

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
Modified: 5/17/2016 11:45:27 AM

Electrophoresis File Run Summary

Instrument Information:

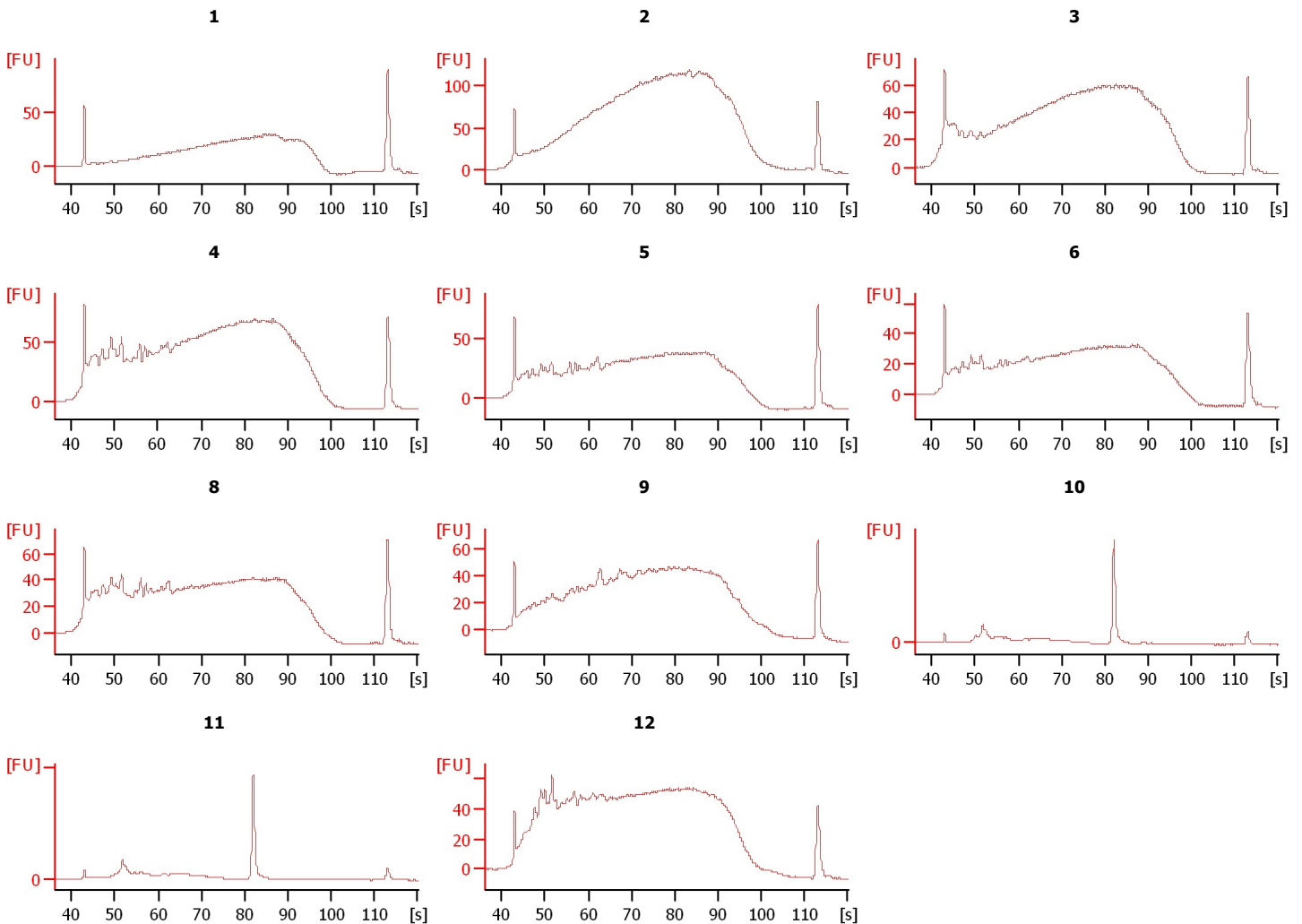
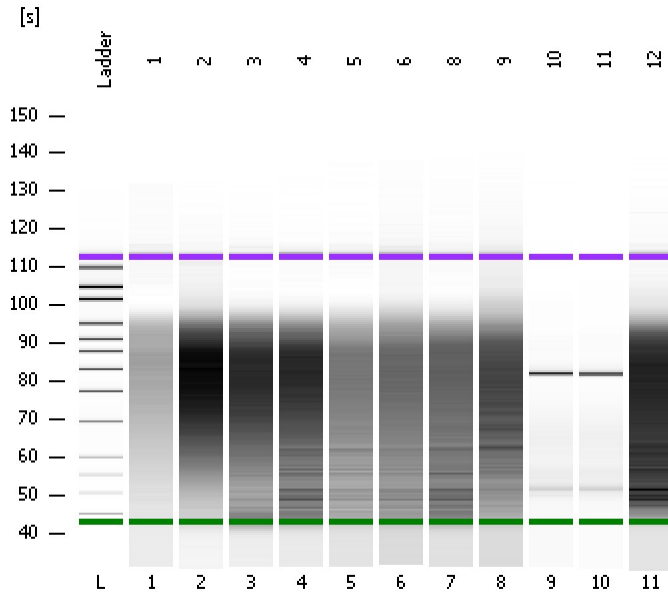
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
Modified: 5/17/2016 11:45:27 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
3		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
6		<input type="checkbox"/>	✓			
8		<input type="checkbox"/>	✓			
9		<input type="checkbox"/>	✓			
10		<input type="checkbox"/>	✓			
11		<input type="checkbox"/>	✓			
12		<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\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
Modified: 5/17/2016 11:45:27 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

