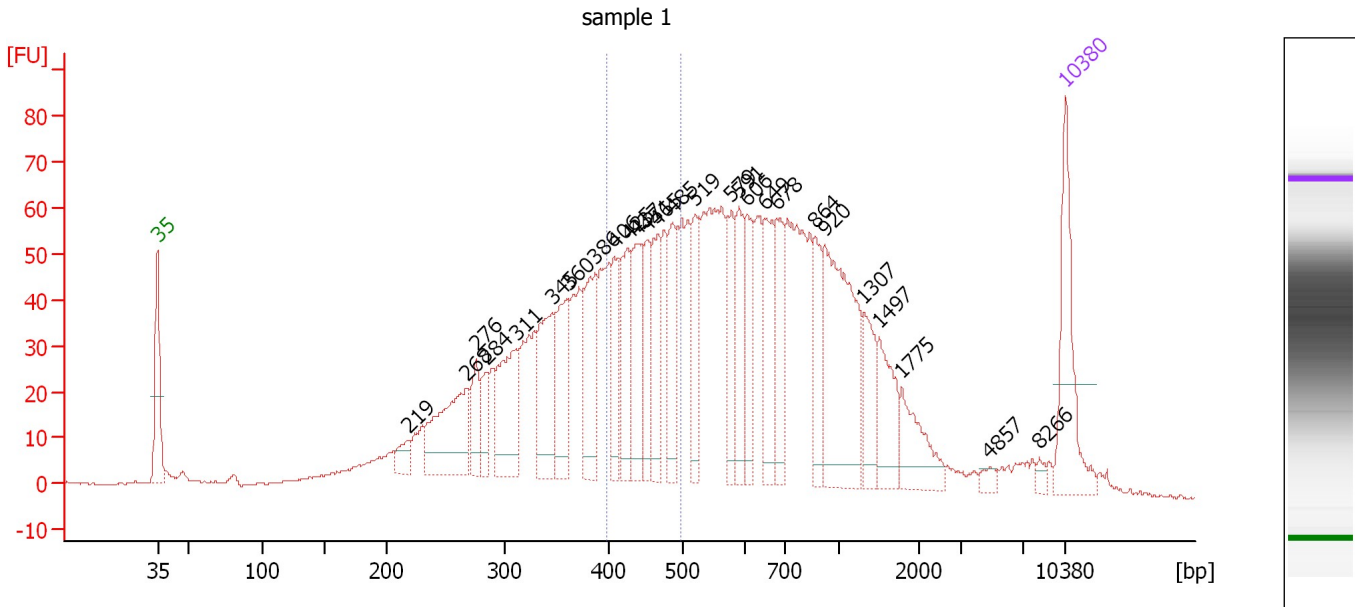
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.43
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.87
5	200	150.00	1,136.4	Ladder Peak	60.59
6	300	150.00	757.6	Ladder Peak	69.80
7	400	150.00	568.2	Ladder Peak	77.82
8	500	150.00	454.5	Ladder Peak	83.54
9	600	150.00	378.8	Ladder Peak	88.26
10	700	150.00	324.7	Ladder Peak	91.42
11	1,000	150.00	227.3	Ladder Peak	95.55
12	2,000	150.00	113.6	Ladder Peak	101.78
13	3,000	150.00	75.8	Ladder Peak	104.89
14	7,000	150.00	32.5	Ladder Peak	109.79
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 27 Corr. Area 1: 392.2
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	219	20.20	139.9		62.32
3	268	119.51	676.2		66.83
4	276	41.55	228.3		67.56
5	284	29.79	158.9		68.34
6	311	100.08	487.9		70.66
7	345	95.27	417.9		73.44
8	360	78.65	330.8		74.63
9	386	88.11	345.5		76.72
10	406	48.99	182.6		78.18
11	425	72.56	258.4		79.28
12	437	74.72	258.8		79.96
13	451	51.29	172.3		80.73
14	465	67.43	219.6		81.55
15	485	69.74	217.8		82.69
16	519	57.43	167.8		84.43
17	579	49.32	129.1		87.25
18	591	56.45	144.7		87.84
19	606	54.83	137.2		88.44
20	649	69.25	161.7		89.80
21	678	58.56	130.9		90.71
22	864	45.97	80.6		93.68
23	920	172.03	283.2		94.45
24	1,307	39.45	45.7		97.46
25	1,497	50.38	51.0		98.64

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,775	46.03	39.3		100.38
27	4,857	6.53	2.0		107.17
28	8,266	5.04	0.9		110.99
29	10,380	75.00	10.9	Upper Marker	113.00

