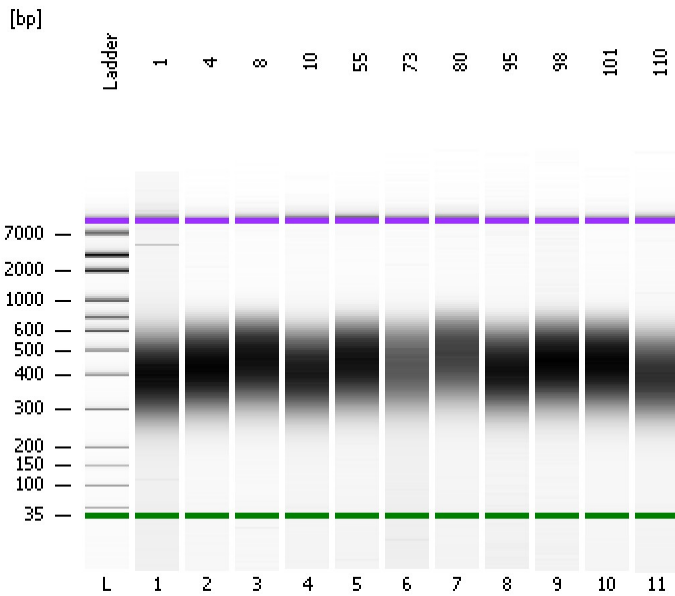


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

Created: 7/20/2015 3:42:25 PM
Modified: 7/20/2015 4:22:54 PM

Electrophoresis File Run Summary



Instrument Information:

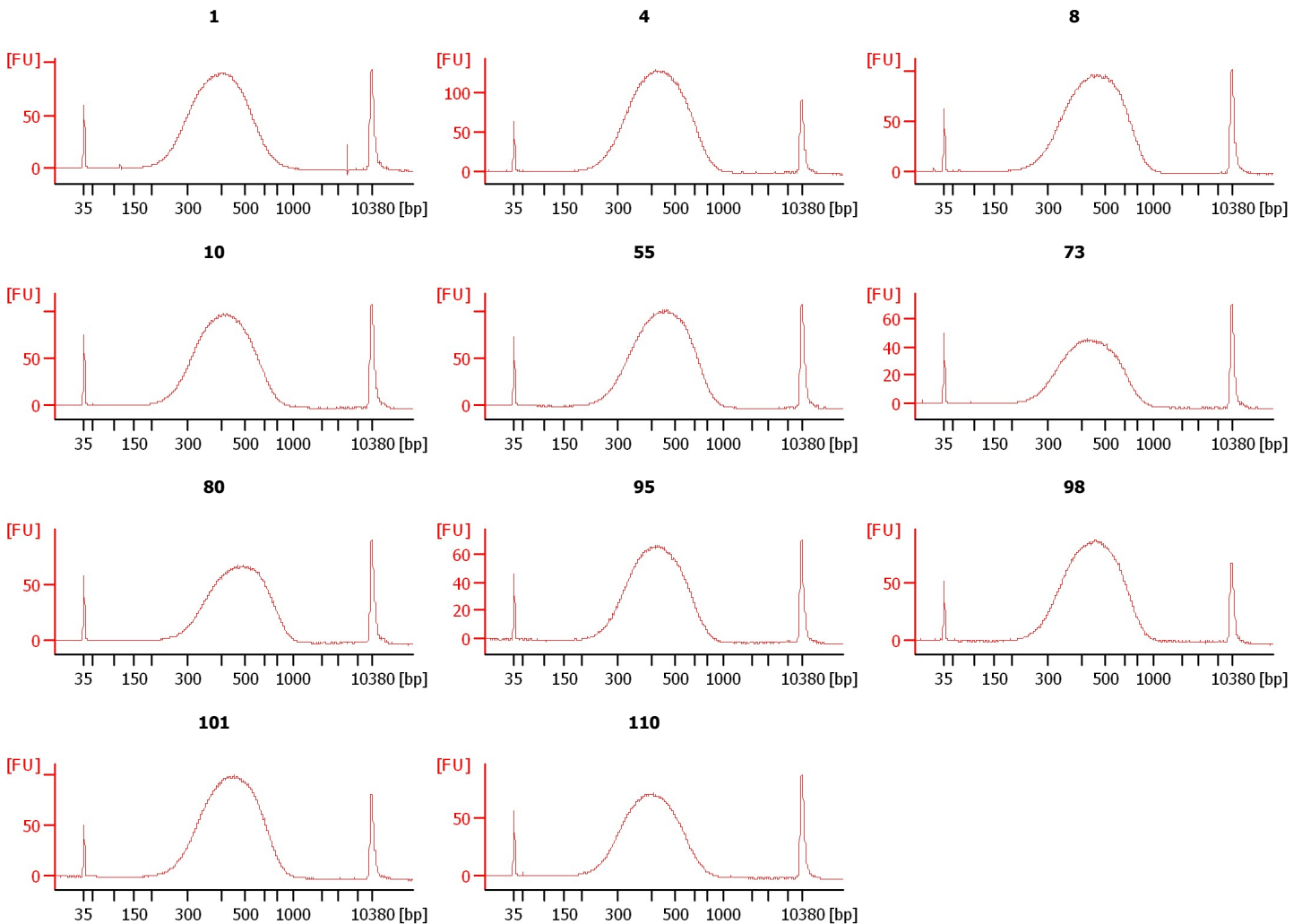
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

Created: 7/20/2015 3:42:25 PM
 Modified: 7/20/2015 4:22:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
8		<input type="checkbox"/>	✓			
10		<input type="checkbox"/>	✓			
55		<input type="checkbox"/>	✓			
73		<input type="checkbox"/>	✓			
80		<input type="checkbox"/>	✓			
95		<input type="checkbox"/>	✓			
98		<input type="checkbox"/>	✓			
101		<input type="checkbox"/>	✓			
110		<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\2015-07-20\2015-07-20_002.xad

