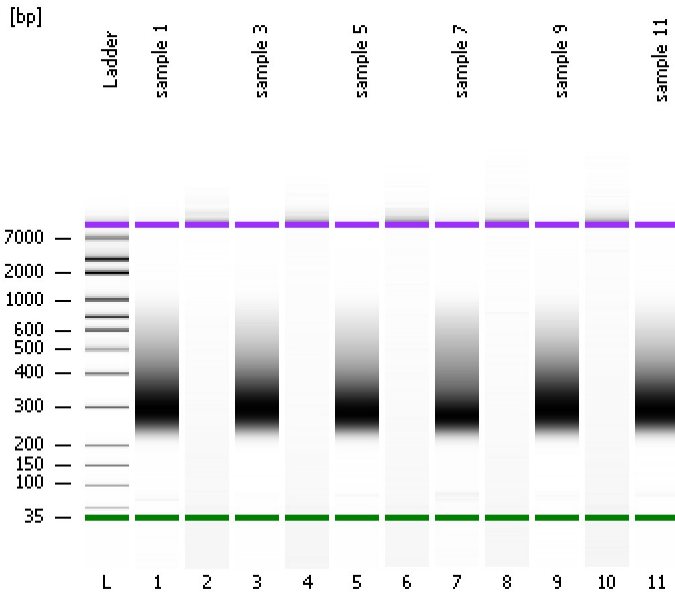


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
Modified: 7/27/2018 3:12:40 PM

Electrophoresis File Run Summary



Instrument Information:

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

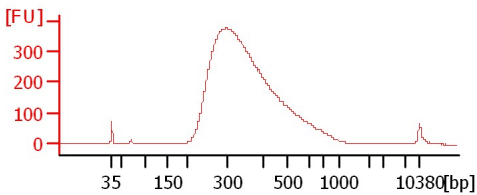
Assay Information:

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

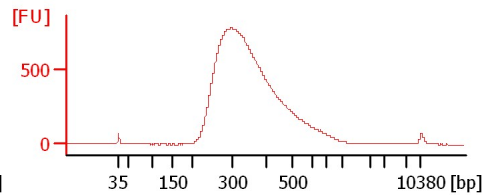
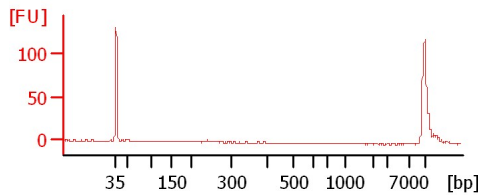
Chip Information:

Chip Lot #: Reagent Kit Lot #: Chip Comments:

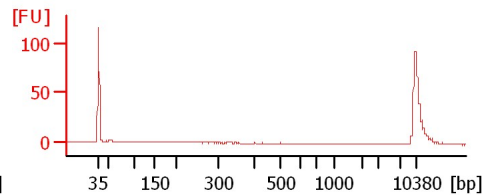
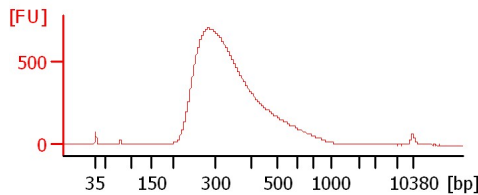
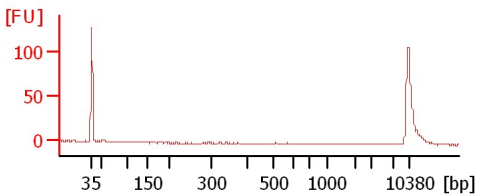
sample 1



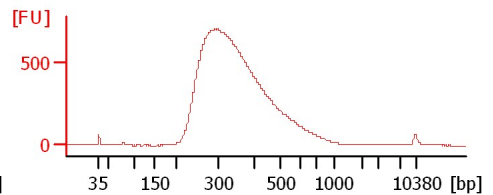
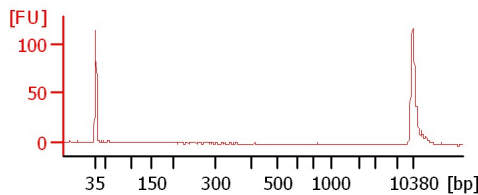
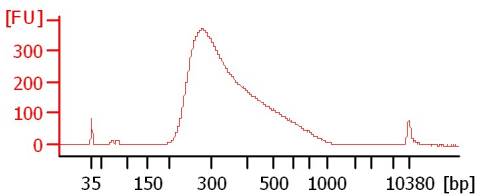
sample 3



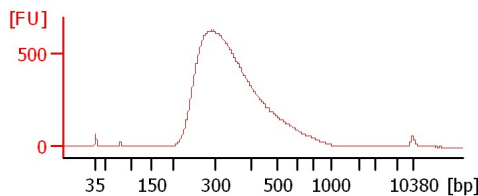
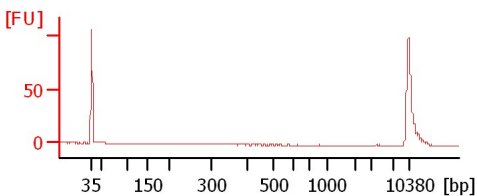
sample 5



sample 7



sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 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 3		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 9		<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\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
Modified: 7/27/2018 3:12:40 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

