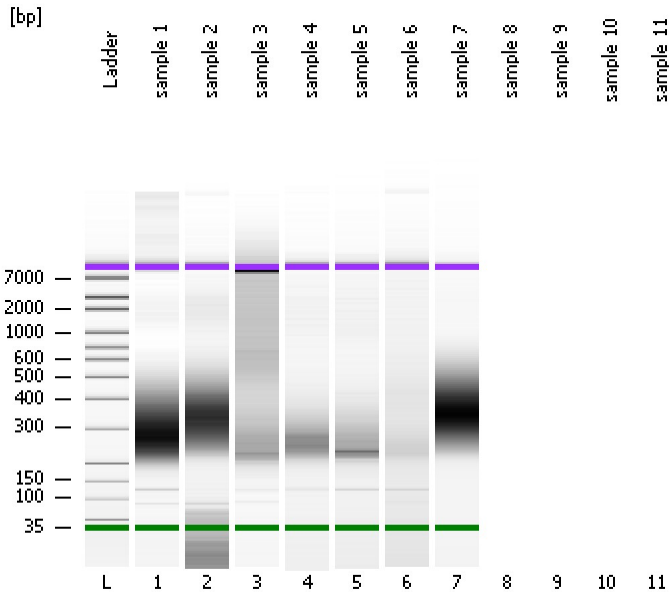


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
Modified: 3/15/2018 10:14:16 AM

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

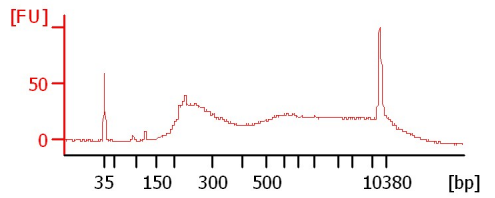
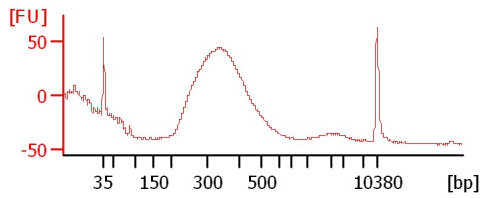
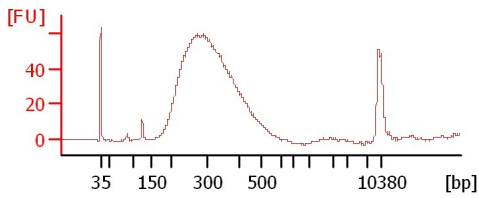
Chip Information:

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

sample 1

sample 2

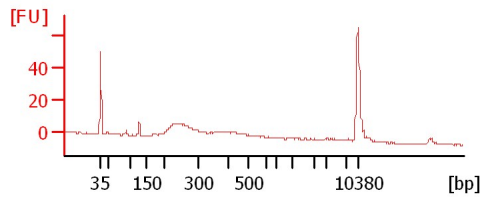
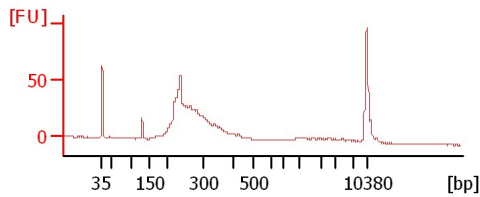
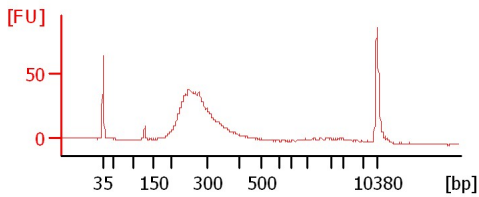
sample 3



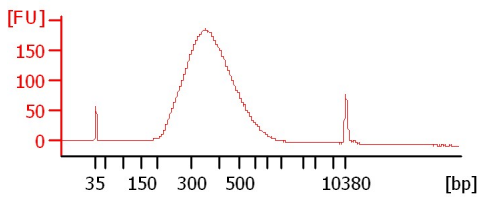
sample 4

sample 5

sample 6



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
 Modified: 3/15/2018 10:14:16 AM

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\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
Modified: 3/15/2018 10:14:16 AM