Created: 7/20/2015 3:42:25 PM
Modified: 7/20/2015 4:22:54 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

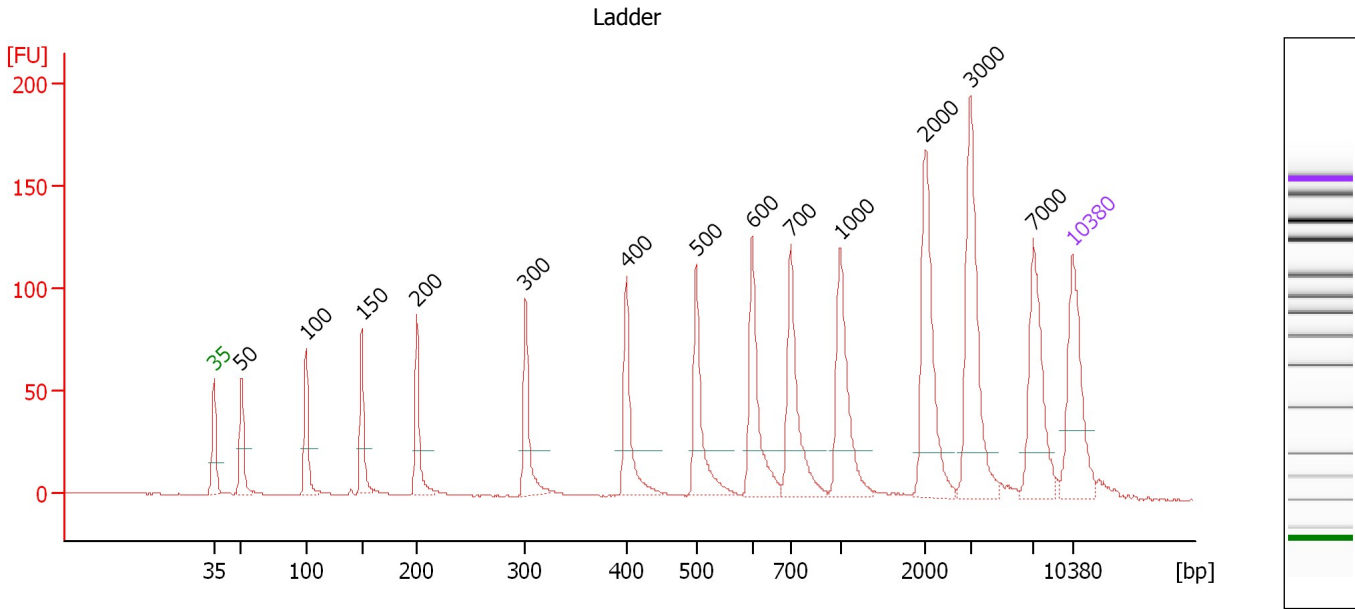
Ladder

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\2015-07-20\2015-07-20_002.xad

