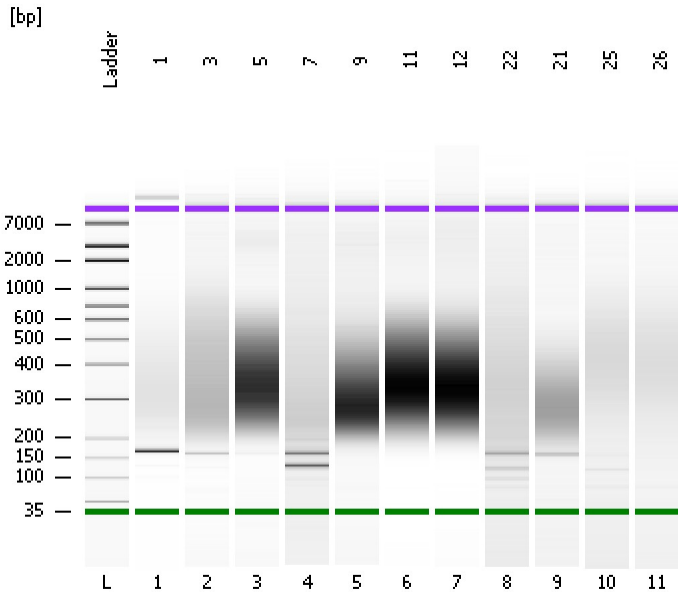


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
Modified: 5/11/2017 11:26:53 AM

Electrophoresis File Run Summary



Instrument Information:

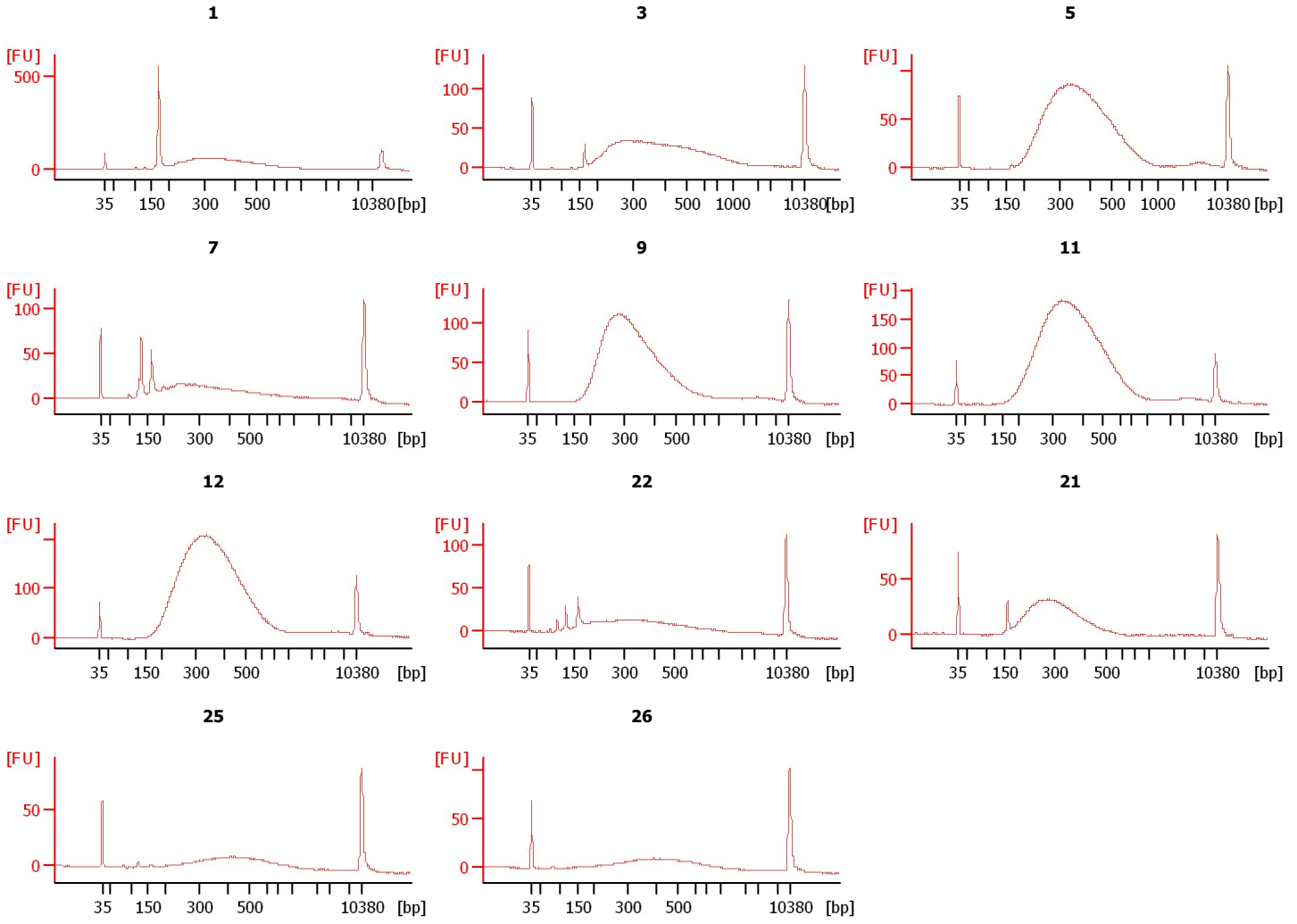
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
Modified: 5/11/2017 11:26:53 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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3		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
7		<input type="checkbox"/>	✓			
9		<input type="checkbox"/>	✓			
11		<input type="checkbox"/>	✓			
12		<input type="checkbox"/>	✓			
22		<input type="checkbox"/>	✓			
21		<input type="checkbox"/>	✓			
25		<input type="checkbox"/>	✓			
26		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

