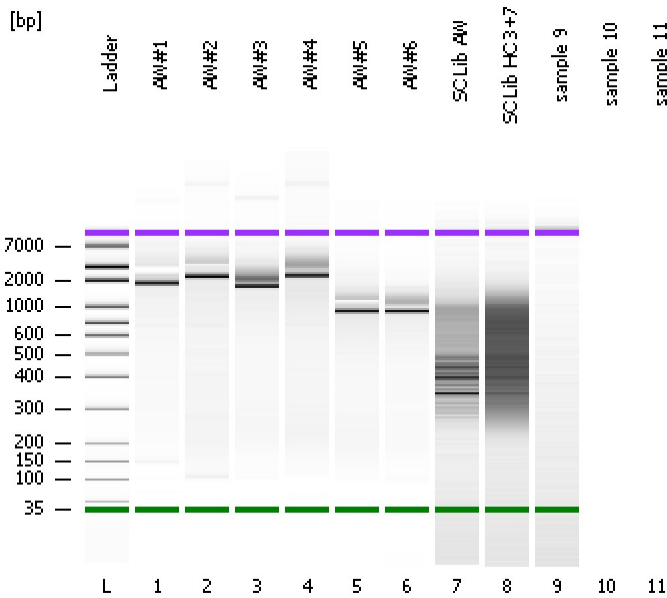


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 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

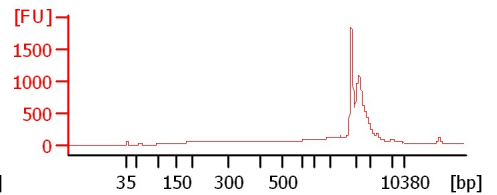
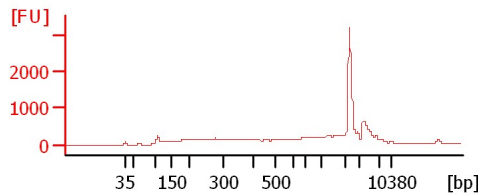
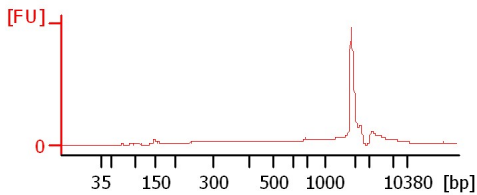
Chip Information:

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

AW#1

AW#2

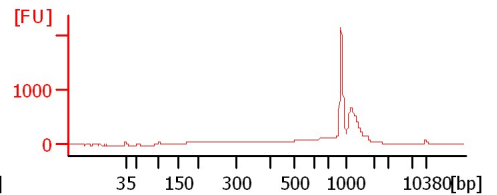
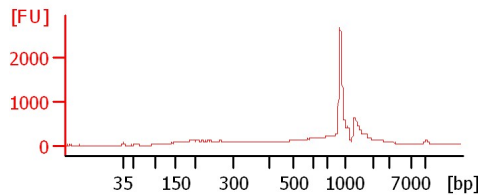
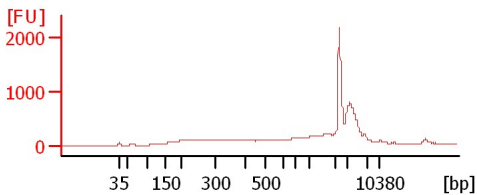
AW#3



AW#4

AW#5

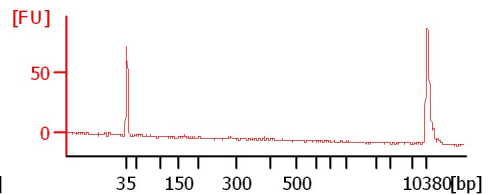
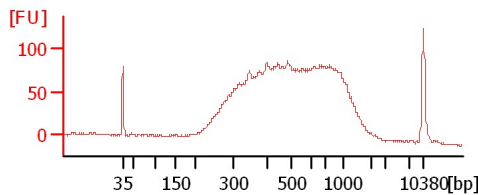
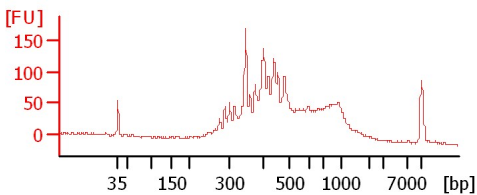
AW#6



SC Lib AW

SC Lib HC 3+7

sample 9



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
Modified: 3/29/2017 2:24:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AW#1		<input type="checkbox"/>	✓			
AW#2		<input type="checkbox"/>	✓			
AW#3		<input type="checkbox"/>	✓			
AW#4		<input type="checkbox"/>	✓			
AW#5		<input type="checkbox"/>	✓			
AW#6		<input type="checkbox"/>	✓			
SC Lib AW		<input type="checkbox"/>	✓			
SC Lib HC 3+7		<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\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
Modified: 3/29/2017 2:24:52 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

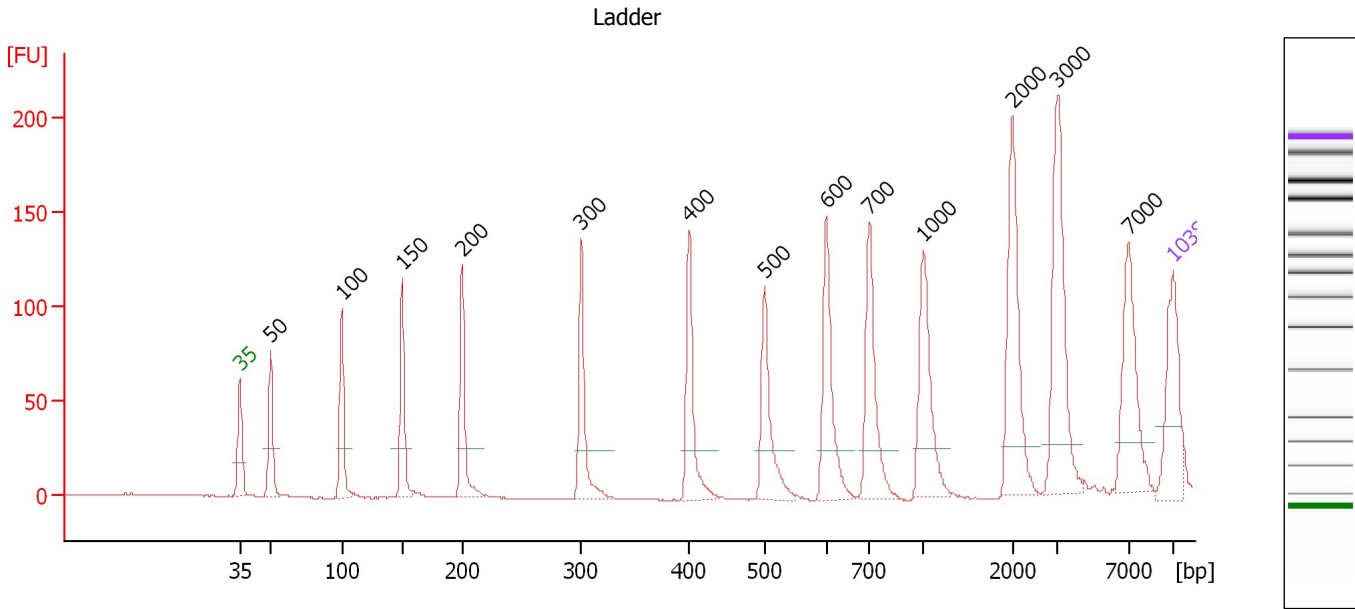
Ladder

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:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