Created: 7/20/2015 3:42:25 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

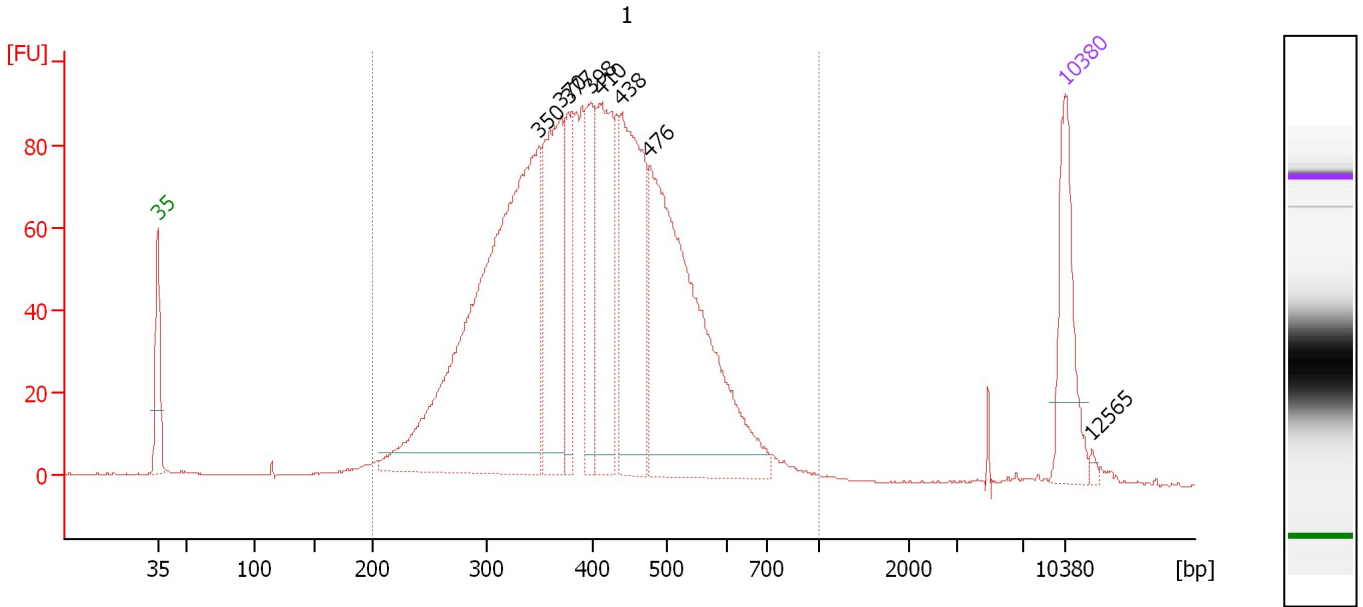
Peak table for Ladder

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	45.22
3	100	150.00	2,272.7	Ladder Peak	50.48
4	150	150.00	1,515.2	Ladder Peak	55.04
5	200	150.00	1,136.4	Ladder Peak	59.52
6	300	150.00	757.6	Ladder Peak	68.39
7	400	150.00	568.2	Ladder Peak	76.61
8	500	150.00	454.5	Ladder Peak	82.30
9	600	150.00	378.8	Ladder Peak	86.87
10	700	150.00	324.7	Ladder Peak	90.00
11	1,000	150.00	227.3	Ladder Peak	94.04
12	2,000	150.00	113.6	Ladder Peak	101.00
13	3,000	150.00	75.8	Ladder Peak	104.70
14	7,000	150.00	32.5	Ladder Peak	109.78
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 8 Corr. Area 1: 2,121.4
 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	350	662.03	2,869.0		72.47
3	370	202.01	828.3		74.11
4	377	69.25	278.2		74.73
5	398	94.09	358.6		76.41
6	410	173.45	641.5		77.16
7	438	230.71	798.8		78.75
8	476	426.57	1,356.4		80.96
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,565	0.00	0.0		115.08

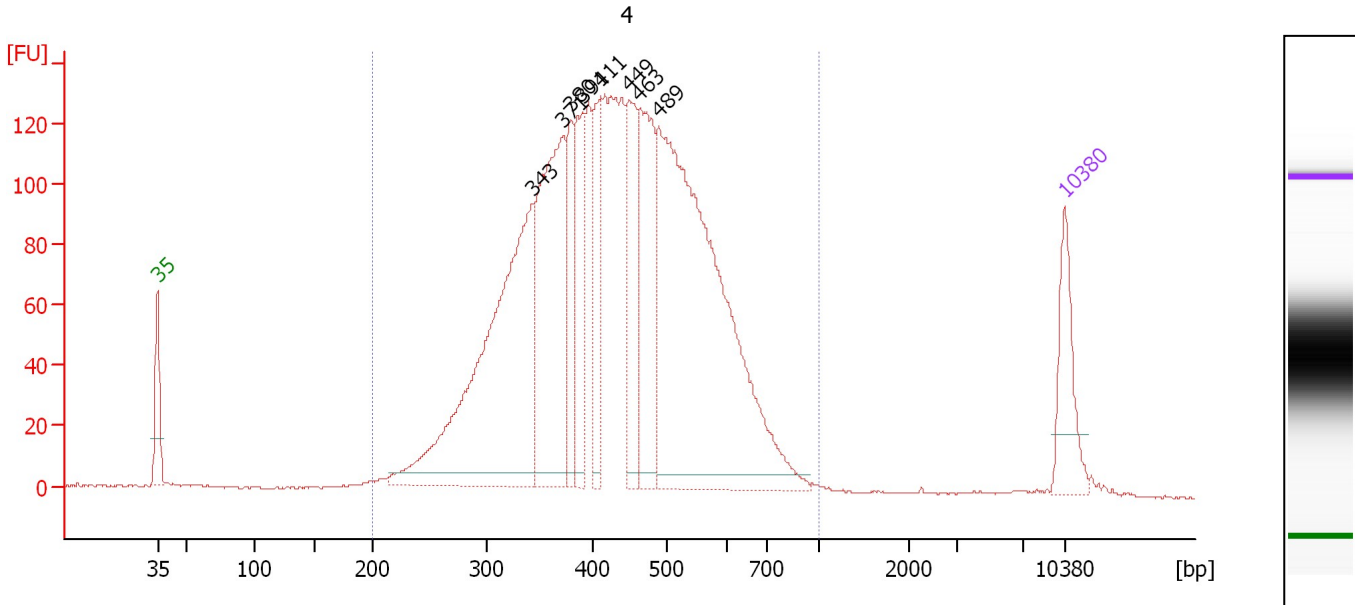
Region table for sample 1 : 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	410	1,000	2,121.4	8,633.9	97	24.9	2,149.01

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 4

Number of peaks found: 8 Corr. Area 1: 3,001.9
 Noise: 0.3

Peak table for sample 2 : 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	343	634.19	2,800.0		71.94
3	371	382.50	1,560.1		74.27
4	380	106.49	425.0		74.94
5	391	144.95	562.4		75.83
6	411	122.79	453.0		77.22
7	449	156.40	527.6		79.41
8	463	213.78	700.3		80.17
9	489	866.55	2,683.8		81.69
10	10,380	75.00	10.9	Upper Marker	113.00