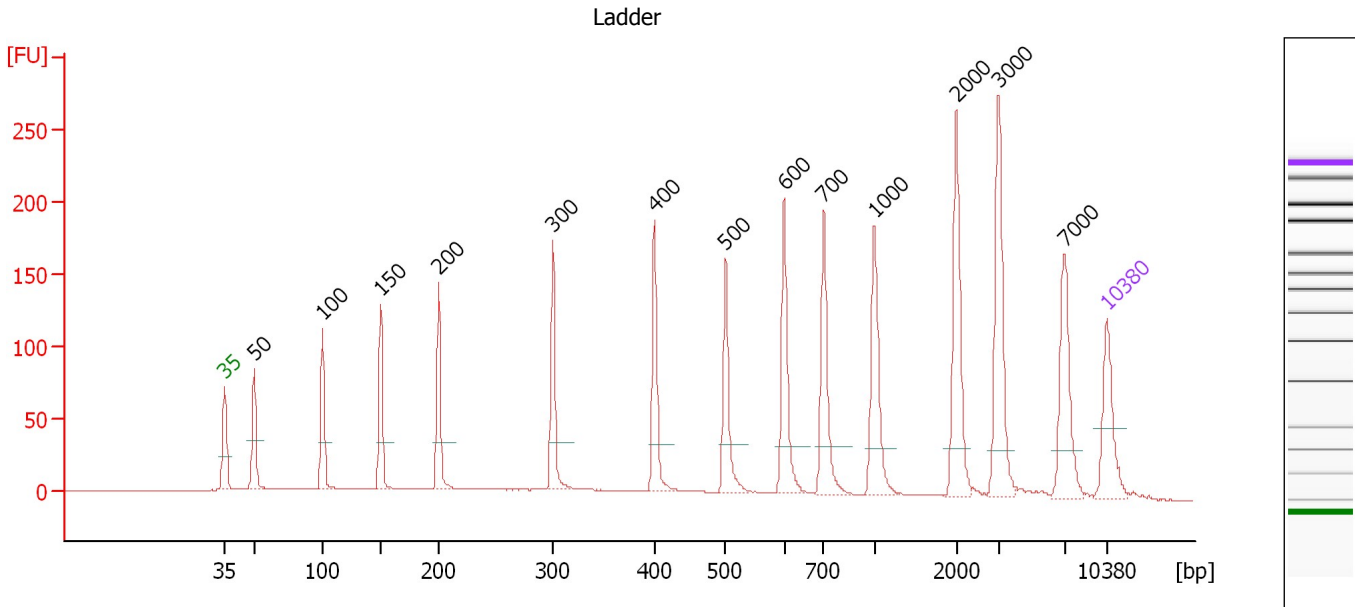
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

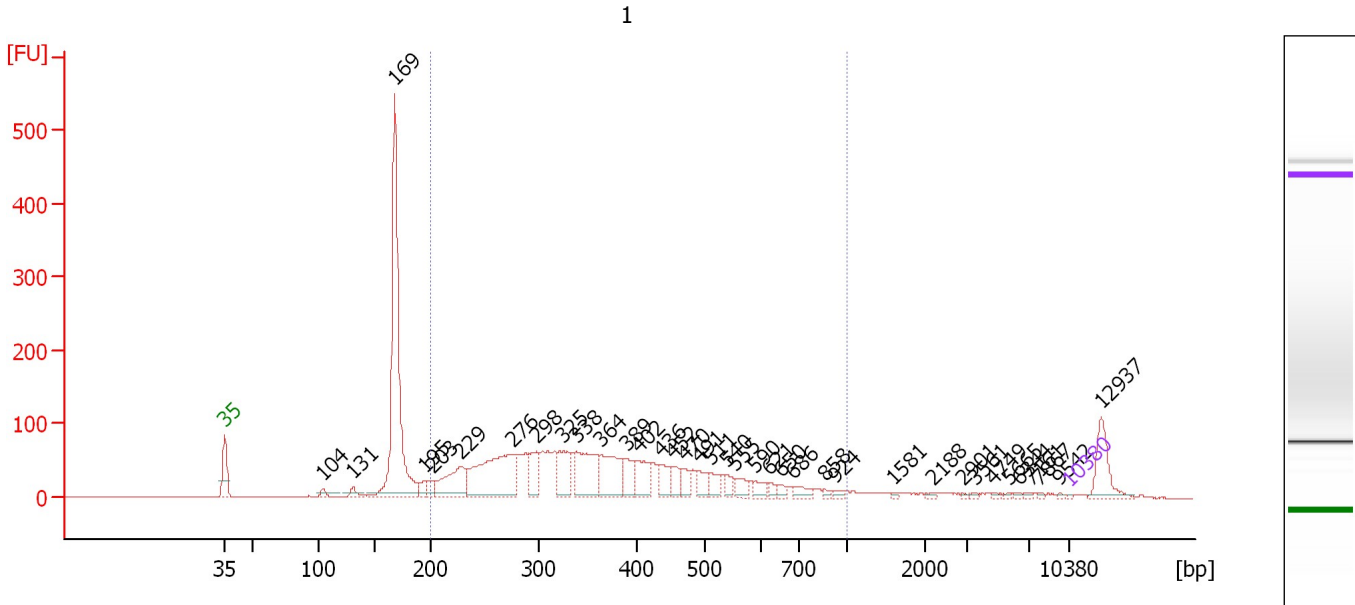
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.36
5	200	150.00	1,136.4	Ladder Peak	59.97
6	300	150.00	757.6	Ladder Peak	69.03
7	400	150.00	568.2	Ladder Peak	77.11
8	500	150.00	454.5	Ladder Peak	82.74
9	600	150.00	378.8	Ladder Peak	87.40
10	700	150.00	324.7	Ladder Peak	90.53
11	1,000	150.00	227.3	Ladder Peak	94.55
12	2,000	150.00	113.6	Ladder Peak	101.07
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.61
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 37 Corr. Area 1: 1,885.0
 Noise: 0.3

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	104	712.58	10,368.1		51.13
3	131	885.82	10,250.2		53.60
4	169	32,192.85	289,039.4		57.09
5	195	1,112.59	8,641.2		59.52
6	203	1,064.53	7,953.5		60.22
7	229	6,024.58	39,924.0		62.56
8	276	13,705.07	75,253.2		66.85
9	298	3,235.73	16,458.3		68.84
10	325	3,874.89	18,067.8		71.04
11	338	6,759.73	30,296.7		72.10
12	364	5,906.37	24,603.2		74.18
13	389	2,662.81	10,375.2		76.21
14	402	3,079.86	11,606.4		77.23
15	436	2,057.50	7,153.4		79.13
16	452	1,642.68	5,503.1		80.05
17	470	1,287.30	4,154.0		81.03
18	491	1,482.31	4,576.8		82.22
19	511	1,278.63	3,794.2		83.23
20	540	1,003.77	2,816.4		84.60
21	555	1,174.02	3,204.0		85.31
22	590	979.84	2,515.1		86.94
23	621	535.42	1,306.7		88.05
24	650	506.60	1,180.1		88.97
25	686	961.52	2,124.7		90.08

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
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Electropherogram Summary Continued ...