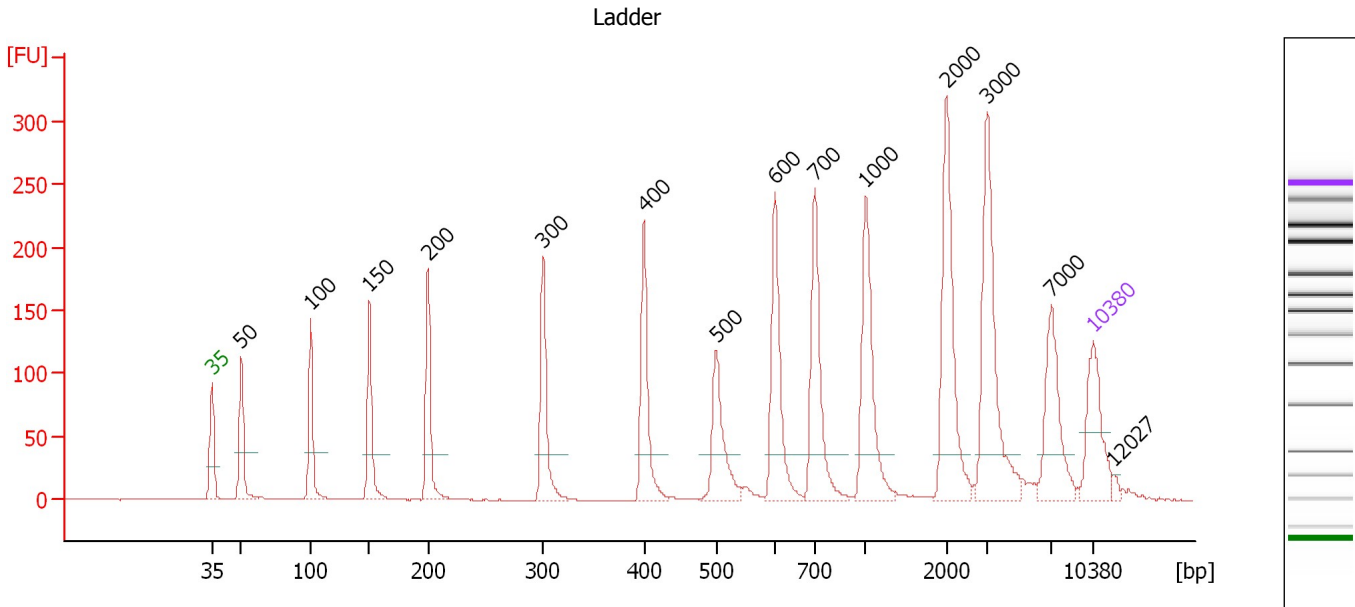
Ladder

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\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

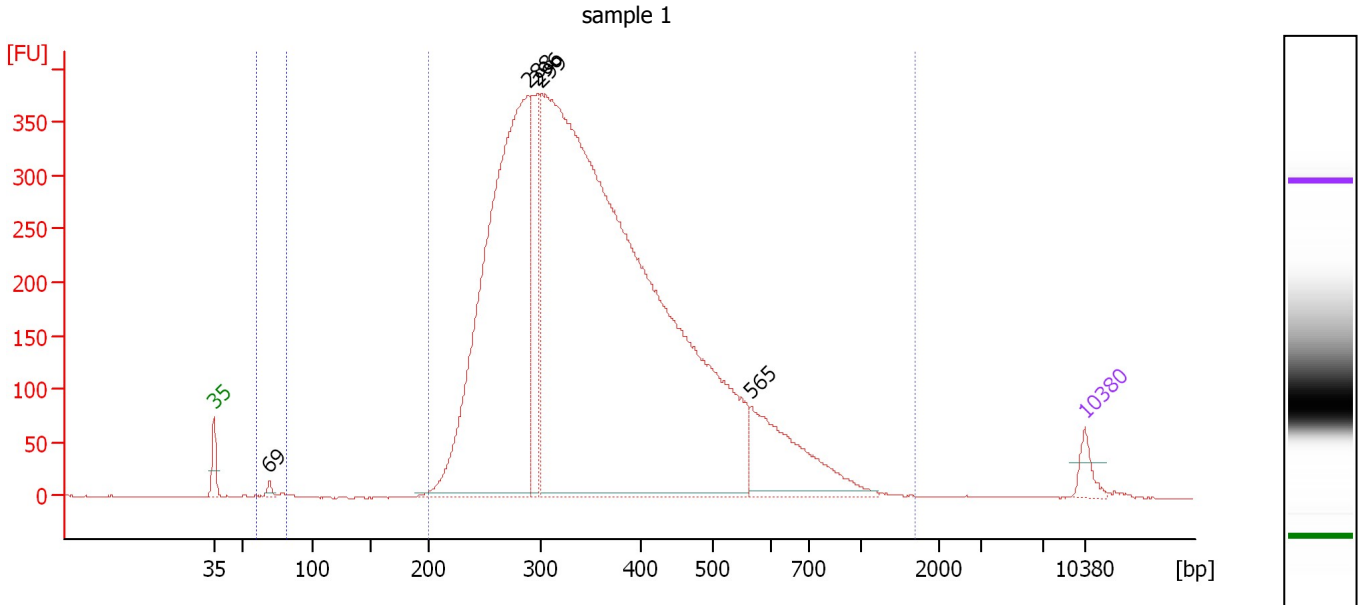
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.50
5	200	150.00	1,136.4	Ladder Peak	60.16
6	300	150.00	757.6	Ladder Peak	69.31
7	400	150.00	568.2	Ladder Peak	77.32
8	500	150.00	454.5	Ladder Peak	83.04
9	600	150.00	378.8	Ladder Peak	87.75
10	700	150.00	324.7	Ladder Peak	90.88
11	1,000	150.00	227.3	Ladder Peak	94.95
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.61
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,027	0.00	0.0		114.61