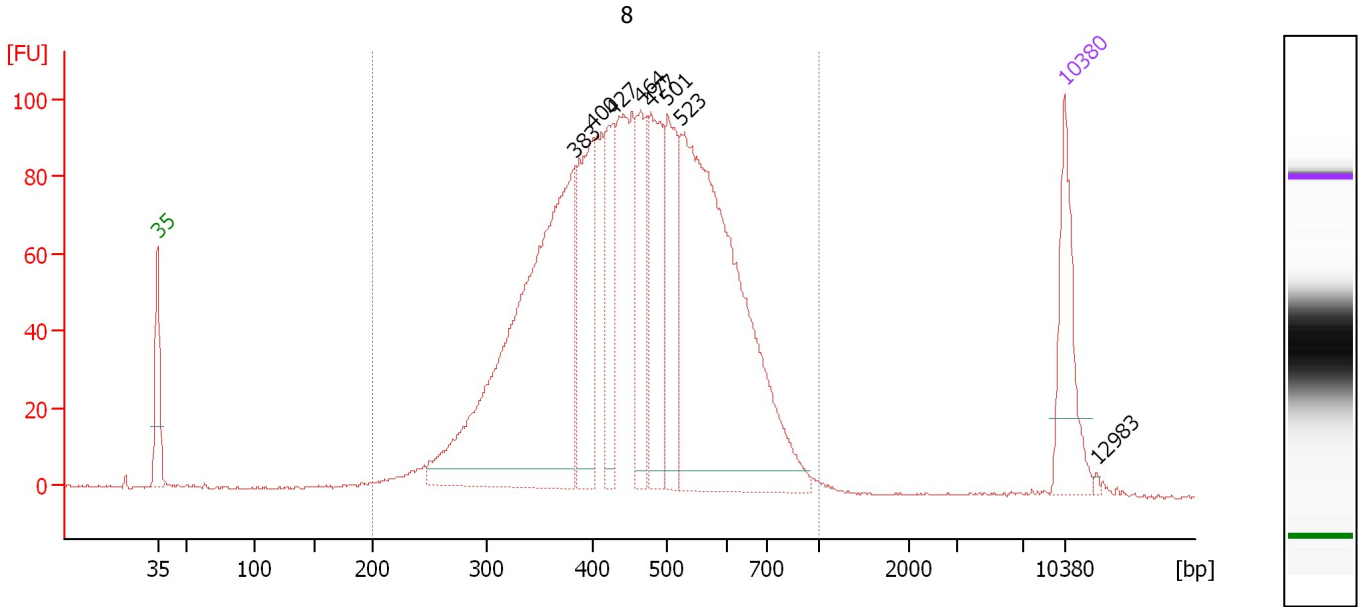
Region table for sample 2 : 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	440	1,000	3,001.9	11,646.3	99	24.7	3,105.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 8

Number of peaks found: 8 Corr. Area 1: 2,258.0
 Noise: 0.3

Peak table for sample 3 : 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	383	576.90	2,282.6		75.21
3	400	152.22	576.7		76.60
4	427	98.88	351.0		78.14
5	464	109.61	357.9		80.25
6	477	142.68	452.8		81.02
7	501	123.00	371.7		82.37
8	523	566.07	1,639.5		83.36
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,983	0.00	0.0		115.48

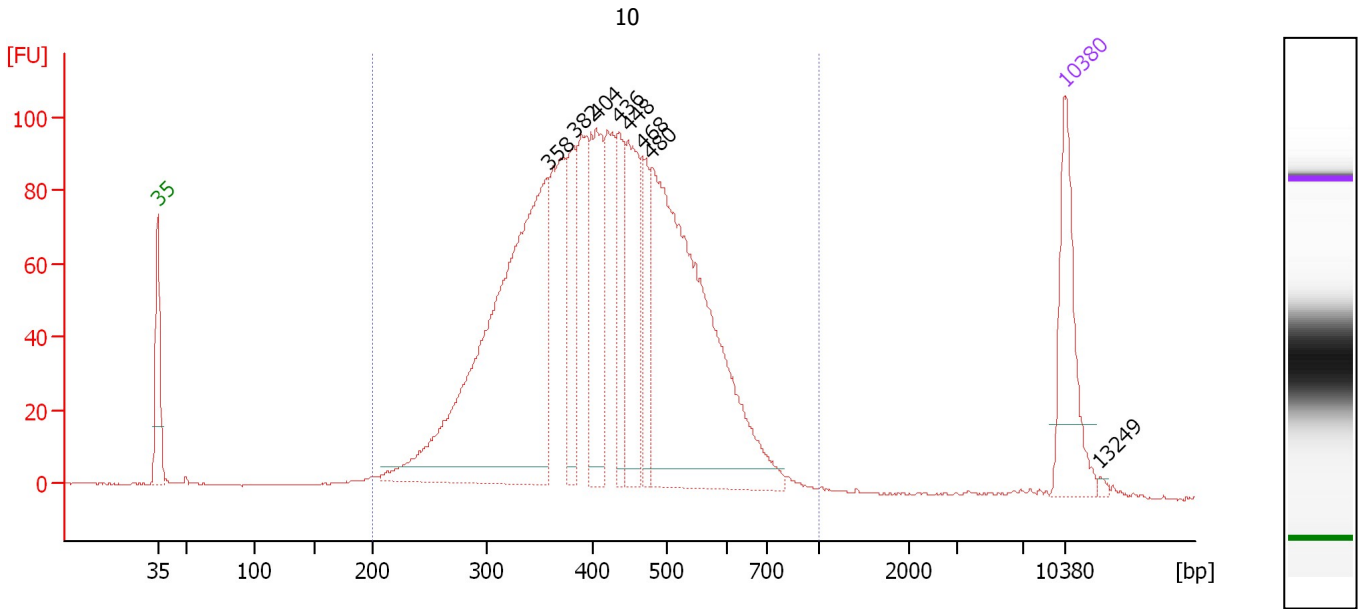
Region table for sample 3 : 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	465	1,000	2,258.0	7,643.7	98	25.4	2,140.44

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 10

Number of peaks found: 8 Corr. Area 1: 2,224.1
 Noise: 0.2

Peak table for sample 4 : 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	358	531.06	2,249.7		73.13
3	382	80.24	318.2		75.13
4	404	127.76	479.6		76.82
5	436	73.49	255.6		78.64
6	448	114.36	387.1		79.32
7	468	54.11	175.3		80.46
8	480	457.60	1,445.8		81.14
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,249	0.00	0.0		115.73

