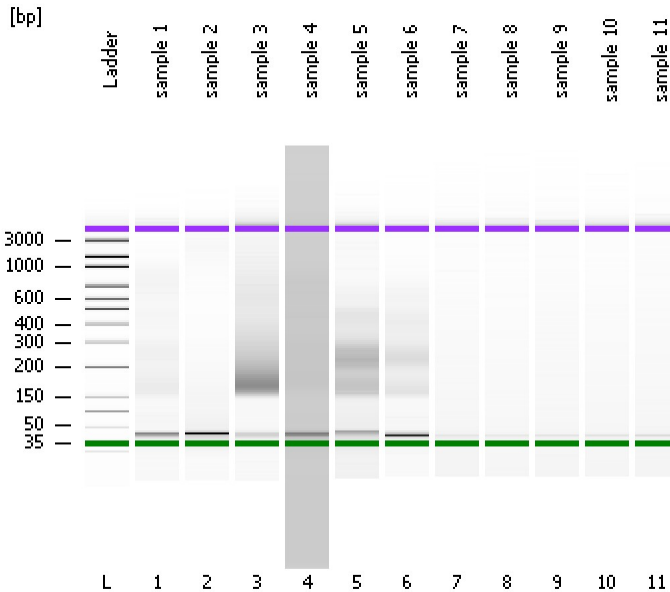


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
Modified: 6/18/2018 3:24:10 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

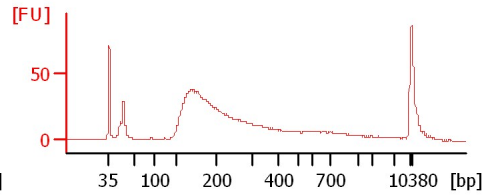
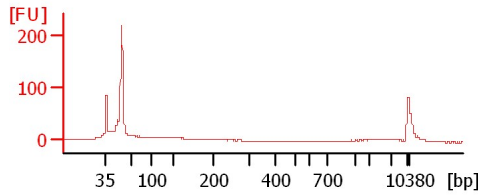
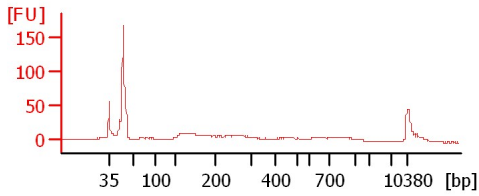
Chip Information:

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

sample 1

sample 2

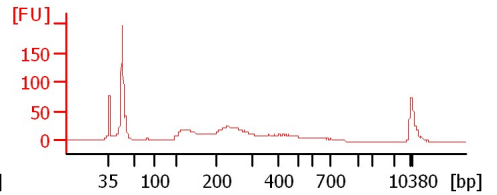
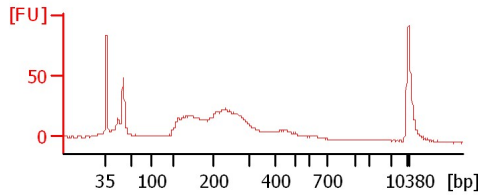
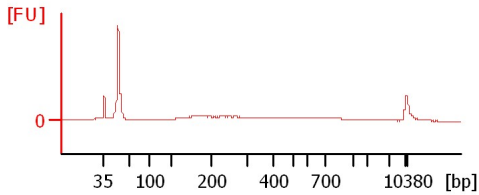
sample 3



sample 4

sample 5

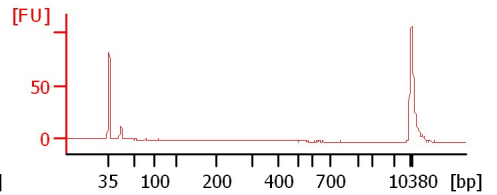
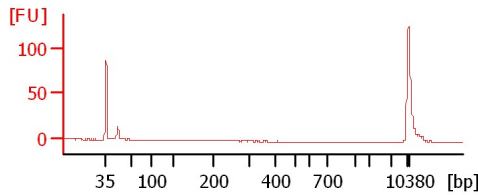
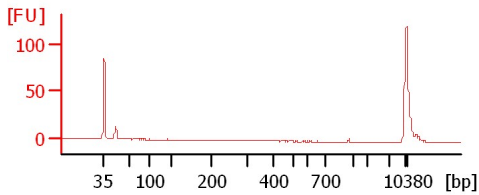
sample 6



sample 7

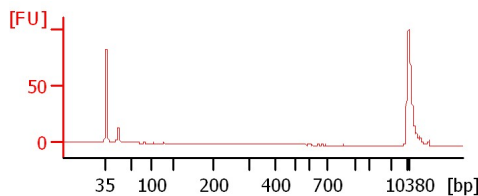
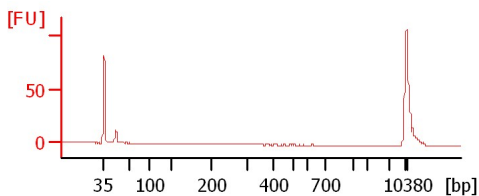
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
Modified: 6/18/2018 3:24:10 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\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
Modified: 6/18/2018 3:24:10 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

