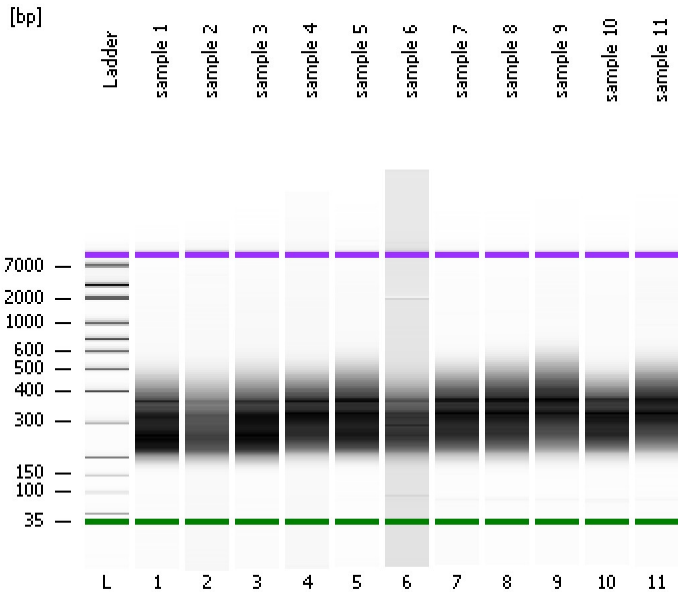


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
Modified: 6/20/2018 2:44:56 PM

Electrophoresis File Run Summary



Instrument Information:

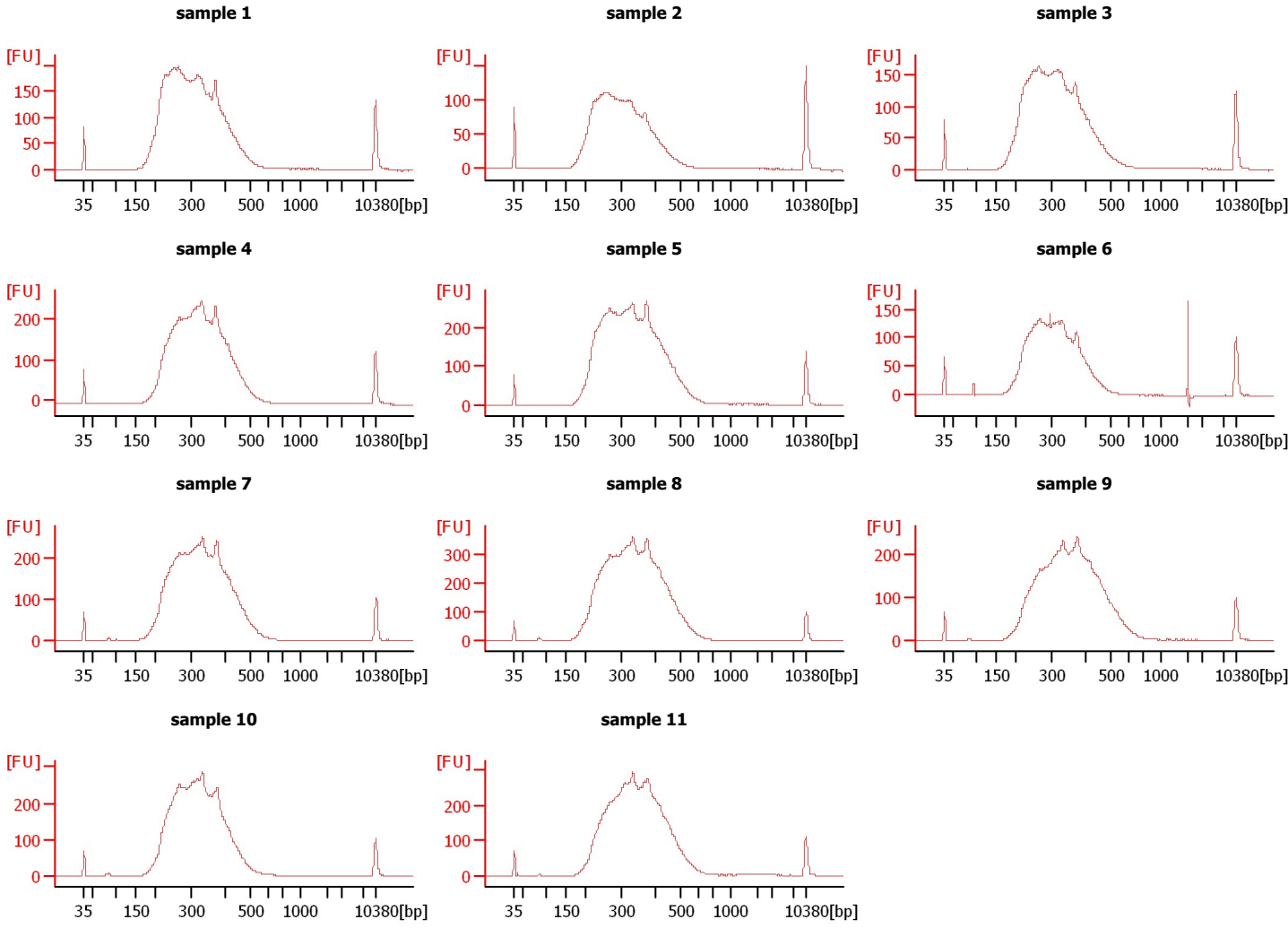
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 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_002.xad

Created: 6/20/2018 2:03:40 PM
Modified: 6/20/2018 2:44:56 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