... Peak table for sample 1 : 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	858	298.11	526.6		92.64
27	924	312.03	511.9		93.52
28	1,581	146.33	140.2		98.34
29	2,188	156.37	108.3		101.69
30	2,901	108.89	56.9		104.08
31	3,561	125.92	53.6		105.14
32	4,749	141.58	45.2		106.68
33	5,665	102.42	27.4		107.88
34	6,344	138.65	33.1		108.76
35	7,161	150.39	31.8		109.78
36	7,867	106.29	20.5		110.48
37	9,542	113.39	18.0		112.16
38	10,380	75.00	10.9	Upper Marker	113.00
39	12,937	0.00	0.0		115.56

Region table for sample 1 : 1

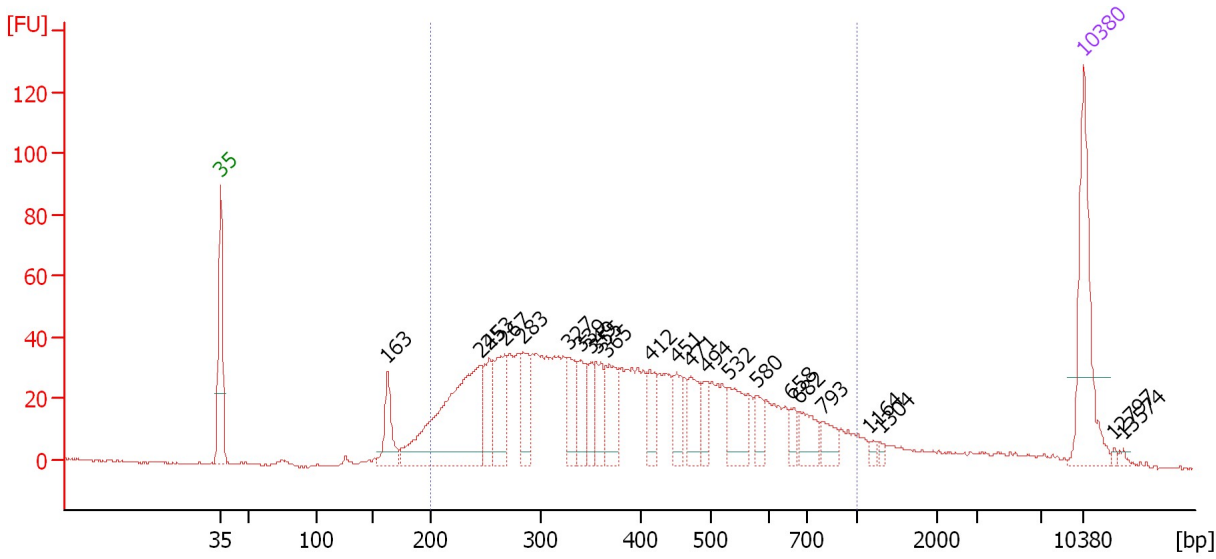
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	386	1,885.0	344,594.4	75,678.74	66	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...

3



Overall Results for sample 2 : 3

Number of peaks found: 23 Corr. Area 1: 1,273.6
 Noise: 0.4

Peak table for sample 2 : 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	163	45.55	424.1		56.53
3	245	215.66	1,333.1		64.06
4	253	41.58	248.8		64.79
5	267	66.85	380.0		66.00
6	283	46.90	250.8		67.52
7	327	35.66	165.4		71.19
8	339	31.90	142.8		72.14
9	349	24.97	108.4		73.01
10	355	33.72	143.9		73.48
11	365	44.71	185.7		74.26
12	412	29.29	107.6		77.81
13	451	27.57	92.7		79.97
14	471	32.64	105.1		81.09
15	494	19.50	59.8		82.39
16	532	42.65	121.4		84.25
17	580	17.79	46.5		86.45
18	658	11.97	27.6		89.22
19	682	26.09	58.0		89.95
20	793	16.69	31.9		91.77
21	1,164	4.34	5.6		95.62
22	1,304	3.17	3.7		96.53
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,797	0.00	0.0		115.42
25	13,574	0.00	0.0		116.20

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...