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 5 Corr. Area 1: 8,658.9
 Noise: 0.3 Corr. Area 2: 19.0

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	69	36.60	804.7		47.42
3	288	4,467.51	23,474.1		68.25
4	296	632.25	3,237.9		68.93
5	299	10,369.25	52,522.2		69.23
6	565	738.64	1,979.0		86.12
7	10,380	75.00	10.9	Upper Marker	113.00

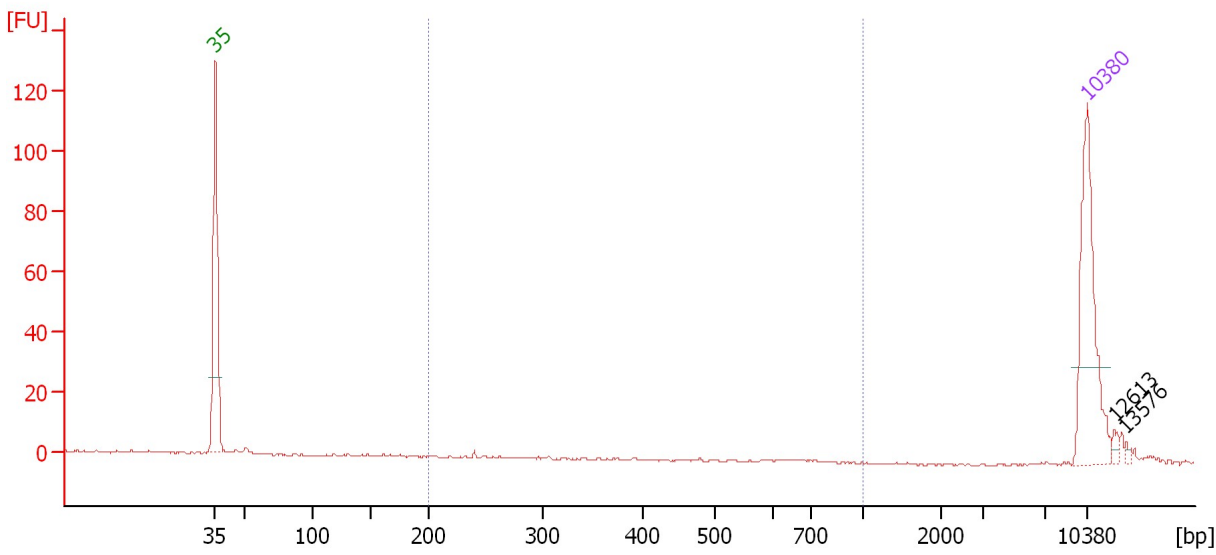
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59	81	71	44.60	19.0	953.2	0	6.2
200	1,693	371	15,087.39	8,658.9	68,853.3	99	33.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 :

Number of peaks found: 2 Corr. Area 1: 0.3
 Noise: 0.2

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,613	0.00	0.0		115.18
4	13,576	0.00	0.0		116.13

