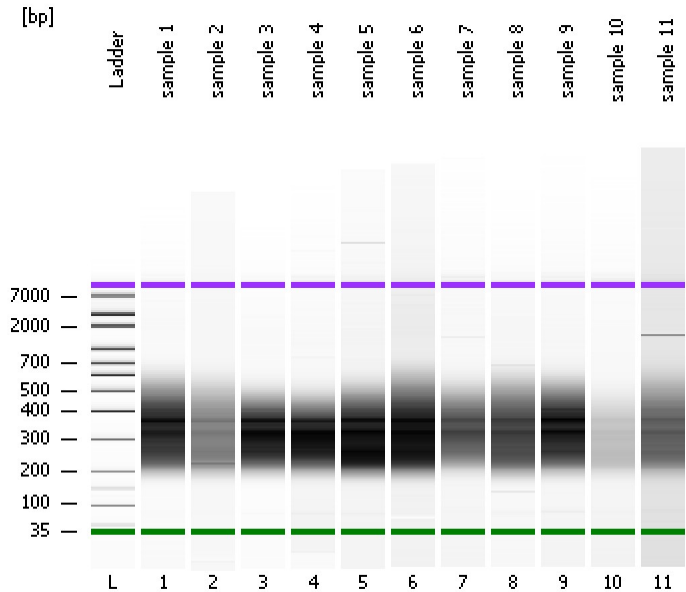


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
Modified: 6/20/2018 4:34:45 PM

Electrophoresis File Run Summary



Instrument Information:

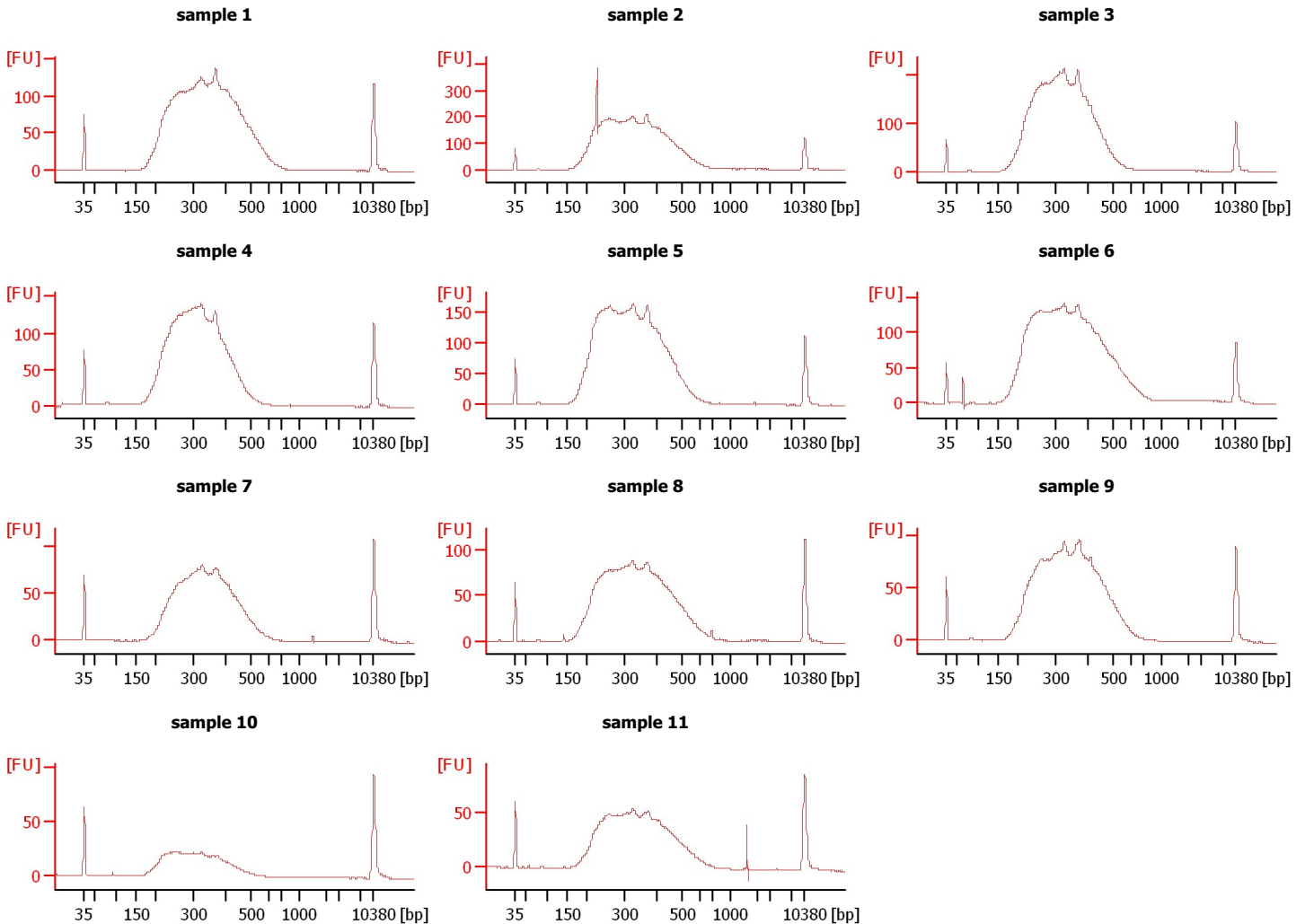
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
Modified: 6/20/2018 4:34:45 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:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
Modified: 6/20/2018 4:34:45 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