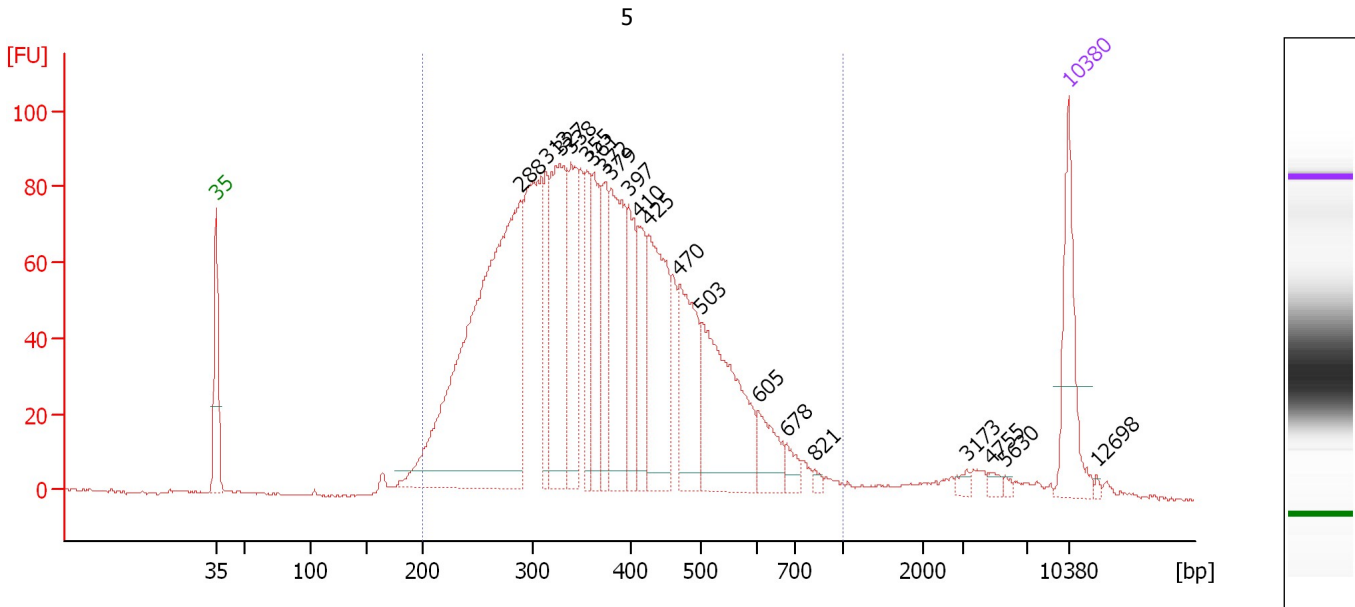
... Region table for sample 2 : 3

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	410	1,273.6	5,268.5	■ 1,185.87	88	39.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 5

Number of peaks found: 20 Corr. Area 1: 2,381.4
 Noise: 0.3


Peak table for sample 3 : 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	288	720.22	3,785.0		67.97
3	313	84.40	408.7		70.07
4	327	224.94	1,042.3		71.21
5	338	125.91	563.8		72.13
6	355	77.67	331.9		73.44
7	361	97.38	408.6		73.97
8	372	88.09	358.8		74.85
9	379	166.00	663.6		75.42
10	397	88.64	338.4		76.86
11	410	79.20	293.0		77.65
12	425	170.15	606.4		78.53
13	470	127.89	412.0		81.07
14	503	201.31	606.8		82.86
15	605	46.13	115.5		87.55
16	678	16.28	36.4		89.83
17	821	4.88	9.0		92.15
18	3,173	5.85	2.8		104.63
19	4,755	5.84	1.9		106.69
20	5,630	2.86	0.8		107.83
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,698	0.00	0.0		115.32

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
Modified: 5/11/2017 11:26:53 AM

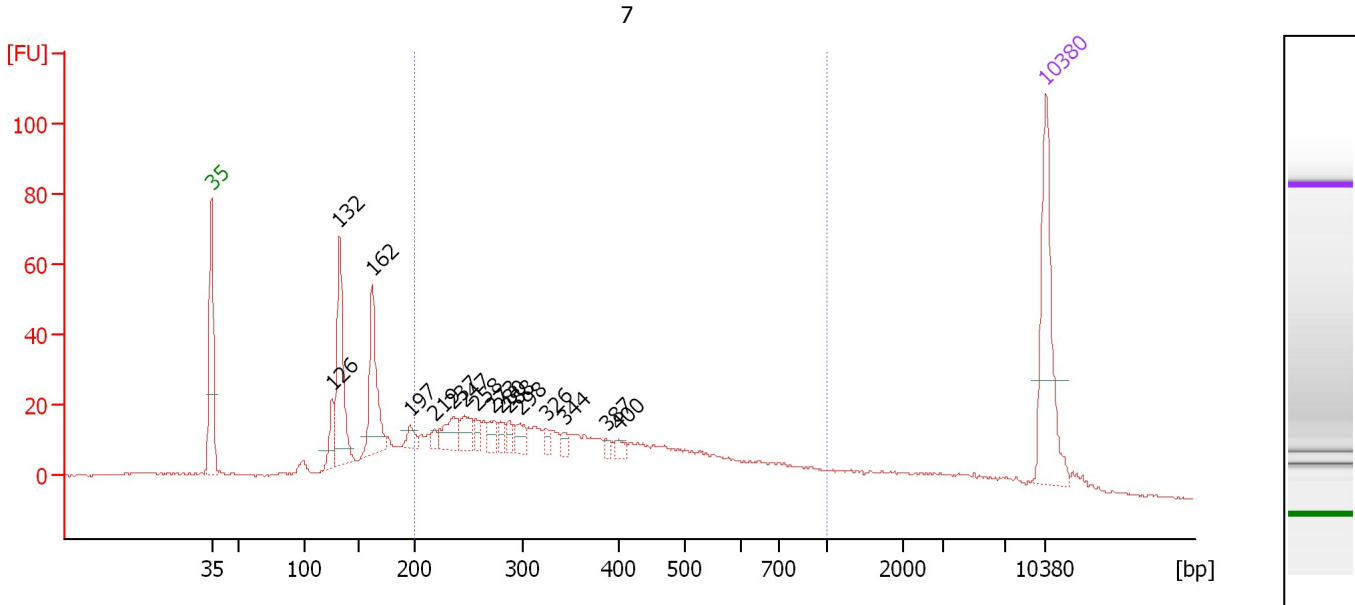
Electropherogram Summary Continued ...**... Region table for sample 3 : 5**

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	380	2,381.4	12,446.5	 2,788.89	95	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 7

Number of peaks found: 16 Corr. Area 1: 613.7
 Noise: 0.3

Peak table for sample 4 : 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	126	27.67	333.8		53.11
3	132	111.21	1,272.6		53.73
4	162	85.95	804.0		56.46
5	197	11.26	86.4		59.73
6	219	6.37	44.0		61.70
7	237	27.45	175.6		63.31
8	247	21.51	131.8		64.25
9	258	10.00	58.8		65.19
10	273	13.66	75.7		66.62
11	280	9.05	48.9		67.24
12	288	9.65	50.7		67.96
13	298	15.79	80.3		68.85
14	326	6.92	32.2		71.09
15	344	6.78	29.8		72.61
16	387	4.38	17.1		76.10
17	400	6.21	23.5		77.13
18	10,380	75.00	10.9	Upper Marker	113.00