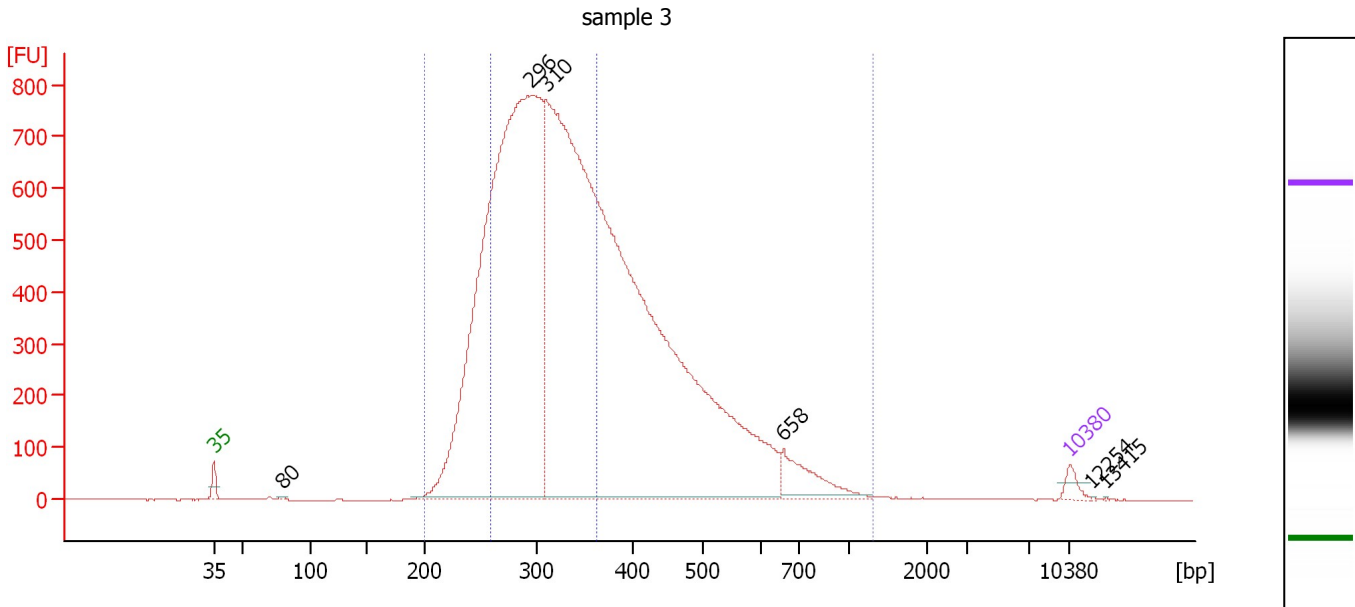
Region table for sample 2 :

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	241	0.32	0.3	2.0	2	2.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 6 Corr. Area 1: 17,003.5
 Noise: 0.6 Corr. Area 2: 9,203.3

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	80	17.19	327.5		48.59
3	296	11,421.61	58,517.9		68.92
4	310	17,992.75	87,834.0		70.14
5	658	465.66	1,072.2		89.56
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,254	0.00	0.0		114.83
8	13,415	0.00	0.0		115.97

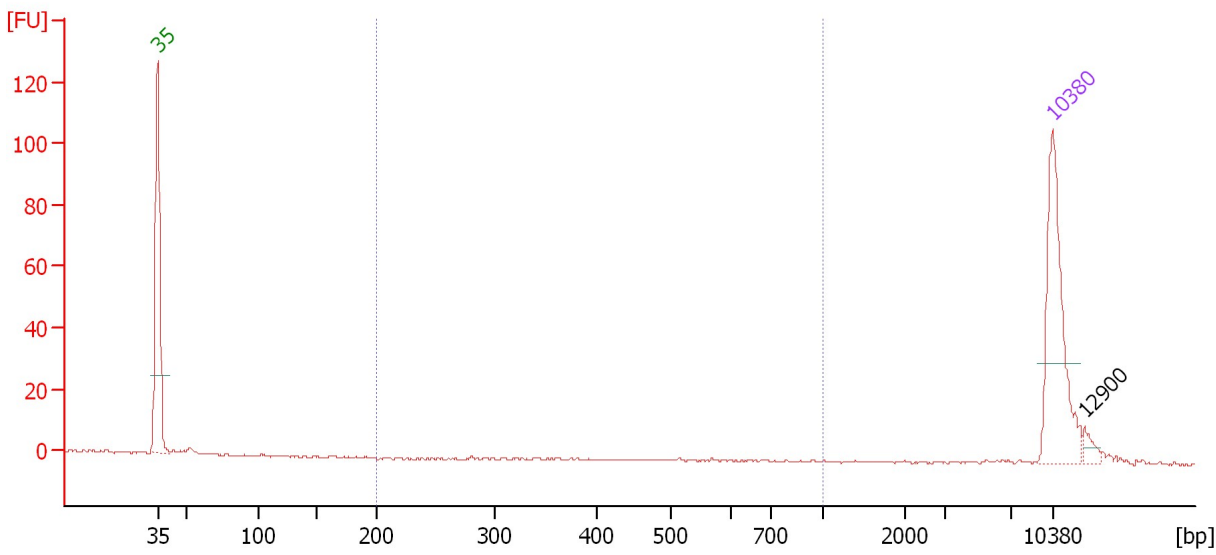
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,298	364	28,136.30	17,003.4	130,438.4	99	31.4
260	362	308	15,711.51	9,203.3	78,241.6	54	9.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 :