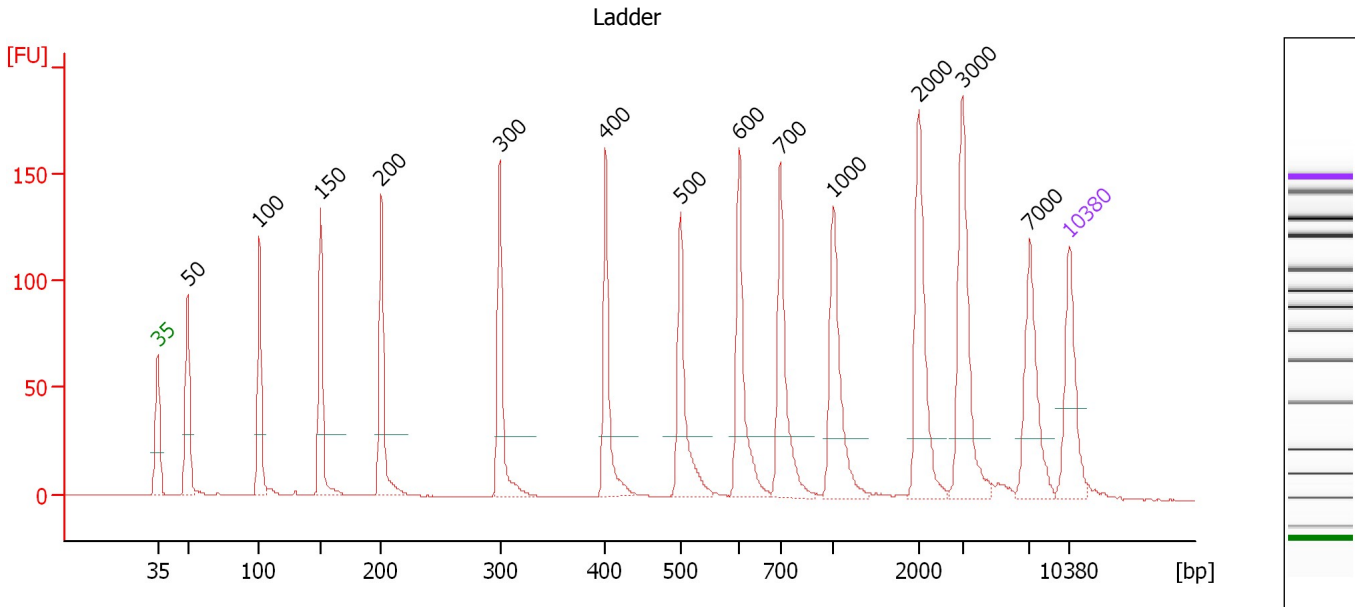
Ladder

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\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

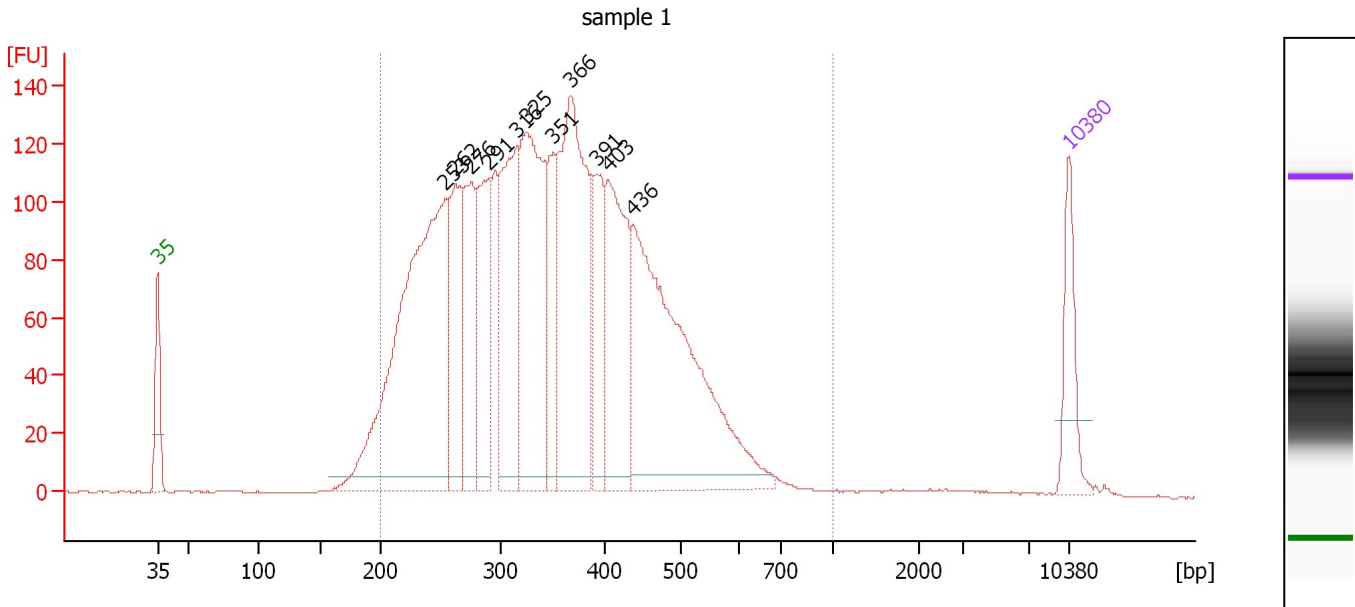
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.52
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.29
7	400	150.00	568.2	Ladder Peak	77.41
8	500	150.00	454.5	Ladder Peak	83.15
9	600	150.00	378.8	Ladder Peak	87.65
10	700	150.00	324.7	Ladder Peak	90.82
11	1,000	150.00	227.3	Ladder Peak	94.83
12	2,000	150.00	113.6	Ladder Peak	101.47
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 11 Corr. Area 1: 3,443.4
 Noise: 0.3