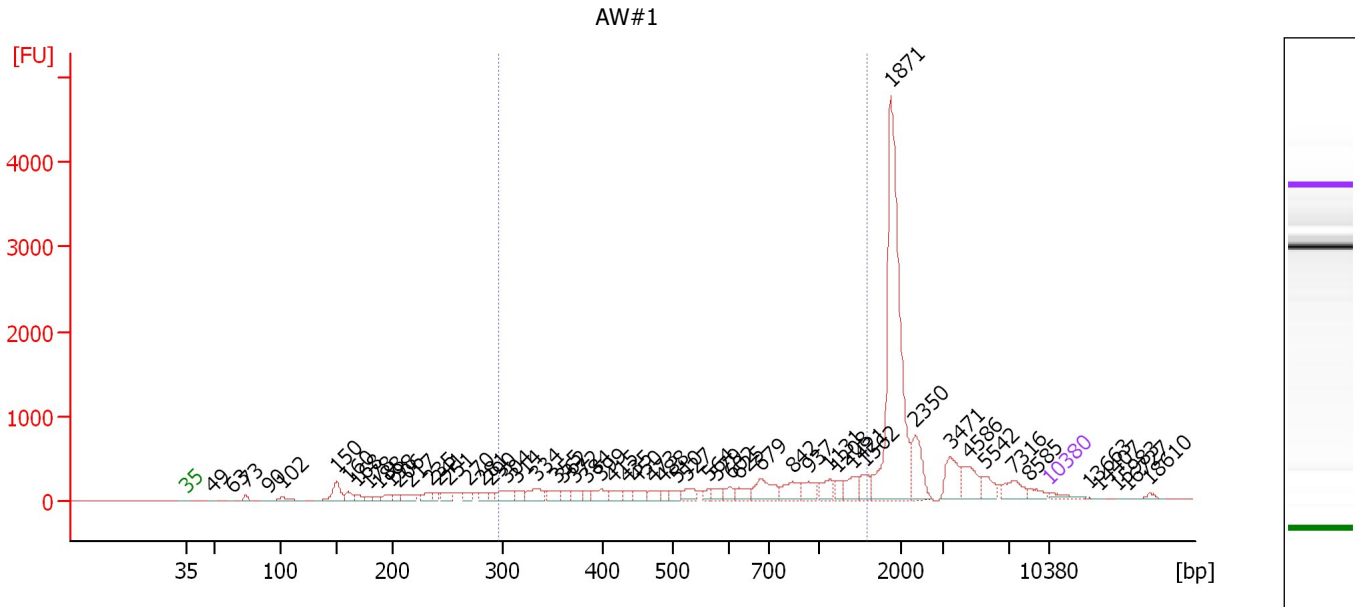
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.64
4	150	150.00	1,515.2	Ladder Peak	55.20
5	200	150.00	1,136.4	Ladder Peak	59.68
6	300	150.00	757.6	Ladder Peak	68.60
7	400	150.00	568.2	Ladder Peak	76.68
8	500	150.00	454.5	Ladder Peak	82.36
9	600	150.00	378.8	Ladder Peak	87.00
10	700	150.00	324.7	Ladder Peak	90.24
11	1,000	150.00	227.3	Ladder Peak	94.28
12	2,000	150.00	113.6	Ladder Peak	100.96
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AW#1

Number of peaks found: 57 Corr. Area 1: 5,745.3
 Noise: 0.6

Peak table for sample 1 : AW#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	49	8.20	254.0		45.15
3	63	5.78	140.1		46.65
4	73	81.18	1,674.4		47.82
5	90	21.42	360.6		49.58
6	102	105.00	1,566.5		50.78
7	150	385.66	3,904.5		55.17
8	160	160.91	1,521.8		56.11
9	168	93.89	844.9		56.85
10	178	60.90	518.5		57.71
11	188	74.40	601.0		58.57
12	198	101.43	777.6		59.47
13	206	75.26	554.0		60.20
14	217	151.57	1,058.7		61.19
15	235	119.09	768.7		62.78
16	241	82.65	518.6		63.38
17	251	135.88	821.4		64.20
18	270	112.10	629.2		65.92
19	281	98.81	531.8		66.95
20	290	80.27	419.1		67.72
21	304	226.20	1,127.2		68.93
22	314	119.94	578.5		69.74
23	334	250.12	1,135.1		71.34
24	355	143.60	612.7		73.06
25	362	129.46	542.5		73.57

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : AW#1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	372	113.27	461.1		74.43
27	384	83.92	330.8		75.42
28	399	176.50	670.6		76.58
29	415	128.24	468.3		77.53
30	435	112.23	390.6		78.69
31	450	119.05	401.1		79.50
32	473	122.36	391.8		80.84
33	488	87.20	271.0		81.65
34	510	99.65	296.1		82.82
35	527	150.86	434.2		83.59
36	564	68.68	184.3		85.35
37	579	115.69	302.6		86.04
38	602	118.72	298.7		87.07
39	625	141.93	344.2		87.80
40	679	366.92	818.5		89.57
41	842	262.04	471.8		92.15
42	937	196.41	317.5		93.44
43	1,131	185.91	249.0		95.16
44	1,208	114.59	143.7		95.67
45	1,421	199.17	212.4		97.09
46	1,562	181.59	176.1		98.04
47	1,871	3,325.43	2,692.4		100.10
48	2,350	432.59	278.9		102.12
49	3,471	371.83	162.3		104.92
50	4,586	311.18	102.8		106.42
51	5,542	162.14	44.3		107.71
52	7,316	216.71	44.9		109.99
53	8,585	94.44	16.7		111.24
54	10,380	75.00	10.9	Upper Marker	113.00
55	13,663	0.00	0.0		116.22
56	14,407	0.00	0.0		116.96
57	15,983	0.00	0.0		118.50
58	16,727	0.00	0.0		119.23
59	18,610	0.00	0.0		121.08