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,900	0.00	0.0		115.46

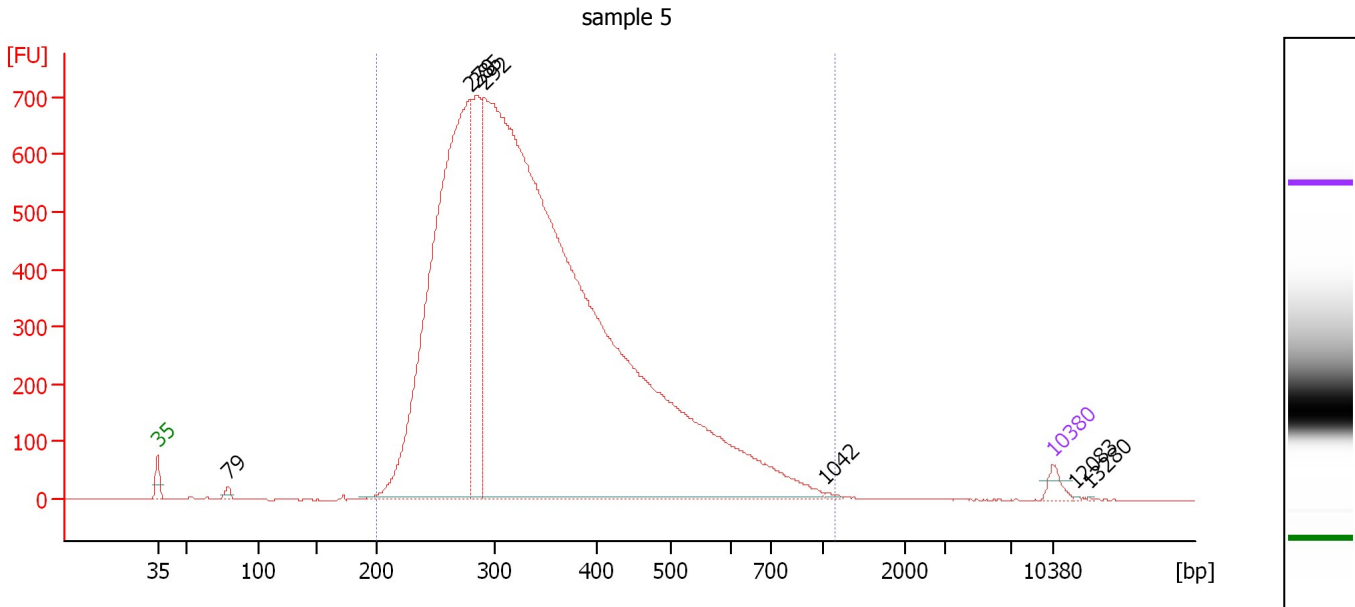
Region table for sample 4 :

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 7 Corr. Area 1: 14,505.6
 Noise: 0.4

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	79	53.12	1,022.7		48.49
3	279	7,096.49	38,527.7		67.40
4	285	1,590.97	8,458.7		67.94
5	292	19,396.26	100,690.7		68.57
6	1,042	17.84	25.9		95.22
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,083	0.00	0.0		114.67
9	13,280	0.00	0.0		115.84

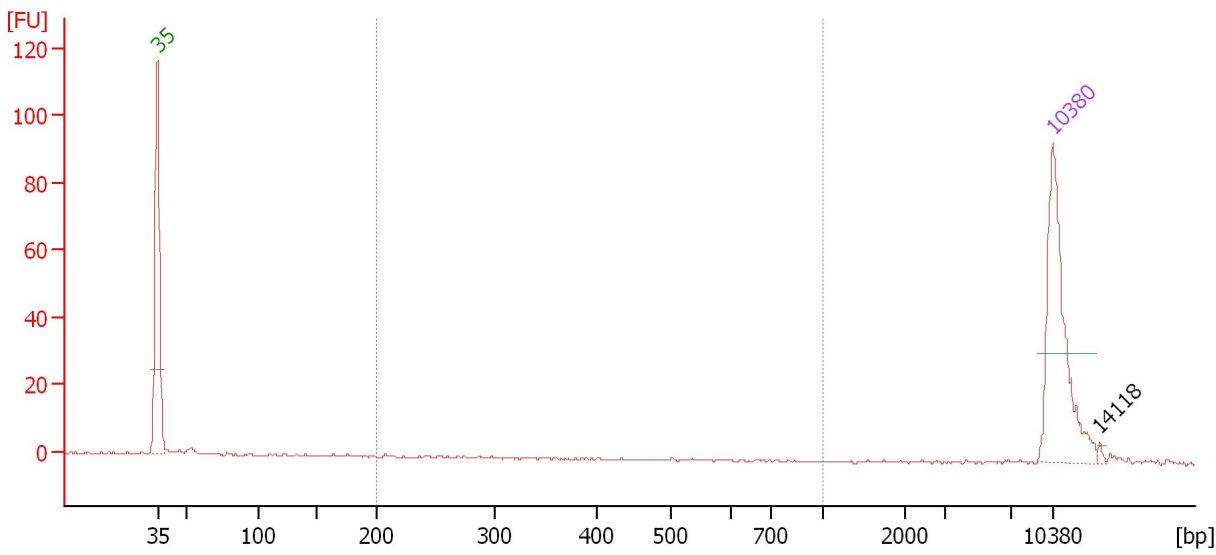
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,143	356	25,360.32	14,505.6	119,215.3	99	31.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 :