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	253	827.65	4,947.1		65.05
3	262	207.18	1,196.9		65.85
4	276	192.93	1,059.2		67.10
5	291	206.90	1,078.0		68.45
6	316	293.96	1,408.7		70.60
7	325	395.21	1,840.2		71.35
8	351	141.04	609.4		73.40
9	366	473.28	1,959.0		74.65
10	391	135.79	526.6		76.65
11	403	277.12	1,040.9		77.60
12	436	605.68	2,102.6		79.50
13	10,380	75.00	10.9	Upper Marker	113.00

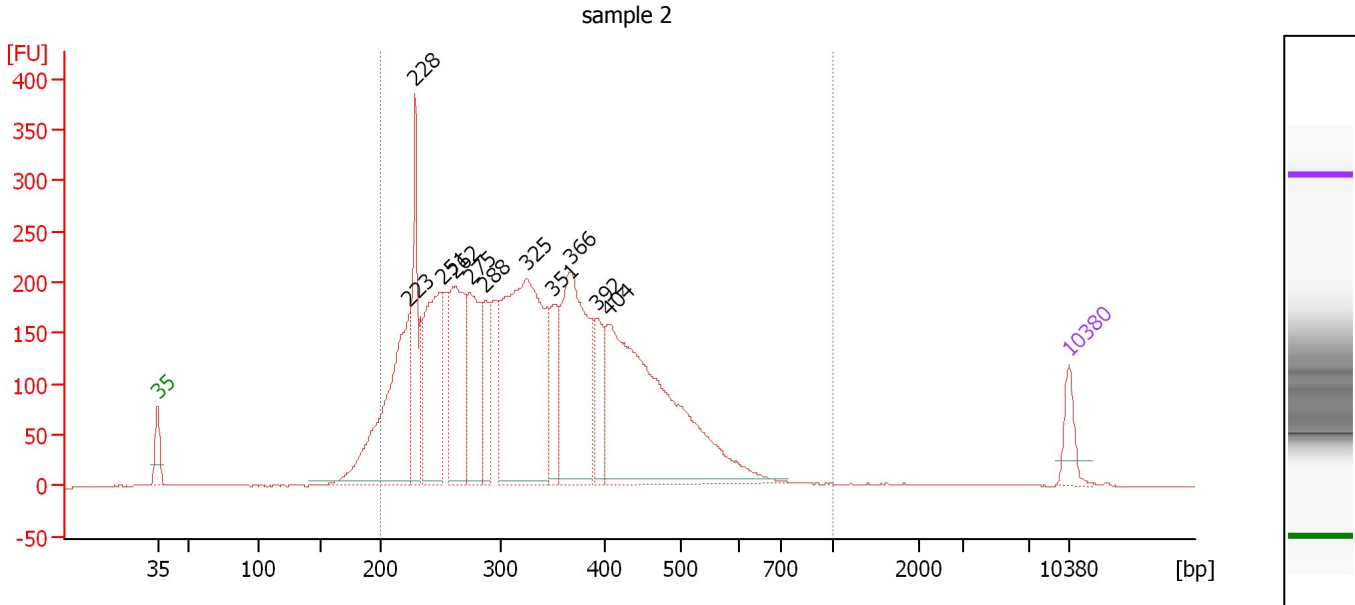
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	357	3,928.33	3,443.4	18,496.1	96	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 11 Corr. Area 1: 5,677.6
 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	223	836.53	5,671.9		62.32
3	228	327.52	2,172.3		62.77
4	251	544.09	3,282.5		64.84
5	262	485.32	2,804.3		65.85
6	275	418.40	2,305.6		67.01
7	288	215.03	1,132.5		68.17
8	325	1,164.64	5,424.2		71.34
9	351	222.40	960.6		73.41
10	366	699.74	2,894.2		74.67
11	392	196.08	758.3		76.74
12	404	1,280.08	4,798.4		77.65
13	10,380	75.00	10.9	Upper Marker	113.00