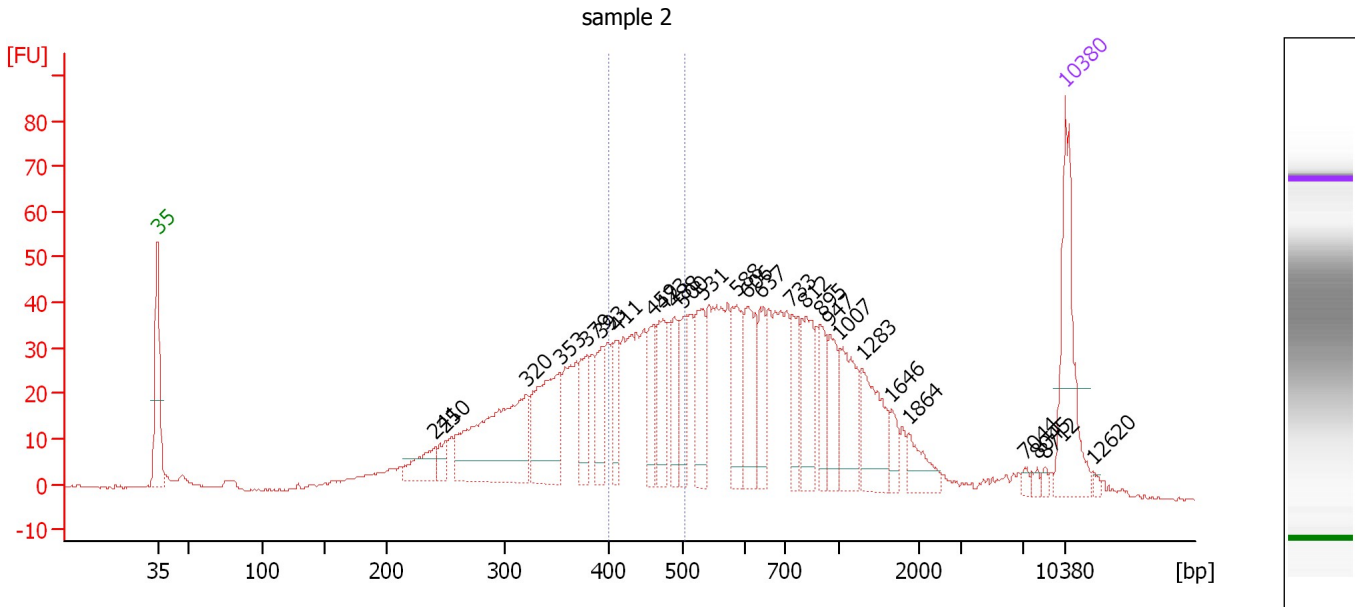
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
398	497	448	392.2	1,754.7	518.08	17	6.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 27 Corr. Area 1: 266.6
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	241	33.06	207.6		64.39
3	250	14.29	86.6		65.20
4	320	170.89	807.9		71.44
5	353	99.92	429.3		74.02
6	379	37.73	151.0		76.10
7	393	34.67	133.8		77.23
8	411	31.21	115.0		78.45
9	459	35.69	117.7		81.21
10	473	44.51	142.7		81.98
11	488	34.05	105.6		82.88
12	500	34.34	104.2		83.52
13	531	52.15	148.8		85.01
14	588	46.65	120.3		87.68
15	606	57.15	142.9		88.45
16	637	37.98	90.3		89.44
17	733	36.60	75.6		91.88
18	812	49.23	91.8		92.97
19	895	25.16	42.6		94.10
20	947	34.97	55.9		94.82
21	1,007	49.99	75.2		95.59
22	1,283	51.06	60.3		97.31
23	1,646	13.62	12.5		99.57
24	1,864	21.66	17.6		100.93
25	7,044	3.31	0.7		109.83

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,045	3.70	0.7		110.78
27	8,712	2.99	0.5		111.42
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,620	0.00	0.0		115.13

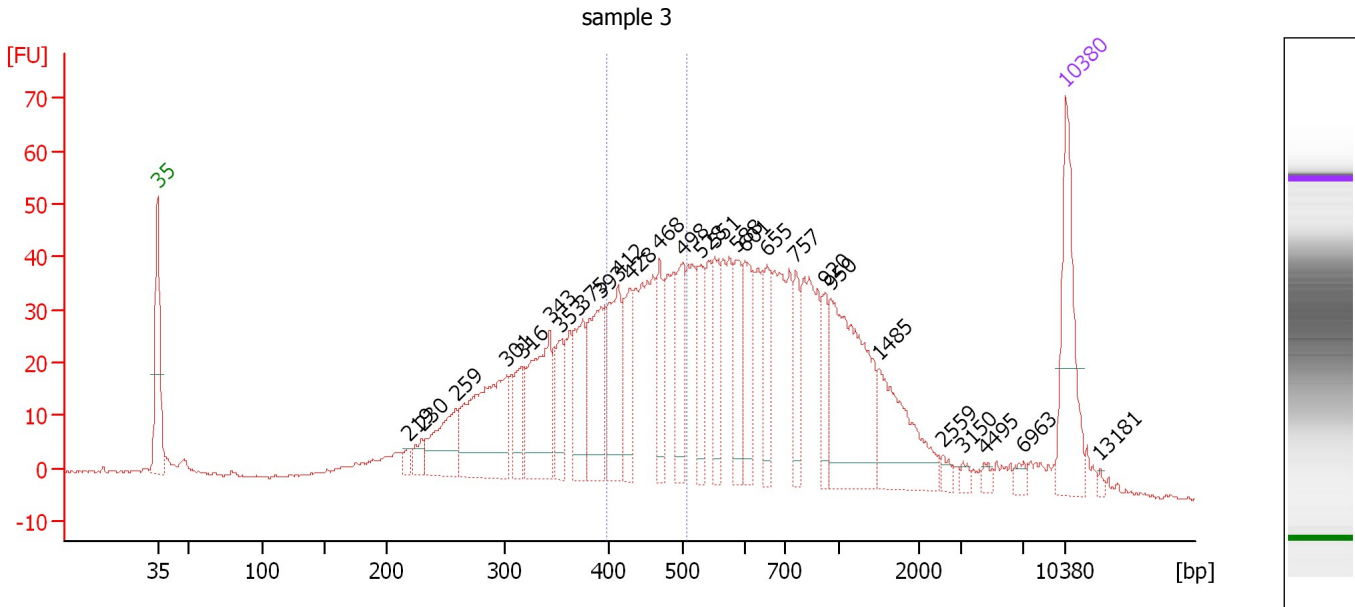
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
400	503	452	266.6	1,153.2	343.74	18	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 27 Corr. Area 1: 297.2
 Noise: 0.3

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	219	8.35	57.7		62.38
3	230	14.58	95.9		63.39
4	259	66.59	390.0		66.00
5	301	149.06	750.0		69.89
6	316	36.70	176.0		71.08
7	343	108.71	480.4		73.24
8	353	47.32	203.4		74.01
9	375	61.56	248.8		75.80
10	393	83.63	322.8		77.22
11	412	80.05	294.4		78.50
12	428	48.34	171.1		79.42
13	468	42.72	138.3		81.71
14	498	55.77	169.5		83.45
15	528	44.40	127.4		84.87
16	551	44.16	121.3		85.97
17	588	44.74	115.2		87.71
18	601	52.04	131.1		88.31
19	655	40.11	92.8		90.00
20	757	34.64	69.4		92.20
21	920	31.06	51.2		94.45
22	950	143.88	229.5		94.86
23	1,485	78.22	79.8		98.57
24	2,559	6.03	3.6		103.52
25	3,150	4.24	2.0		105.07

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,495	4.68	1.6		106.72
27	6,963	5.61	1.2		109.75
28	10,380	75.00	10.9	Upper Marker	113.00
29	13,181	0.00	0.0		115.66