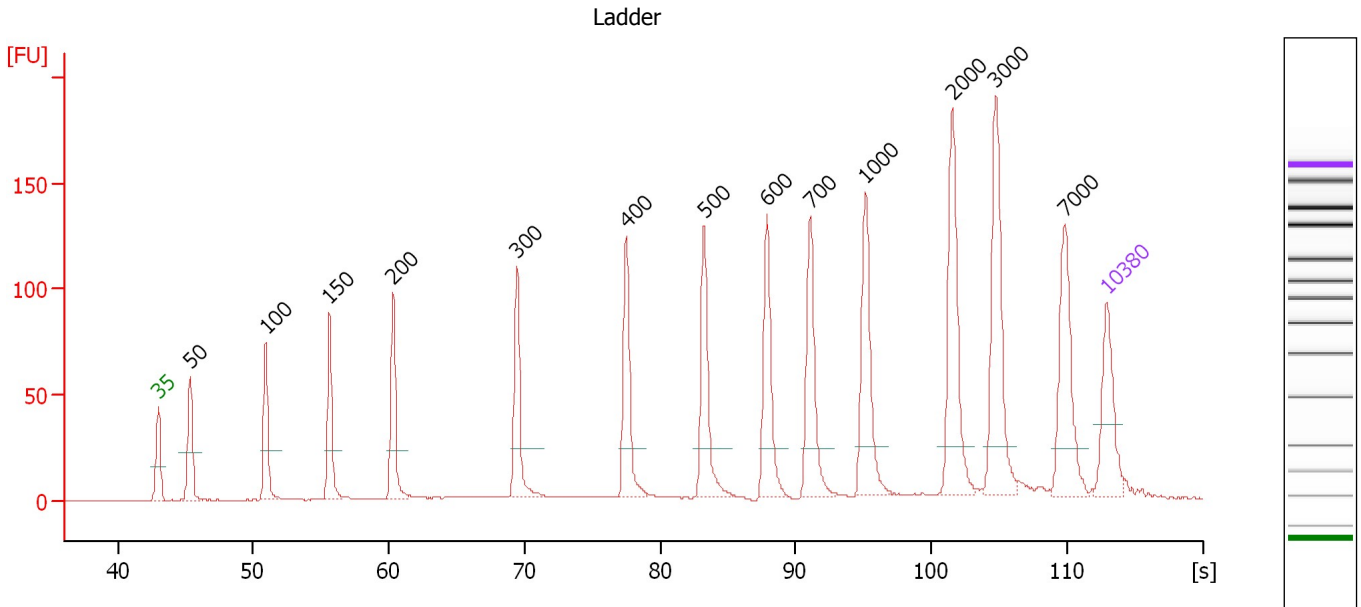
Ladder

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:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

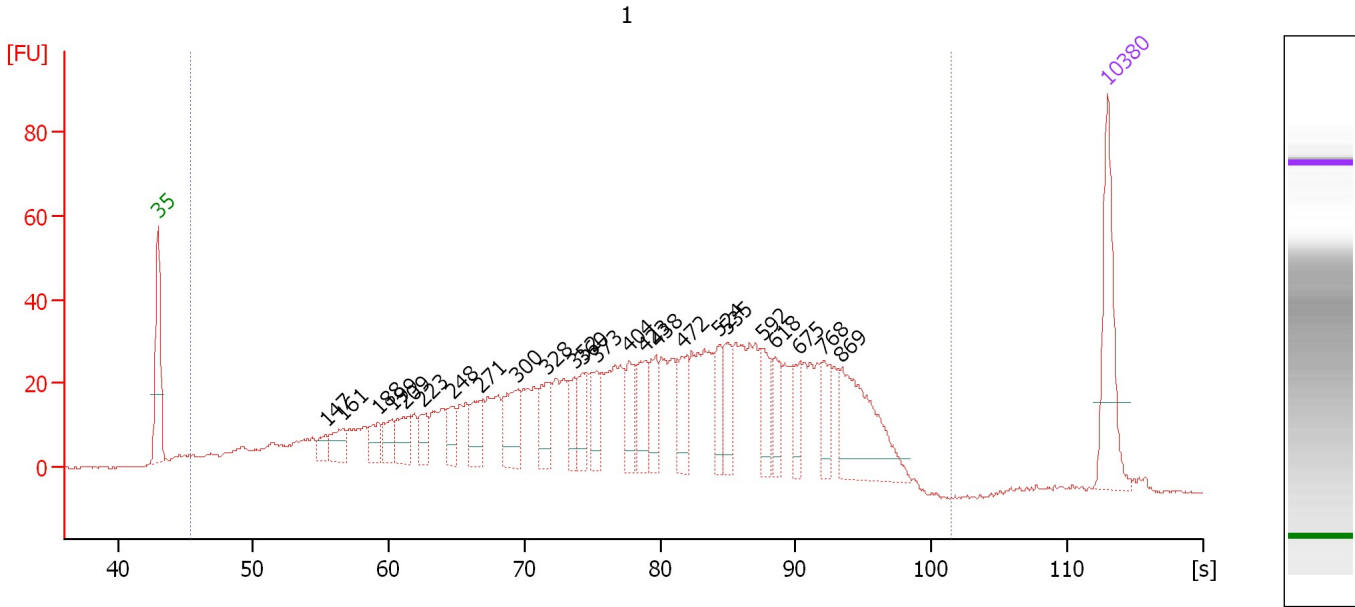
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.63
5	200	150.00	1,136.4	Ladder Peak	60.33
6	300	150.00	757.6	Ladder Peak	69.48
7	400	150.00	568.2	Ladder Peak	77.51
8	500	150.00	454.5	Ladder Peak	83.27
9	600	150.00	378.8	Ladder Peak	87.92
10	700	150.00	324.7	Ladder Peak	91.08
11	1,000	150.00	227.3	Ladder Peak	95.16
12	2,000	150.00	113.6	Ladder Peak	101.57
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 24 Corr. Area 1: 1,338.6
 Noise: 0.2

Peak table for sample 1 : 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	147	16.63	170.9		55.39
3	161	31.68	299.0		56.62
4	188	26.85	216.1		59.22
5	199	24.21	184.5		60.22
6	209	36.78	267.1		61.11
7	223	26.84	182.3		62.44
8	248	26.14	159.8		64.71
9	271	40.27	225.0		66.84
10	300	53.36	269.9		69.44
11	328	41.40	191.4		71.71
12	352	27.54	118.6		73.65
13	360	32.79	138.0		74.31
14	373	39.28	159.5		75.35
15	404	31.40	117.9		77.72
16	423	43.07	154.2		78.85
17	438	34.53	119.5		79.70
18	472	39.06	125.5		81.64
19	524	30.77	89.0		84.39
20	535	33.69	95.4		84.91
21	592	31.58	80.8		87.55
22	618	29.45	72.2		88.50
23	675	24.86	55.8		90.30
24	768	28.08	55.4		92.00
25	869	111.63	194.7		93.37