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

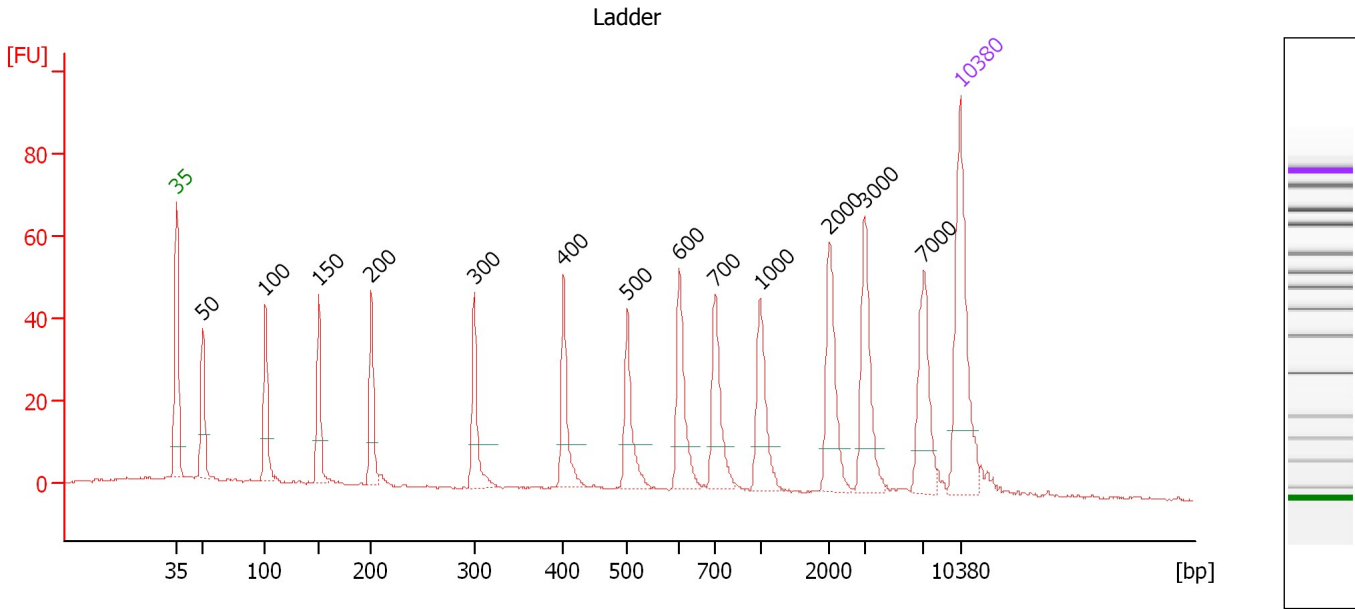
Ladder

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\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

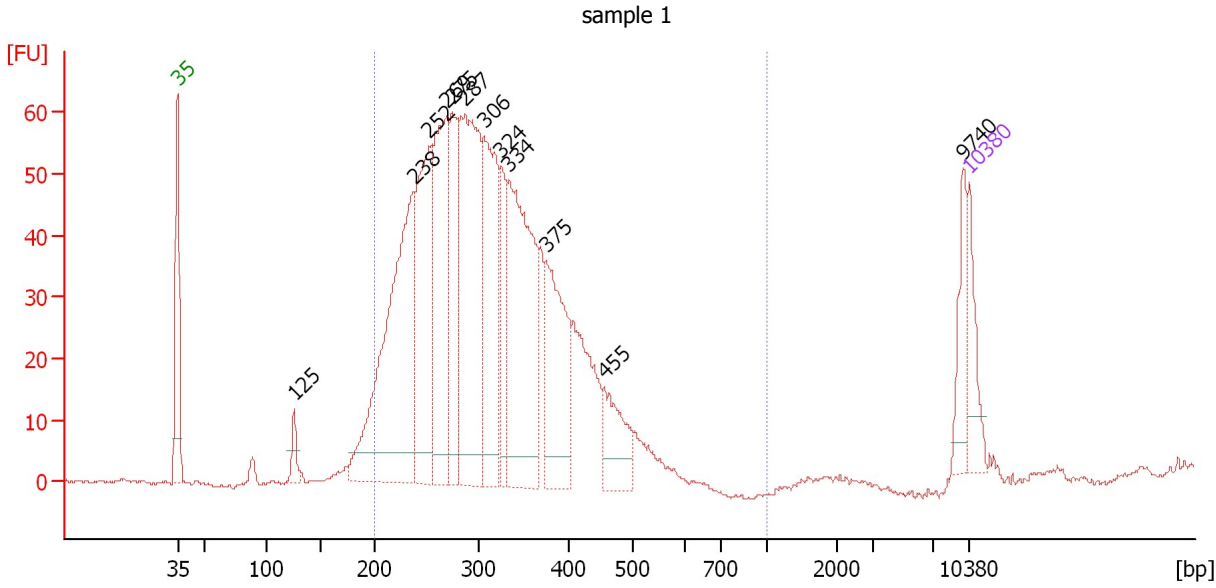
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.71
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.29
9	600	150.00	378.8	Ladder Peak	87.90
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.14
12	2,000	150.00	113.6	Ladder Peak	101.29
13	3,000	150.00	75.8	Ladder Peak	104.48
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 12 Corr. Area 1: 1,291.7
 Noise: 0.2