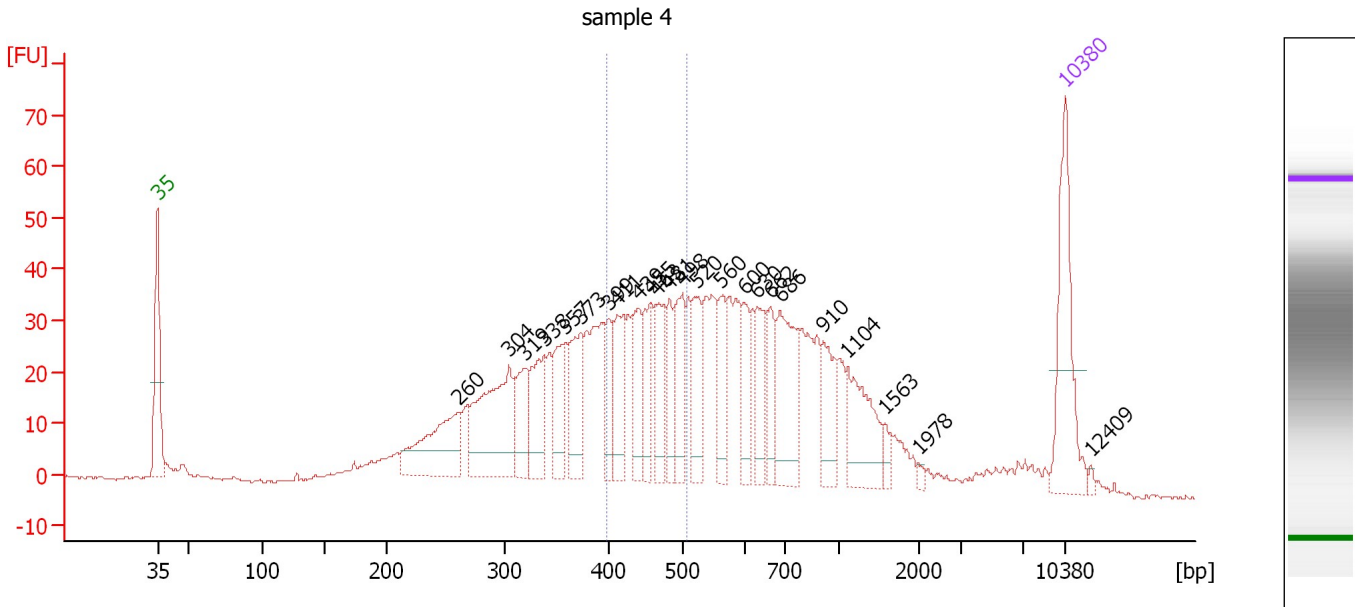
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
397	505	451	297.2	1,456.3	432.59	19	7.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 24 Corr. Area 1: 265.4
 Noise: 0.3

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	260	94.16	548.1		66.15
3	304	128.71	642.3		70.09
4	319	43.56	207.0		71.31
5	338	58.45	262.4		72.81
6	357	49.55	210.0		74.41
7	373	61.08	248.3		75.63
8	399	33.63	127.7		77.74
9	411	50.07	184.6		78.45
10	439	45.43	156.9		80.04
11	455	40.41	134.5		80.98
12	463	52.12	170.4		81.45
13	481	35.36	111.3		82.48
14	498	52.24	159.0		83.42
15	520	45.78	133.3		84.50
16	560	35.79	96.8		86.38
17	600	32.63	82.4		88.26
18	630	38.92	93.7		89.20
19	662	31.52	72.1		90.23
20	686	81.37	179.7		90.98
21	910	37.78	62.9		94.31
22	1,104	59.23	81.3		96.19
23	1,563	7.79	7.5		99.06
24	1,978	2.78	2.1		101.64
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...**... Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,409	0.00	0.0		114.92

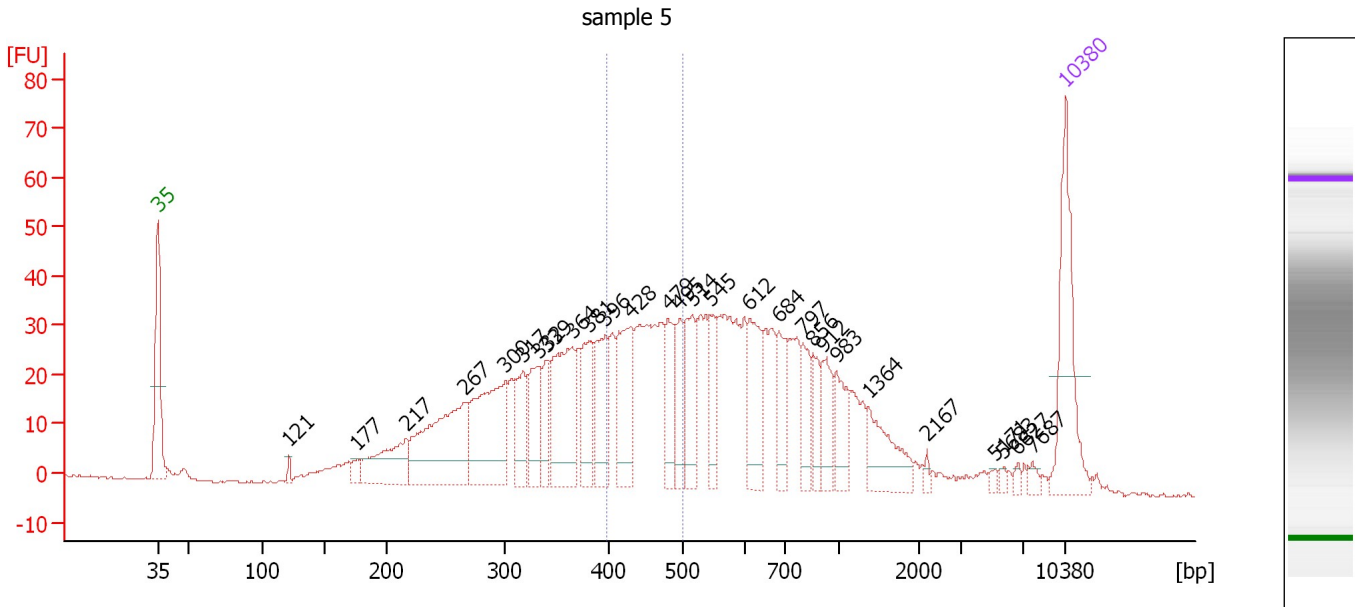
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
399	506	452	265.4	1,218.9	363.21	20	6.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 28 Corr. Area 1: 233.5
 Noise: 0.3