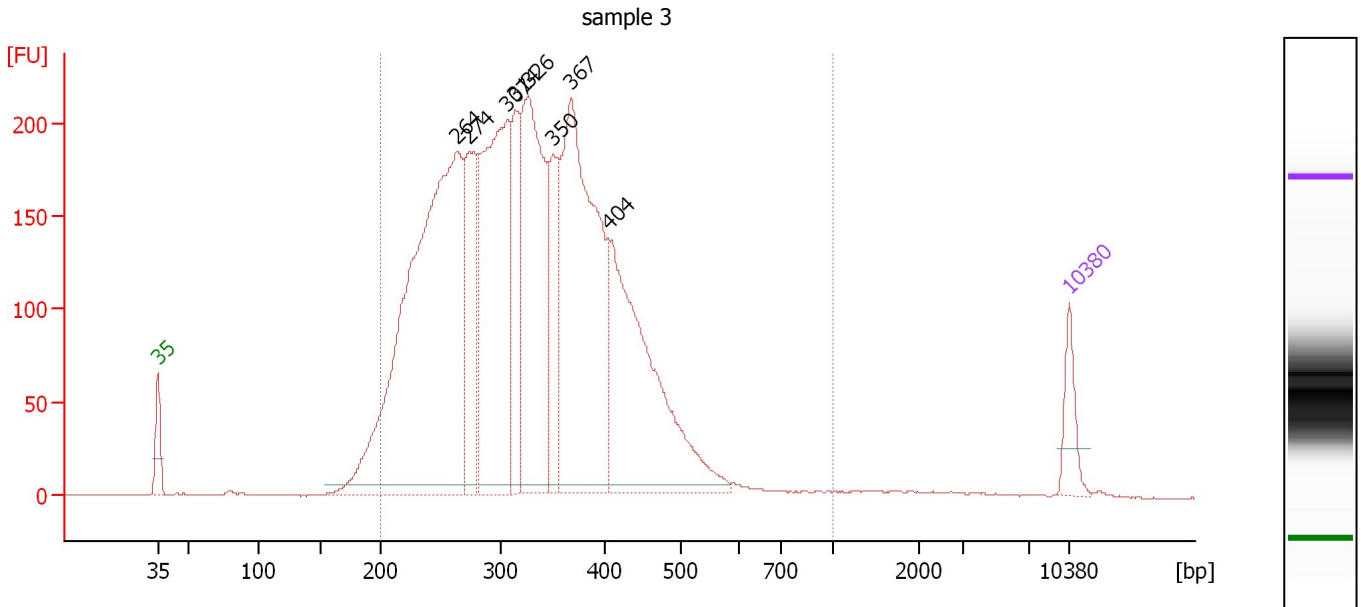
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	343	6,739.30	5,677.6	33,009.5	95	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 8 Corr. Area 1: 4,935.6
 Noise: 0.2

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	264	2,053.56	11,793.6		65.99
3	274	390.70	2,160.9		66.91
4	307	974.15	4,812.2		69.83
5	314	291.38	1,404.7		70.45
6	326	821.79	3,816.3		71.42
7	350	236.53	1,023.2		73.37
8	367	1,157.91	4,776.9		74.75
9	404	850.04	3,190.7		77.62
10	10,380	75.00	10.9	Upper Marker	113.00

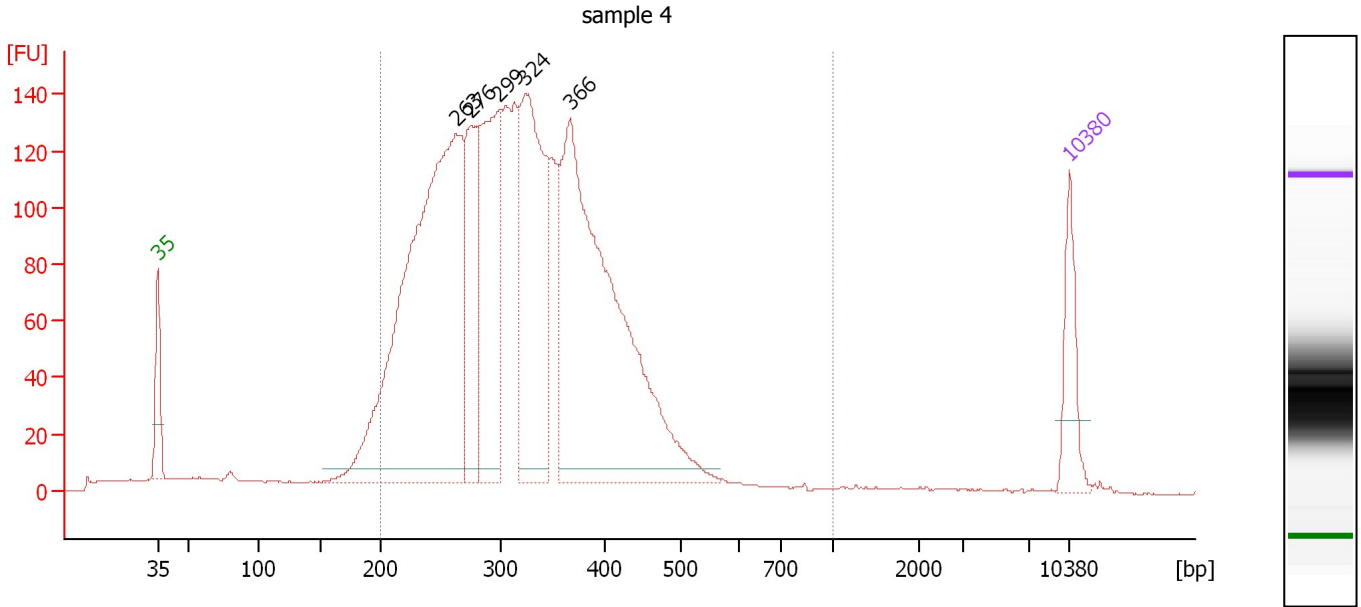
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	333	6,862.21	4,935.6	33,713.8	96	25.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 5 Corr. Area 1: 3,169.5
 Noise: 0.2

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	263	1,243.70	7,169.9		65.90
3	276	278.32	1,528.2		67.09
4	299	393.59	1,992.4		69.22
5	324	514.10	2,402.9		71.25
6	366	977.94	4,044.2		74.68
7	10,380	75.00	10.9	Upper Marker	113.00