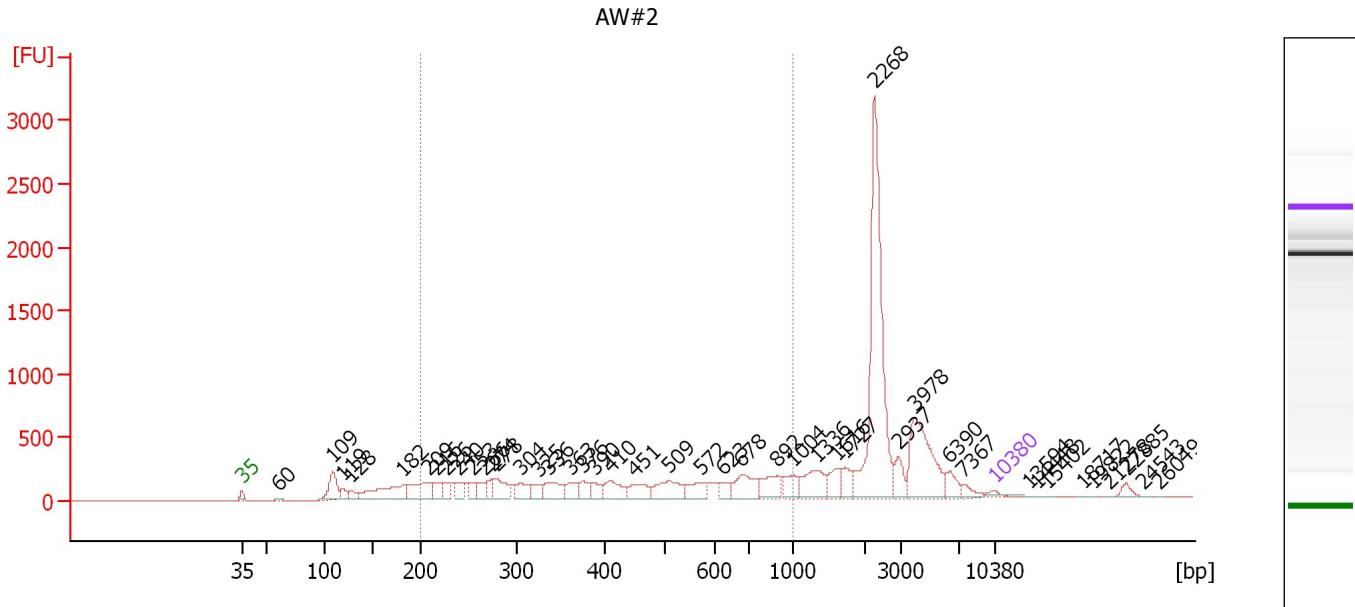
Region table for sample 1 : AW#1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
297	1,584	719	5,745.3	11,734.9	4,092.76	33	49.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AW#2

Number of peaks found: 44 Corr. Area 1: 5,647.2
 Noise: 1.0

Peak table for sample 2 : AW#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	60	27.66	696.4		46.40
3	109	672.59	9,326.7		51.48
4	119	187.72	2,390.1		52.37
5	128	166.98	1,981.9		53.16
6	182	1,030.85	8,593.1		58.05
7	209	752.29	5,459.6		60.46
8	216	306.17	2,148.0		61.10
9	226	204.70	1,369.5		62.04
10	240	291.21	1,840.4		63.23
11	253	206.92	1,239.1		64.41
12	266	246.19	1,400.8		65.59
13	274	205.32	1,135.2		66.28
14	278	511.69	2,784.2		66.68
15	304	343.68	1,711.2		68.95
16	325	245.23	1,143.0		70.63
17	336	465.37	2,098.2		71.51
18	363	312.80	1,305.9		73.68
19	376	255.77	1,029.7		74.77
20	390	206.89	803.0		75.90
21	410	415.27	1,535.4		77.24
22	451	387.05	1,301.5		79.55
23	509	552.38	1,645.5		82.76
24	572	313.99	831.1		85.72
25	623	207.90	505.7		87.74

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : AW#2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	678	538.03	1,202.8		89.52
27	892	423.77	719.9		92.82
28	1,004	308.39	465.6		94.30
29	1,336	538.26	610.5		96.52
30	1,616	291.54	273.3		98.40
31	1,727	222.99	195.6		99.14
32	2,268	3,548.95	2,370.4		101.85
33	2,937	276.67	142.7		104.07
34	3,978	1,315.92	501.2		105.60
35	6,390	240.84	57.1		108.86
36	7,367	122.41	25.2		110.04
37	10,380	75.00	10.9	Upper Marker	113.00
38	13,594	0.00	0.0		116.16
39	14,448	0.00	0.0		117.00
40	15,402	0.00	0.0		117.93
41	18,717	0.00	0.0		121.19
42	19,822	0.00	0.0		122.27
43	21,278	0.00	0.0		123.70
44	22,885	0.00	0.0		125.28
45	24,543	0.00	0.0		126.91
46	26,049	0.00	0.0		128.39

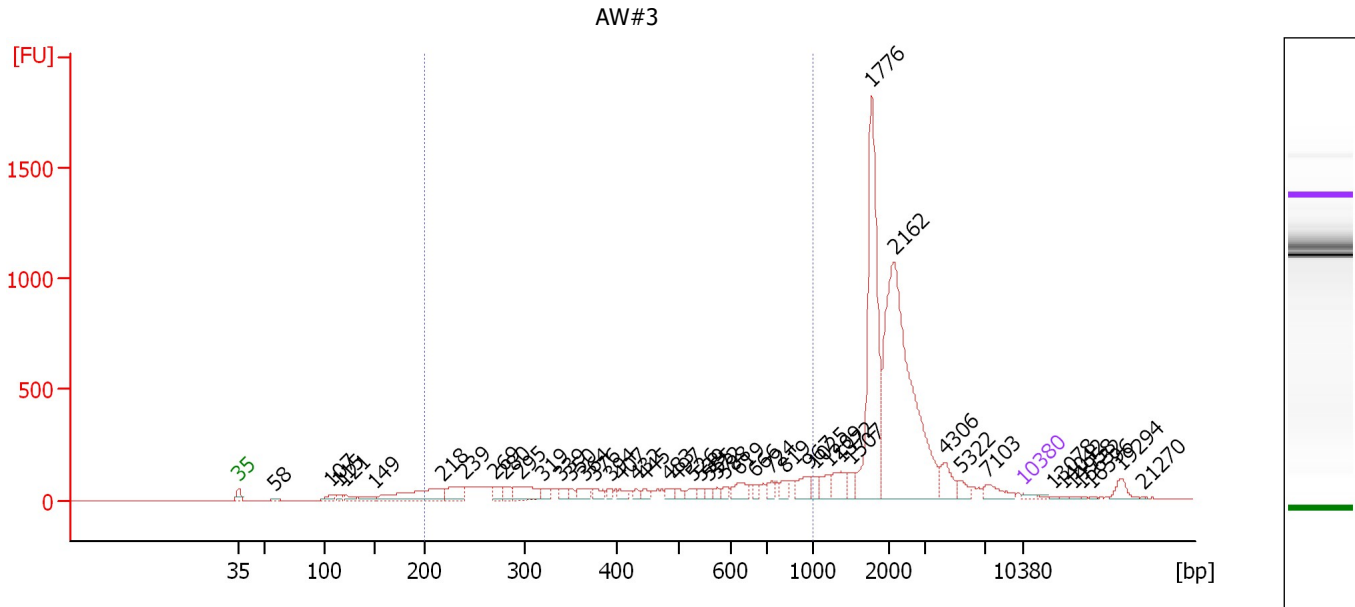
Region table for sample 2 : AW#2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	469	5,647.2	33,233.7	7,863.45	40	44.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AW#3