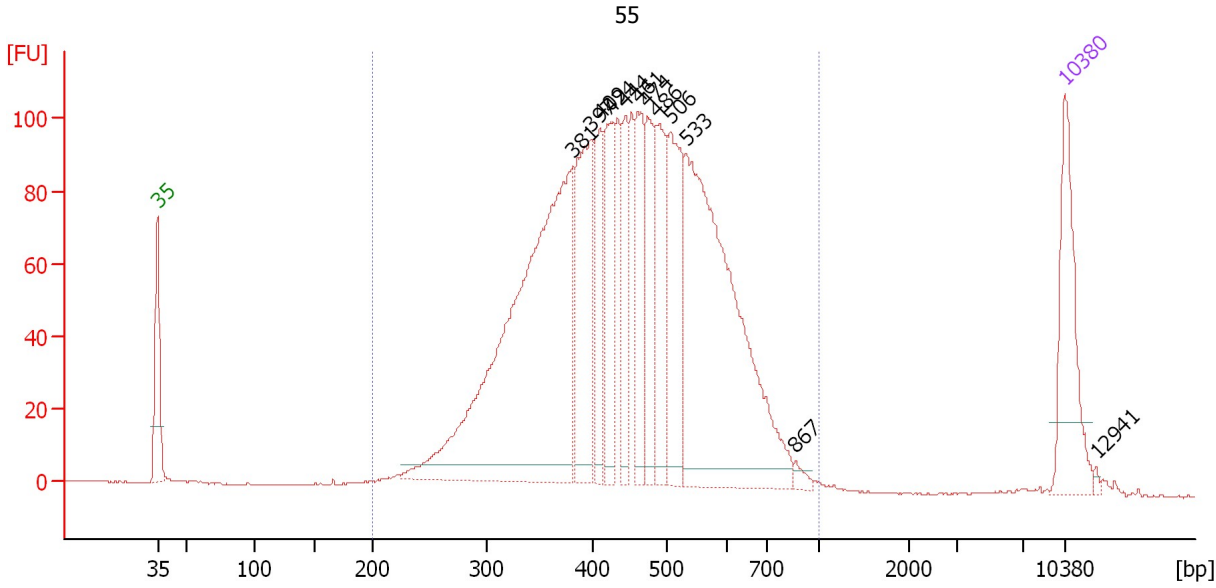
Region table for sample 4 : 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	425	1,000	2,224.1	7,229.0	97	24.3	1,866.90

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 55

Number of peaks found: 12 Corr. Area 1: 2,312.4
 Noise: 0.2

Peak table for sample 5 : 55

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	381	529.44	2,107.9		75.01
3	397	145.70	555.6		76.39
4	409	71.28	264.0		77.13
5	424	81.61	291.3		78.00
6	444	62.52	213.5		79.10
7	461	81.42	267.7		80.07
8	474	74.82	239.3		80.81
9	486	90.91	283.5		81.50
10	506	119.77	358.3		82.60
11	533	398.36	1,133.2		83.80
12	867	5.99	10.5		92.26
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,941	0.00	0.0		115.44

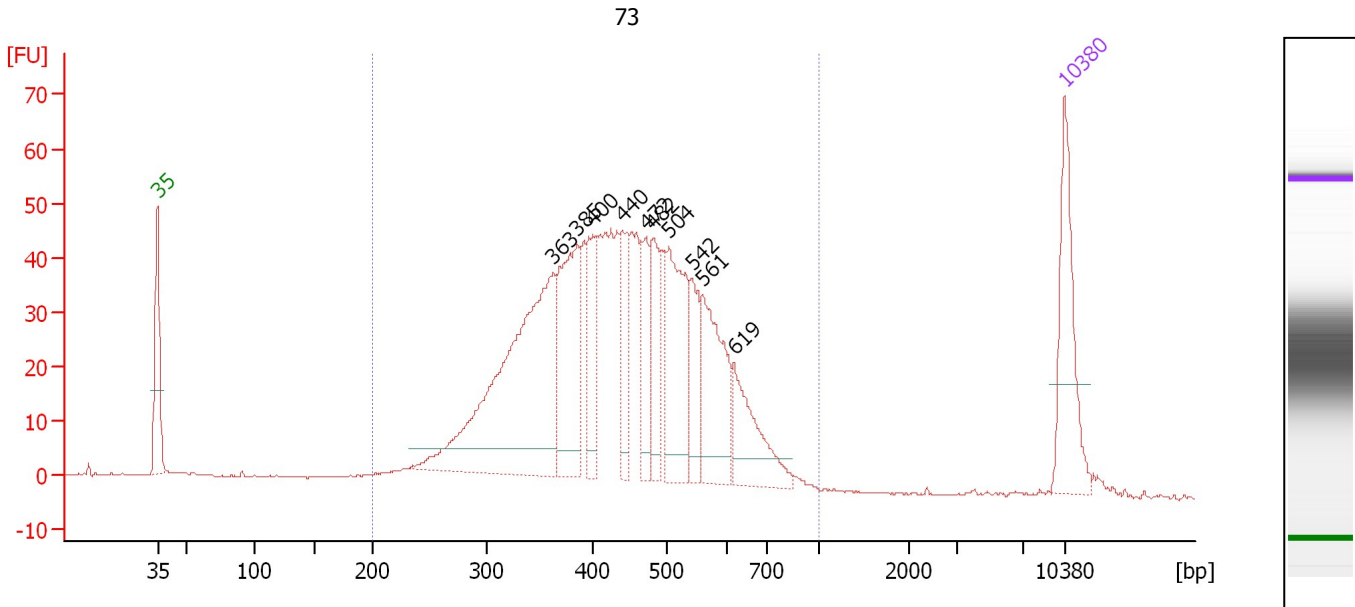
Region table for sample 5 : 55

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	456	1,000	2,312.4	6,846.9	99	24.8	1,892.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 73