Number of peaks found: 1 Corr. Area 1: 1.7
 Noise: 0.3

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00
3	14,118	0.00	0.0		116.66

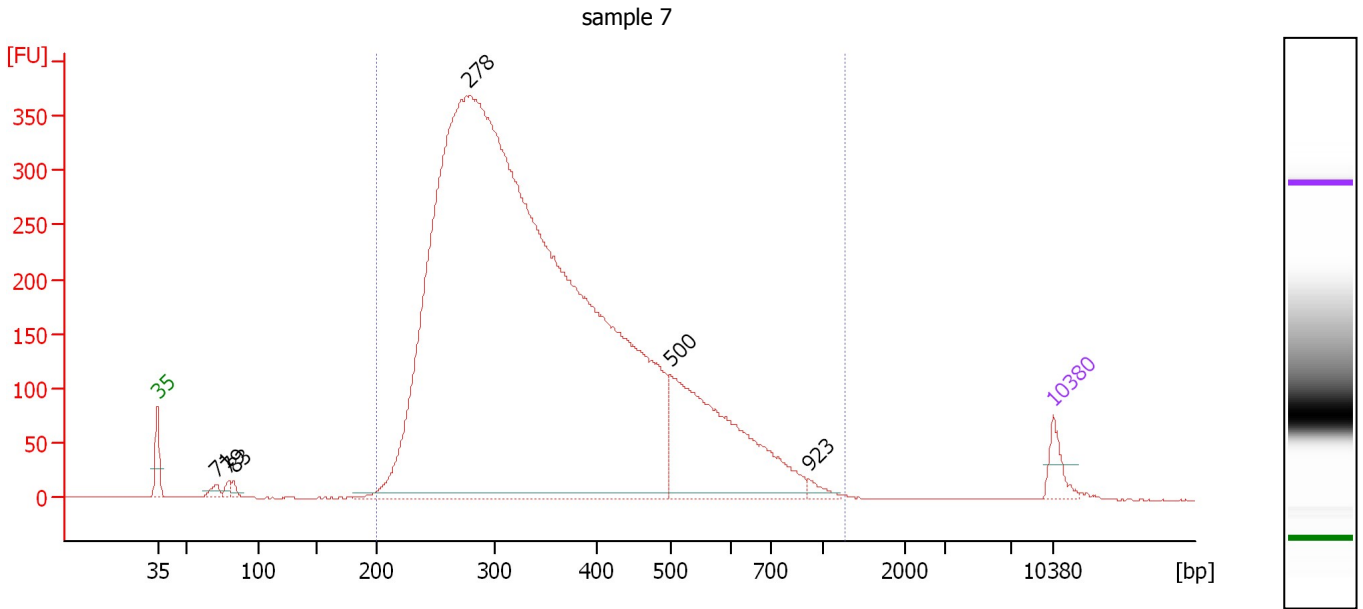
Region table for sample 6 :

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	344	1.48	1.7	7.7	7	40.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 6 Corr. Area 1: 7,774.2
 Noise: 0.4

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	71	40.31	865.2		47.60
3	79	33.89	649.7		48.53
4	83	28.70	525.2		48.95
5	278	11,723.70	63,796.6		67.34
6	500	1,205.07	3,652.0		83.04
7	923	33.43	54.9		93.91
8	10,380	75.00	10.9	Upper Marker	113.00

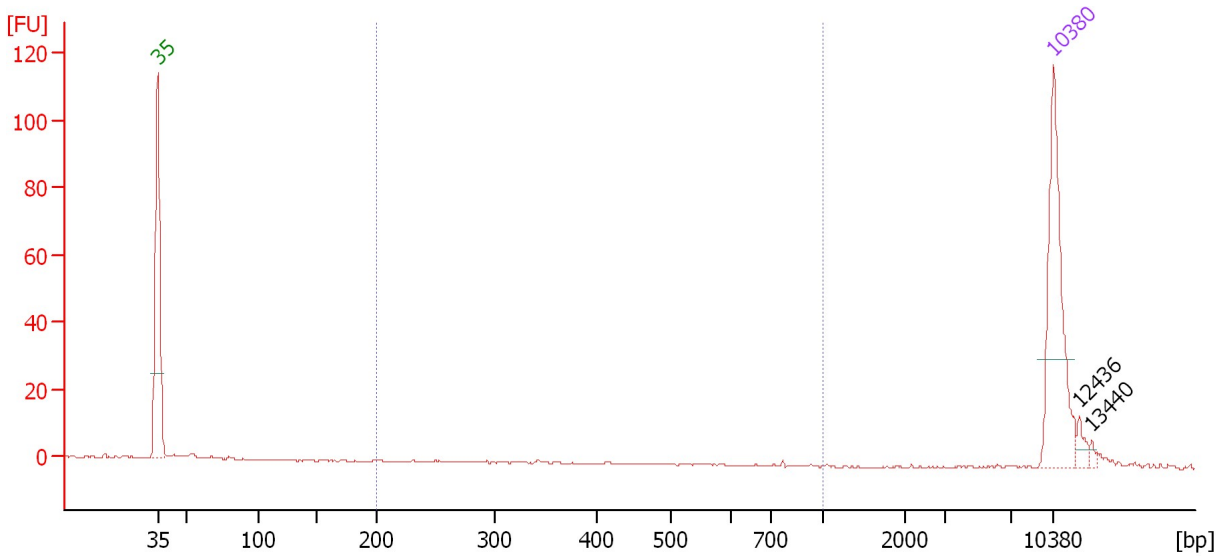
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,288	367	11,804.04	7,774.2	55,010.1	99	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 2 Corr. Area 1: 0.7
 Noise: 0.3