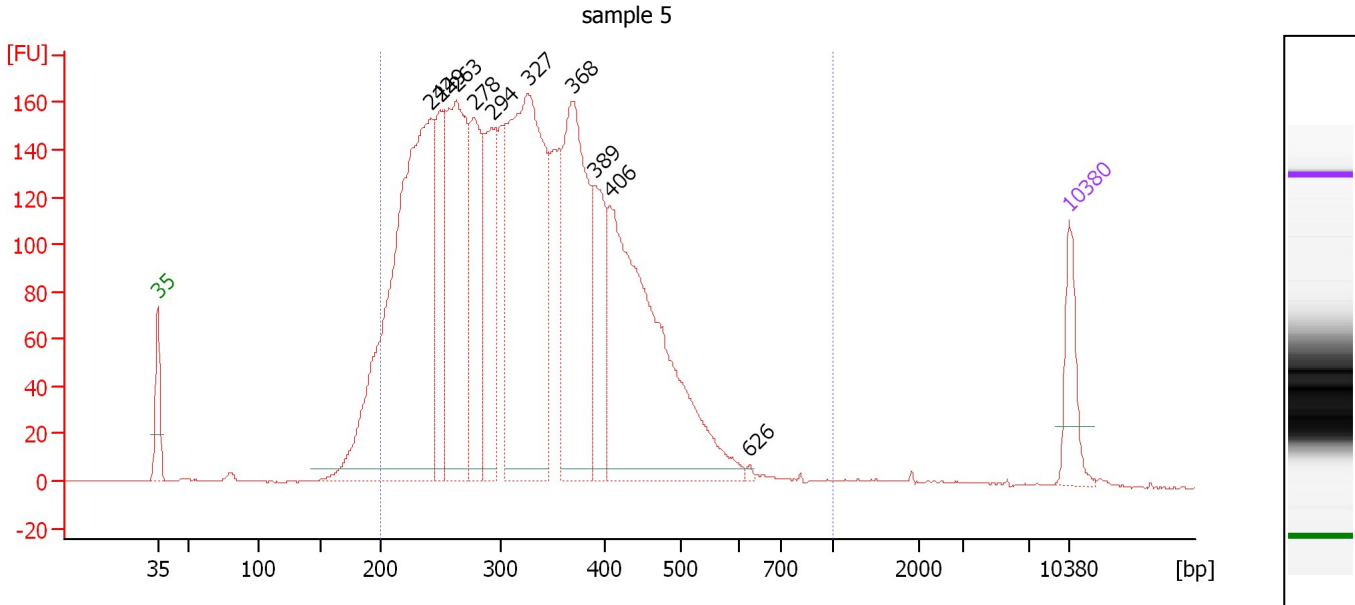
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	325	3,994.72	3,169.5	19,989.5	91	25.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 10 Corr. Area 1: 4,298.2
 Noise: 0.2

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	242	1,228.25	7,678.5		64.04
3	249	266.67	1,620.4		64.67
4	263	566.29	3,258.6		65.94
5	278	300.31	1,634.2		67.32
6	294	270.73	1,397.3		68.70
7	327	868.56	4,028.0		71.46
8	368	520.82	2,141.5		74.85
9	389	205.84	801.0		76.54
10	406	772.56	2,881.8		77.76
11	626	3.80	9.2		88.47
12	10,380	75.00	10.9	Upper Marker	113.00

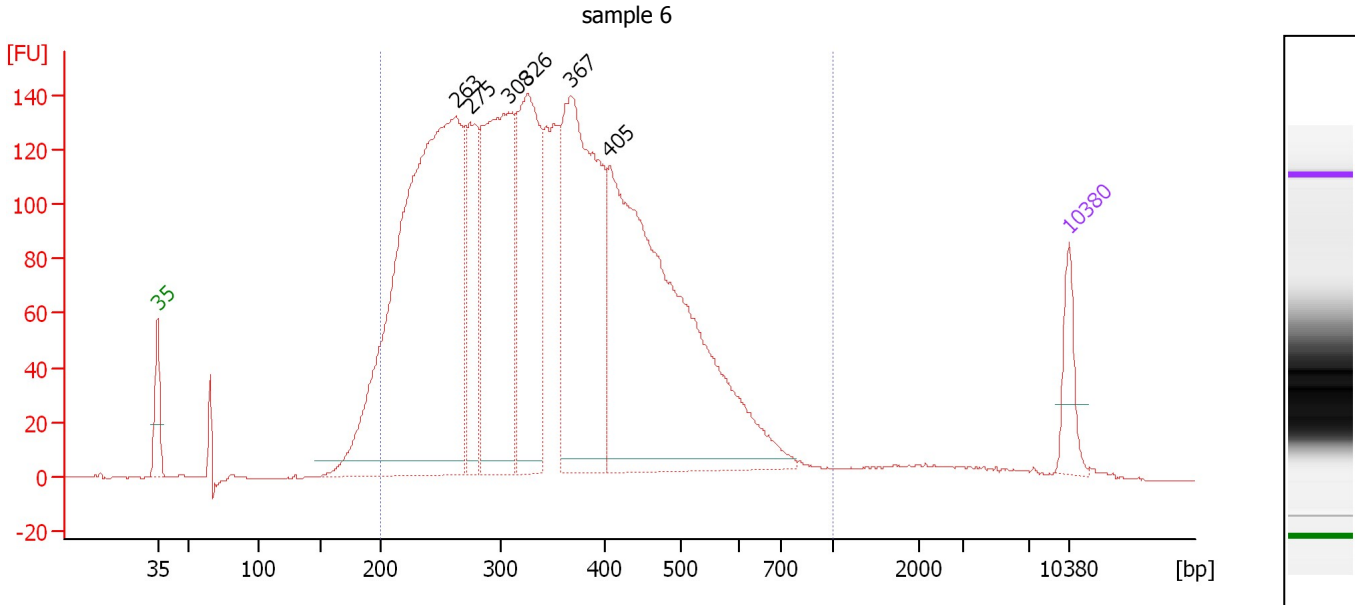
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	333	5,280.15	4,298.2	26,269.7	95	27.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 6 Corr. Area 1: 4,017.7
 Noise: 0.2