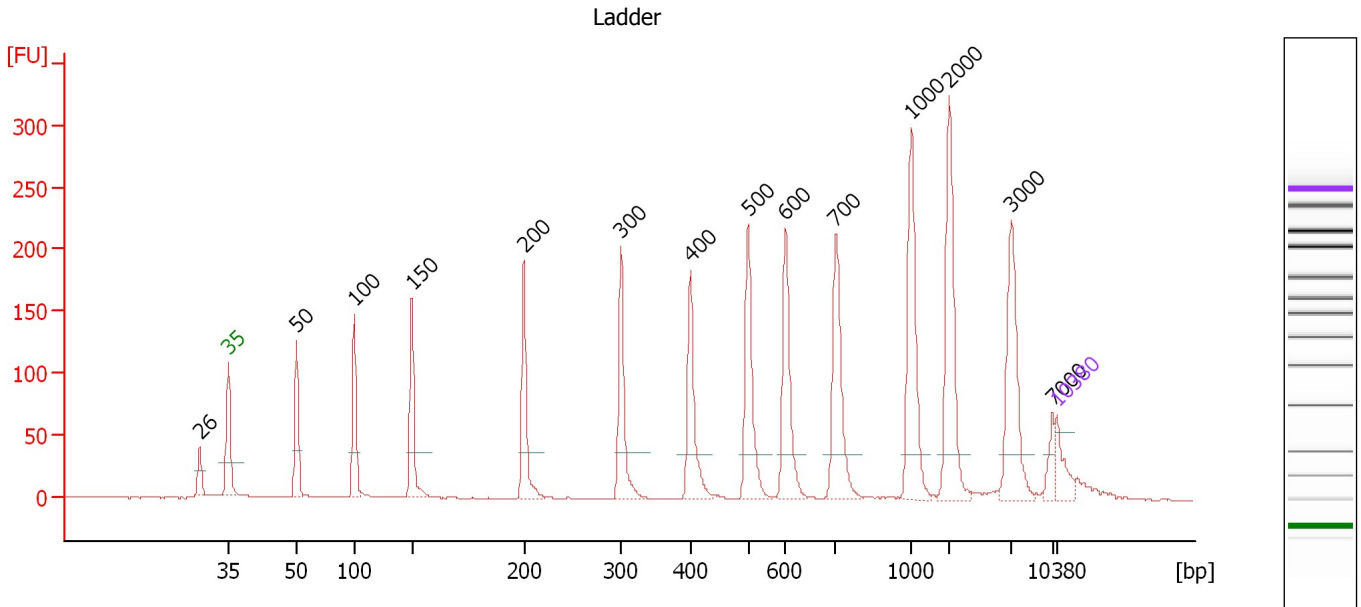
Ladder

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\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

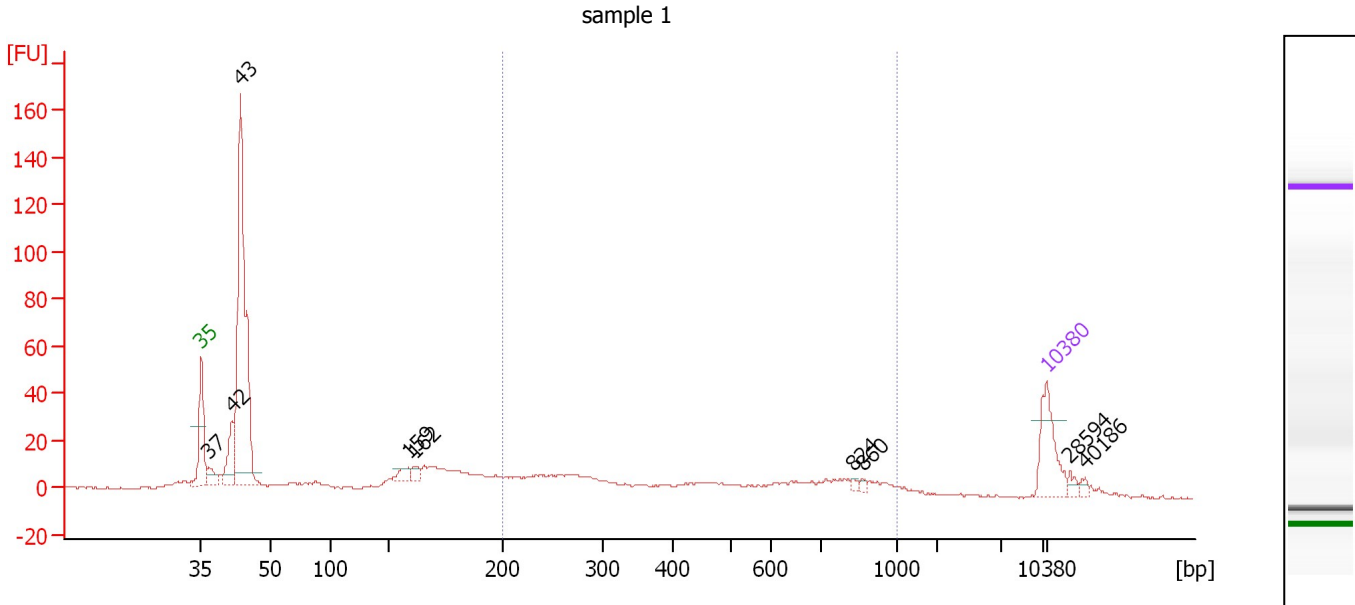
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.57
2	35	125.00	5,411.3	Lower Marker	43.00
3	50	150.00	4,545.5	Ladder Peak	48.77
4	100	150.00	2,272.7	Ladder Peak	53.64
5	150	150.00	1,515.2	Ladder Peak	58.51
6	200	150.00	1,136.4	Ladder Peak	67.97
7	300	150.00	757.6	Ladder Peak	76.17
8	400	150.00	568.2	Ladder Peak	82.03
9	500	150.00	454.5	Ladder Peak	86.90
10	600	150.00	378.8	Ladder Peak	90.10
11	700	150.00	324.7	Ladder Peak	94.34
12	1,000	150.00	227.3	Ladder Peak	100.69
13	2,000	150.00	113.6	Ladder Peak	103.94
14	3,000	150.00	75.8	Ladder Peak	109.17
15	7,000	150.00	32.5	Ladder Peak	112.64
16	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 9 Corr. Area 1: 198.5
 Noise: 0.5