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	121	4.86	60.7		53.12
3	177	9.73	83.5		58.38
4	217	66.33	462.5		62.19
5	267	139.85	794.9		66.72
6	300	121.45	613.2		69.80
7	317	43.46	207.4		71.20
8	332	49.39	225.4		72.36
9	339	31.71	141.7		72.94
10	364	102.19	424.9		74.96
11	381	46.53	185.2		76.26
12	396	56.66	216.6		77.52
13	428	71.57	253.1		79.45
14	479	45.76	144.8		82.34
15	495	37.63	115.2		83.25
16	514	50.52	148.8		84.22
17	545	33.60	93.4		85.67
18	612	52.58	130.1		88.65
19	684	36.48	80.8		90.92
20	797	29.59	56.3		92.75
21	856	21.67	38.3		93.57
22	912	30.96	51.4		94.34
23	983	32.20	49.6		95.31
24	1,364	44.42	49.3		97.81
25	2,167	3.76	2.6		102.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,171	2.79	0.8		107.55
27	5,683	2.99	0.8		108.18
28	6,627	3.19	0.7		109.34
29	7,687	5.03	1.0		110.44
30	10,380	75.00	10.9	Upper Marker	113.00

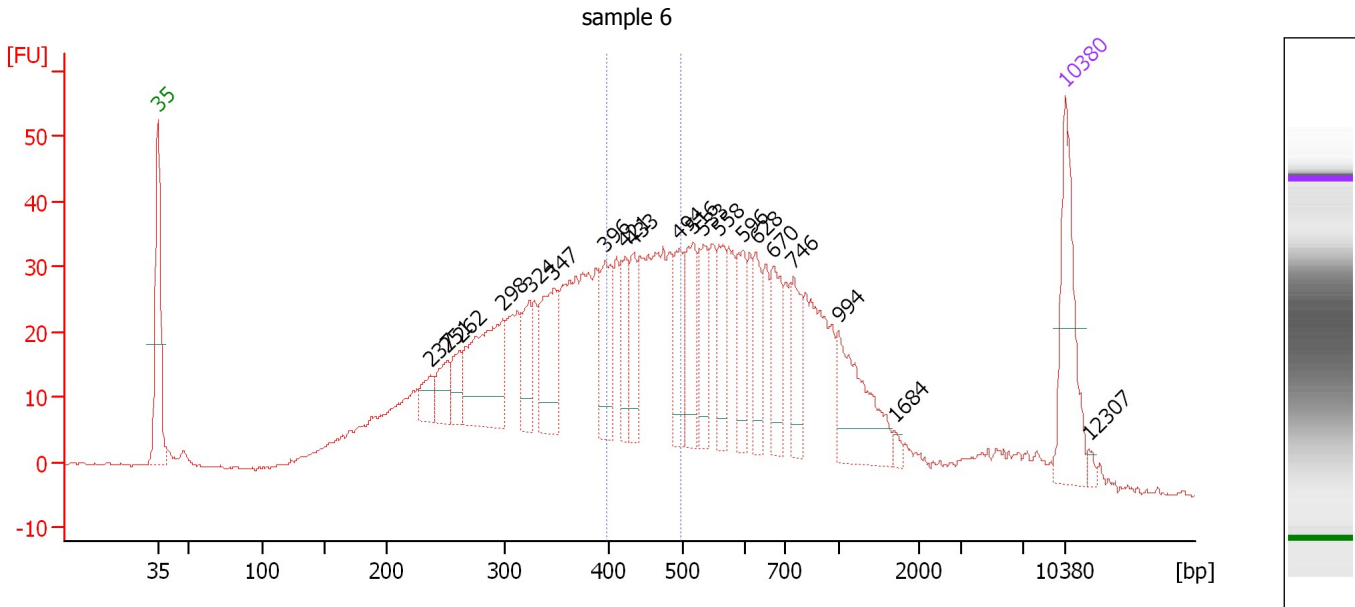
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
397	498	448	233.5	1,083.1	319.74	18	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 20 Corr. Area 1: 238.9
 Noise: 0.3

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	237	23.29	148.6		64.04
3	251	30.09	181.3		65.33
4	262	26.82	155.0		66.32
5	298	124.29	631.7		69.63
6	324	38.78	181.5		71.70
7	347	76.64	335.1		73.53
8	396	59.71	228.2		77.53
9	421	37.88	136.4		79.01
10	433	41.16	144.0		79.70
11	494	50.31	154.2		83.21
12	516	61.88	181.7		84.30
13	533	43.29	123.1		85.09
14	558	42.38	115.1		86.27
15	596	44.42	113.0		88.05
16	628	37.88	91.4		89.14
17	670	47.73	107.9		90.47
18	746	41.57	84.4		92.05
19	994	77.67	118.4		95.46
20	1,684	4.46	4.0		99.81
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,307	0.00	0.0		114.83


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
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Electropherogram Summary Continued ...

... Region table for sample 6 :