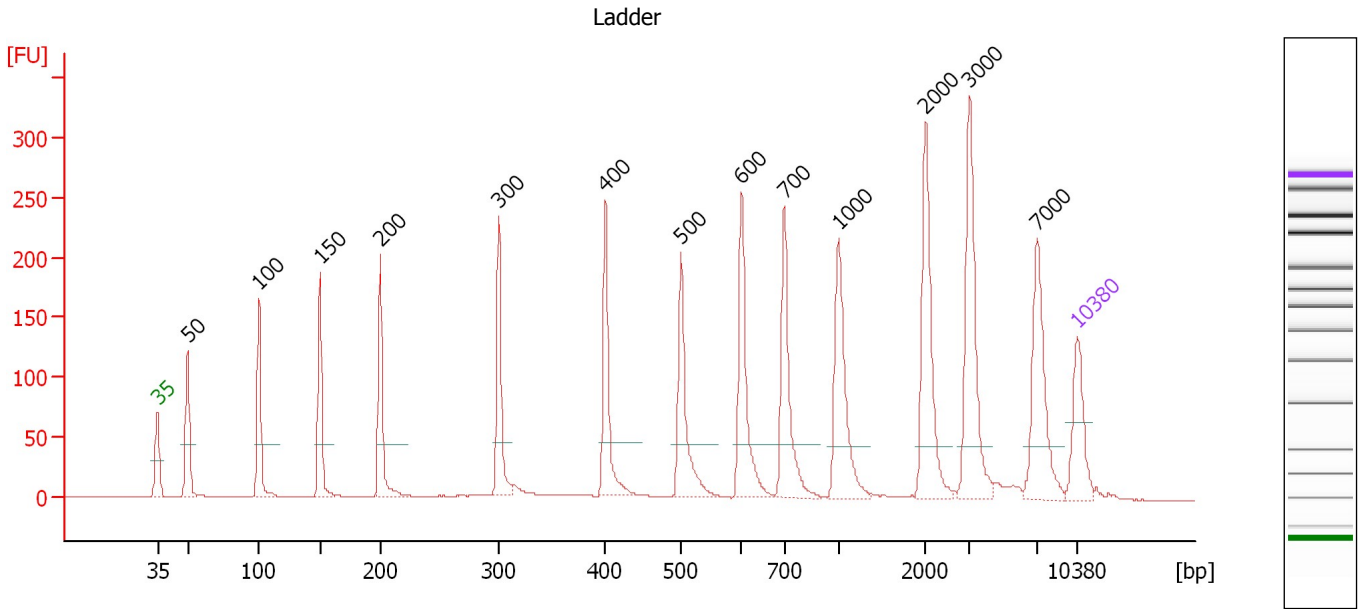
Ladder

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_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

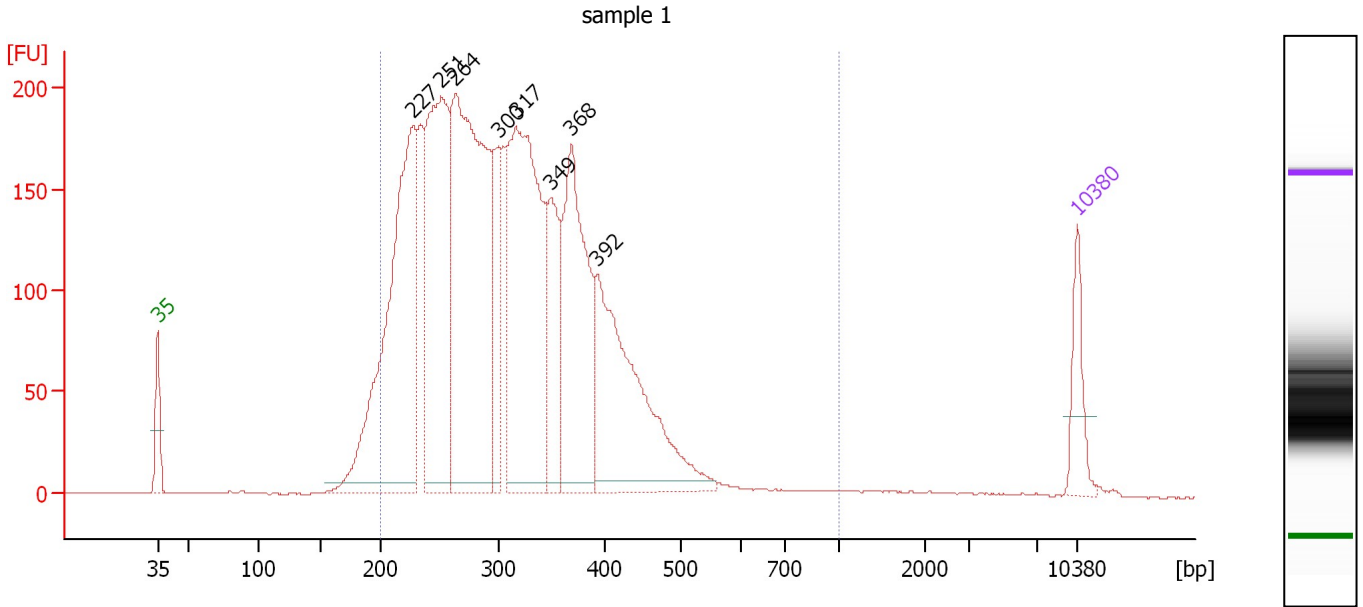
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.73
4	150	150.00	1,515.2	Ladder Peak	55.38
5	200	150.00	1,136.4	Ladder Peak	59.95
6	300	150.00	757.6	Ladder Peak	68.95
7	400	150.00	568.2	Ladder Peak	77.08
8	500	150.00	454.5	Ladder Peak	82.83
9	600	150.00	378.8	Ladder Peak	87.44
10	700	150.00	324.7	Ladder Peak	90.69
11	1,000	150.00	227.3	Ladder Peak	94.82
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.93
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_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 8 Corr. Area 1: 4,662.0
 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	227	949.22	6,330.0		62.40
3	251	699.95	4,220.9		64.57
4	264	1,069.25	6,147.6		65.67
5	300	176.60	892.3		68.94
6	317	828.30	3,962.7		70.31
7	349	222.29	965.6		72.92
8	368	495.08	2,036.3		74.51
9	392	544.53	2,103.0		76.45
10	10,380	75.00	10.9	Upper Marker	113.00