Number of peaks found: 47 Corr. Area 1: 2,425.6
 Noise: 1.5

Peak table for sample 3 : AW#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	58	26.65	696.1		46.17
3	107	153.20	2,168.5		51.28
4	115	113.31	1,495.1		51.99
5	121	125.12	1,572.7		52.51
6	149	164.47	1,677.4		55.07
7	218	1,122.57	7,808.7		61.27
8	239	500.39	3,178.8		63.11
9	269	254.17	1,433.0		65.81
10	280	202.02	1,093.6		66.81
11	295	614.44	3,152.8		68.18
12	319	192.25	913.7		70.12
13	339	166.60	745.2		71.73
14	350	116.48	503.6		72.68
15	364	248.04	1,031.0		73.81
16	376	192.04	773.4		74.76
17	394	103.08	396.6		76.18
18	407	139.70	520.1		77.08
19	432	98.09	344.0		78.50
20	445	124.93	425.0		79.25
21	483	126.00	395.4		81.38
22	497	129.81	395.8		82.19
23	526	144.71	416.9		83.56
24	539	102.69	288.6		84.18
25	555	120.69	329.2		84.93

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : AW#3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	572	91.77	243.2		85.69
27	588	120.52	310.5		86.45
28	619	298.64	730.4		87.63
29	666	114.01	259.3		89.15
30	724	149.88	313.6		90.57
31	819	197.22	364.8		91.84
32	967	337.63	529.2		93.83
33	1,025	159.82	236.3		94.45
34	1,209	254.91	319.4		95.68
35	1,372	378.90	418.4		96.77
36	1,507	155.68	156.5		97.67
37	1,776	3,679.31	3,138.9		99.46
38	2,162	5,595.43	3,920.7		101.50
39	4,306	380.71	134.0		106.04
40	5,322	177.28	50.5		107.42
41	7,103	249.18	53.1		109.78
42	10,380	75.00	10.9	Upper Marker	113.00
43	13,078	0.00	0.0		115.65
44	14,042	0.00	0.0		116.60
45	14,958	0.00	0.0		117.50
46	15,632	0.00	0.0		118.16
47	16,596	0.00	0.0		119.11
48	19,294	0.00	0.0		121.76
49	21,270	0.00	0.0		123.70

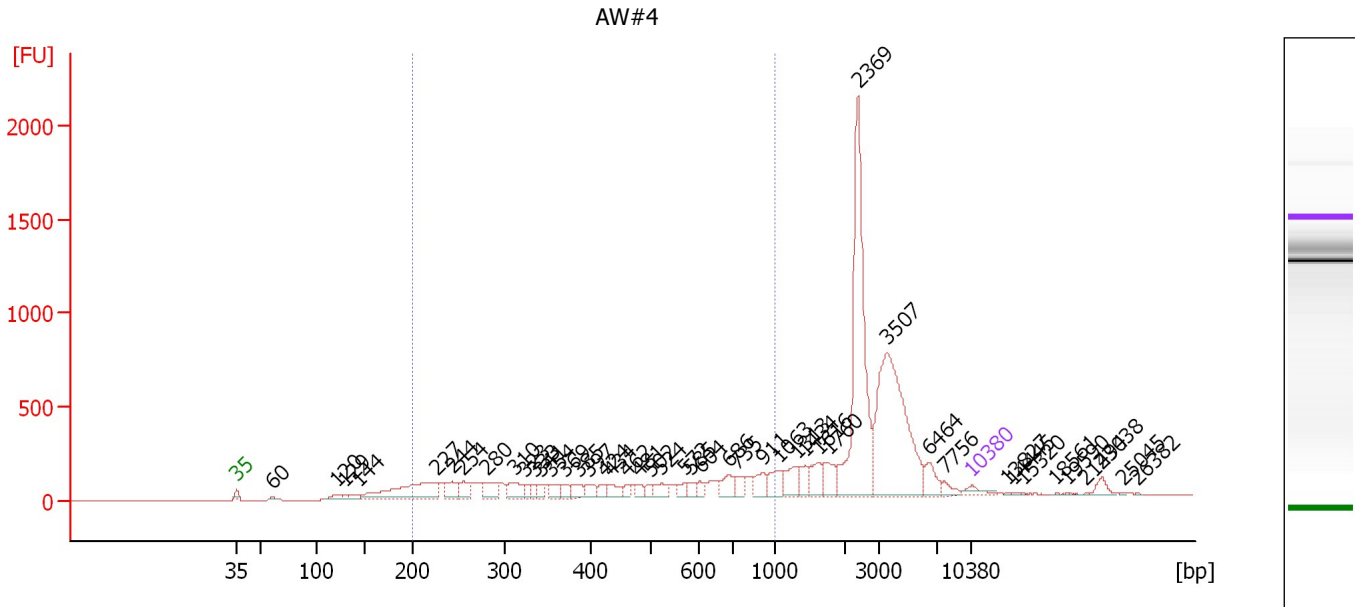
Region table for sample 3 : AW#3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	487	2,425.6	28,353.3	6,821.34	29	45.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AW#4