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	263	2,007.03	11,569.6		65.90
3	275	332.12	1,832.0		66.98
4	308	820.90	4,037.1		69.94
5	326	597.97	2,779.1		71.40
6	367	908.57	3,749.4		74.74
7	405	1,409.43	5,270.5		77.70
8	10,380	75.00	10.9	Upper Marker	113.00

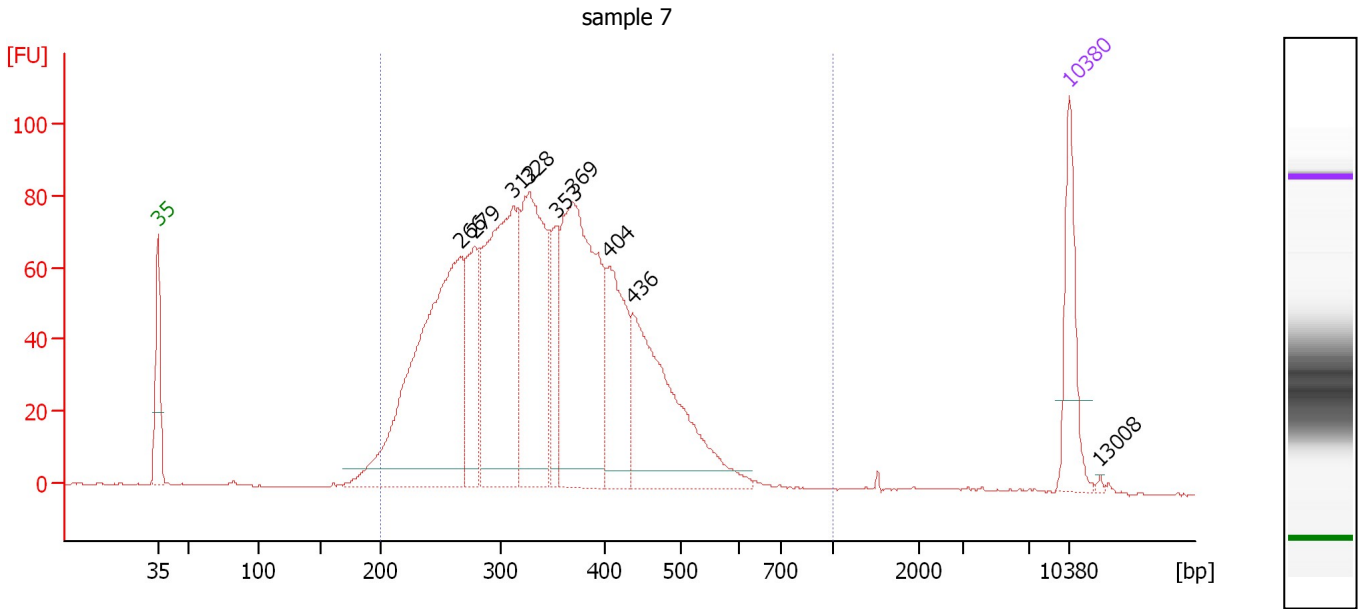
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	358	6,514.17	4,017.7	31,050.3	94	31.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 9 Corr. Area 1: 1,854.2
 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	266	554.86	3,158.5		66.21
3	279	133.33	724.7		67.35
4	312	386.23	1,872.7		70.30
5	328	309.65	1,430.6		71.56
6	353	84.57	363.2		73.58
7	369	400.40	1,644.2		74.89
8	404	157.59	591.5		77.62
9	436	279.07	969.8		79.47
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,008	0.00	0.0		115.35

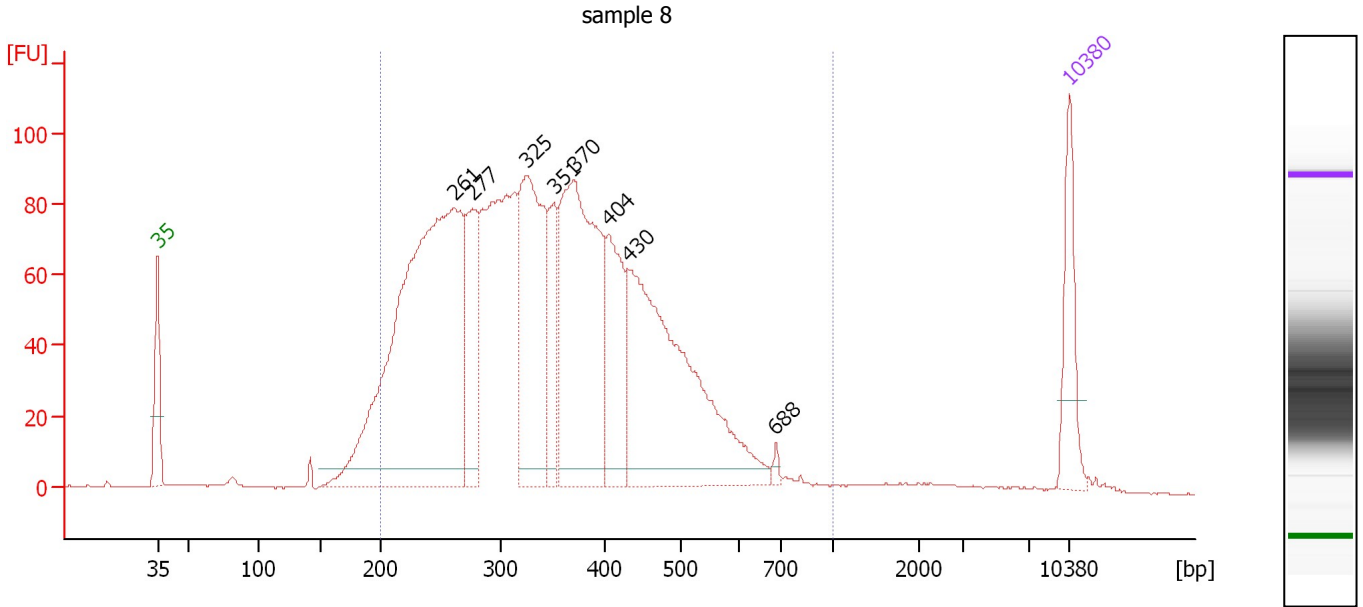
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	347	2,371.13	1,854.2	11,191.4	97	24.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 8 Corr. Area 1: 2,413.4
 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	261	969.62	5,621.9		65.76
3	277	163.80	895.8		67.20
4	325	336.81	1,569.4		71.33
5	351	103.14	445.3		73.43
6	370	455.05	1,863.5		74.97
7	404	160.13	601.1		77.61
8	430	500.36	1,764.9		79.10
9	688	6.30	13.9		90.46
10	10,380	75.00	10.9	Upper Marker	113.00