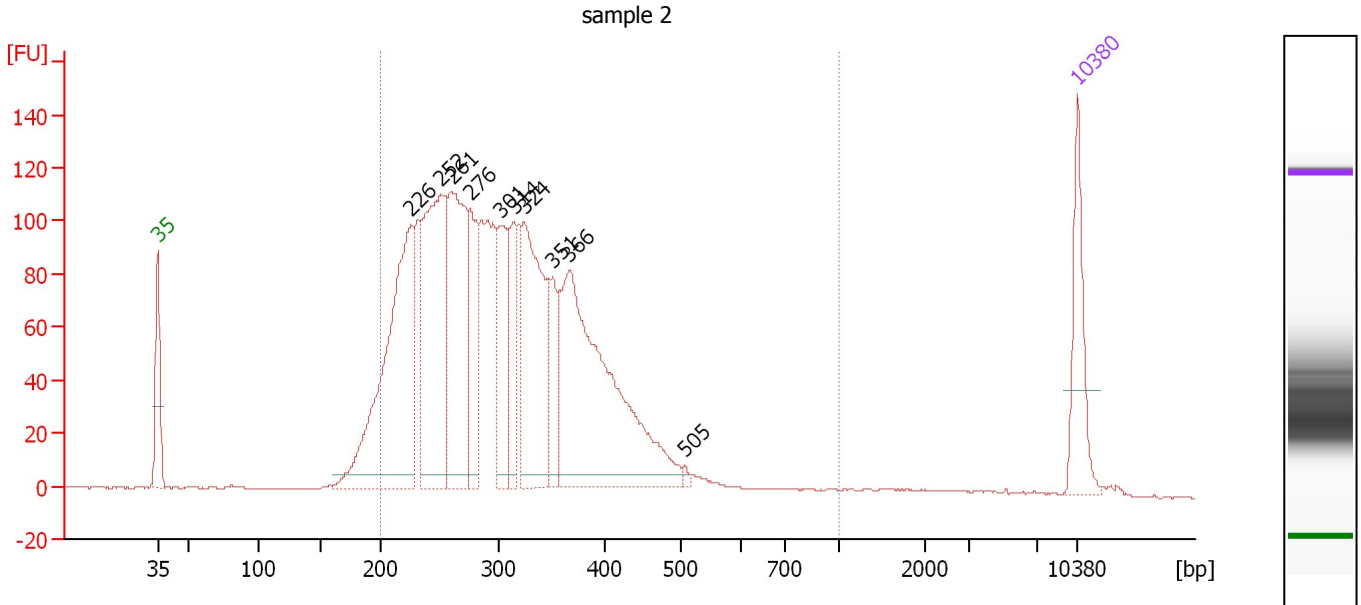
Region table for sample 1 : sample 1

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	315	5,151.72	4,662.0	26,674.7	95	26.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 10 Corr. Area 1: 2,558.1
 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	226	451.98	3,031.7		62.28
3	252	349.84	2,106.7		64.60
4	261	290.84	1,691.6		65.40
5	276	117.37	644.7		66.78
6	301	132.49	666.5		69.05
7	314	83.88	404.3		70.12
8	324	274.92	1,287.0		70.88
9	351	64.49	278.8		73.06
10	366	477.40	1,977.1		74.30
11	505	4.69	14.1		83.08
12	10,380	75.00	10.9	Upper Marker	113.00

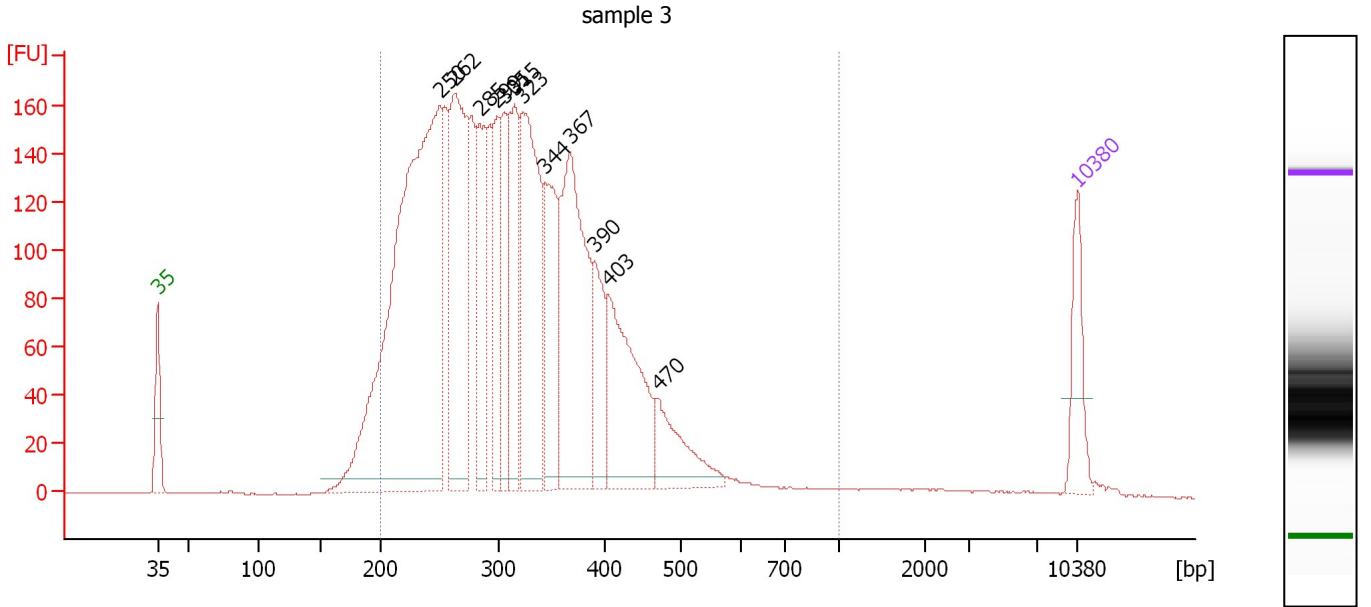
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	312	2,590.02	2,558.1	13,521.8	95	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 12 Corr. Area 1: 3,974.2
 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	250	1,311.09	7,939.0		64.47
3	262	440.52	2,544.4		65.56
4	285	208.93	1,112.7		67.56
5	299	157.31	796.8		68.88
6	305	181.34	900.3		69.37
7	315	202.33	974.2		70.15
8	323	407.49	1,911.1		70.83
9	344	193.99	855.1		72.51
10	367	448.38	1,852.9		74.37
11	390	128.19	497.9		76.27
12	403	291.06	1,093.2		77.27
13	470	119.59	385.8		81.09
14	10,380	75.00	10.9	Upper Marker	113.00