Number of peaks found: 46 Corr. Area 1: 3,440.7
 Noise: 1.1

Peak table for sample 4 : AW#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	60	22.85	576.8		46.39
3	120	78.58	993.4		52.45
4	129	40.13	470.3		53.31
5	144	71.84	757.5		54.62
6	227	936.70	6,262.8		62.05
7	244	230.15	1,431.4		63.57
8	254	194.25	1,159.6		64.48
9	280	238.30	1,290.1		66.81
10	310	227.85	1,112.5		69.43
11	323	82.54	387.4		70.44
12	333	80.53	365.9		71.30
13	341	84.07	373.6		71.91
14	354	116.46	498.3		72.97
15	369	97.73	401.2		74.18
16	385	130.69	513.8		75.50
17	397	115.63	441.0		76.46
18	424	83.84	299.8		78.03
19	434	121.87	425.1		78.63
20	462	66.52	218.2		80.20
21	481	75.32	237.4		81.26
22	502	65.10	196.3		82.47
23	524	135.55	391.8		83.48
24	572	82.37	218.1		85.71
25	585	86.70	224.5		86.31

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 4 : AW#4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	604	84.59	212.3		87.12
27	686	182.86	403.6		89.80
28	735	112.72	232.4		90.71
29	911	168.61	280.3		93.09
30	1,063	200.12	285.1		94.70
31	1,313	221.59	255.7		96.37
32	1,434	127.67	134.9		97.18
33	1,616	198.87	186.5		98.39
34	1,760	194.94	167.9		99.35
35	2,369	2,077.10	1,328.6		102.18
36	3,507	1,924.09	831.4		104.96
37	6,464	181.70	42.6		108.96
38	7,756	69.56	13.6		110.42
39	10,380	75.00	10.9	Upper Marker	113.00
40	13,827	0.00	0.0		116.39
41	14,445	0.00	0.0		116.99
42	15,320	0.00	0.0		117.85
43	18,561	0.00	0.0		121.04
44	19,590	0.00	0.0		122.05
45	21,494	0.00	0.0		123.92
46	23,038	0.00	0.0		125.43
47	25,045	0.00	0.0		127.40
48	26,382	0.00	0.0		128.72

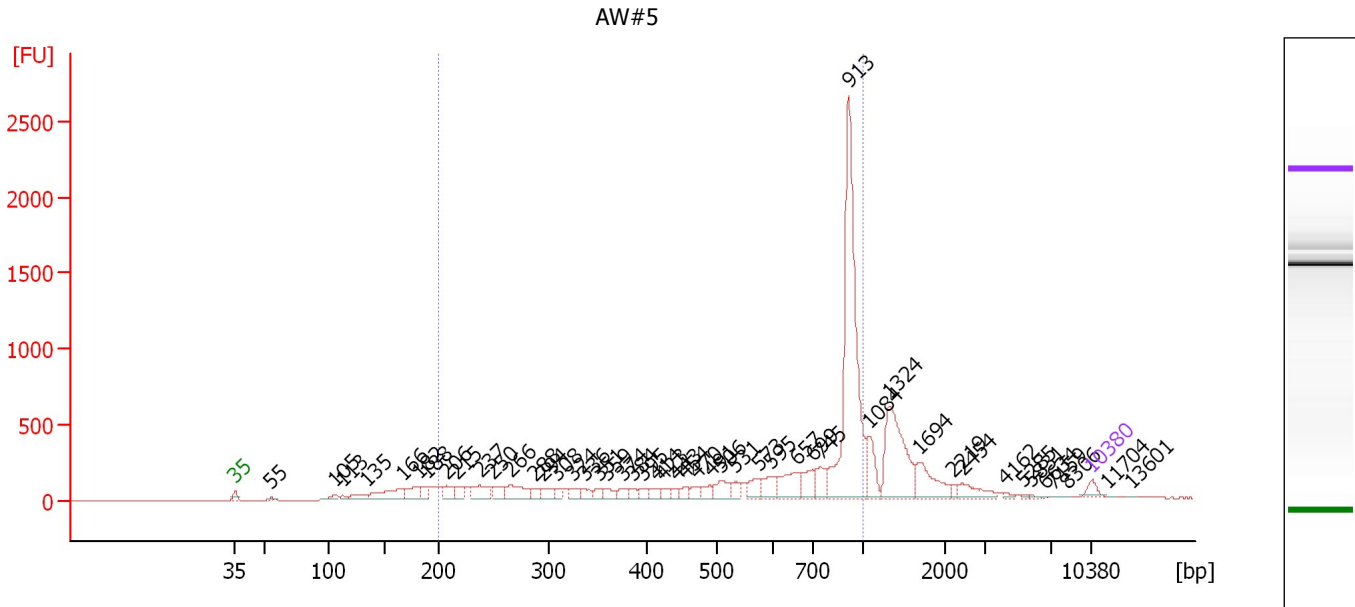
Region table for sample 4 : AW#4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	476	3,440.7	18,061.9	4,271.30	35	45.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AW#5

Number of peaks found: 49 Corr. Area 1: 6,923.9
 Noise: 1.3

Peak table for sample 5 : AW#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	55	22.76	621.6		45.90
3	105	76.67	1,110.3		51.06
4	113	50.22	675.1		51.80
5	135	140.98	1,587.3		53.79
6	166	384.93	3,519.0		56.61
7	182	243.29	2,028.7		58.04
8	188	138.36	1,115.2		58.60
9	206	191.80	1,408.0		60.25
10	215	160.46	1,130.0		61.03
11	237	304.07	1,943.8		62.98
12	250	139.34	845.7		64.11
13	266	338.50	1,926.9		65.58
14	288	92.38	485.9		67.53
15	294	124.25	639.6		68.10
16	308	74.80	368.3		69.22
17	324	108.57	508.0		70.52
18	336	88.68	400.3		71.48
19	351	73.09	315.8		72.69
20	359	114.17	482.3		73.34
21	374	89.07	360.6		74.60
22	384	71.81	283.0		75.42
23	395	70.78	271.4		76.29
24	414	82.15	300.3		77.50
25	423	75.08	269.0		77.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : AW#5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	443	56.51	193.1		79.15
27	454	73.73	246.0		79.76
28	470	90.71	292.3		80.67
29	491	104.51	322.6		81.84
30	506	181.97	544.4		82.66
31	531	118.82	339.2		83.79
32	573	160.56	424.7		85.74
33	595	196.52	500.3		86.78
34	657	325.92	751.2		88.86
35	699	203.23	440.6		90.20
36	745	219.98	447.1		90.85
37	913	2,758.25	4,578.6		93.11
38	1,084	282.50	395.0		94.84
39	1,324	954.98	1,093.1		96.44
40	1,694	336.79	301.3		98.91
41	2,219	37.74	25.8		101.69
42	2,454	152.32	94.0		102.47
43	4,162	19.92	7.3		105.85
44	5,285	8.75	2.5		107.37
45	5,831	9.49	2.5		108.10
46	6,634	5.04	1.2		109.19
47	7,159	6.90	1.5		109.84
48	8,306	5.43	1.0		110.96
49	10,380	75.00	10.9	Upper Marker	113.00
50	11,704	0.00	0.0		114.30
51	13,601	0.00	0.0		116.16