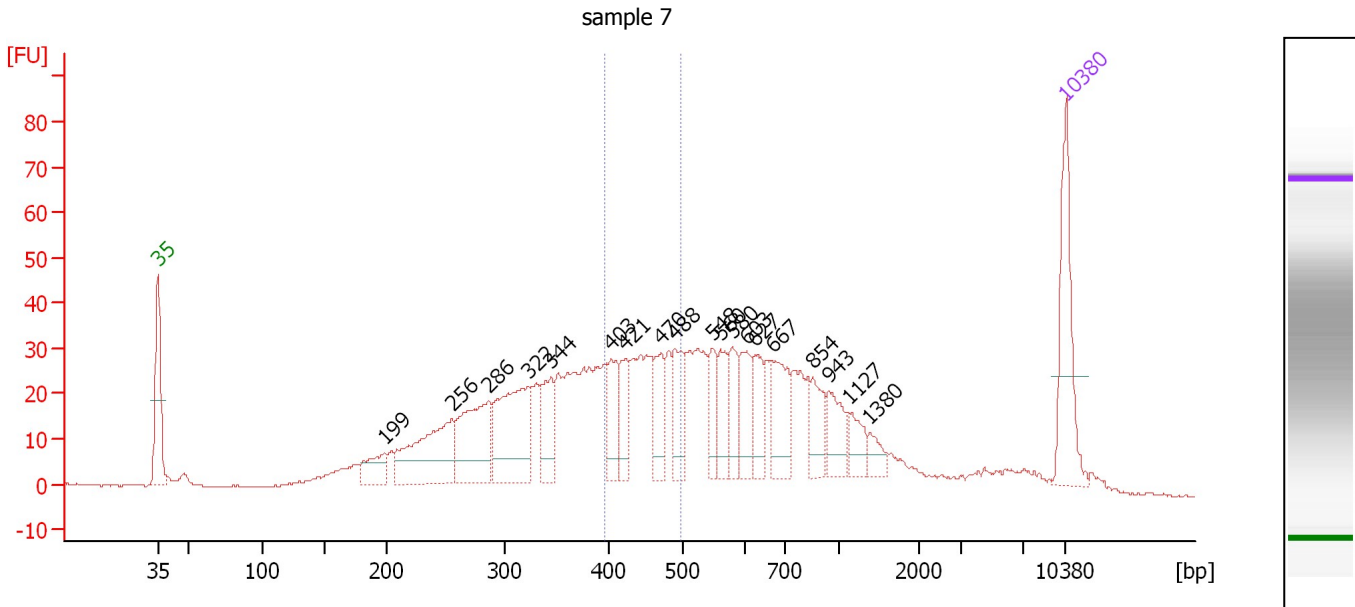
sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
398	496	446	238.9	1,364.3	 401.44	17	6.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 19 Corr. Area 1: 213.0
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	199	36.54	278.5		60.47
3	256	124.17	736.2		65.71
4	286	109.83	582.0		68.50
5	322	126.21	593.1		71.60
6	344	47.72	210.2		73.33
7	403	39.88	149.9		78.00
8	421	37.15	133.7		79.02
9	470	41.85	135.0		81.81
10	488	47.87	148.5		82.88
11	548	29.96	82.8		85.82
12	560	35.91	97.1		86.38
13	580	35.30	92.3		87.30
14	603	41.99	105.5		88.36
15	627	32.55	78.6		89.12
16	667	55.22	125.4		90.39
17	854	33.93	60.2		93.54
18	943	34.80	55.9		94.76
19	1,127	22.21	29.9		96.34
20	1,380	13.77	15.1		97.91
21	10,380	75.00	10.9	Upper Marker	113.00

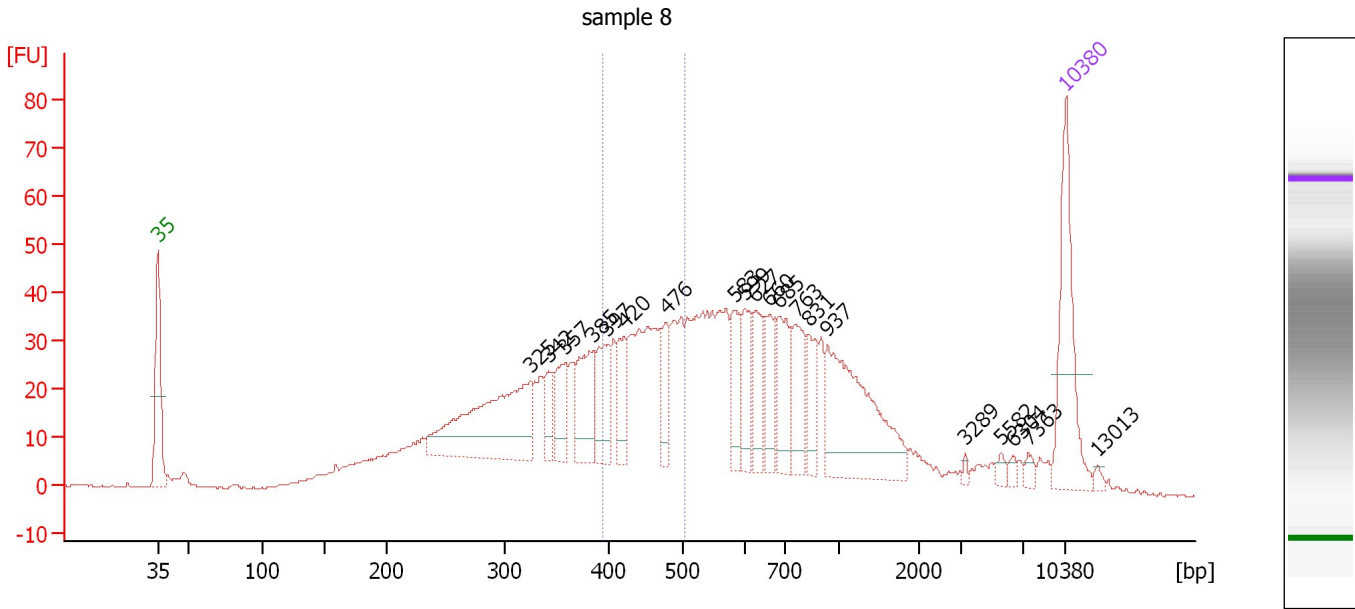
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
396	497	445	213.0	1,063.5	312.29	17	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 20 Corr. Area 1: 252.1
 Noise: 0.2

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	325	169.57	791.3		71.78
3	342	23.83	105.7		73.13
4	357	36.32	154.1		74.38
5	385	56.56	222.6		76.62
6	397	45.22	172.4		77.61
7	420	31.82	114.8		78.96
8	476	31.96	101.6		82.19
9	583	35.83	93.2		87.45
10	599	40.02	101.2		88.23
11	627	39.82	96.2		89.11
12	660	37.00	85.0		90.15
13	685	49.94	110.5		90.93
14	763	46.10	91.6		92.29
15	831	30.18	55.0		93.22
16	937	129.76	209.8		94.68
17	3,289	2.43	1.1		105.25
18	5,582	4.05	1.1		108.06
19	6,304	3.80	0.9		108.94
20	7,363	5.00	1.0		110.14
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,013	0.00	0.0		115.50

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...