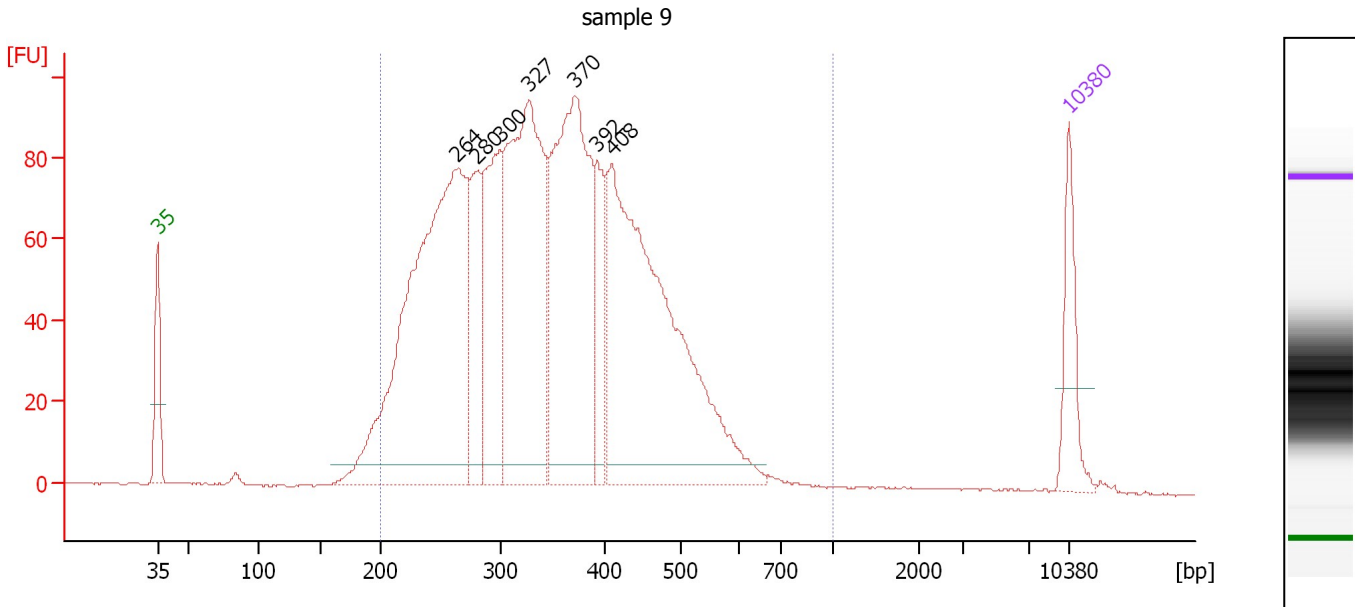
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	354	3,150.40	2,413.4	15,034.5	94	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 7 Corr. Area 1: 2,329.8
 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	264	963.39	5,530.9		66.00
3	280	165.74	897.6		67.44
4	300	280.88	1,419.1		69.28
5	327	590.09	2,732.0		71.50
6	370	562.18	2,299.9		75.00
7	392	114.68	442.9		76.78
8	408	757.39	2,809.8		77.89
9	10,380	75.00	10.9	Upper Marker	113.00