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,436	0.00	0.0		115.01
4	13,440	0.00	0.0		115.99

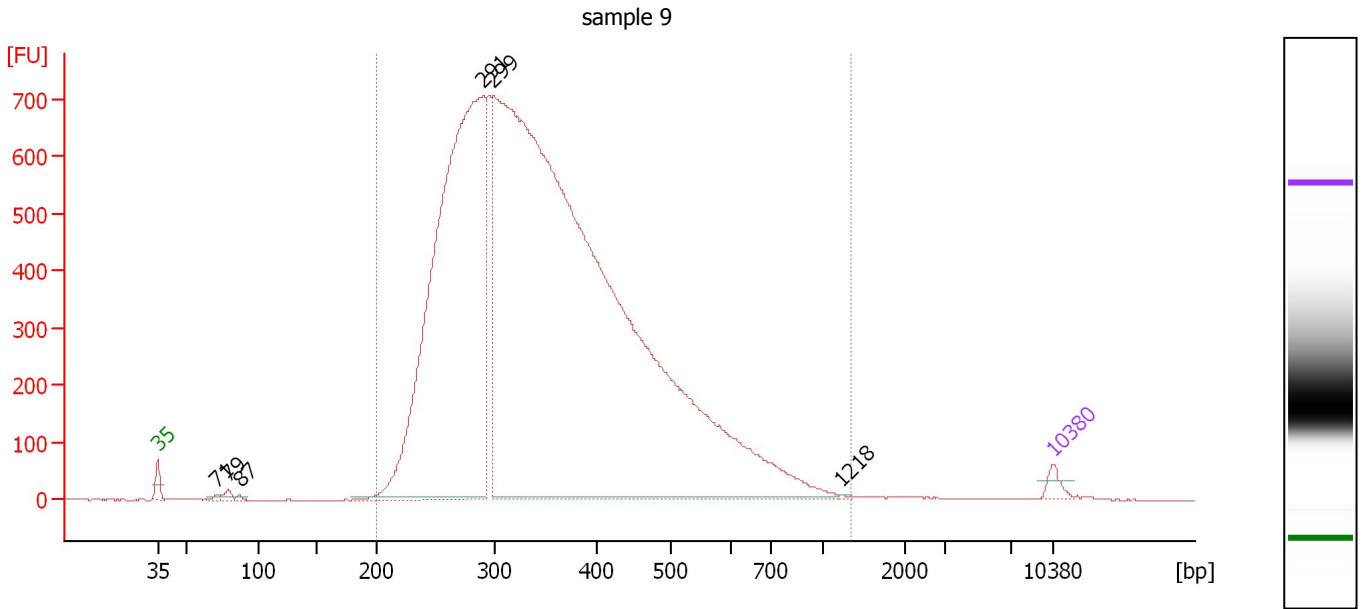
Region table for sample 8 :

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	516	0.65	0.7	2.6	2	43.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 6 Corr. Area 1: 15,744.0
 Noise: 0.3

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	71	35.56	758.2		47.65
3	79	60.79	1,168.7		48.51
4	87	23.99	417.8		49.41
5	291	9,043.05	47,093.4		68.48
6	299	21,180.46	107,243.3		69.24
7	1,218	6.27	7.8		96.34
8	10,380	75.00	10.9	Upper Marker	113.00