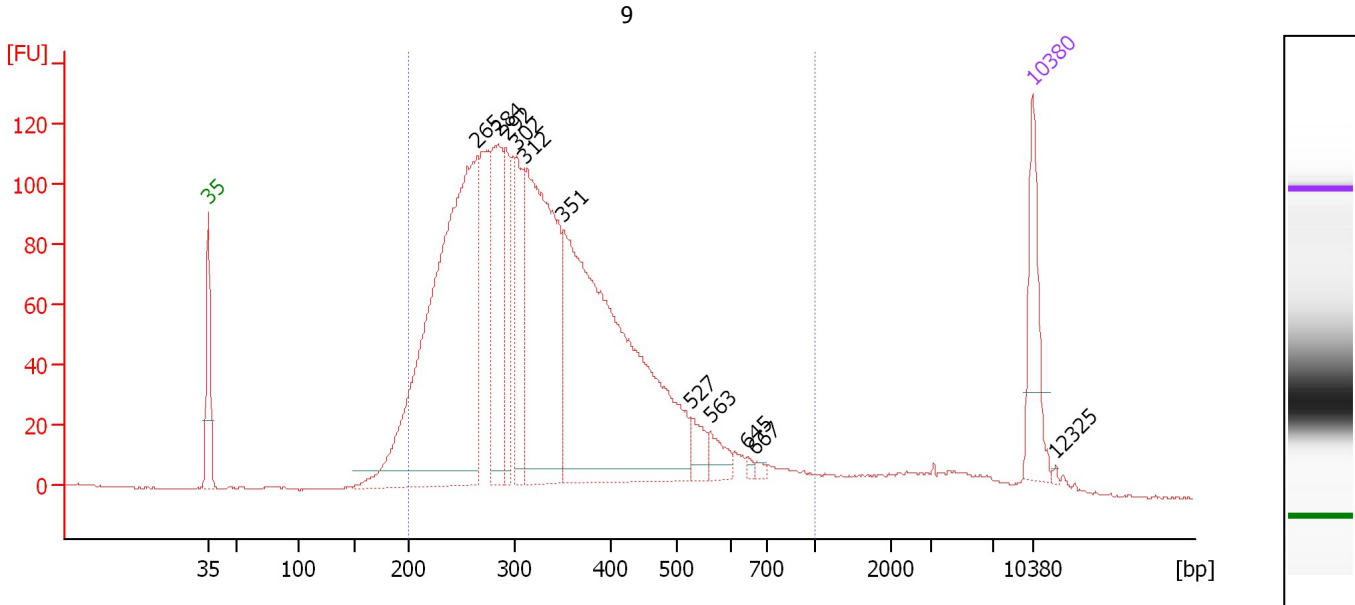
Region table for sample 4 : 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	397	613.7	3,209.7	688.02	58	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : 9

Number of peaks found: 11 Corr. Area 1: 2,764.6
 Noise: 0.2

Peak table for sample 5 : 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	265	870.89	4,974.7		65.88
3	284	191.26	1,019.5		67.60
4	292	112.43	583.8		68.28
5	302	135.91	681.9		69.19
6	312	453.27	2,204.7		69.96
7	351	751.50	3,241.2		73.17
8	527	30.00	86.2		84.00
9	563	25.97	69.9		85.68
10	645	4.38	10.3		88.81
11	667	5.11	11.6		89.49
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,325	0.00	0.0		114.95

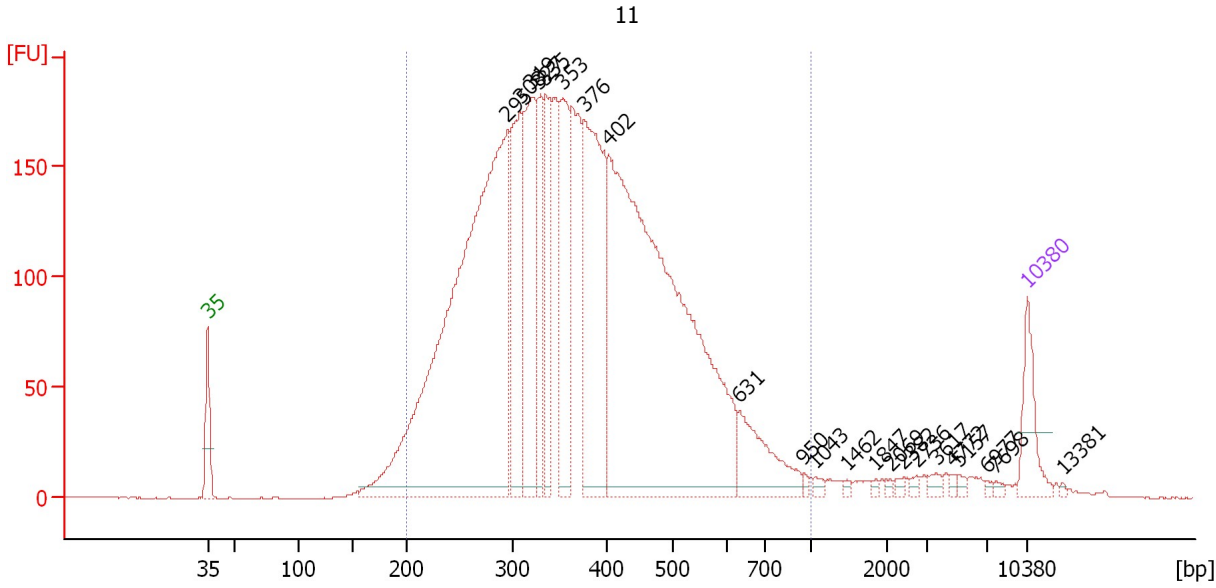
Region table for sample 5 : 9

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	345	2,764.6	14,081.5	2,867.38	93	33.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 11