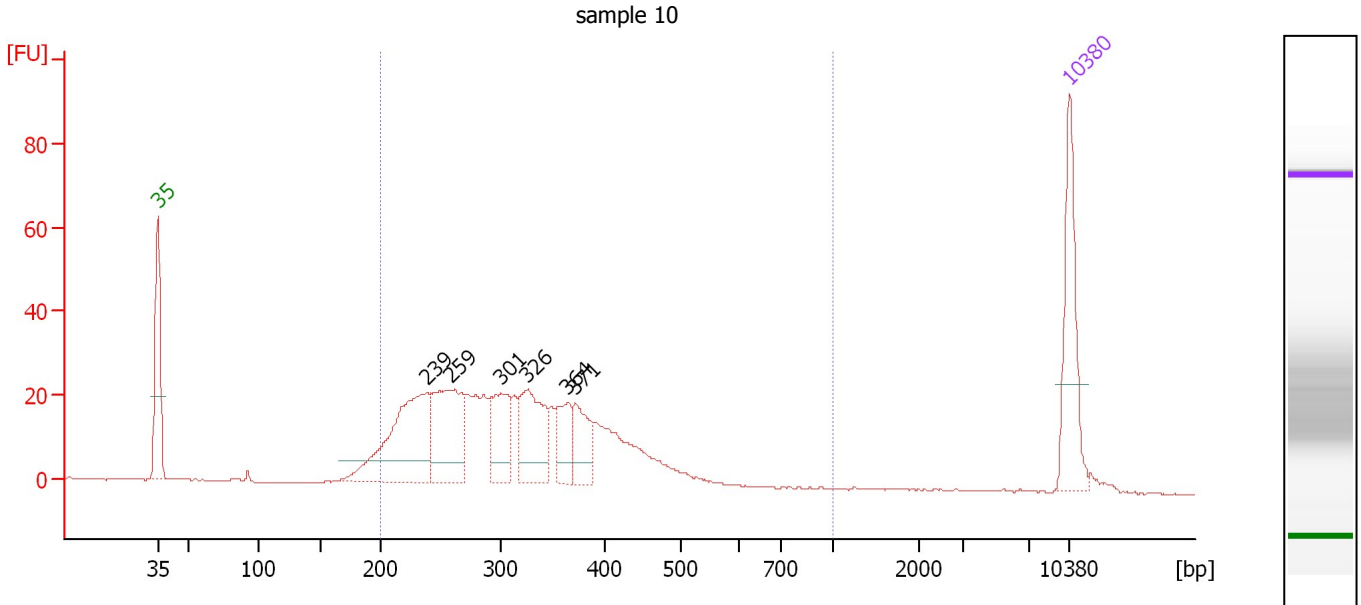
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	354	3,491.81	2,329.8	16,418.4	97	26.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 6 Corr. Area 1: 537.6
 Noise: 0.2

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	239	186.63	1,185.5		63.69
3	259	129.73	759.6		65.53
4	301	66.48	334.3		69.39
5	326	89.91	417.8		71.40
6	364	41.72	173.7		74.48
7	371	47.36	193.5		75.04
8	10,380	75.00	10.9	Upper Marker	113.00

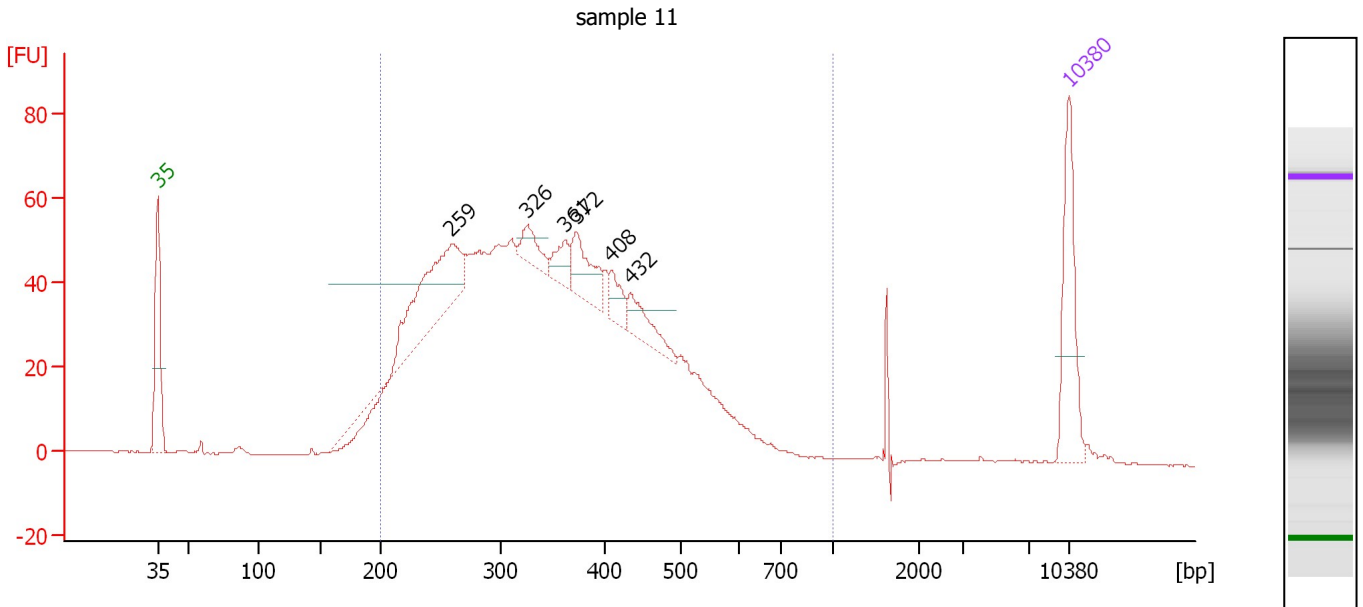
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	320	804.93	537.6	4,109.4	95	24.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
 Modified: 6/20/2018 4:34:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 6 Corr. Area 1: 1,423.0
 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	259	163.72	957.4		65.56
3	326	26.53	123.4		71.37
4	361	24.42	102.5		74.25
5	372	50.18	204.2		75.15
6	408	21.66	80.5		77.86
7	432	37.29	130.7		79.27
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	354	2,205.25	1,423.0	10,477.1	96	28.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_004.xad

Created: 6/20/2018 3:54:24 PM
Modified: 6/20/2018 4:34:45 PM

Gel Image