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 1

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

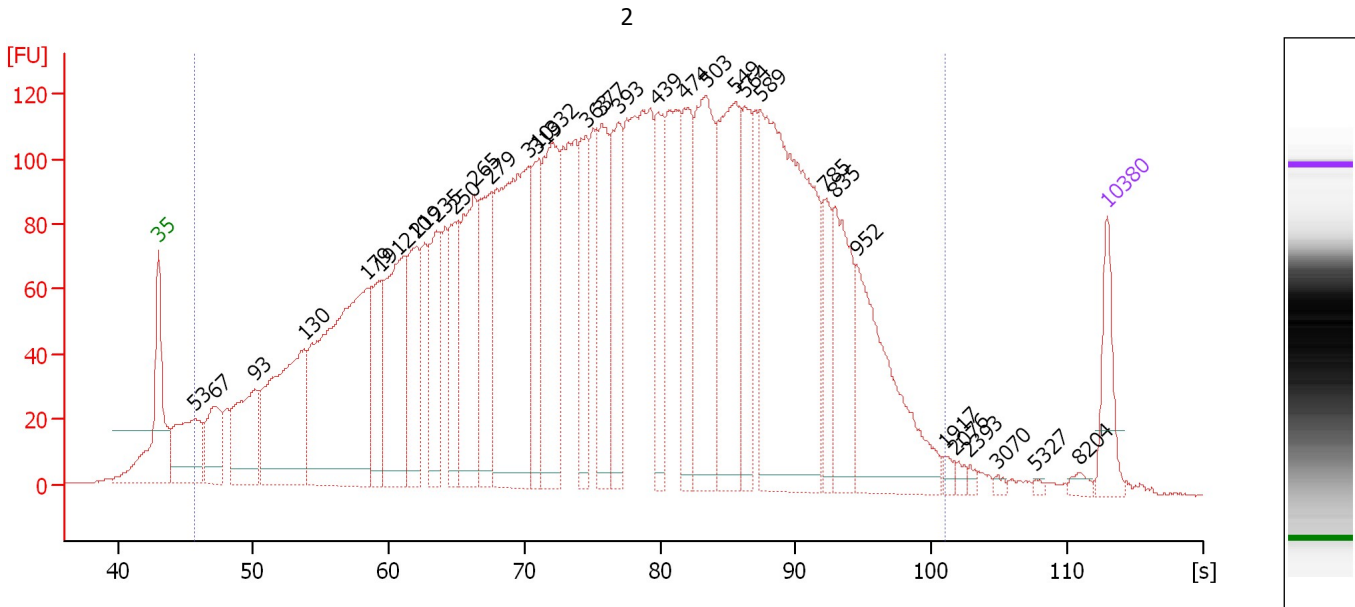
Region table for sample 1 : 1

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
45.35	101.45	471	1,338.6	11,375.0	2,039.92	98	53.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2

Number of peaks found: 33 Corr. Area 1: 5,820.7
 Noise: 0.3

Peak table for sample 2 : 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	53	214.06	6,111.6		45.71
3	67	144.95	3,301.1		47.21
4	93	253.10	4,122.7		50.16
5	130	493.03	5,751.4		53.75
6	179	813.70	6,871.7		58.39
7	191	177.85	1,412.5		59.46
8	210	352.64	2,543.0		61.25
9	219	223.04	1,542.4		62.07
10	235	205.72	1,326.6		63.53
11	250	196.73	1,190.8		64.93
12	265	310.77	1,776.0		66.28
13	279	236.62	1,285.6		67.54
14	310	640.04	3,131.5		70.25
15	319	183.07	870.3		70.98
16	332	322.52	1,472.0		72.05
17	363	166.55	694.6		74.56
18	377	210.24	844.6		75.68
19	393	214.44	825.9		76.98
20	439	159.57	551.1		79.74
21	474	199.09	636.4		81.78
22	503	360.82	1,086.4		83.42
23	549	372.48	1,027.8		85.55
24	564	150.50	404.5		86.23
25	589	778.76	2,004.4		87.39

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	785	97.45	188.1		92.23
27	835	197.98	359.4		92.91
28	952	309.57	492.8		94.51
29	1,917	10.62	8.4		101.04
30	2,076	9.30	6.8		101.82
31	2,393	6.53	4.1		102.83
32	3,070	5.37	2.7		104.87
33	5,327	4.16	1.2		107.72
34	8,204	11.21	2.1		110.97
35	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : 2

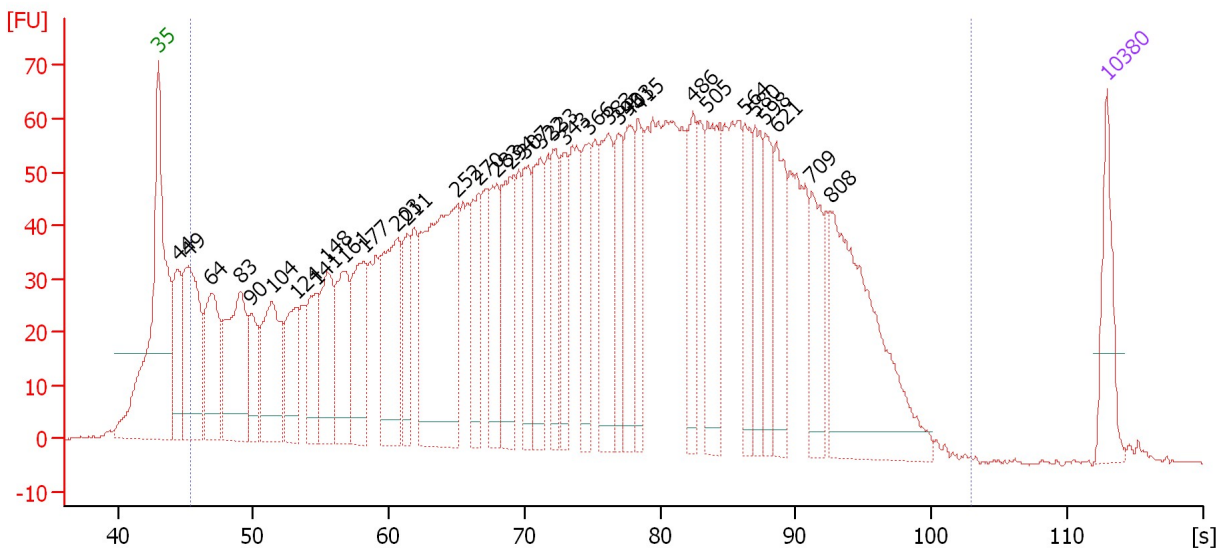
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
45.74	101.04	448	5,820.7	58,716.3	9,716.02	97	61.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

3



Overall Results for sample 3 : 3

Number of peaks found: 34 Corr. Area 1: 3,272.4
 Noise: 0.2

Peak table for sample 3 : 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	44	142.30	4,879.9		44.45
3	49	286.49	8,844.1		45.22
4	64	206.54	4,899.1		46.92
5	83	276.61	5,052.1		49.04
6	90	104.01	1,744.7		49.86
7	104	228.45	3,313.0		51.36
8	124	132.23	1,621.7		53.15
9	141	127.76	1,377.3		54.75
10	148	174.95	1,787.7		55.47
11	161	159.21	1,496.9		56.68
12	177	188.10	1,609.1		58.18
13	203	244.50	1,820.5		60.65
14	211	99.47	712.9		61.37
15	252	464.75	2,799.2		65.04
16	270	134.05	753.6		66.69
17	283	143.99	771.7		67.90
18	294	159.46	820.8		68.96
19	307	121.15	597.1		70.07
20	322	151.71	714.2		71.23
21	333	112.81	512.9		72.15
22	343	102.09	451.1		72.92
23	366	115.22	477.3		74.76
24	383	166.34	657.7		76.16
25	393	104.46	402.9		76.94

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	403	127.57	479.1		77.71
27	415	97.95	357.5		78.39
28	486	130.38	406.7		82.45
29	505	168.88	506.5		83.51
30	564	89.99	241.5		86.27
31	580	111.34	290.8		86.99
32	598	83.02	210.4		87.81
33	621	117.25	286.0		88.59
34	709	104.86	224.1		91.20
35	808	360.44	675.7		92.55
36	10,380	75.00	10.9	Upper Marker	113.00