... Region table for sample 8 :

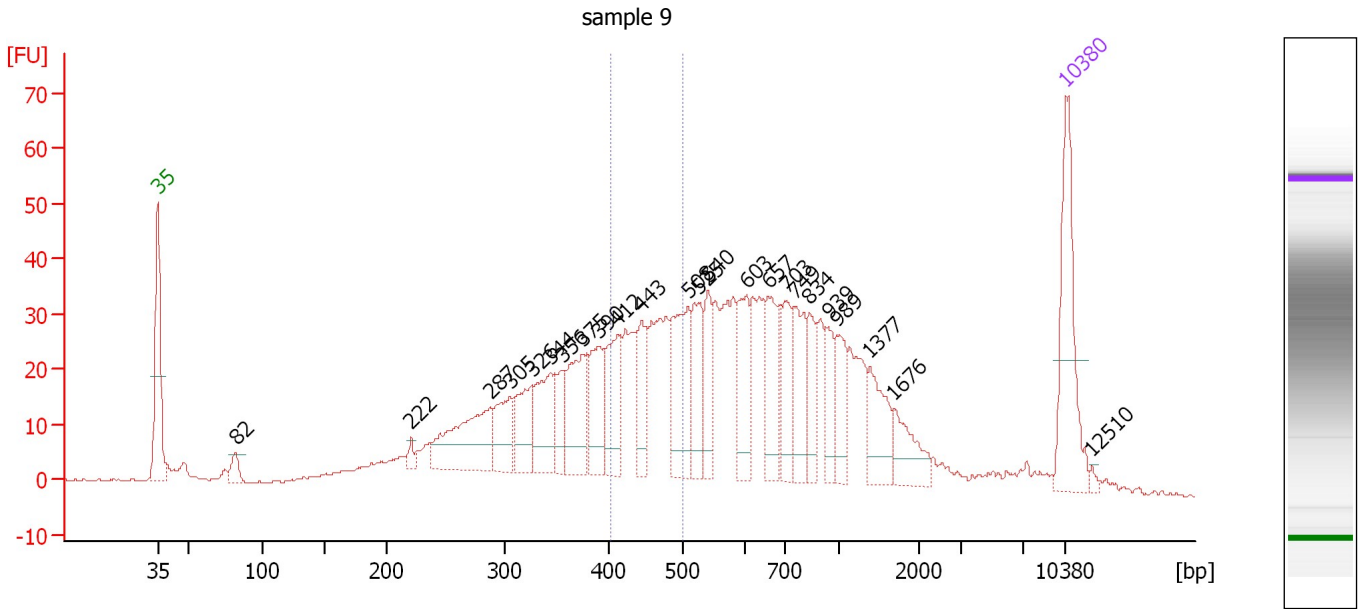
sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
395	502	448	252.1	1,141.8	■ 337.10	18	7.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 24 Corr. Area 1: 200.5
 Noise: 0.2

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	14.80	275.0		49.01
3	222	7.63	52.2		62.57
4	287	94.14	496.3		68.64
5	305	44.84	222.9		70.18
6	326	46.09	214.2		71.88
7	344	58.85	259.3		73.32
8	356	26.11	111.2		74.28
9	375	66.15	267.2		75.82
10	390	50.58	196.7		76.99
11	412	59.44	218.8		78.48
12	443	39.15	133.9		80.29
13	508	80.79	241.1		83.90
14	525	49.60	143.3		84.70
15	540	36.54	102.5		85.45
16	603	49.30	123.8		88.37
17	657	57.18	131.8		90.07
18	703	46.32	99.9		91.46
19	749	47.94	97.0		92.10
20	834	28.74	52.2		93.27
21	939	26.87	43.4		94.70
22	989	30.06	46.1		95.39
23	1,377	39.51	43.5		97.89
24	1,676	31.21	28.2		99.76
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...**... Peak table for sample 9 : sample 9**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,510	0.00	0.0		115.02

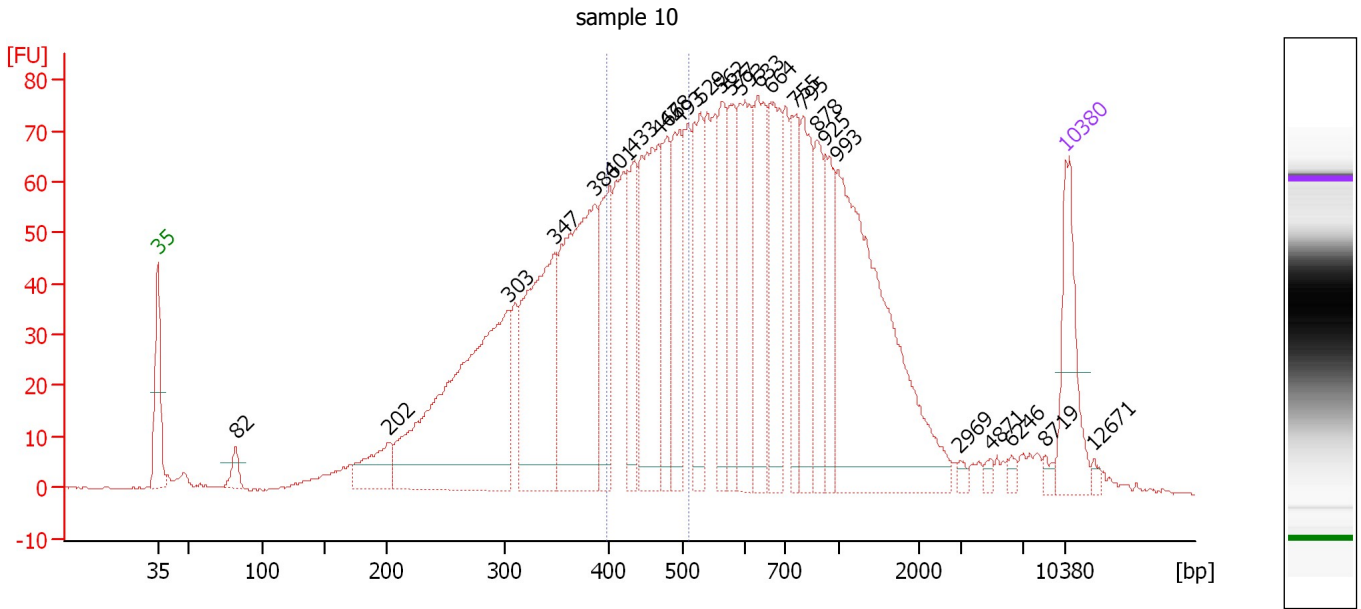
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
401	499	450	200.5	994.8	295.59	17	6.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 26 Corr. Area 1: 500.0
 Noise: 0.1