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	37	37.61	1,556.5		43.62
3	42	99.36	3,623.5		45.52
4	43	744.79	25,943.7		46.27
5	159	27.73	264.5		60.18
6	162	17.05	159.8		60.71
7	824	5.91	10.9		96.97
8	860	5.33	9.4		97.72
9	10,380	75.00	10.9	Upper Marker	113.00
10	28,594	0.00	0.0		114.94
11	40,186	0.00	0.0		116.18

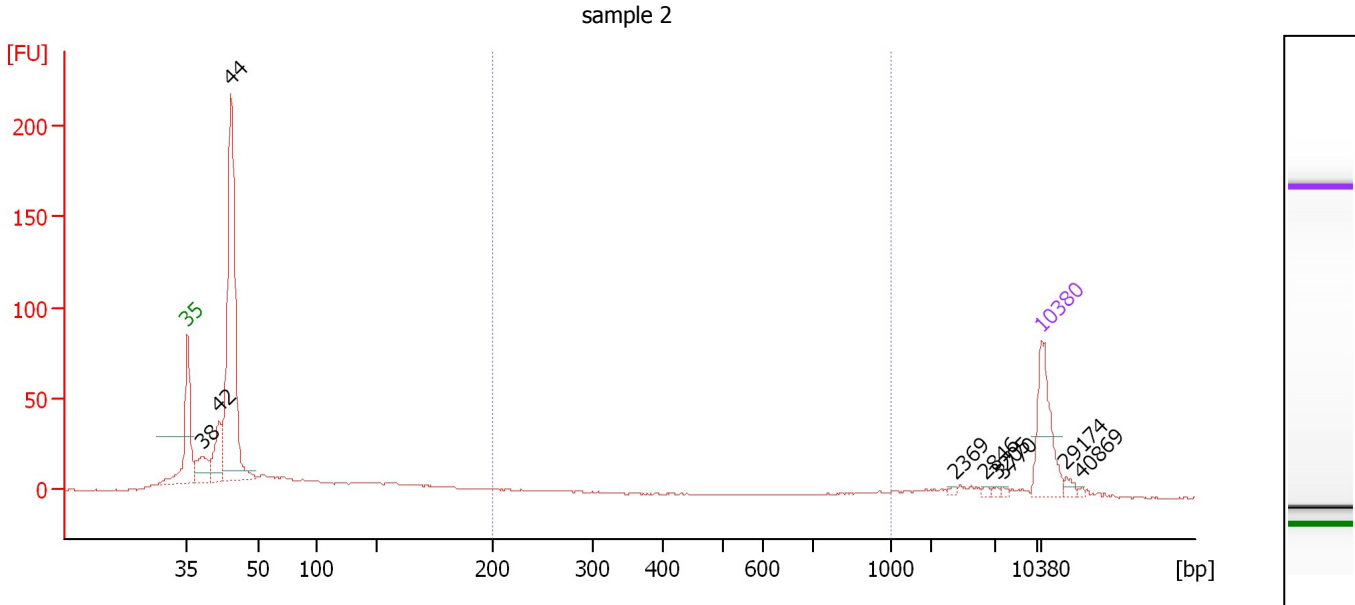
Region table for sample 1 : sample 1

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	490	365.34	198.5	1,566.8	26	47.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 9 Corr. Area 1: 39.7
 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	38	67.96	2,692.3		44.25
3	42	89.07	3,226.0		45.63
4	44	591.18	20,234.3		46.56
5	2,369	2.78	1.8		105.87
6	2,846	2.93	1.6		108.37
7	3,205	2.53	1.2		109.35
8	3,770	2.34	0.9		109.84
9	10,380	75.00	10.9	Upper Marker	113.00
10	29,174	0.00	0.0		115.01
11	40,869	0.00	0.0		116.25