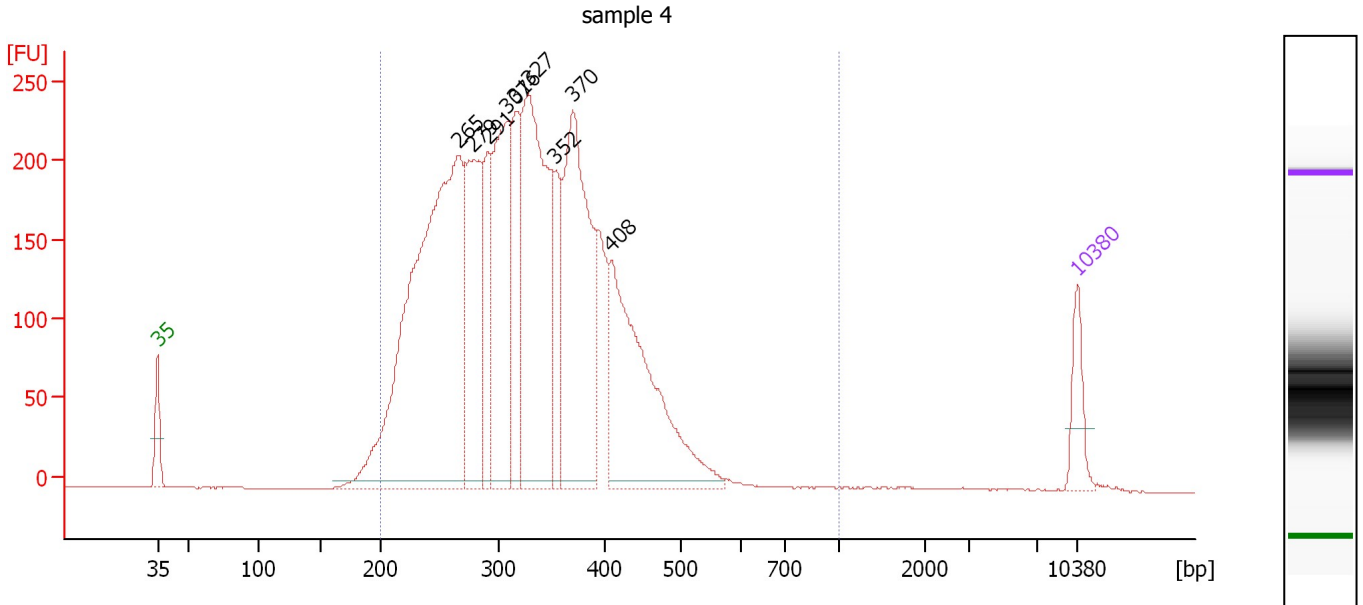
Region table for sample 3 : sample 3

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	321	4,580.11	3,974.2	23,399.8	95	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 9 Corr. Area 1: 4,860.7
 Noise: 0.3

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	265	1,724.87	9,847.4		65.84
3	279	469.91	2,553.7		67.05
4	291	232.04	1,207.4		68.16
5	307	543.48	2,679.1		69.55
6	316	245.51	1,177.4		70.25
7	327	871.80	4,035.0		71.18
8	352	175.73	756.6		73.17
9	370	740.85	3,036.7		74.61
10	408	663.67	2,464.8		77.54
11	10,380	75.00	10.9	Upper Marker	113.00