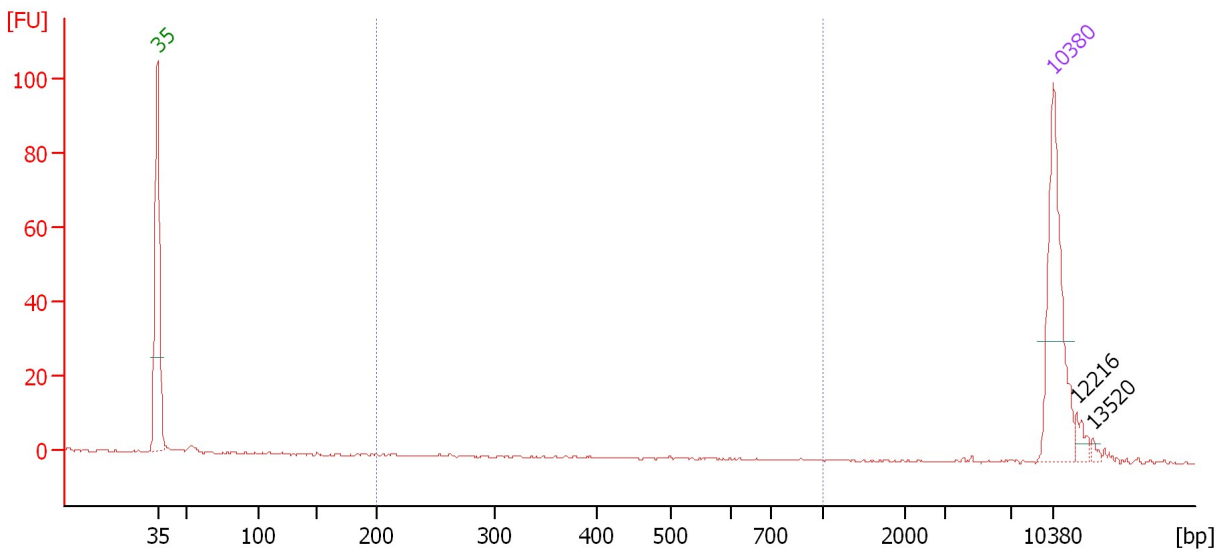
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,341	365	28,333.74	15,744.0	130,244.4	99	31.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 :

Number of peaks found: 2 Corr. Area 1: 1.5
 Noise: 0.3

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00
3	12,216	0.00	0.0		114.79
4	13,520	0.00	0.0		116.07

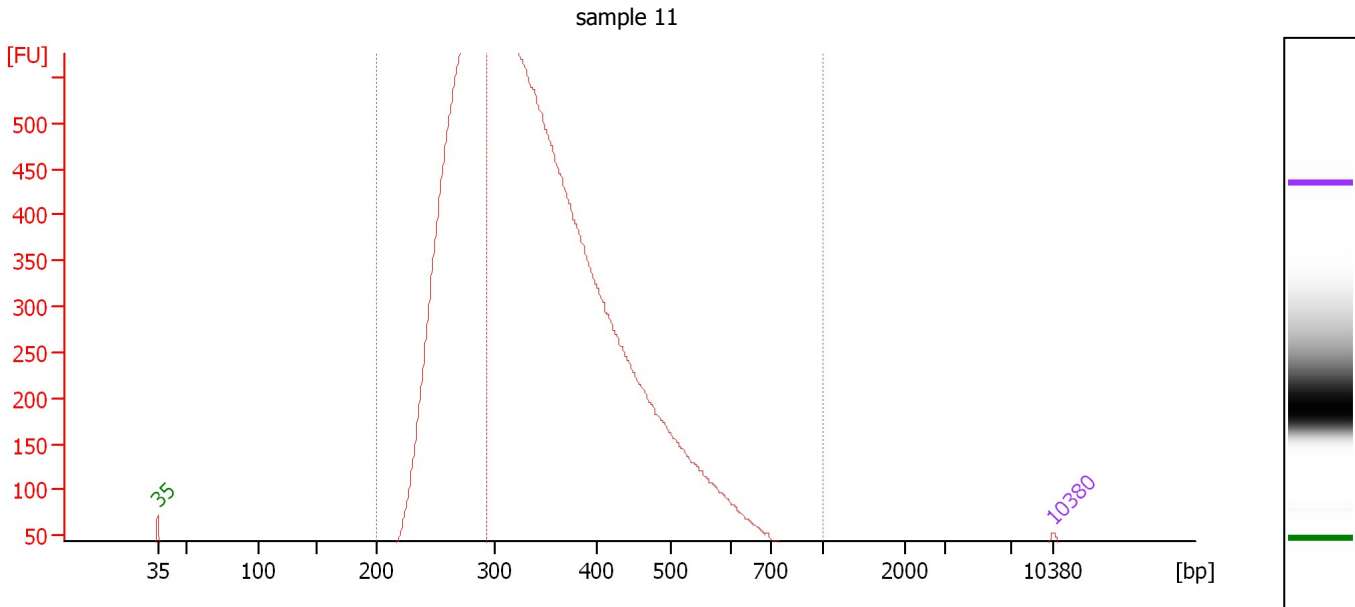
Region table for sample 10 :

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	532	1.47	1.5	5.6	4	41.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
 Modified: 7/27/2018 3:12:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 4 Corr. Area 1: 12,959.1
 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	79	73.12	1,403.2		48.52
3	87	27.68	481.1		49.42
4	291	8,161.52	42,468.1		68.51
5	296	18,738.18	95,961.1		68.93
6	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	359	24,461.29	12,959.1	113,349.8	99	29.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-27\2018-07-27_002.xad

Created: 7/27/2018 2:31:22 PM
Modified: 7/27/2018 3:12:40 PM

Gel Image