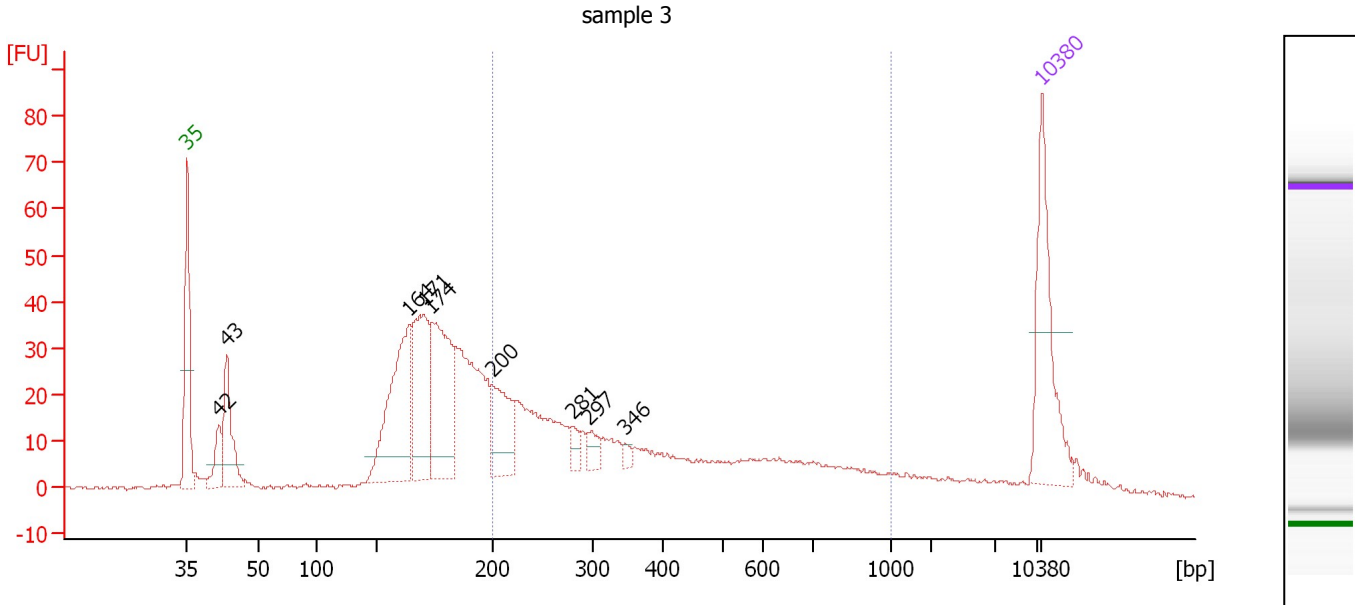
Region table for sample 2 : sample 2

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	501	45.98	39.7	213.2	5	56.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 9 Corr. Area 1: 407.3
 Noise: 0.5

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	42	32.96	1,197.7		45.58
3	43	79.40	2,775.7		46.21
4	164	159.73	1,475.2		61.17
5	171	122.46	1,088.2		62.39
6	174	135.77	1,183.3		63.02
7	200	68.87	521.1		67.99
8	281	12.64	68.3		74.59
9	297	12.43	63.5		75.90
10	346	5.18	22.7		78.88
11	10,380	75.00	10.9	Upper Marker	113.00

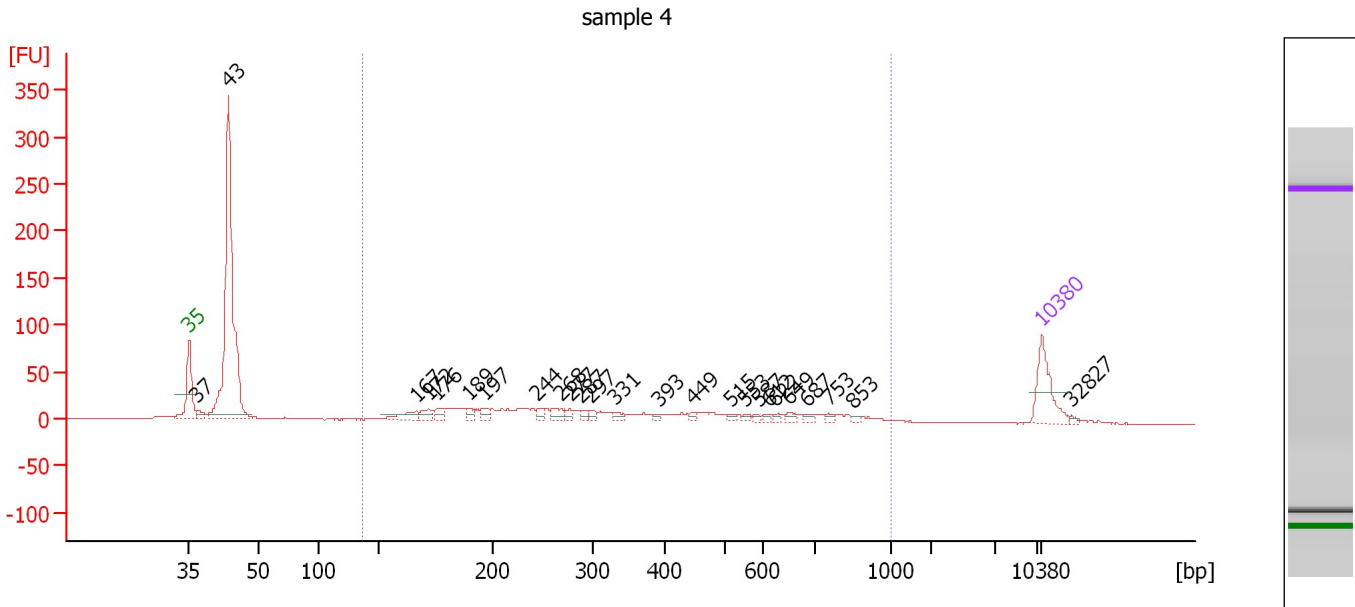
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	406	473.03	407.3	2,294.6	40	49.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 25 Corr. Area 1: 535.9
 Noise: 0.4

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	37	19.10	789.2		43.64
3	43	866.18	30,252.4		46.22
4	167	35.63	324.0		61.65
5	172	25.11	221.3		62.66
6	176	22.23	191.8		63.36
7	189	17.63	141.3		65.89
8	197	15.75	121.4		67.32
9	244	14.46	89.7		71.60
10	268	22.81	129.1		73.53
11	277	11.38	62.3		74.27
12	287	11.80	62.2		75.14
13	297	9.32	47.6		75.93
14	331	12.60	57.6		78.00
15	393	5.97	23.0		81.64
16	449	6.52	22.0		84.40
17	515	7.32	21.5		87.39
18	553	6.14	16.8		88.59
19	587	4.94	12.7		89.70
20	612	5.75	14.2		90.62
21	622	5.99	14.6		91.03
22	649	8.86	20.7		92.18
23	687	7.29	16.1		93.80
24	753	6.81	13.7		95.45
25	853	4.17	7.4		97.57