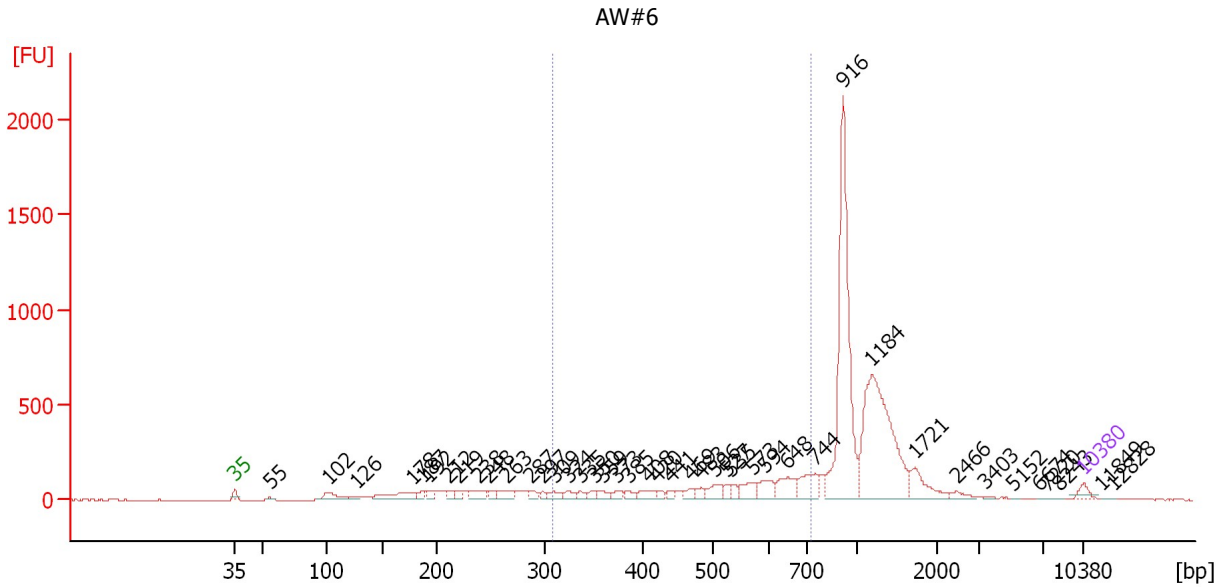
Region table for sample 5 : AW#5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	679	6,923.9	21,918.4	6,844.90	67	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : AW#6

Number of peaks found: 43 Corr. Area 1: 1,719.9
 Noise: 1.6

Peak table for sample 6 : AW#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	55	24.05	658.7		45.89
3	102	211.05	3,148.5		50.78
4	126	51.77	620.1		53.06
5	178	323.64	2,757.9		57.69
6	187	97.62	790.7		58.52
7	192	103.85	817.7		59.00
8	212	78.33	561.1		60.71
9	219	72.60	501.4		61.41
10	238	198.45	1,260.8		63.11
11	248	84.22	514.0		63.99
12	263	168.95	971.5		65.34
13	287	90.31	477.6		67.40
14	297	55.78	284.3		68.36
15	309	106.11	520.4		69.32
16	324	97.53	456.7		70.50
17	335	80.71	364.6		71.46
18	350	70.49	305.1		72.64
19	359	87.50	369.6		73.34
20	373	83.23	337.8		74.52
21	385	71.88	283.1		75.44
22	408	127.38	472.8		77.15
23	420	57.12	206.2		77.80
24	441	62.28	214.2		78.98
25	469	94.30	304.6		80.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 6 : AW#6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	483	78.07	245.0		81.39
27	506	171.09	511.9		82.66
28	527	79.08	227.3		83.62
29	535	72.63	205.8		83.97
30	573	170.83	451.5		85.76
31	594	201.48	513.9		86.72
32	648	263.45	615.9		88.56
33	744	331.36	674.8		90.83
34	916	2,502.85	4,139.6		93.15
35	1,184	2,037.39	2,606.6		95.51
36	1,721	281.68	248.0		99.10
37	2,466	64.67	39.7		102.51
38	3,403	12.70	5.7		104.82
39	5,152	5.59	1.6		107.18
40	6,674	3.18	0.7		109.24
41	7,220	4.08	0.9		109.90
42	8,243	5.99	1.1		110.90
43	10,380	75.00	10.9	Upper Marker	113.00
44	11,849	0.00	0.0		114.44
45	12,828	0.00	0.0		115.40

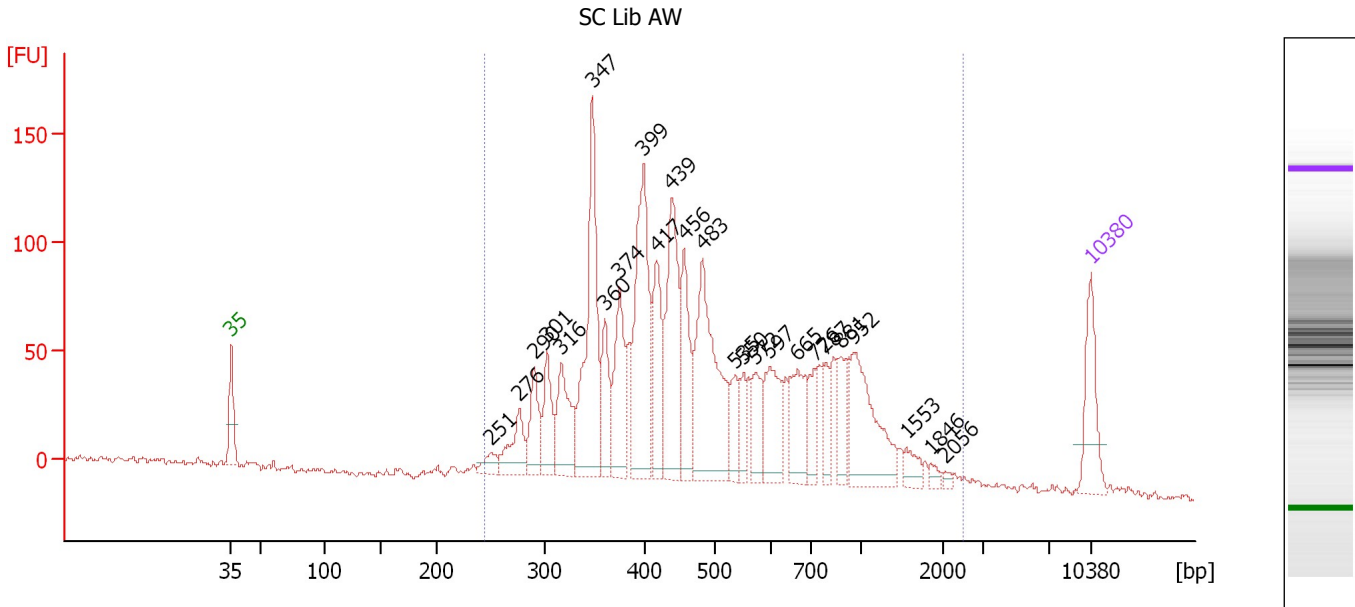
Region table for sample 6 : AW#6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
308	717	515	1,719.9	7,239.6	2,266.85	23	22.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : SC Lib AW