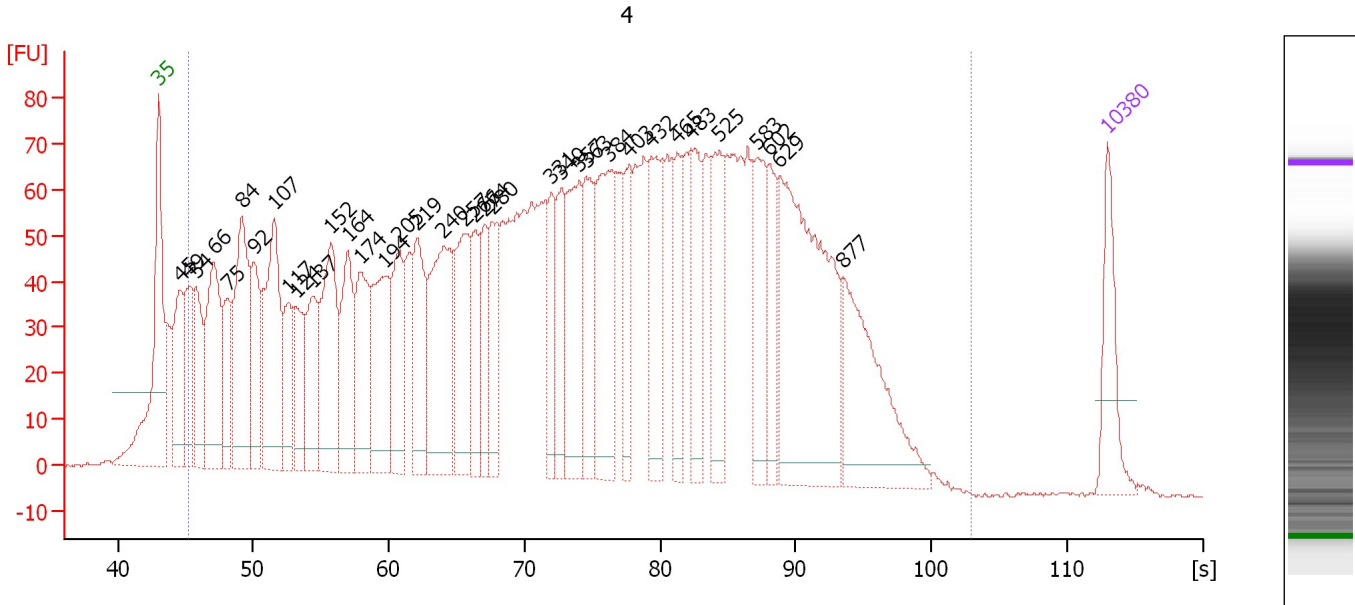
Region table for sample 3 : 3

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
45.45	102.99	421	3,272.4	51,920.3	7,282.56	97	62.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4

Number of peaks found: 36 Corr. Area 1: 3,960.7
 Noise: 0.3

Peak table for sample 4 : 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	45	165.69	5,574.2		44.59
3	49	134.93	4,135.9		45.28
4	54	132.78	3,750.8		45.77
5	66	259.83	5,998.1		47.11
6	75	110.44	2,232.2		48.15
7	84	288.23	5,207.9		49.14
8	92	143.88	2,373.4		50.03
9	107	296.01	4,203.9		51.57
10	117	105.37	1,361.7		52.56
11	124	122.50	1,501.8		53.16
12	137	138.12	1,529.9		54.39
13	152	232.46	2,323.8		55.78
14	164	175.61	1,620.1		56.97
15	174	176.19	1,531.8		57.91
16	194	193.77	1,514.9		59.74
17	205	146.79	1,084.8		60.78
18	219	153.50	1,061.5		62.07
19	240	247.08	1,558.5		64.00
20	257	178.61	1,053.0		65.54
21	266	93.50	532.2		66.38
22	274	93.68	517.4		67.13
23	280	108.50	586.6		67.67
24	331	99.55	455.5		71.98
25	340	106.08	472.2		72.72

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	357	173.69	737.1		74.06
27	363	126.64	528.3		74.56
28	384	213.10	841.8		76.19
29	403	87.66	329.7		77.68
30	432	150.11	526.3		79.36
31	465	94.14	306.9		81.24
32	483	120.73	378.8		82.29
33	525	127.20	367.4		84.42
34	583	120.76	313.7		87.14
35	602	81.92	206.2		87.98
36	629	417.98	1,007.3		88.82
37	877	218.84	378.3		93.48
38	▶ 10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : 4

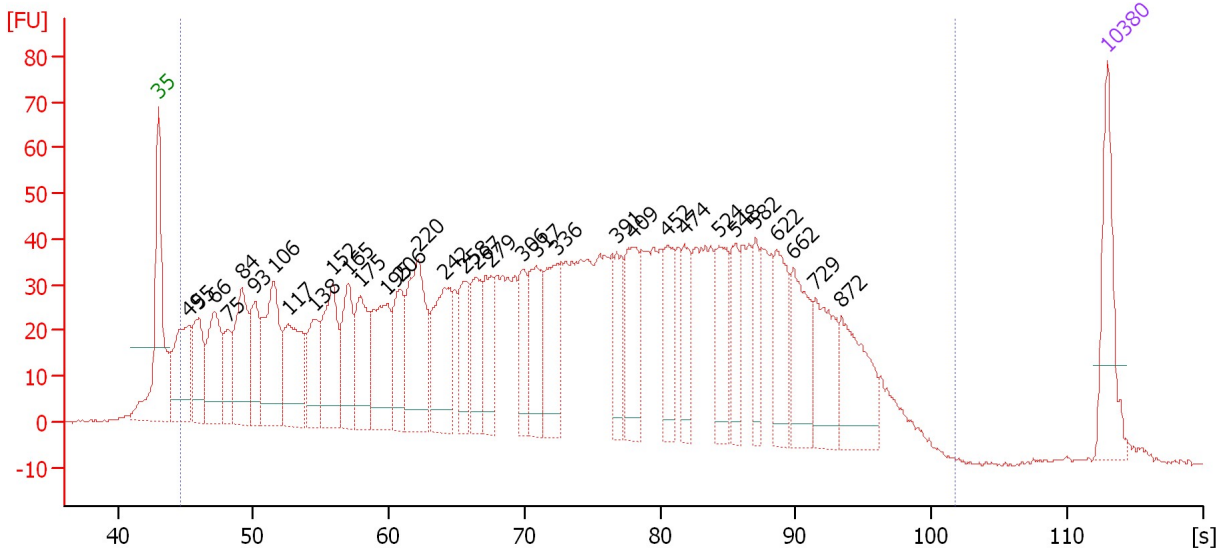
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
45.16	102.94	401	3,960.7	56,571.2	7,080.09	97	63.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

5



Overall Results for sample 5 : 5

Number of peaks found: 33 Corr. Area 1: 2,457.9
 Noise: 0.3

Peak table for sample 5 : 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	49	125.94	3,875.6		45.25
3	55	96.37	2,645.5		45.95
4	66	129.47	2,974.6		47.15
5	75	62.25	1,251.5		48.20
6	84	137.85	2,490.2		49.15
7	93	90.96	1,484.4		50.14
8	106	164.79	2,346.6		51.54
9	117	134.95	1,746.8		52.54
10	138	88.45	968.7		54.54
11	152	132.95	1,323.5		55.84
12	165	102.95	945.5		57.04
13	175	98.96	858.9		57.94
14	195	131.96	1,023.6		59.89
15	206	88.05	648.9		60.84
16	220	163.54	1,127.4		62.14
17	242	133.33	836.1		64.13
18	258	72.65	426.6		65.63
19	267	73.34	416.6		66.43
20	279	76.52	415.1		67.58
21	306	62.35	309.1		69.93
22	317	86.87	414.6		70.88
23	336	104.91	472.9		72.38
24	391	53.84	208.4		76.83
25	409	89.19	330.5		78.02