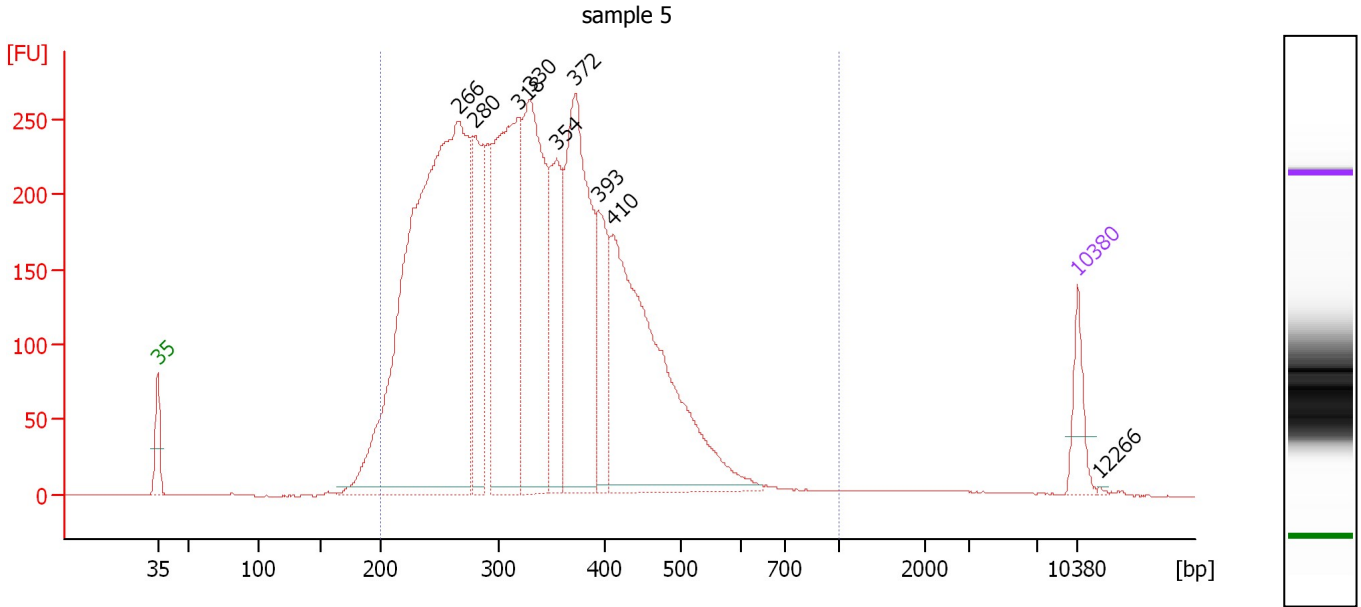
Region table for sample 4 : sample 4

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	326	5,344.36	4,860.7	26,306.6	100	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 9 Corr. Area 1: 6,534.2
 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	266	2,395.67	13,630.2		65.92
3	280	371.20	2,008.1		67.16
4	318	880.60	4,190.7		70.45
5	330	785.07	3,609.7		71.35
6	354	335.31	1,434.5		73.35
7	372	782.42	3,188.8		74.78
8	393	241.66	930.6		76.55
9	410	1,036.68	3,832.7		77.64
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,266	0.00	0.0		114.72

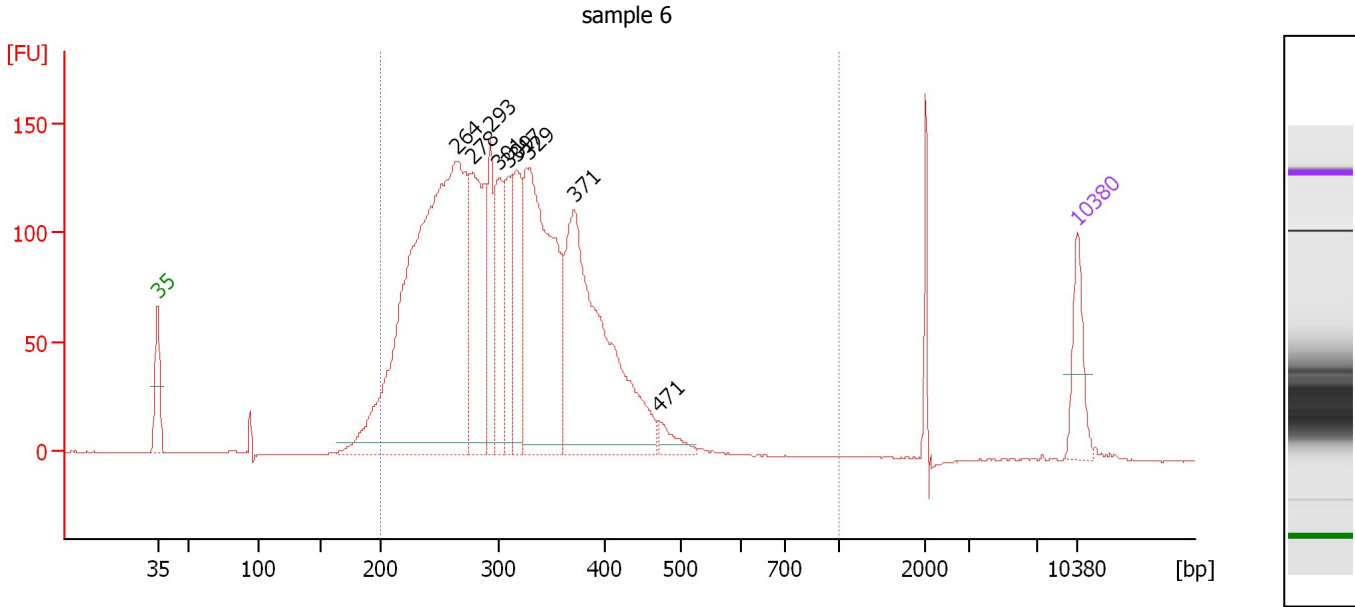
Region table for sample 5 : sample 5

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	337	7,213.66	6,534.2	35,274.4	97	26.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 9 Corr. Area 1: 2,848.6
 Noise: 0.3

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	264	1,527.01	8,750.5		65.75
3	278	339.28	1,849.6		66.97
4	293	168.04	868.7		68.33
5	301	172.30	868.1		69.01
6	309	158.76	778.1		69.69
7	317	194.11	928.0		70.33
8	329	647.01	2,980.5		71.30
9	371	682.34	2,787.6		74.71
10	471	36.24	116.7		81.14
11	10,380	75.00	10.9	Upper Marker	113.00