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	22.81	422.8		49.03
3	202	60.66	455.1		60.77
4	303	447.90	2,237.4		70.07
5	347	252.45	1,101.1		73.60
6	386	310.22	1,217.6		76.70
7	401	104.25	393.6		77.89
8	433	87.52	306.5		79.68
9	466	202.69	659.2		81.59
10	478	84.63	268.1		82.29
11	493	117.85	361.9		83.16
12	529	110.24	315.9		84.90
13	562	89.72	241.8		86.48
14	577	87.92	230.8		87.18
15	593	141.69	361.8		87.95
16	633	123.27	295.1		89.30
17	664	122.44	279.4		90.28
18	755	75.24	150.9		92.18
19	795	108.61	207.0		92.73
20	878	74.35	128.3		93.87
21	925	64.75	106.0		94.52
22	993	376.68	574.9		95.45
23	2,969	5.17	2.6		104.79
24	4,871	4.88	1.5		107.18
25	6,246	5.64	1.4		108.87

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,719	5.79	1.0		111.42
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,671	0.00	0.0		115.17

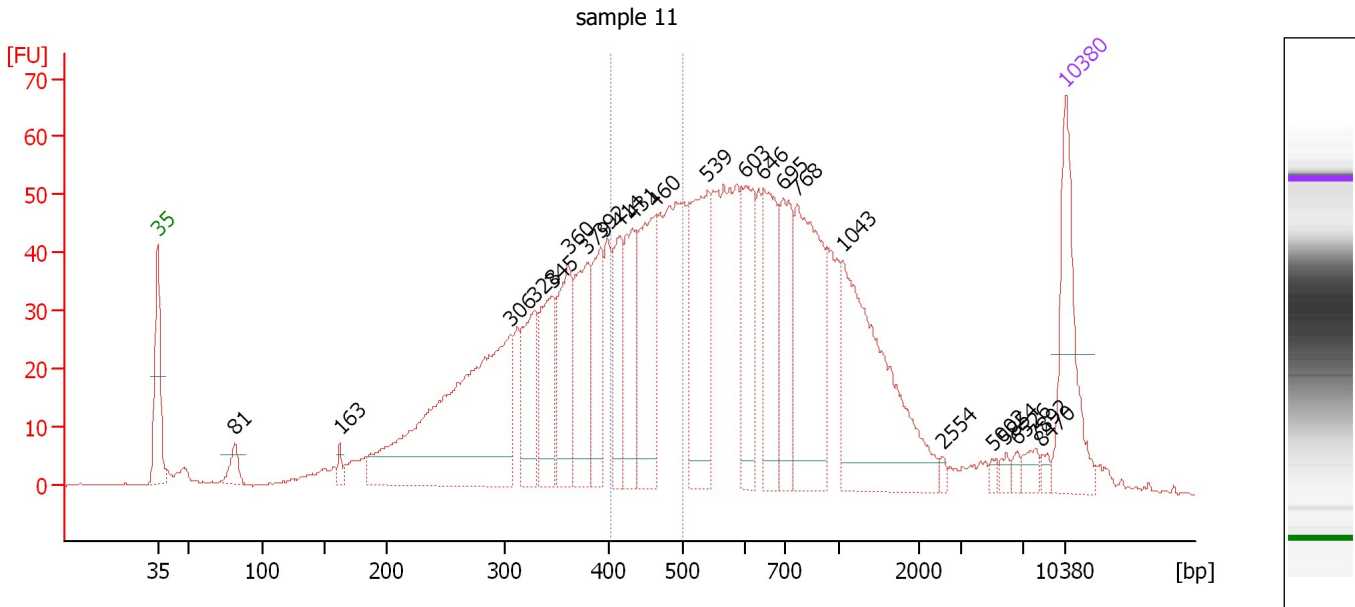
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
398	508	453	500.0	2,474.5	737.82	19	7.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 23 Corr. Area 1: 306.1
 Noise: 0.2

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	20.48	384.0		48.93
3	163	9.44	88.0		57.05
4	306	344.91	1,707.4		70.29
5	328	70.08	323.7		72.04
6	345	80.99	355.6		73.42
7	360	83.87	352.8		74.62
8	379	88.49	354.1		76.11
9	392	65.00	251.5		77.15
10	414	63.10	230.8		78.63
11	431	72.44	254.9		79.56
12	460	110.75	364.6		81.27
13	539	128.05	359.9		85.38
14	603	74.28	186.7		88.35
15	646	88.40	207.3		89.72
16	695	75.19	164.0		91.26
17	768	153.70	303.2		92.36
18	1,043	182.07	264.4		95.82
19	2,554	3.75	2.2		103.50
20	5,002	3.75	1.1		107.35
21	5,854	5.19	1.3		108.39
22	6,526	4.66	1.1		109.21
23	7,892	8.85	1.7		110.64
24	8,470	4.74	0.8		111.19
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 PM

Electropherogram Summary Continued ...