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	452	65.12	218.2		80.52
27	474	52.73	168.6		81.77
28	524	71.67	207.4		84.37
29	548	52.26	144.4		85.52
30	582	43.92	114.4		87.07
31	622	76.86	187.2		88.62
32	662	85.21	195.1		89.87
33	729	85.31	177.4		91.47
34	872	93.39	162.3		93.41
35	▶ 10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : 5

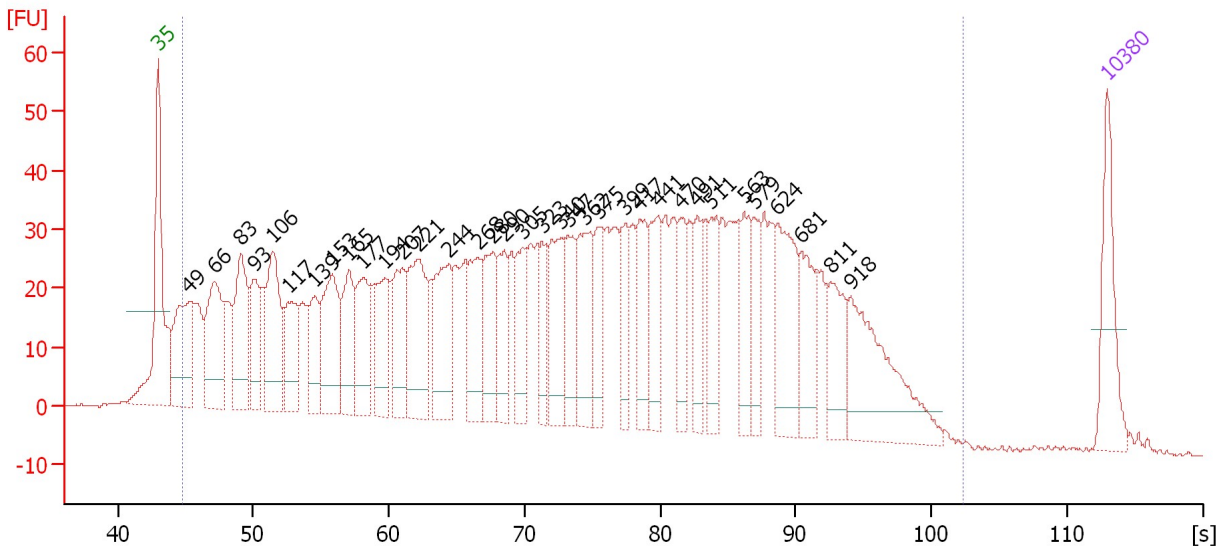
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
44.63	101.71	396	2,457.9	33,875.7	■ 4,123.00	98	64.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

6



Overall Results for sample 6 : 6

Number of peaks found: 35 Corr. Area 1: 2,096.1
 Noise: 0.2

Peak table for sample 6 : 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	49	161.78	4,969.2		45.26
3	66	162.84	3,753.1		47.12
4	83	151.95	2,762.8		49.08
5	93	99.30	1,621.1		50.14
6	106	164.00	2,346.0		51.50
7	117	108.52	1,403.2		52.55
8	139	82.13	897.7		54.57
9	153	150.53	1,495.1		55.87
10	165	113.39	1,042.0		57.03
11	177	106.19	910.7		58.14
12	194	105.97	828.4		59.75
13	207	104.57	763.9		61.00
14	221	155.22	1,066.2		62.21
15	244	144.14	894.2		64.37
16	268	104.19	588.2		66.58
17	280	94.86	512.4		67.69
18	290	75.18	393.0		68.55
19	305	74.21	368.3		69.90
20	323	60.36	283.3		71.31
21	340	109.78	489.6		72.67
22	347	73.54	321.4		73.22
23	362	108.64	454.4		74.48
24	375	63.47	256.6		75.49
25	399	56.99	216.3		77.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 6

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	417	79.66	289.3		78.50
27	441	79.32	272.6		79.86
28	470	56.24	181.1		81.57
29	491	55.71	171.8		82.78
30	511	71.43	211.8		83.78
31	563	67.30	181.1		86.20
32	579	50.03	130.9		86.95
33	624	118.67	288.4		88.66
34	681	77.22	171.8		90.47
35	811	71.16	133.0		92.58
36	918	162.75	268.7		94.04
37	10,380	75.00	10.9	Upper Marker	113.00

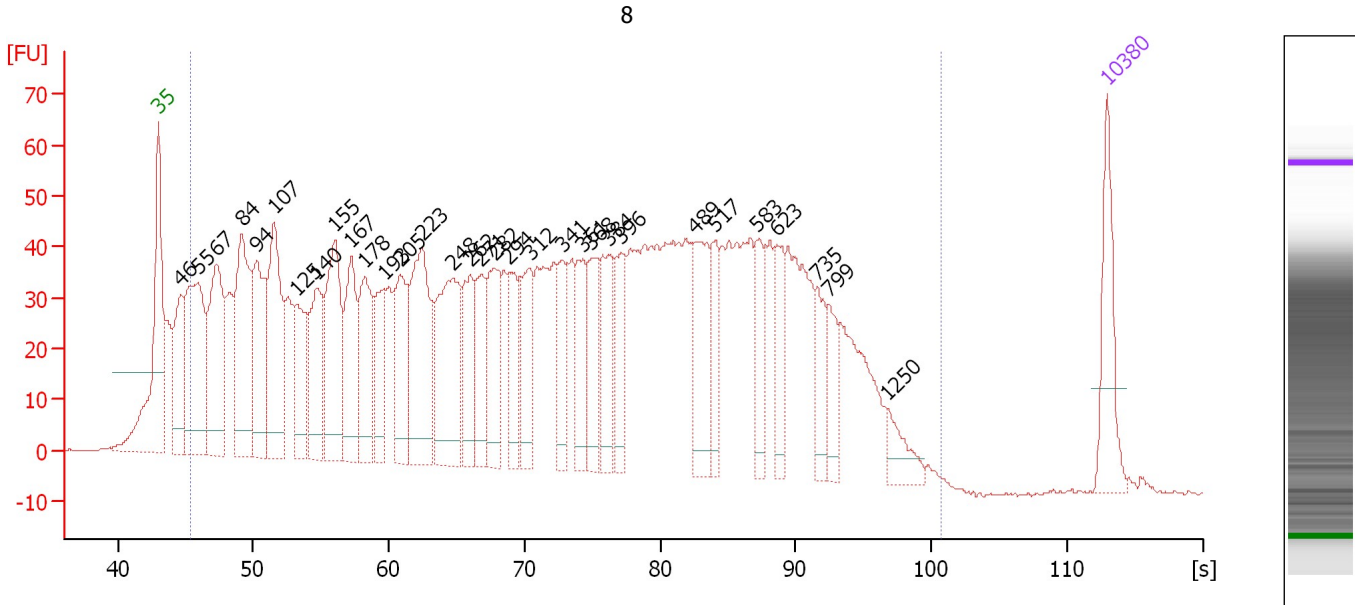
Region table for sample 6 : 6

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
44.84	102.29	413	2,096.1	38,093.8	4,721.69	98	68.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 8