Number of peaks found: 10 Corr. Area 1: 1,072.4
 Noise: 0.2

Peak table for sample 6 : 73

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	363	351.28	1,466.6		73.56
3	385	144.30	567.3		75.41
4	400	60.09	227.6		76.61
5	440	56.01	192.9		78.88
6	472	53.04	170.4		80.68
7	482	62.40	196.1		81.28
8	504	121.10	364.1		82.48
9	542	50.25	140.4		84.24
10	561	104.85	283.3		85.07
11	619	71.59	175.1		87.48
12	10,380	75.00	10.9	Upper Marker	113.00

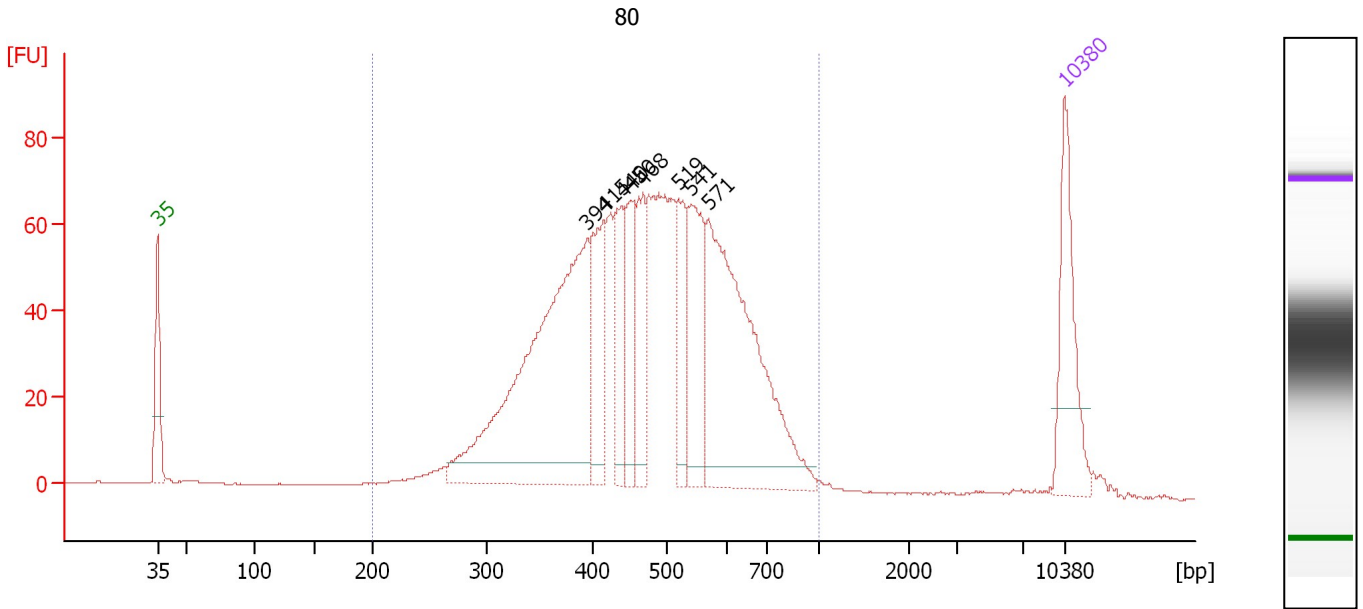
Region table for sample 6 : 73

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	444	1,000	1,072.4	5,632.3	95	24.7	1,512.81

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 80

Number of peaks found: 8 Corr. Area 1: 1,507.2
 Noise: 0.1

Peak table for sample 7 : 80

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	394	421.75	1,621.4		76.13
3	415	94.55	345.6		77.44
4	440	68.05	234.3		78.89
5	450	69.15	232.9		79.45
6	468	73.06	236.5		80.48
7	519	61.19	178.8		83.15
8	541	104.05	291.3		84.18
9	571	308.13	817.7		85.54
10	10,380	75.00	10.9	Upper Marker	113.00

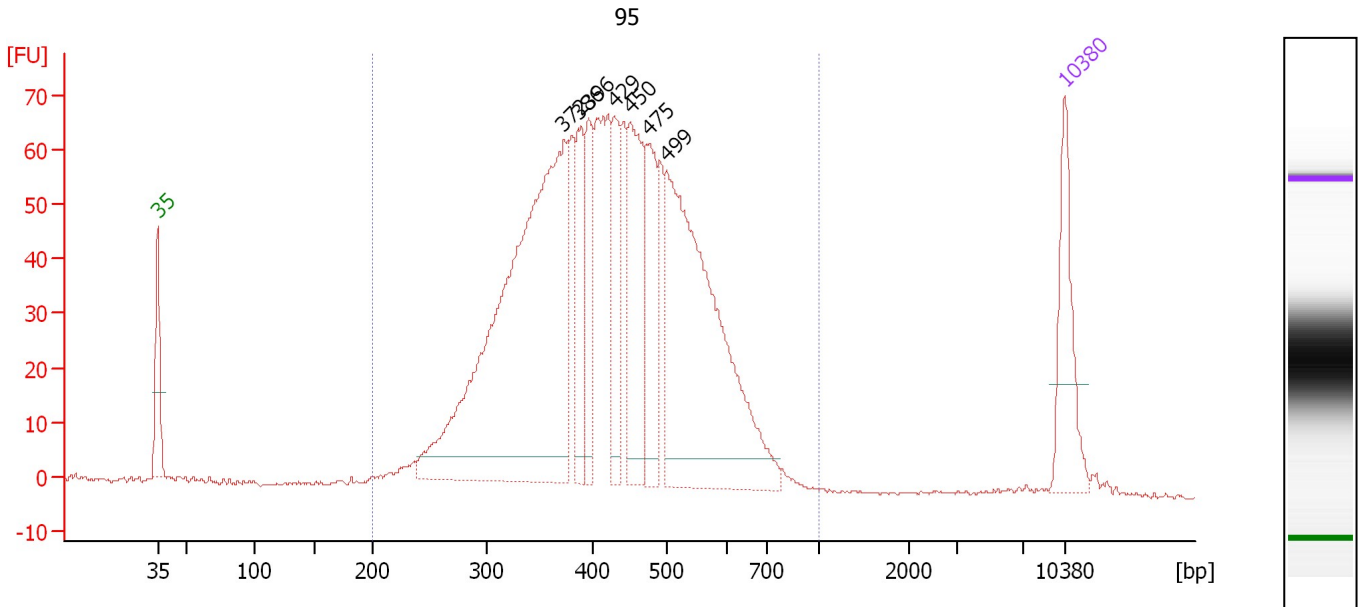
Region table for sample 7 : 80

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	482	1,000	1,507.2	5,387.8	98	25.4	1,566.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 95