Number of peaks found: 25 Corr. Area 1: 2,404.7
 Noise: 1.2

Peak table for sample 7 : SC Lib AW

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	251	26.29	158.9		64.19
3	276	78.10	428.9		66.45
4	290	84.32	441.3		67.67
5	301	85.78	431.3		68.71
6	316	122.79	589.0		69.88
7	347	295.71	1,291.2		72.40
8	360	84.42	355.4		73.44
9	374	130.55	528.3		74.61
10	399	277.65	1,055.4		76.57
11	417	125.20	454.8		77.65
12	439	214.39	740.7		78.87
13	456	123.06	408.8		79.87
14	483	293.06	919.5		81.39
15	535	50.98	144.3		83.99
16	550	42.62	117.4		84.69
17	572	58.27	154.4		85.69
18	597	101.30	257.1		86.86
19	665	95.98	218.6		89.12
20	726	44.35	92.5		90.59
21	787	40.51	78.0		91.42
22	881	52.07	89.6		92.68
23	952	160.69	255.8		93.63
24	1,553	22.61	22.1		97.98
25	1,846	9.30	7.6		99.93

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 7 : SC Lib AW

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,056	5.25	3.9		101.15
27	10,380	75.00	10.9	Upper Marker	113.00

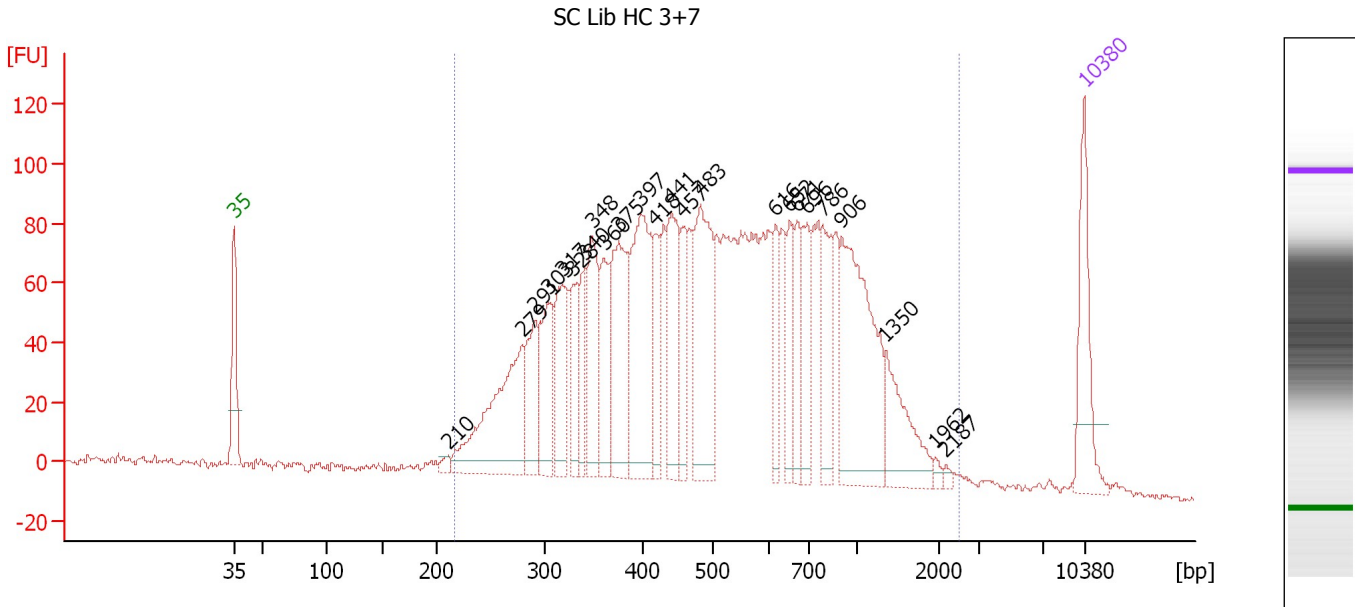
Region table for sample 7 : SC Lib AW

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
245	2,488	565	2,404.7	9,545.5	2,806.04	97	54.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : SC Lib HC 3+7

Number of peaks found: 24 Corr. Area 1: 3,178.5
 Noise: 1.3

Peak table for sample 8 : SC Lib HC 3+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	210	9.13	65.9		60.57
3	279	228.15	1,239.7		66.71
4	291	86.28	449.7		67.77
5	303	103.64	517.7		68.87
6	317	104.48	499.6		69.96
7	328	66.96	309.1		70.89
8	340	55.77	248.4		71.85
9	348	121.87	530.8		72.47
10	360	83.41	351.2		73.43
11	375	156.60	632.7		74.66
12	397	208.71	795.9		76.46
13	418	58.30	211.4		77.69
14	441	116.67	400.8		79.01
15	457	62.81	208.1		79.93
16	483	180.54	566.6		81.38
17	616	52.85	129.9		87.53
18	652	57.60	133.9		88.67
19	671	50.35	113.8		89.29
20	696	69.41	151.0		90.12
21	786	75.45	145.5		91.39
22	906	222.94	372.7		93.02
23	1,350	78.55	88.1		96.62
24	1,962	4.56	3.5		100.70
25	2,187	3.86	2.7		101.58