Number of peaks found: 32 Corr. Area 1: 2,825.3
 Noise: 0.3

Peak table for sample 7 : 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	46	138.70	4,601.7		44.68
3	55	276.21	7,629.0		45.91
4	67	237.78	5,359.5		47.29
5	84	252.58	4,546.8		49.18
6	94	190.73	3,066.3		50.30
7	107	233.06	3,307.5		51.58
8	125	127.95	1,554.4		53.26
9	140	145.22	1,572.2		54.69
10	155	215.30	2,109.3		56.07
11	167	153.37	1,390.1		57.25
12	178	145.27	1,240.0		58.22
13	193	98.08	771.0		59.64
14	205	132.11	974.6		60.82
15	223	216.73	1,470.9		62.45
16	248	220.93	1,350.8		64.70
17	262	100.44	581.4		65.98
18	271	83.50	466.4		66.84
19	282	117.53	631.9		67.81
20	294	75.41	389.2		68.89
21	312	99.29	482.6		70.42
22	341	72.37	321.6		72.77
23	361	84.59	355.4		74.35
24	368	79.21	325.9		74.96
25	384	92.28	364.0		76.24

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	396	71.79	275.0		77.16
27	489	113.65	352.4		82.62
28	517	59.72	175.1		84.05
29	583	58.99	153.4		87.11
30	623	56.79	138.1		88.65
31	735	47.50	97.9		91.56
32	799	44.54	84.5		92.42
33	1,250	34.28	41.6		96.76
34	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : 8

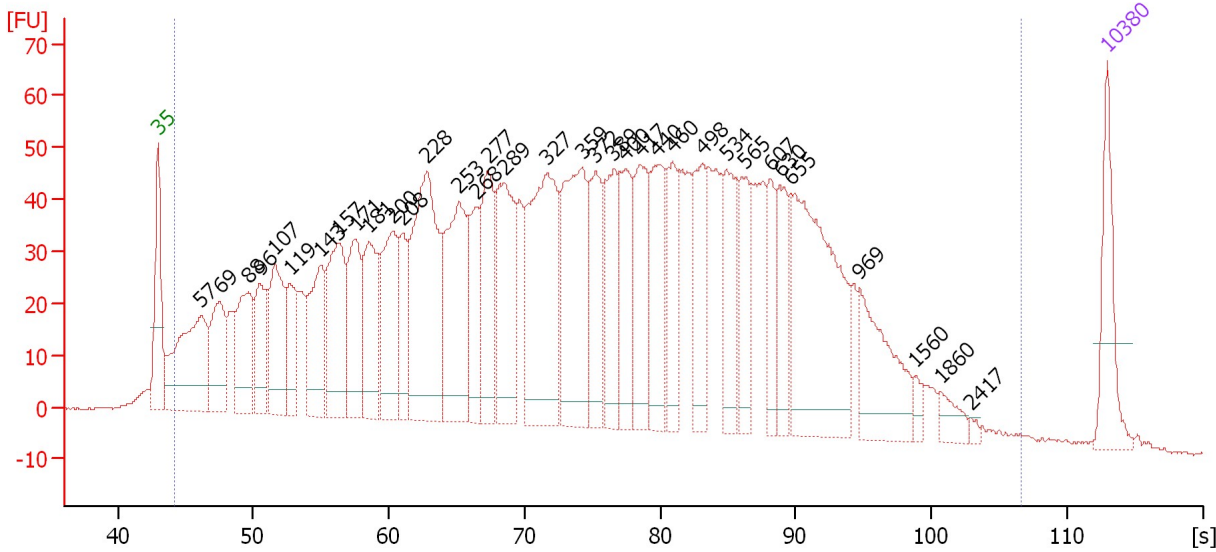
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
45.33	100.80	384	2,825.3	47,684.1	5,598.87	96	67.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

9



Overall Results for sample 8 : 9

Number of peaks found: 35 Corr. Area 1: 2,875.4
Noise: 0.2

Peak table for sample 8 : 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	57	250.29	6,629.1		46.17
3	69	136.66	2,986.3		47.52
4	88	150.07	2,570.3		49.66
5	96	105.53	1,666.8		50.49
6	107	164.53	2,322.1		51.63
7	119	89.02	1,133.4		52.73
8	143	159.21	1,689.0		54.96
9	157	195.71	1,885.9		56.31
10	171	146.23	1,299.2		57.56
11	181	143.02	1,200.4		58.50
12	200	160.64	1,217.5		60.32
13	208	83.73	610.3		61.05
14	228	333.46	2,218.3		62.87
15	253	230.27	1,377.2		65.21
16	268	103.08	583.8		66.51
17	277	154.56	846.5		67.34
18	289	188.05	985.4		68.48
19	327	304.50	1,410.4		71.66
20	359	243.32	1,025.6		74.26
21	372	113.05	460.7		75.24
22	389	110.20	429.7		76.60
23	400	114.64	434.7		77.48
24	417	131.84	478.5		78.52
25	440	119.80	412.5		79.82

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 9

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	460	90.24	297.3		80.96
27	498	103.99	316.5		83.15
28	534	101.90	289.0		84.86
29	565	81.51	218.8		86.27
30	607	58.59	146.2		88.14
31	630	79.48	191.1		88.87
32	655	311.81	721.5		89.65
33	969	118.13	184.6		94.75
34	1,560	11.03	10.7		98.75
35	1,860	20.95	17.1		100.67
36	2,417	4.48	2.8		102.91
37	10,380	75.00	10.9	Upper Marker	113.00