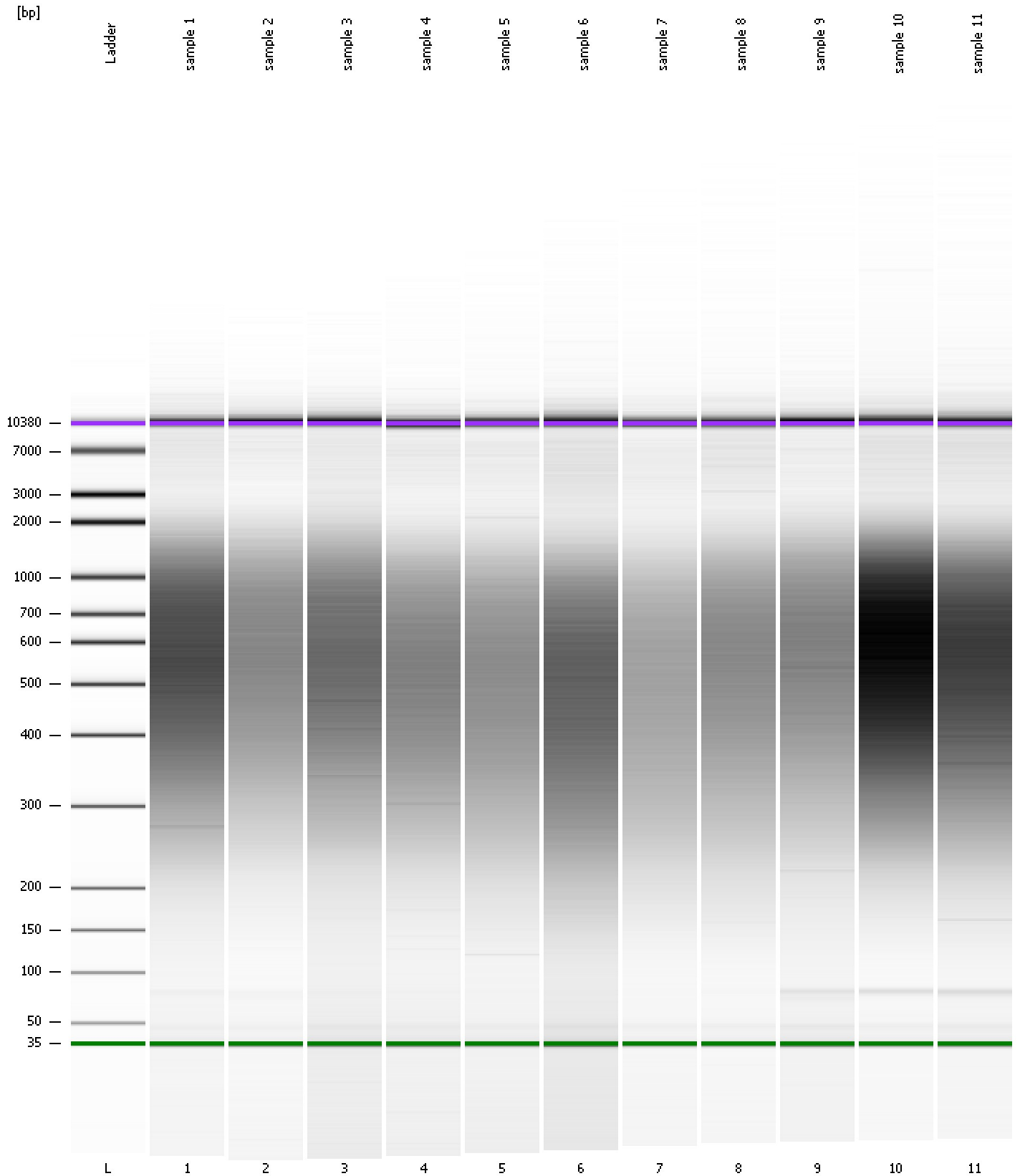
... Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
402	498	451	306.1	1,413.4	■ 420.42	17	6.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
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Gel Image

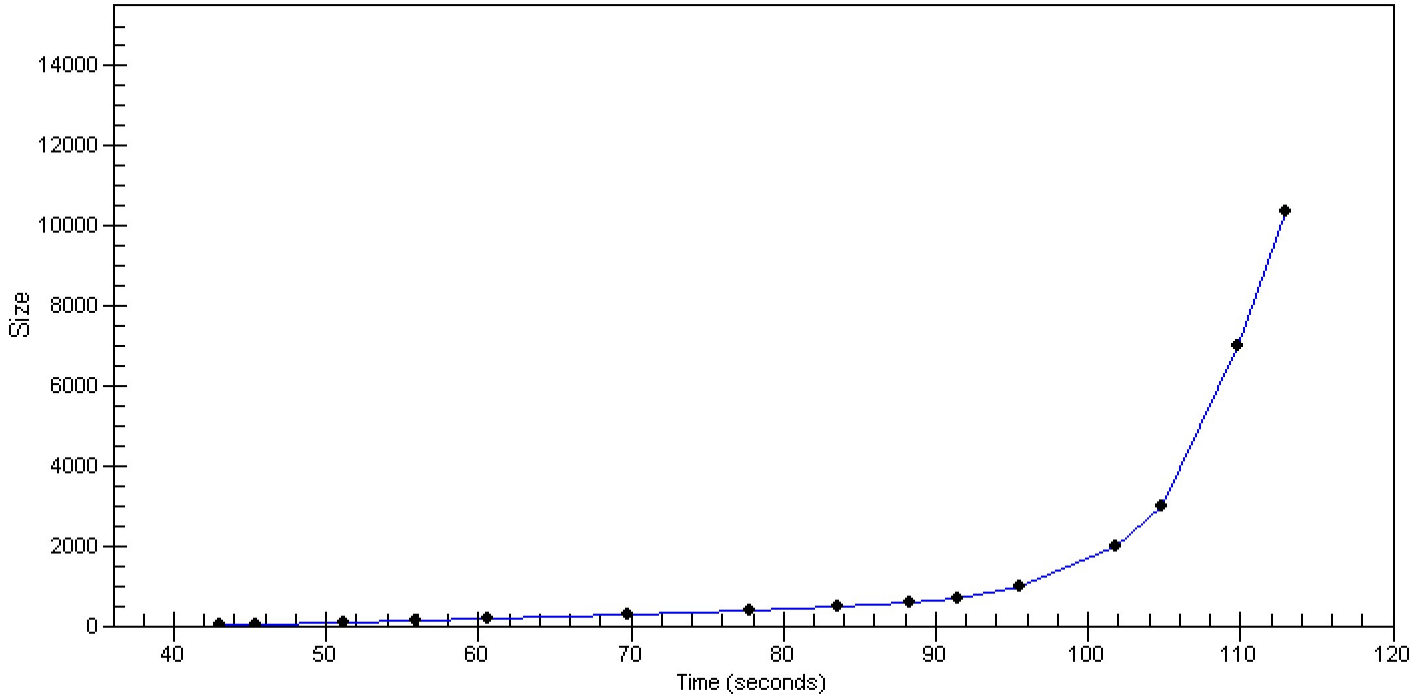


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
Modified: 11/16/2015 1:12:38 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad

Created: 11/16/2015 12:06:06 PM
 Modified: 11/16/2015 1:12:38 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/16/2015 12:47:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-16\2015-11-16_001.xad)		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/16/2015 12:06:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1