Number of peaks found: 22 Corr. Area 1: 4,926.9
 Noise: 0.3

Peak table for sample 6 : 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	295	1,795.31	9,213.9		68.60
3	308	334.31	1,646.7		69.64
4	319	368.48	1,747.7		70.60
5	327	191.04	884.3		71.24
6	335	187.87	850.6		71.83
7	353	287.04	1,233.1		73.29
8	376	567.08	2,286.5		75.15
9	402	1,621.98	6,118.9		77.20
10	631	152.79	367.0		88.36
11	950	6.28	10.0		93.87
12	1,043	8.79	12.8		94.83
13	1,462	4.83	5.0		97.56
14	1,847	4.05	3.3		100.07
15	2,069	5.35	3.9		101.30
16	2,382	6.96	4.4		102.34
17	2,736	6.64	3.7		103.53
18	3,617	11.09	4.6		105.21
19	4,772	5.04	1.6		106.72
20	5,157	6.50	1.9		107.22
21	6,977	3.88	0.8		109.58
22	7,698	4.97	1.0		110.31
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,381	0.00	0.0		116.01

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
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Electropherogram Summary Continued ...

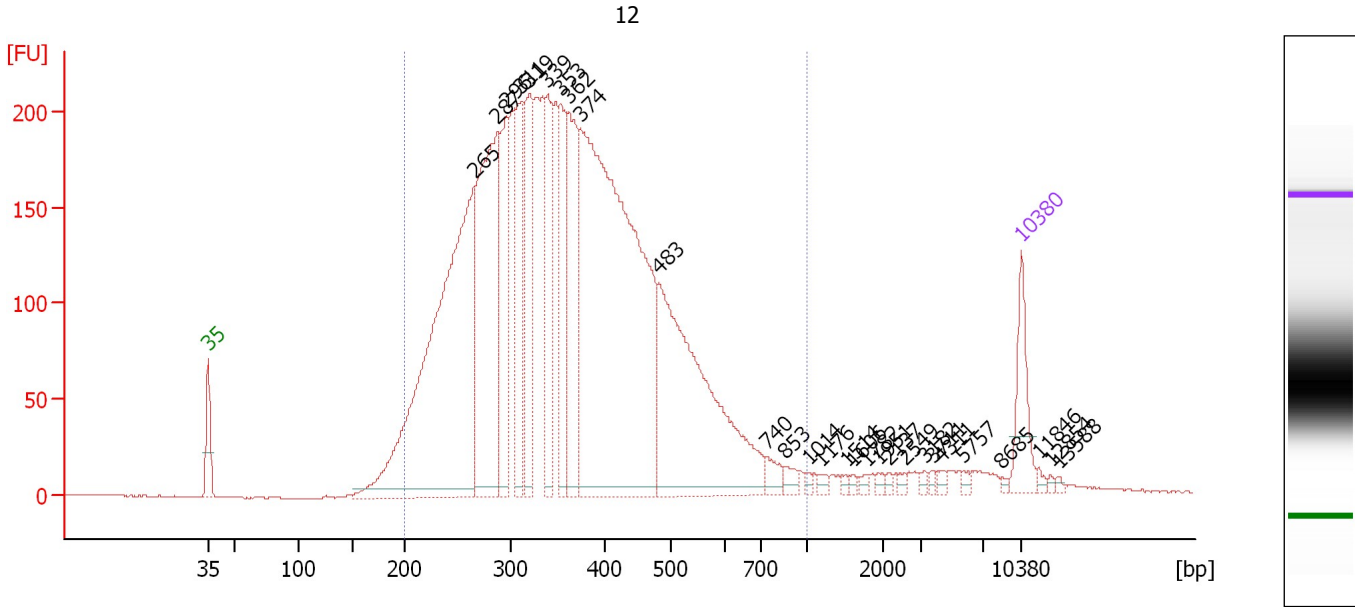
... Region table for sample 6 : 11

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	382	4,926.9	26,597.4	5,972.64	95	30.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 12

Number of peaks found: 28 Corr. Area 1: 5,503.4
 Noise: 0.3

Peak table for sample 7 : 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	265	1,189.50	6,800.7		65.86
3	287	607.40	3,203.2		67.88
4	296	259.48	1,326.3		68.70
5	311	263.78	1,286.0		69.90
6	319	247.83	1,176.0		70.59
7	339	180.64	807.0		72.19
8	353	210.08	902.2		73.30
9	362	274.31	1,148.5		74.03
10	374	1,417.16	5,744.3		74.99
11	483	645.90	2,025.9		81.79
12	740	27.32	56.0		91.06
13	853	16.75	29.8		92.57
14	1,014	5.87	8.8		94.64
15	1,176	8.03	10.3		95.70
16	1,514	5.73	5.7		97.90
17	1,606	5.21	4.9		98.50
18	1,782	6.15	5.2		99.64
19	1,951	5.70	4.4		100.74
20	2,137	4.62	3.3		101.52
21	2,549	5.67	3.4		102.90
22	3,182	5.75	2.7		104.65
23	3,711	4.85	2.0		105.33
24	4,311	6.87	2.4		106.11
25	5,757	6.52	1.7		108.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 7 : 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,685	3.29	0.6		111.30
27	10,380	75.00	10.9	Upper Marker	113.00
28	11,846	0.00	0.0		114.47
29	12,854	0.00	0.0		115.48
30	13,588	0.00	0.0		116.21