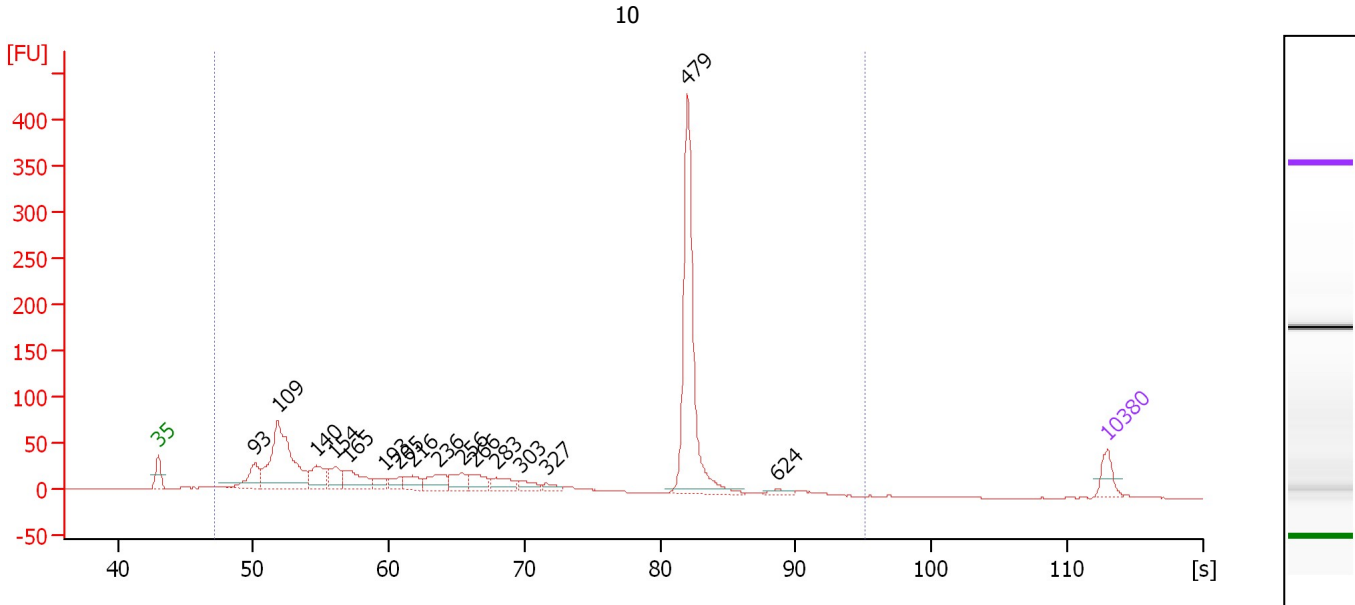
Region table for sample 8 : 9

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
44.13	106.65	448	2,875.4	42,938.3	5,732.87	99	83.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 10

Number of peaks found: 16 Corr. Area 1: 1,296.9
 Noise: 0.2

Peak table for sample 9 : 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	93	183.56	3,000.2		50.13
3	109	836.25	11,571.6		51.83
4	140	177.21	1,920.9		54.68
5	154	133.45	1,312.2		56.02
6	165	184.49	1,693.0		57.05
7	193	57.01	448.4		59.63
8	205	58.35	431.5		60.77
9	216	90.13	633.4		61.75
10	236	126.36	809.6		63.66
11	256	107.49	637.0		65.42
12	266	103.62	589.4		66.40
13	283	98.41	527.3		67.90
14	303	60.12	300.7		69.71
15	327	38.20	176.8		71.67
16	479	1,018.45	3,222.3		82.06
17	624	24.23	58.9		88.67
18	10,380	75.00	10.9	Upper Marker	113.00

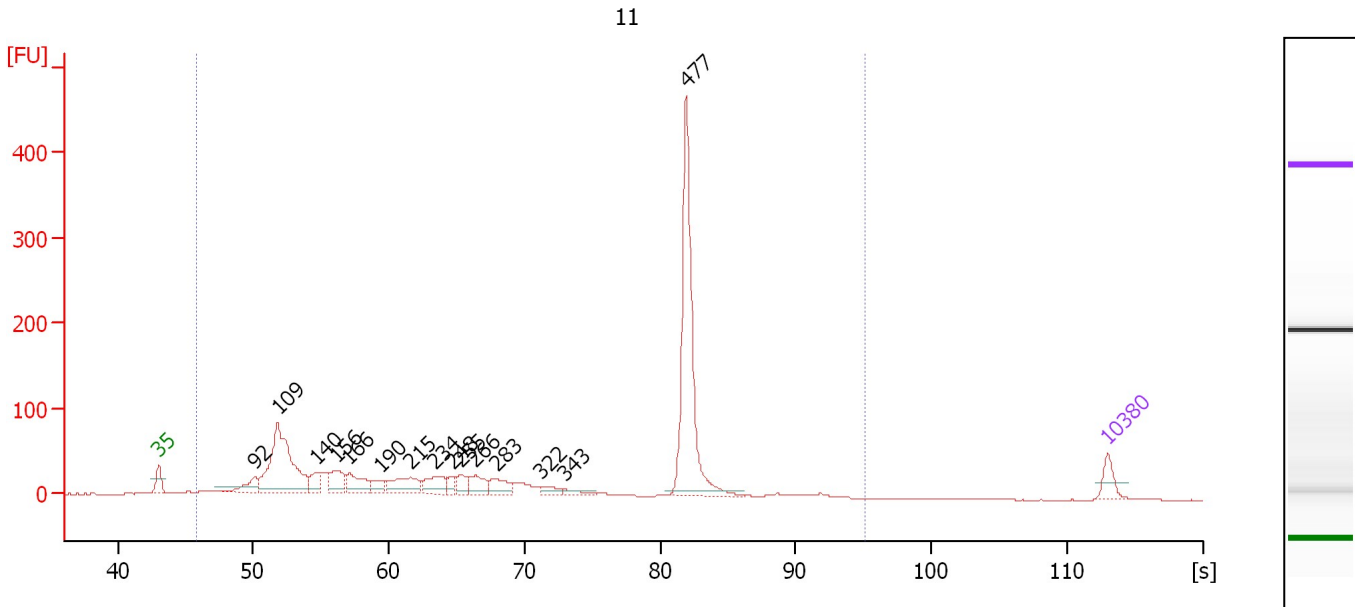
Region table for sample 9 : 10

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
47.11	95.16	317	1,296.9	31,116.2	3,766.46	98	51.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 11

Number of peaks found: 15 Corr. Area 1: 1,465.3
 Noise: 0.2

Peak table for sample 10 : 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	92	137.46	2,252.2		50.10
3	109	994.63	13,788.9		51.81
4	140	123.34	1,337.9		54.67
5	156	172.62	1,679.7		56.17
6	166	194.88	1,782.4		57.10
7	190	79.70	635.6		59.39
8	215	213.81	1,509.2		61.67
9	234	159.64	1,034.0		63.43
10	248	62.12	380.3		64.67
11	255	84.16	500.3		65.35
12	266	123.47	702.7		66.39
13	283	117.50	629.9		67.89
14	322	56.23	264.4		71.26
15	343	41.91	184.9		72.97
16	477	1,193.35	3,791.5		81.94
17	10,380	75.00	10.9	Upper Marker	113.00