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	125	48.75	591.4		53.32
3	238	850.26	5,422.5		63.88
4	252	473.37	2,841.1		65.25
5	269	506.19	2,847.1		66.80
6	275	273.45	1,506.5		67.32
7	287	643.87	3,395.2		68.45
8	306	449.33	2,224.1		70.10
9	324	157.99	737.7		71.57
10	334	612.28	2,777.9		72.32
11	375	325.50	1,315.7		75.57
12	455	144.76	482.1		80.71
13	9,740	90.91	14.1		112.39
14	10,380	75.00	10.9	Upper Marker	113.00

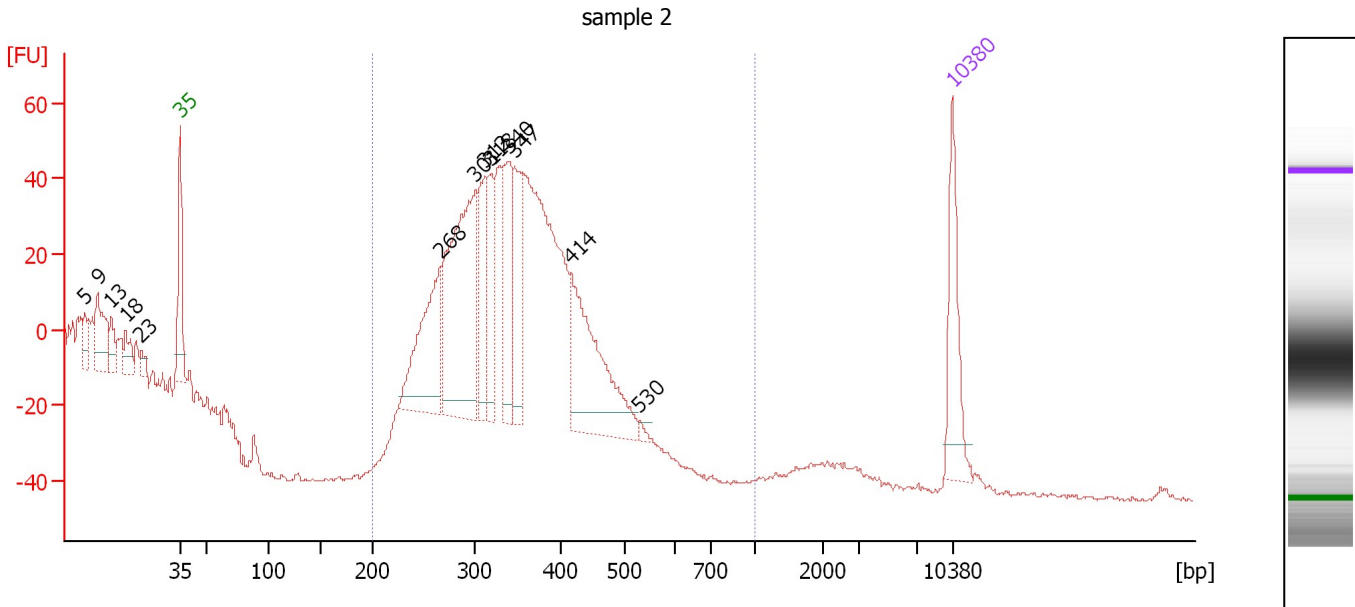
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	314	4,596.33	1,291.7	23,610.4	94	22.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
 Modified: 3/15/2018 10:14:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 13 Corr. Area 1: 1,059.7
 Noise: 0.6