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	32,827	0.00	0.0		115.39

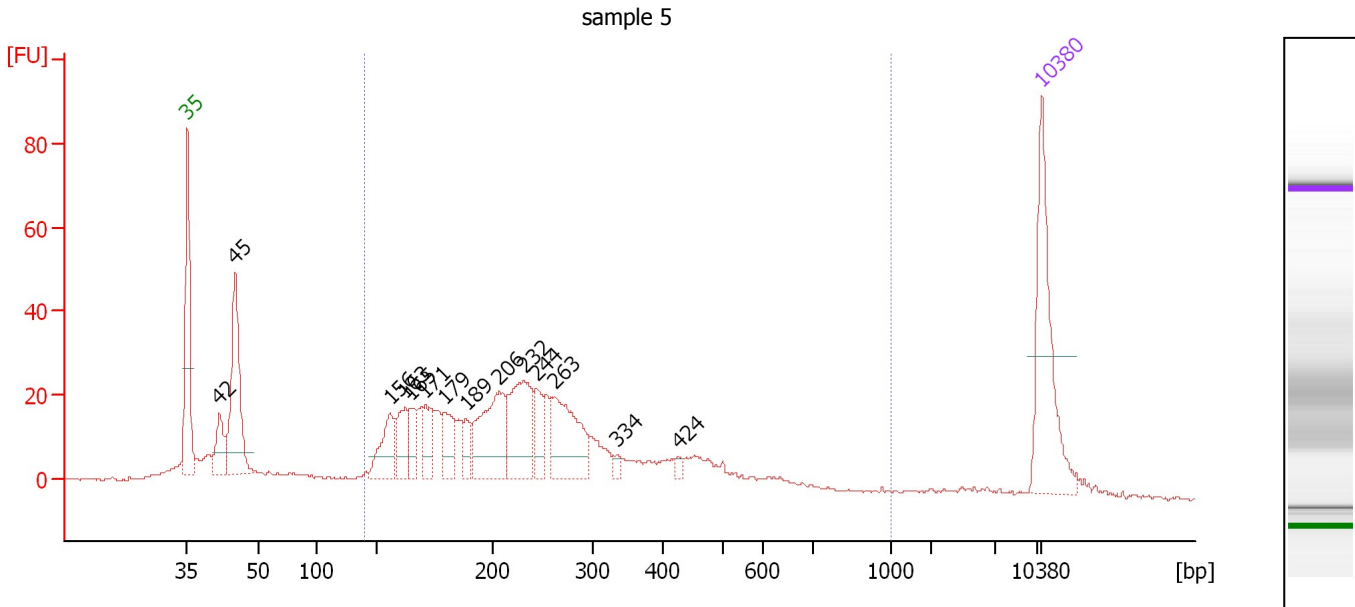
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
136	1,000	387	612.83	535.9	3,525.6	45	55.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 14 Corr. Area 1: 639.6
 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	42	35.93	1,300.7		45.63
3	45	124.05	4,162.9		46.90
4	156	45.56	442.3		59.65
5	163	35.95	335.1		60.88
6	165	23.70	217.6		61.35
7	171	31.60	280.0		62.48
8	179	31.43	265.4		64.08
9	189	16.30	130.9		65.82
10	206	85.85	630.2		68.50
11	232	81.96	536.1		70.57
12	244	27.37	169.8		71.60
13	263	77.11	443.9		73.15
14	334	4.77	21.6		78.19
15	424	4.18	14.9		83.22
16	10,380	75.00	10.9	Upper Marker	113.00

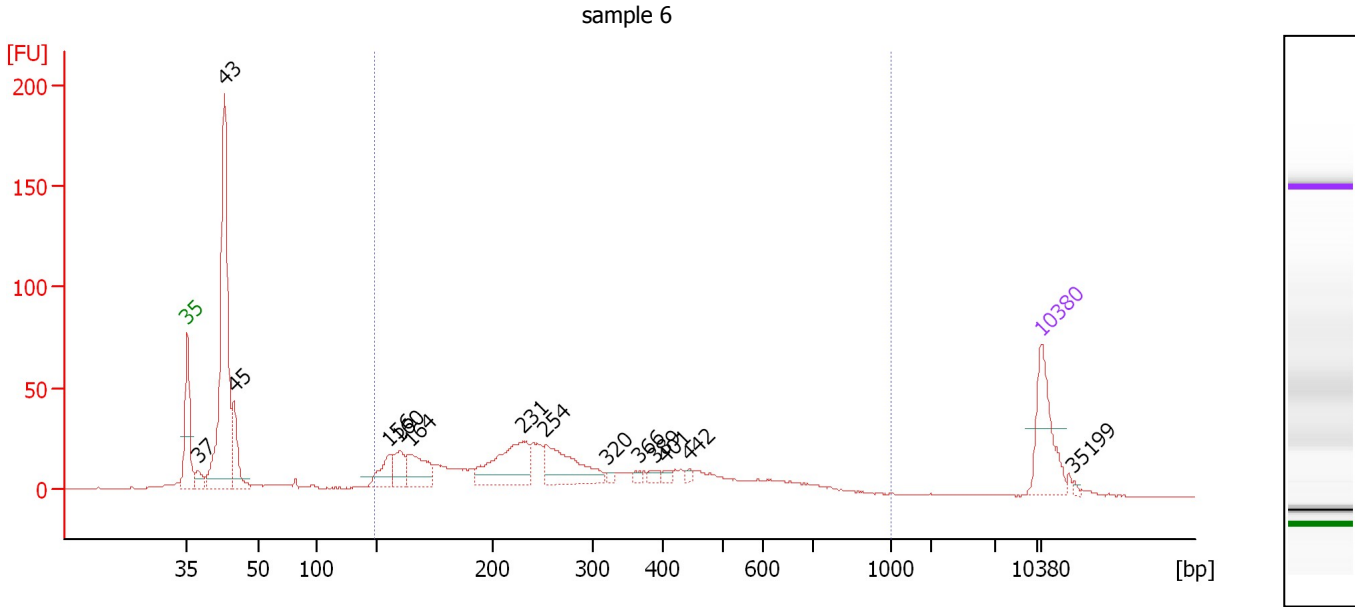
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
140	1,000	270	743.56	639.6	5,098.8	75	47.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 14 Corr. Area 1: 688.1
 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	37	27.34	1,111.8		43.87
3	43	514.89	18,191.1		46.03
4	45	84.87	2,864.6		46.80
5	156	50.01	487.0		59.56
6	160	45.77	434.4		60.33
7	164	75.32	693.8		61.25
8	231	137.43	902.6		70.49
9	254	110.76	661.8		72.37
10	320	6.04	28.5		77.37
11	366	7.37	30.5		80.07
12	389	8.79	34.3		81.37
13	401	6.76	25.5		82.09
14	442	4.92	16.9		84.07
15	10,380	75.00	10.9	Upper Marker	113.00
16	35,199	0.00	0.0		115.65