Number of peaks found: 7 Corr. Area 1: 1,488.0
 Noise: 0.3

Peak table for sample 8 : 95

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	372	714.54	2,907.7		74.34
3	386	88.06	345.6		75.46
4	396	76.36	292.3		76.26
5	429	80.65	285.1		78.23
6	450	158.39	533.3		79.46
7	475	102.17	326.1		80.87
8	499	459.00	1,394.6		82.23
9	10,380	75.00	10.9	Upper Marker	113.00

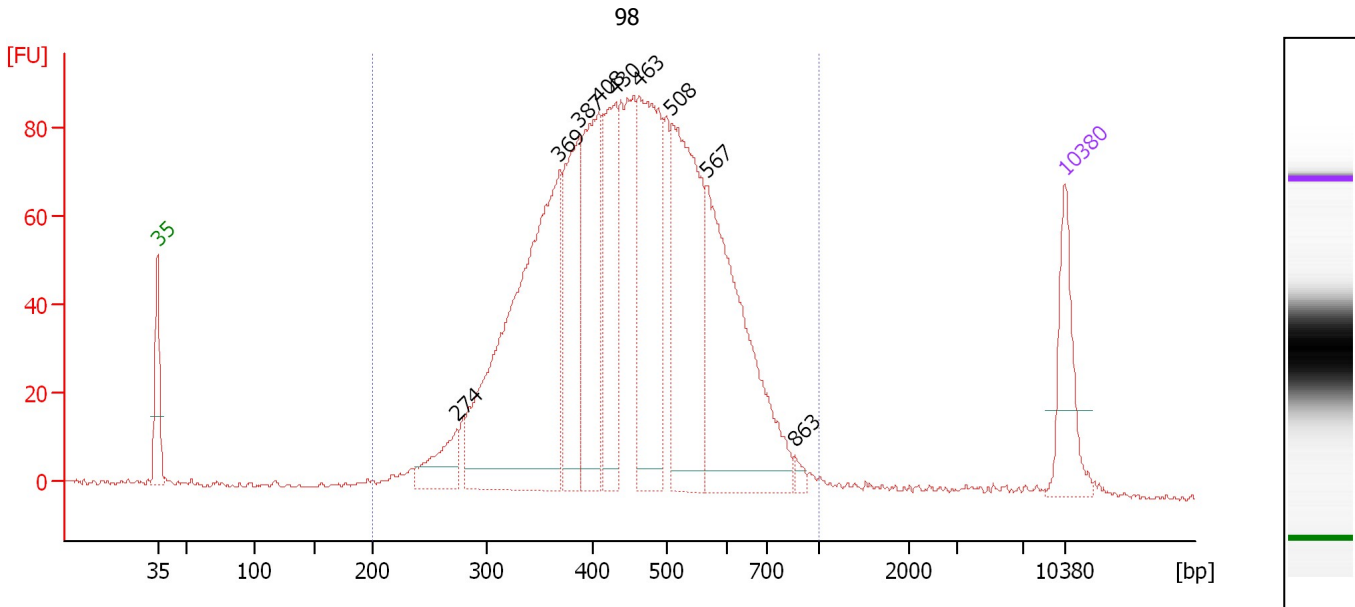
Region table for sample 8 : 95

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	431	1,000	1,488.0	8,219.4	99	23.4	2,165.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 98

Number of peaks found: 9 Corr. Area 1: 1,972.7
 Noise: 0.5

Peak table for sample 9 : 98

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	274	64.60	357.0		66.10
3	369	601.47	2,472.0		74.03
4	387	193.01	755.8		75.54
5	408	223.39	830.5		77.04
6	430	180.33	635.7		78.31
7	463	300.60	984.2		80.18
8	508	330.18	984.7		82.67
9	567	363.96	973.2		85.35
10	863	8.08	14.2		92.20
11	10,380	75.00	10.9	Upper Marker	113.00