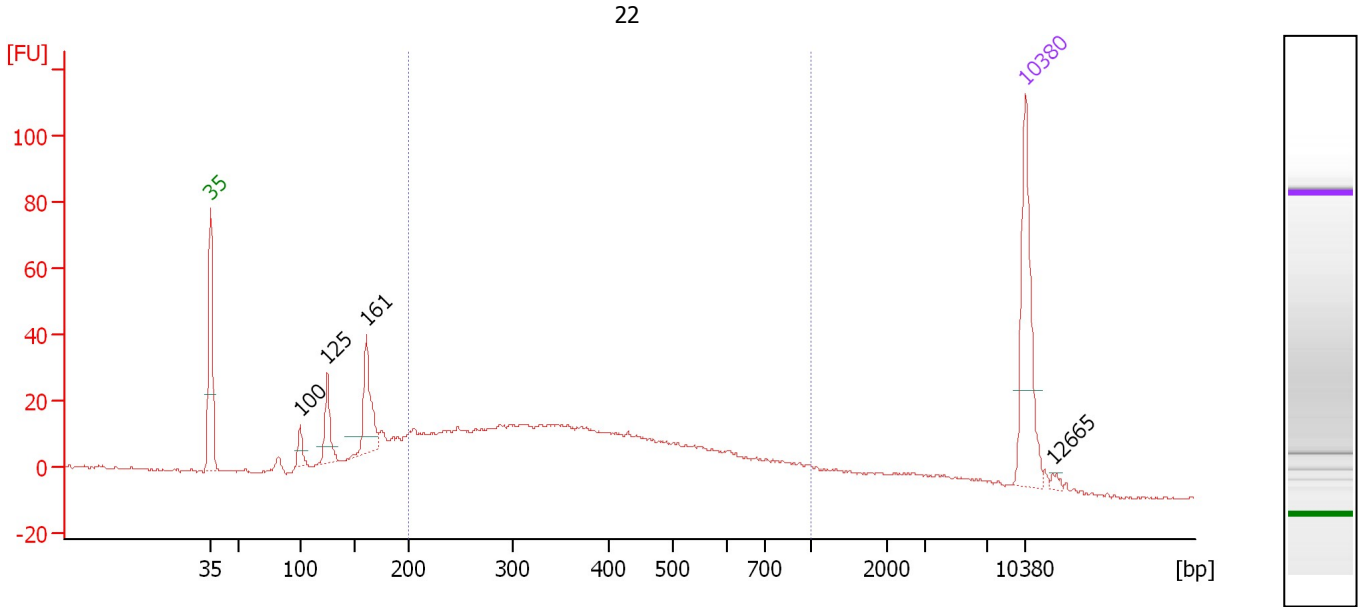
Region table for sample 7 : 12

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	371	5,503.4	26,007.3	5,699.75	95	30.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 22

Number of peaks found: 4 Corr. Area 1: 609.6
 Noise: 0.5

Peak table for sample 8 : 22

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	100	16.85	256.6		50.69
3	125	39.32	477.6		53.03
4	161	65.39	615.6		56.37
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,665	0.00	0.0		115.29

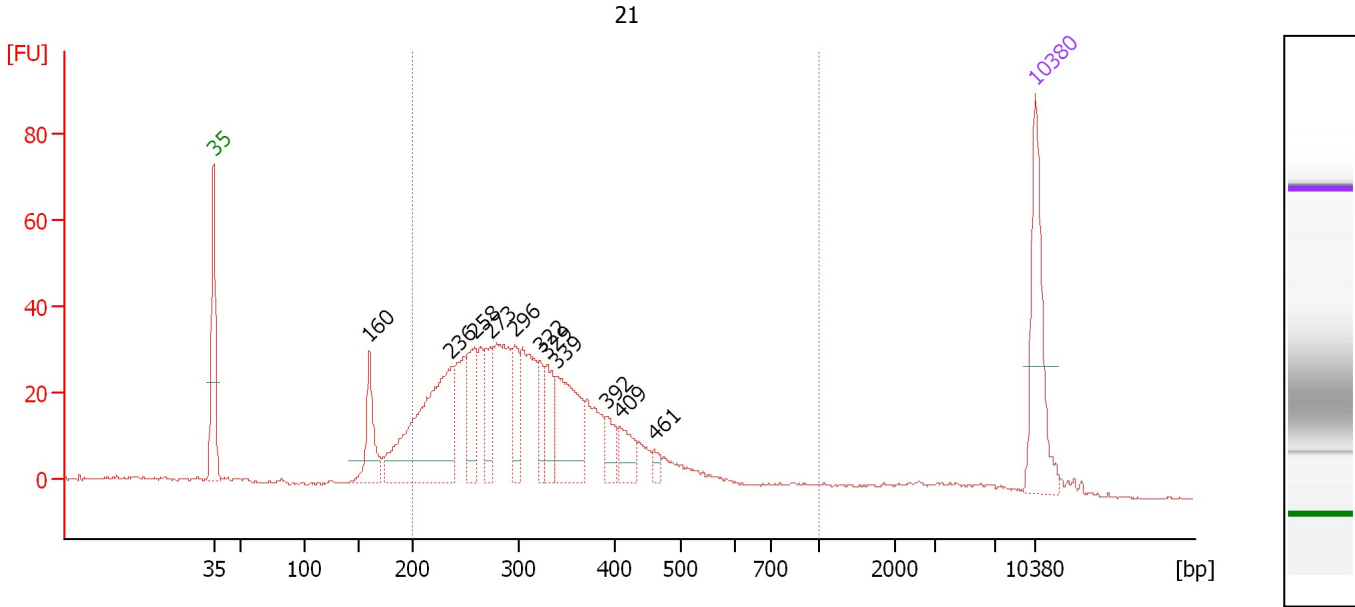
Region table for sample 8 : 22

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	413	609.6	3,061.0	683.59	68	40.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
 Modified: 5/11/2017 11:26:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 21

Number of peaks found: 11 Corr. Area 1: 768.9
 Noise: 0.2

Peak table for sample 9 : 21

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	160	65.43	619.9		56.27
3	236	227.89	1,460.3		63.27
4	258	66.60	391.0		65.23
5	273	50.92	283.0		66.55
6	296	42.43	217.1		68.68
7	322	30.70	144.4		70.82
8	329	39.21	180.6		71.36
9	339	99.60	445.1		72.18
10	392	24.85	96.1		76.45
11	409	27.16	100.5		77.64
12	461	8.52	28.0		80.55
13	10,380	75.00	10.9	Upper Marker	113.00