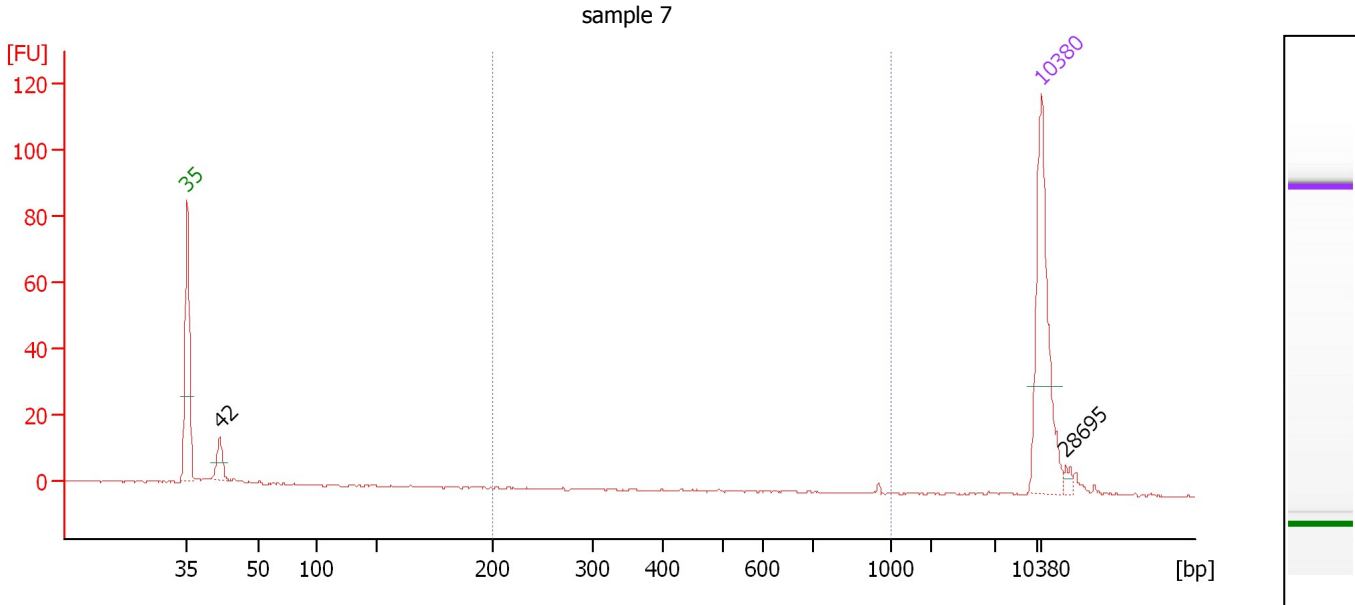
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
148	1,000	316	900.94	688.1	5,754.0	58	51.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 2 Corr. Area 1: 0.6
 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	42	21.52	778.9		45.64
3	10,380	75.00	10.9	Upper Marker	113.00
4	28,695	0.00	0.0		114.95