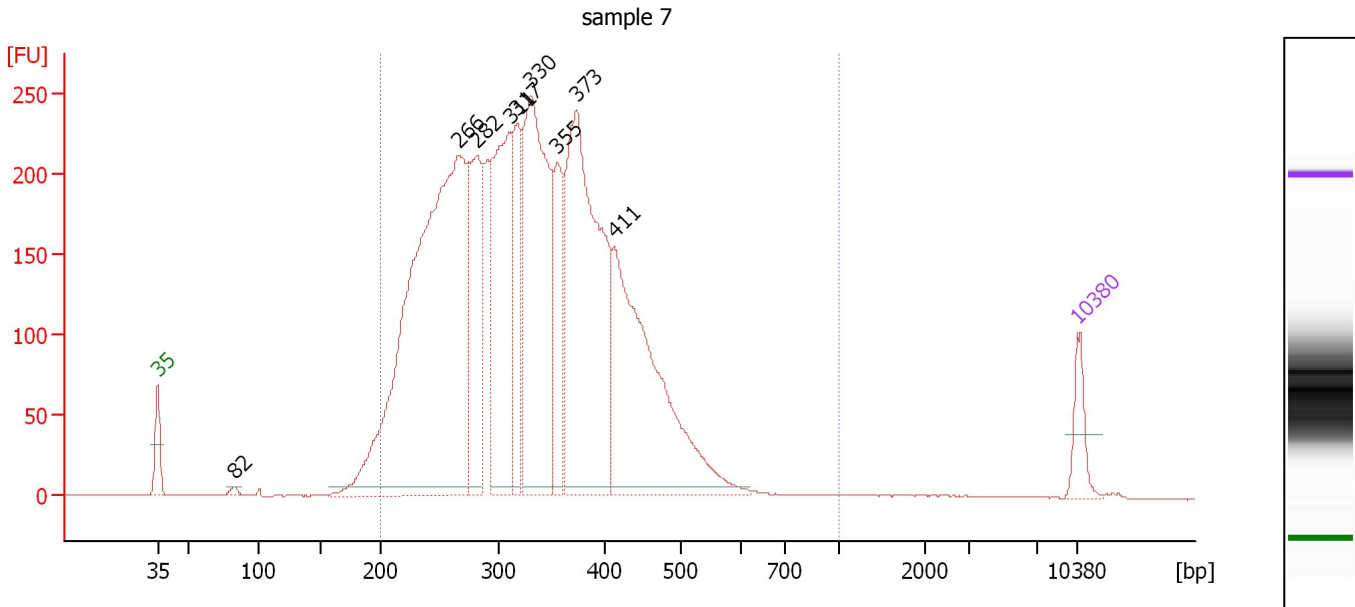
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	312	3,928.12	2,848.6	20,159.5	96	22.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 9 Corr. Area 1: 5,541.7
 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	82	10.91	200.6		48.81
3	266	2,286.02	13,015.8		65.90
4	282	520.55	2,795.7		67.34
5	311	697.49	3,400.7		69.83
6	317	306.15	1,461.1		70.37
7	330	981.84	4,503.5		71.42
8	355	302.62	1,292.4		73.40
9	373	1,157.97	4,702.1		74.89
10	411	944.69	3,480.2		77.73
11	10,380	75.00	10.9	Upper Marker	113.00