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : SC Lib HC 3+7

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

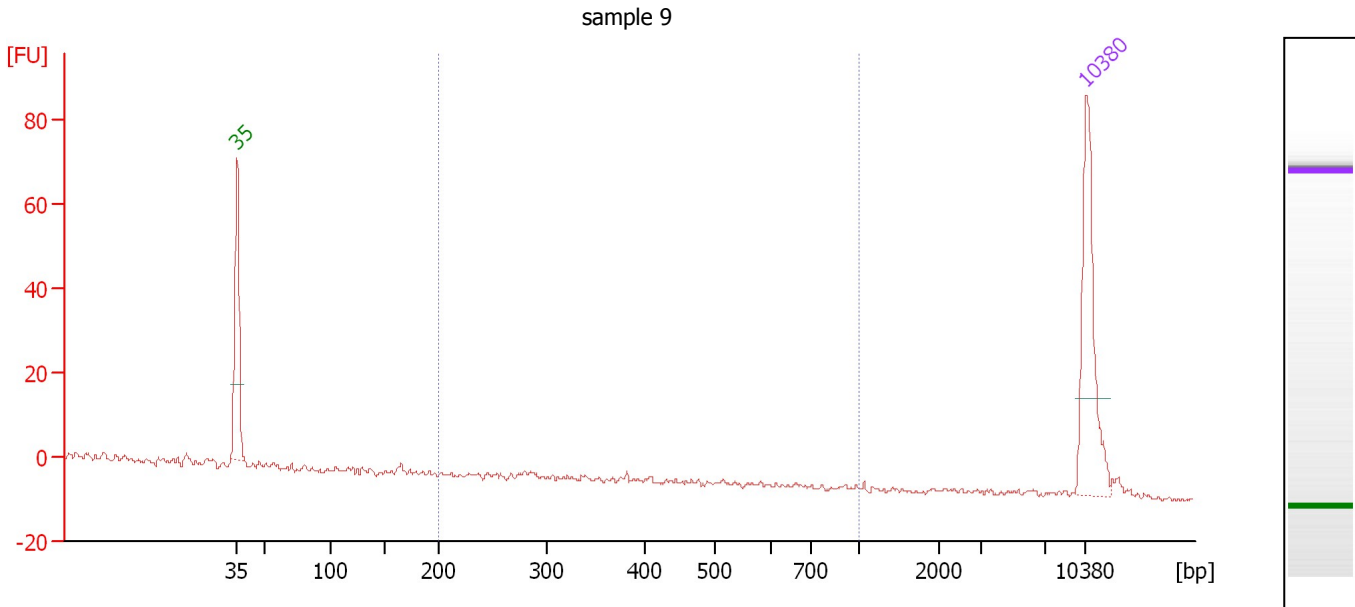
Region table for sample 8 : SC Lib HC 3+7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
216	2,504	595	3,178.5	10,251.0	3,011.97	96	55.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 1.7
 Noise: 0.7

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	10,380	75.00	10.9	Upper Marker	113.00

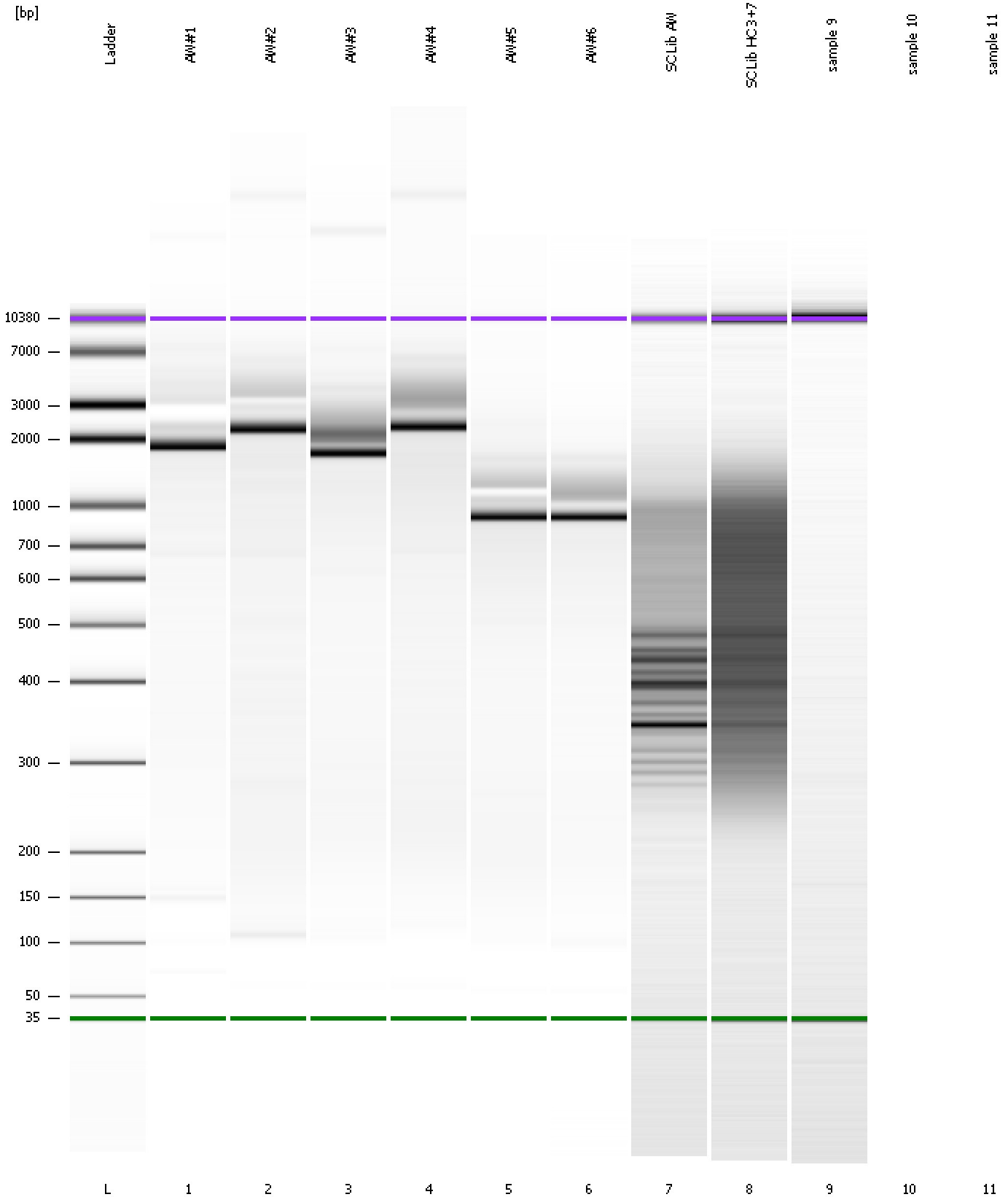
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	457	1.7	7.8	1.94	9	42.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
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Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
Modified: 3/29/2017 2:24:52 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad

Created: 3/29/2017 1:48:21 PM
 Modified: 3/29/2017 2:24:52 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		3/29/2017 2:23:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-29\2017-03-29_002.xad)		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2017 1:48:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1