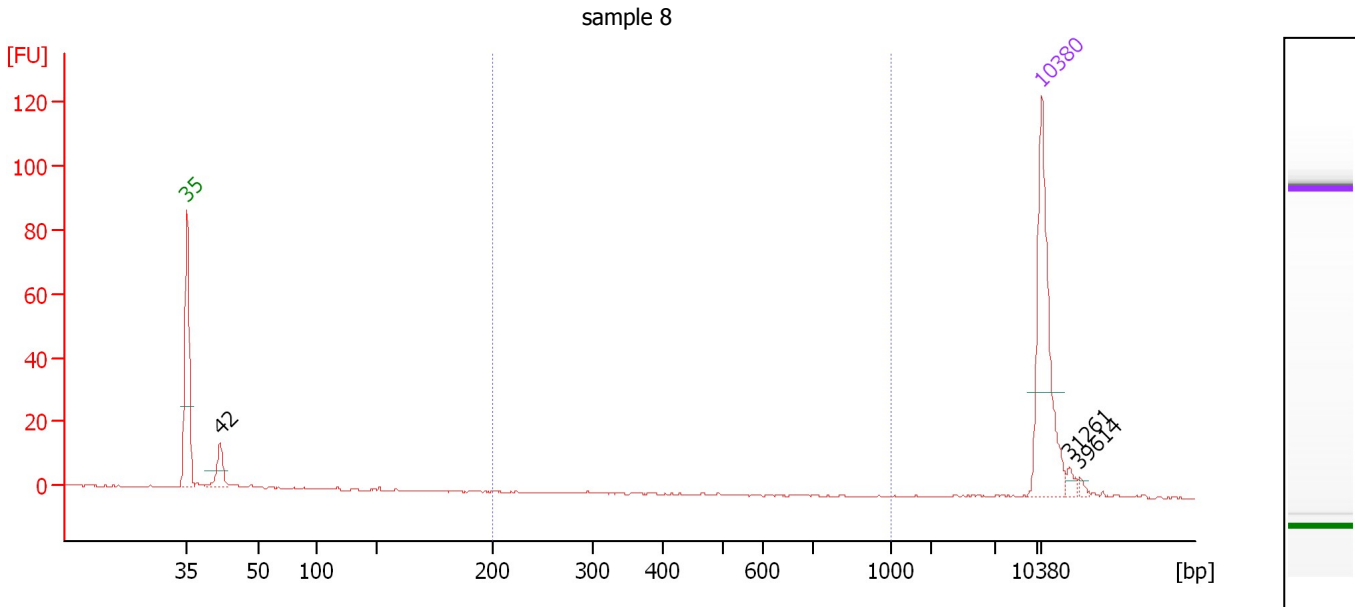
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	932	0.45	0.6	0.7	2	9.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 3 Corr. Area 1: 0.0
 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	42	25.53	922.0		45.67
3	10,380	75.00	10.9	Upper Marker	113.00
4	31,261	0.00	0.0		115.23
5	39,614	0.00	0.0		116.12

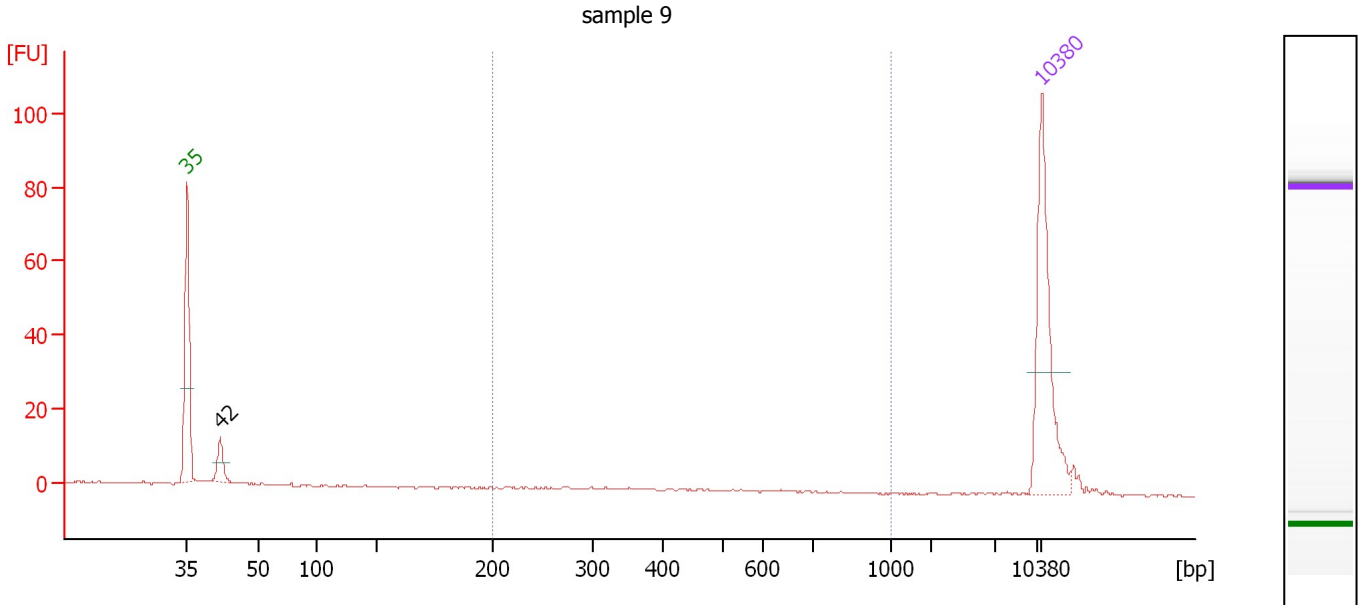
Region table for sample 8 : sample 8

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 1 Corr. Area 1: 1.3
 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	42	20.50	739.4		45.70
3	10,380	75.00	10.9	Upper Marker	113.00