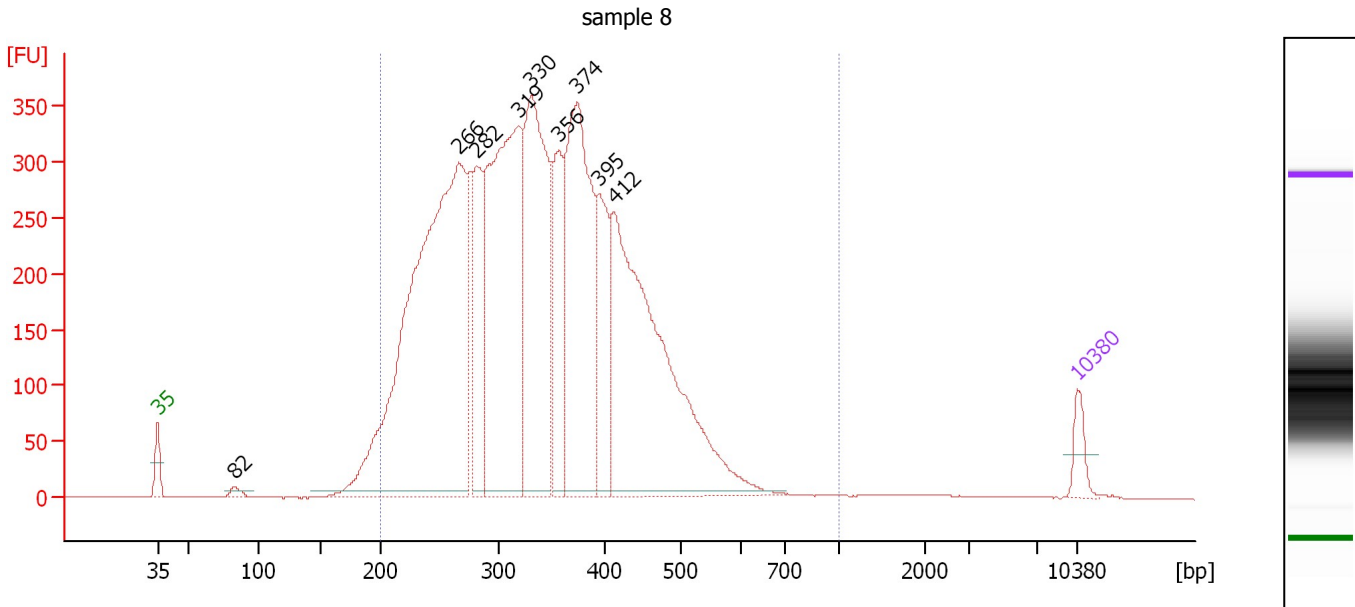
Region table for sample 7 : sample 7

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	334	7,487.98	5,541.7	36,539.4	97	24.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 9 Corr. Area 1: 8,328.3
 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	82	32.40	596.1		48.81
3	266	3,343.40	19,015.1		65.93
4	282	579.02	3,115.9		67.29
5	319	1,856.72	8,826.5		70.47
6	330	1,356.70	6,230.7		71.38
7	356	505.38	2,150.8		73.51
8	374	1,360.09	5,509.2		74.97
9	395	464.88	1,785.2		76.64
10	412	1,937.19	7,130.3		77.75
11	10,380	75.00	10.9	Upper Marker	113.00

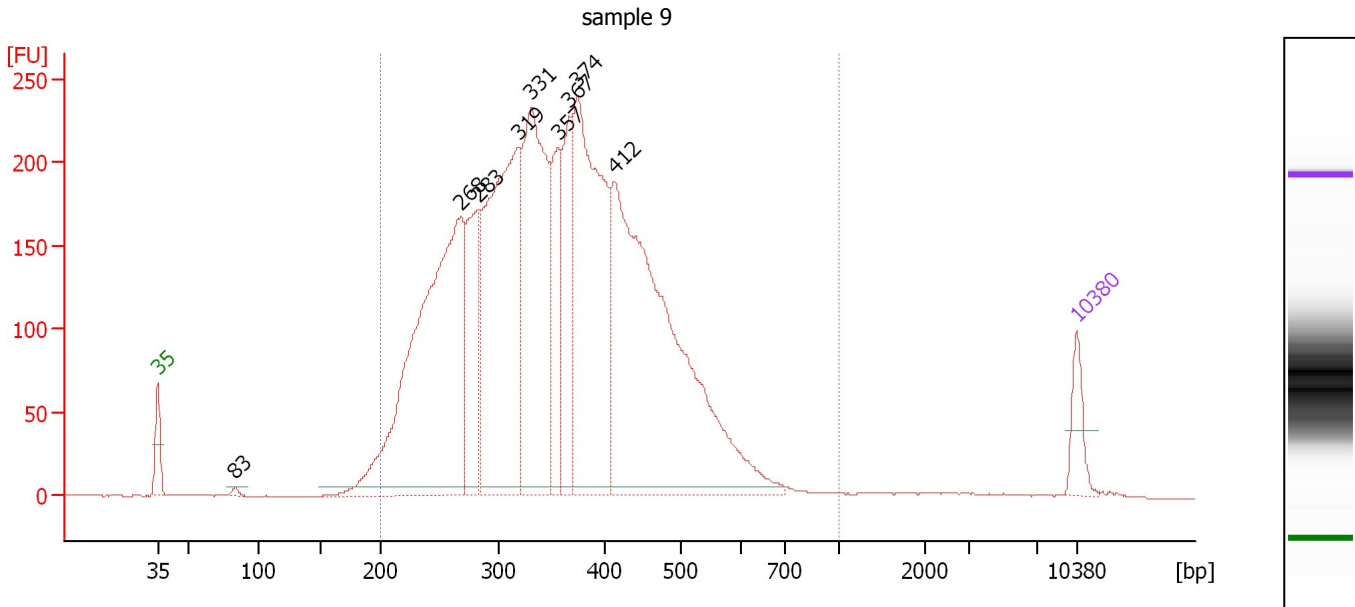
Region table for sample 8 : sample 8

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	344	11,633.84	8,328.3	55,628.1	97	25.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 9 Corr. Area 1: 5,447.7
 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	83	11.65	212.1		48.91
3	268	1,611.20	9,113.1		66.06
4	283	387.62	2,074.2		67.44
5	319	1,129.10	5,364.1		70.49
6	331	946.05	4,332.8		71.46
7	357	302.99	1,287.7		73.55
8	367	315.32	1,303.4		74.36
9	374	1,024.27	4,148.8		74.97
10	412	1,696.79	6,239.3		77.77
11	10,380	75.00	10.9	Upper Marker	113.00