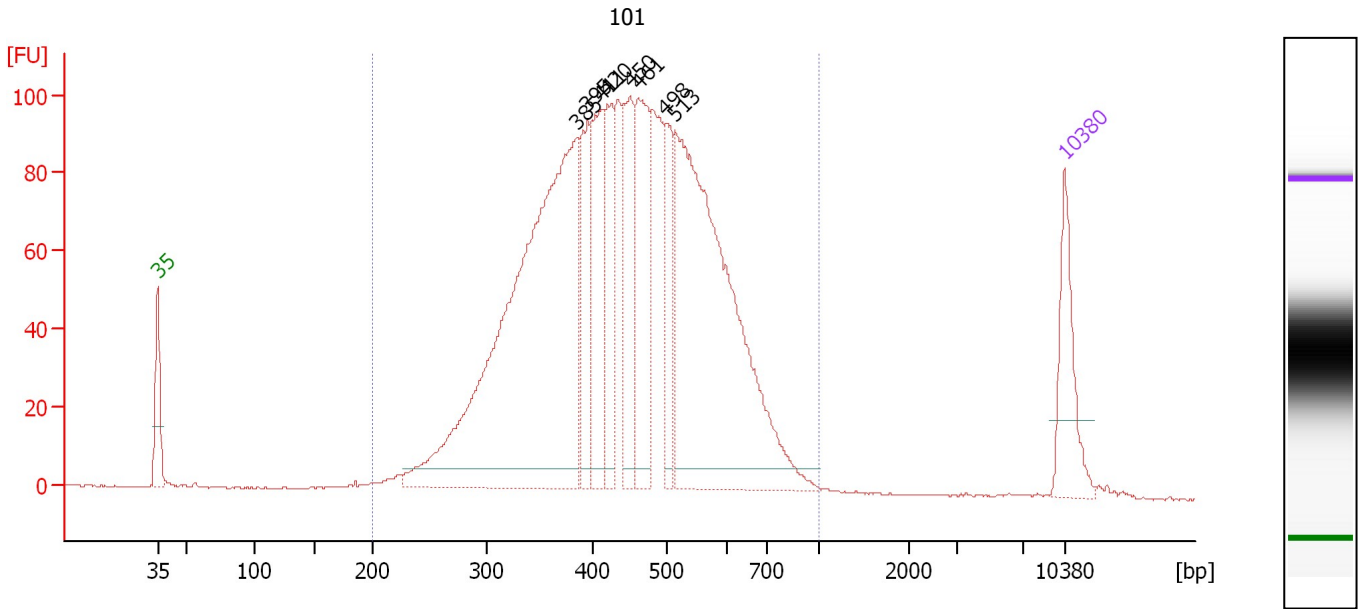
Region table for sample 9 : 98

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	457	1,000	1,972.7	9,527.9	98	25.0	2,637.92

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 101

Number of peaks found: 8 Corr. Area 1: 2,241.4
 Noise: 0.2

Peak table for sample 10 : 101

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	385	876.81	3,453.4		75.35
3	395	129.78	497.9		76.19
4	411	146.29	539.5		77.23
5	420	120.07	433.3		77.74
6	450	125.89	423.5		79.48
7	461	172.49	566.8		80.09
8	498	94.50	287.5		82.20
9	513	649.57	1,918.4		82.90
10	10,380	75.00	10.9	Upper Marker	113.00

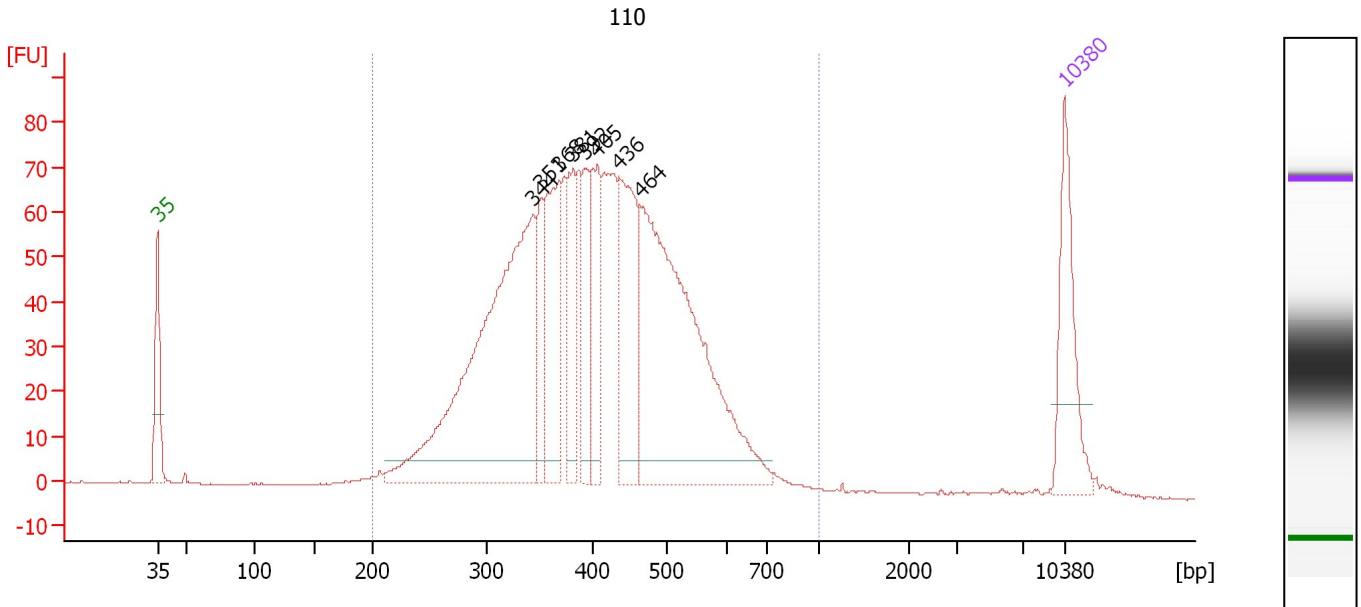
Region table for sample 10 : 101

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	451	1,000	2,241.4	9,872.4	99	24.7	2,699.91

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 110

Number of peaks found: 8 Corr. Area 1: 1,590.0
 Noise: 0.1

Peak table for sample 11 : 110

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	344	499.32	2,200.2		71.99
3	351	61.10	263.5		72.60
4	368	128.33	527.8		74.01
5	381	82.80	329.3		75.04
6	392	67.37	260.1		75.98
7	405	89.43	334.2		76.92
8	436	142.25	494.4		78.66
9	464	428.15	1,398.2		80.25
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 110

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	413	1,000	1,590.0	7,164.6	98	24.0	1,806.77

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_002.xad

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Modified: 7/20/2015 4:22:54 PM

Gel Image