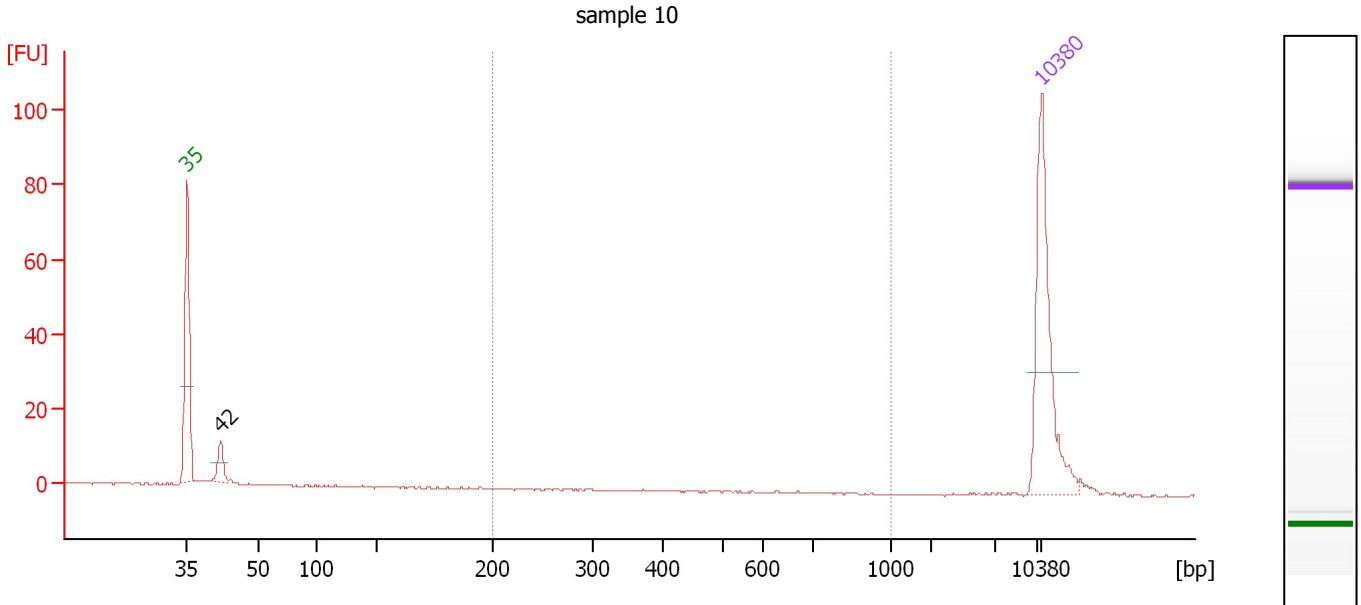
Region table for sample 9 : sample 9

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	379	1.36	1.3	6.0	4	29.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 1 Corr. Area 1: 0.2
 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	42	17.50	631.0		45.70
3	10,380	75.00	10.9	Upper Marker	113.00

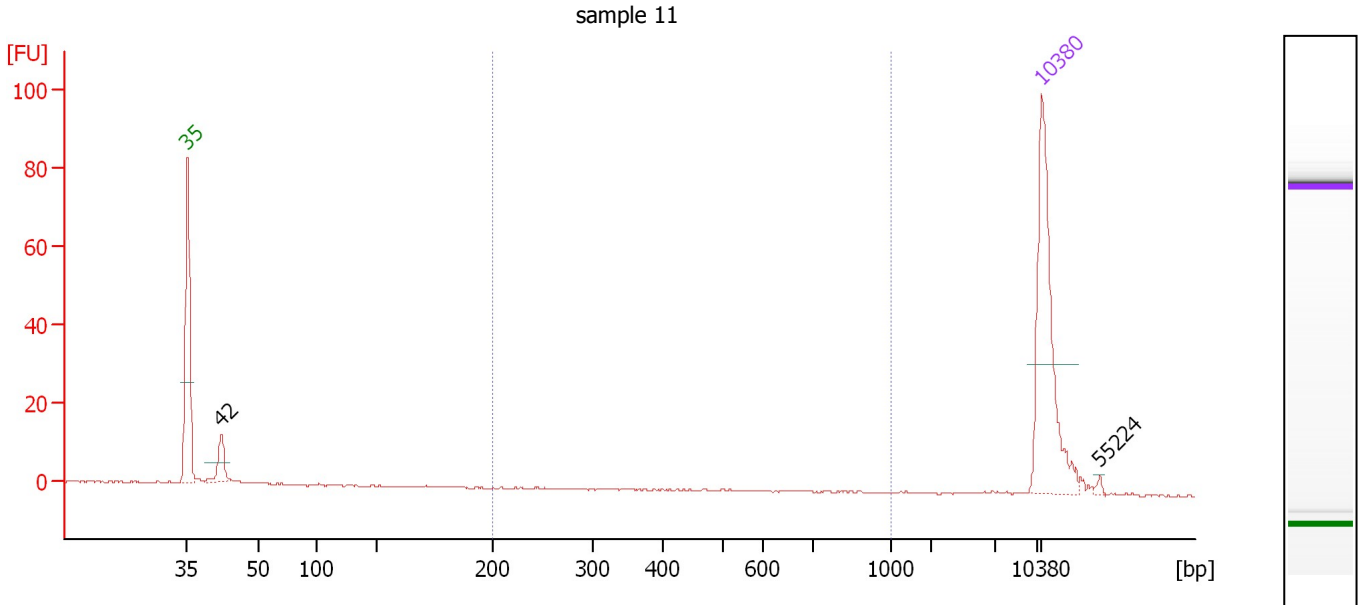
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	544	0.15	0.2	0.4	1	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
 Modified: 6/18/2018 3:24:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 2 Corr. Area 1: 0.3
 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	42	21.46	770.4		45.77
3	10,380	75.00	10.9	Upper Marker	113.00
4	55,224	0.00	0.0		117.78

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	606	0.23	0.3	0.6	1	27.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-18\2018-06-18_001.xad

Created: 6/18/2018 2:42:51 PM
Modified: 6/18/2018 3:24:10 PM

Gel Image