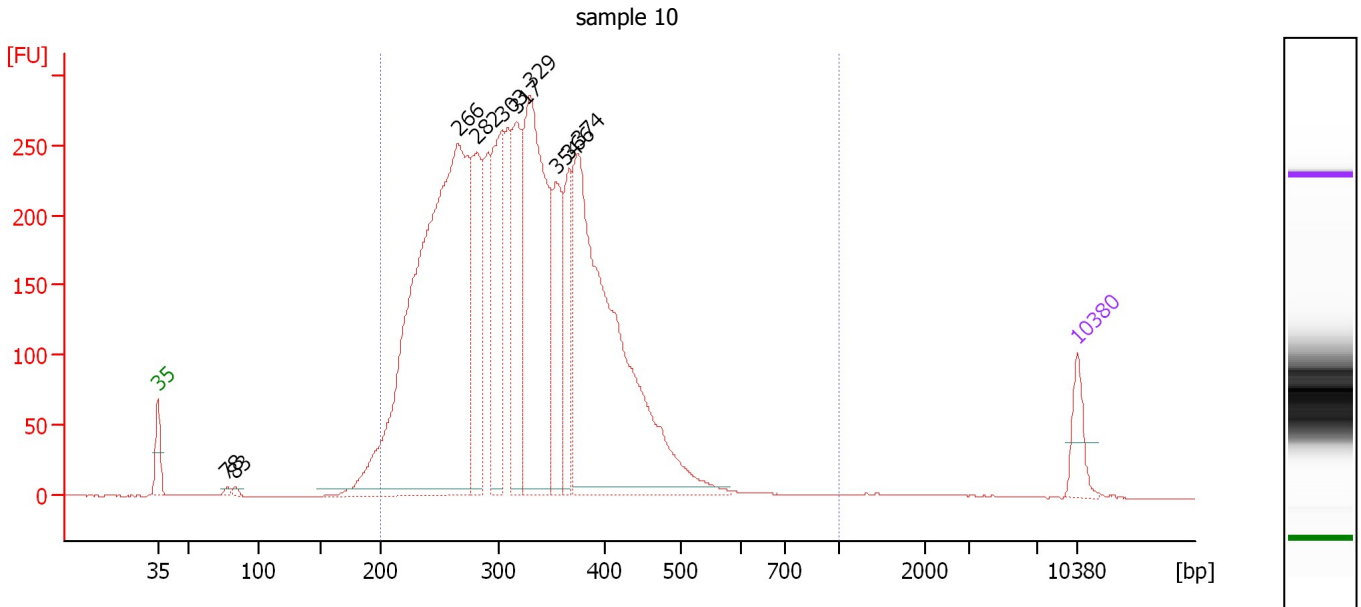
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	362	7,503.25	5,447.7	34,359.2	97	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 10 Corr. Area 1: 5,723.4
 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	78	10.41	203.3		48.29
3	83	12.33	224.4		48.91
4	266	2,638.94	15,023.6		65.91
5	282	445.34	2,391.8		67.34
6	303	493.81	2,469.8		69.19
7	317	419.75	2,007.2		70.32
8	329	1,071.32	4,926.4		71.35
9	354	321.29	1,377.1		73.30
10	366	260.62	1,078.4		74.33
11	374	1,614.54	6,534.4		75.00
12	10,380	75.00	10.9	Upper Marker	113.00

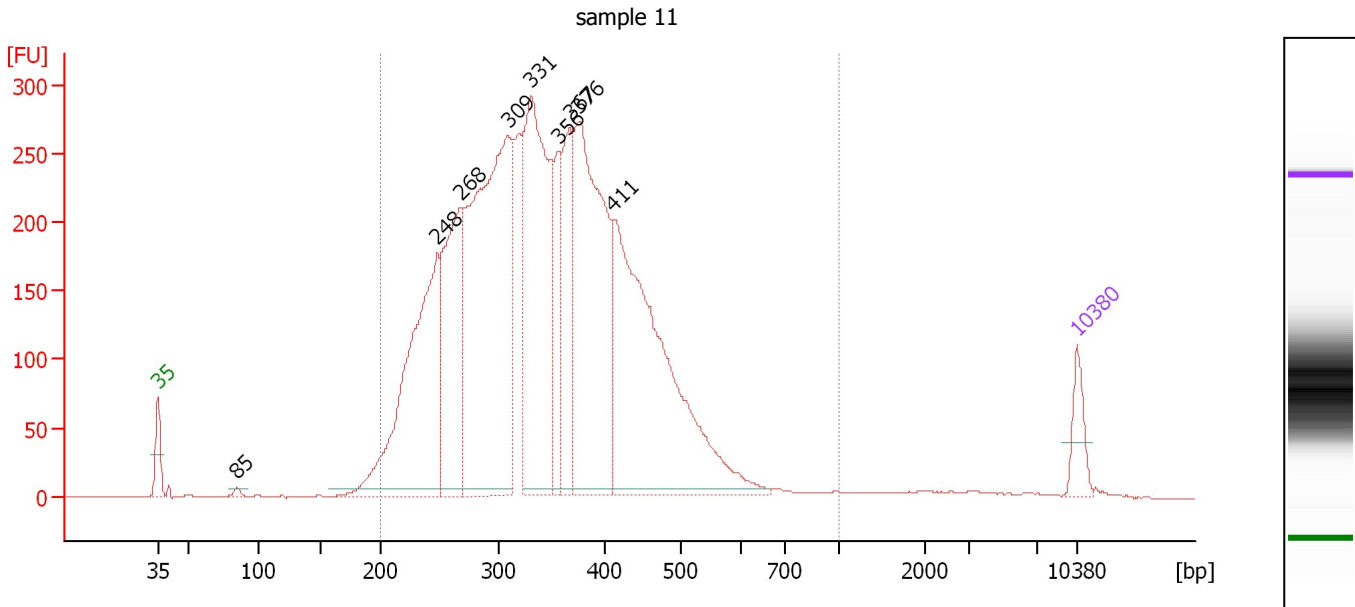
Region table for sample 10 : sample 10

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	325	7,950.87	5,723.4	39,482.1	97	23.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
 Modified: 6/20/2018 2:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 9 Corr. Area 1: 6,226.9
 Noise: 0.3

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	85	12.85	229.8		49.06
3	248	1,105.84	6,749.1		64.30
4	268	640.83	3,617.5		66.11
5	309	1,667.46	8,176.5		69.68
6	331	1,095.00	5,017.3		71.45
7	356	279.41	1,190.7		73.47
8	367	396.90	1,638.5		74.40
9	376	1,105.75	4,456.3		75.12
10	411	1,364.65	5,029.8		77.72
11	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 lor Total	Size distribution in CV [%]
200	1,000	349	8,015.37	6,226.9	37,511.0	98	24.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-20\2018-06-20_002.xad

Created: 6/20/2018 2:03:40 PM
Modified: 6/20/2018 2:44:56 PM

Gel Image