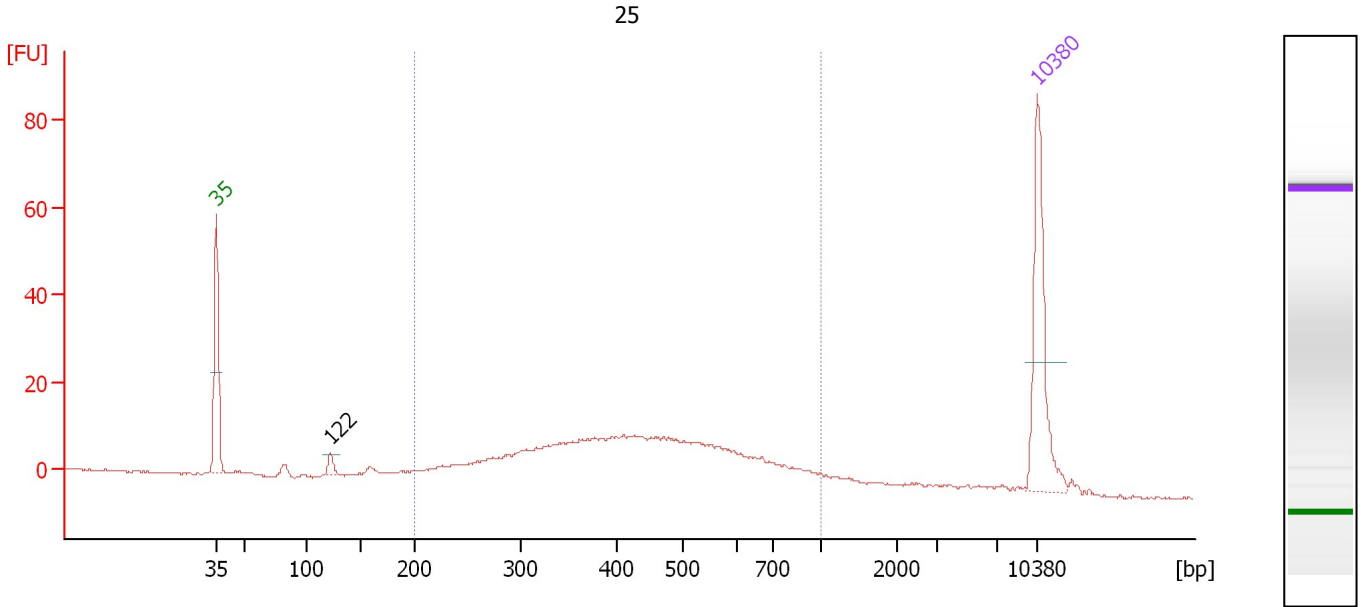
Region table for sample 9 : 21

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	328	768.9	5,178.5	1,017.17	84	32.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
 Modified: 5/11/2017 11:26:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 25

Number of peaks found: 1 Corr. Area 1: 317.9
 Noise: 0.2

Peak table for sample 10 : 25

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	122	9.79	122.1		52.73
3	10,380	75.00	10.9	Upper Marker	113.00

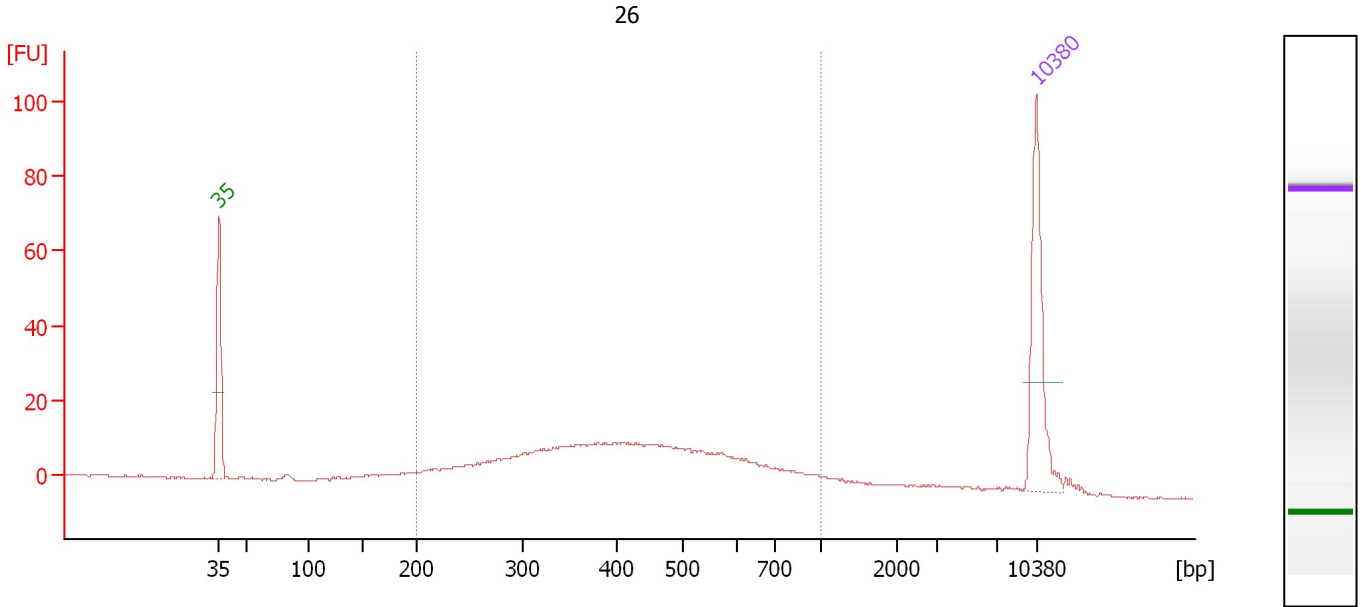
Region table for sample 10 : 25

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	456	317.9	1,588.3	408.19	86	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
 Modified: 5/11/2017 11:26:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 26

Number of peaks found: 0 Corr. Area 1: 363.5
 Noise: 0.2

Peak table for sample 11 : 26

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 11 : 26

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	446	363.5	1,662.8	414.18	84	35.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-11\2017-05-11_001.xad

Created: 5/11/2017 10:45:35 AM
Modified: 5/11/2017 11:26:53 AM

Gel Image