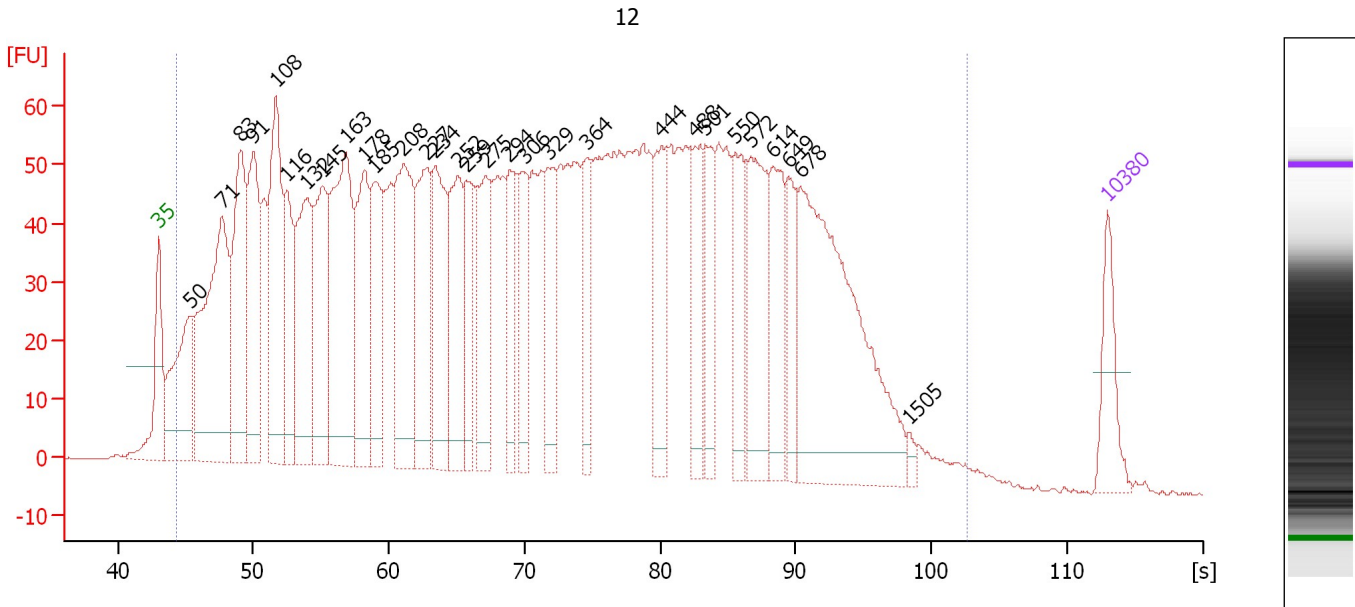
Region table for sample 10 : 11

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
45.83	95.16	318	1,465.3	36,751.3	4,503.29	99	51.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 12

Number of peaks found: 30 Corr. Area 1: 3,547.2
 Noise: 0.1

Peak table for sample 11 : 12

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	275.77	8,418.8		45.31
3	71	585.49	12,469.0		47.73
4	83	376.03	6,832.0		49.09
5	91	324.00	5,370.9		49.98
6	108	405.30	5,702.3		51.66
7	116	200.59	2,618.1		52.45
8	132	336.45	3,852.7		53.98
9	145	288.89	3,026.4		55.13
10	163	491.71	4,567.9		56.86
11	178	281.32	2,399.3		58.23
12	185	213.66	1,750.5		58.91
13	208	365.90	2,664.4		61.06
14	227	255.98	1,708.5		62.80
15	234	260.08	1,684.8		63.43
16	252	223.98	1,345.3		65.11
17	259	147.46	862.2		65.74
18	275	183.62	1,013.0		67.16
19	294	141.14	728.4		68.89
20	306	137.04	677.7		69.99
21	329	151.32	697.7		71.78
22	364	117.34	488.5		74.61
23	444	142.47	485.7		80.07
24	488	123.18	382.3		82.59
25	501	113.95	344.4		83.33

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	550	140.33	386.7		85.59
27	572	217.28	575.1		86.64
28	614	145.18	358.0		88.37
29	649	89.61	209.1		89.47
30	678	601.54	1,345.2		90.37
31	1,505	11.04	11.1		98.40
32	10,380	75.00	10.9	Upper Marker	113.00

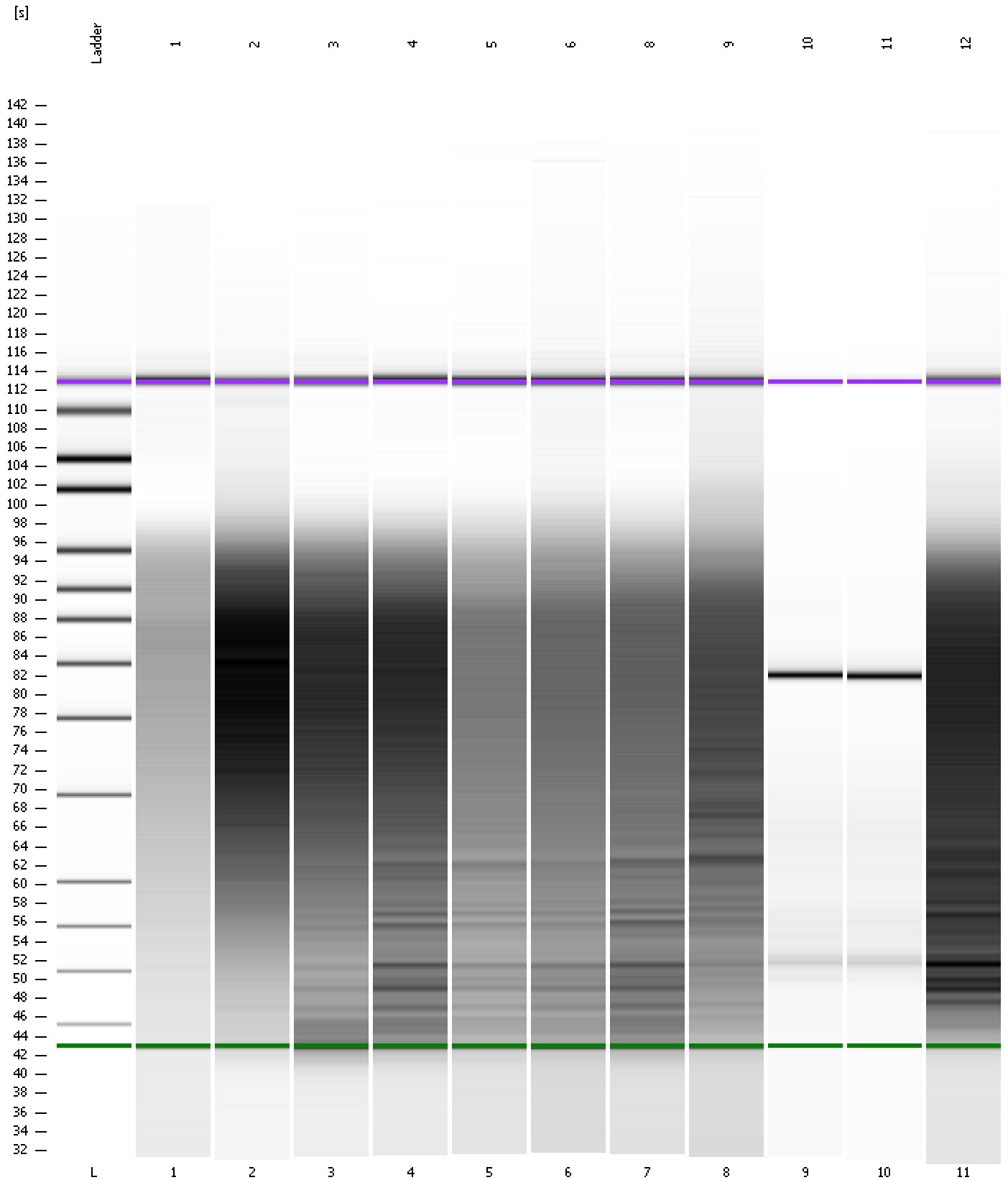
Region table for sample 11 : 12

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
44.35	102.66	380	3,547.2	84,262.4	9,851.70	99	71.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
Modified: 5/17/2016 11:45:27 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad

Created: 5/17/2016 10:57:52 AM
 Modified: 5/17/2016 11:45:27 AM

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		5/17/2016 11:38:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-17\2016-05-17_002.xad)		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/17/2016 10:57:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1