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	5	0.00	0.0		34.35
2	9	0.00	0.0		35.51
3	13	0.00	0.0		36.76
4	18	0.00	0.0		38.07
5	23	0.00	0.0		39.47
6	35	125.00	5,411.3	Lower Marker	43.00
7	268	181.17	1,025.9		66.64
8	301	328.83	1,652.8		69.73
9	312	102.03	494.9		70.60
10	318	79.09	376.3		71.09
11	340	121.96	543.9		72.78
12	347	94.10	410.8		73.36
13	414	205.63	752.1		78.39
14	530	5.33	15.2		84.67
15	10,380	75.00	10.9	Upper Marker	113.00

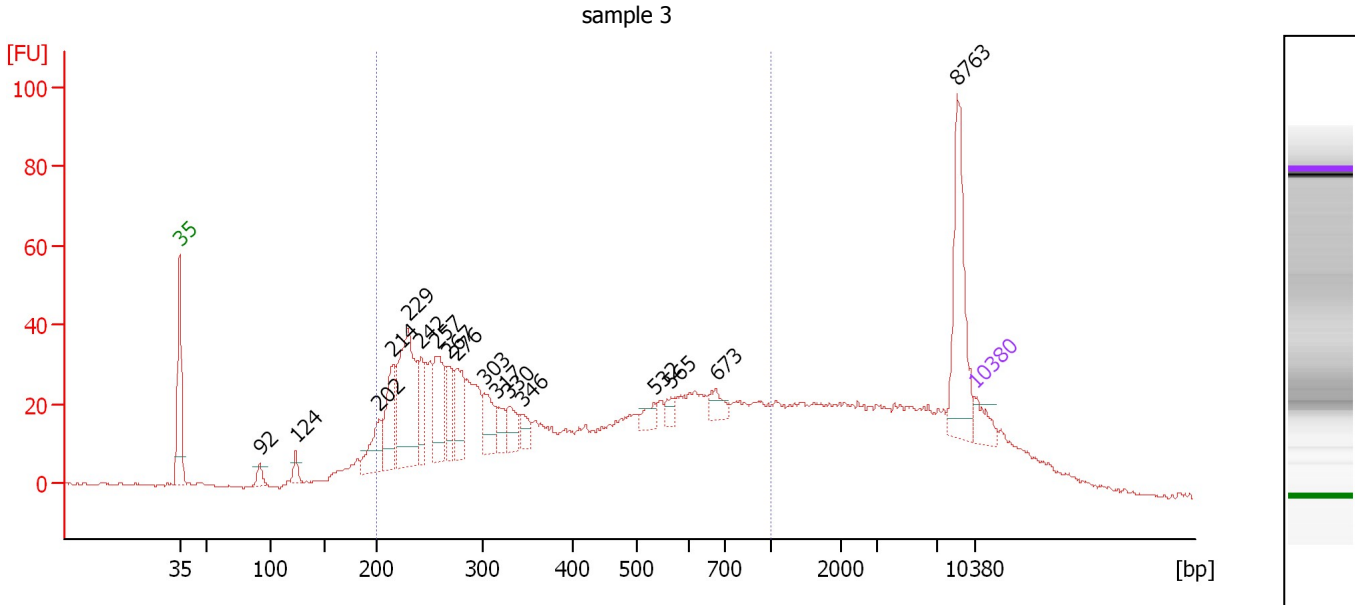
Region table for sample 2 : sample 2

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	345	1,395.49	1,059.7	6,359.4	94	16.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 17 Corr. Area 1: 1,084.7
 Noise: 0.4

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	92	69.88	1,147.8		50.09
3	124	70.55	862.2		53.23
4	202	247.07	1,853.9		60.61
5	214	307.28	2,173.7		61.73
6	229	831.28	5,500.1		63.09
7	242	226.89	1,421.9		64.27
8	257	393.08	2,321.2		65.63
9	267	205.19	1,163.0		66.62
10	276	267.87	1,470.5		67.41
11	303	208.52	1,042.8		69.85
12	317	104.29	498.3		70.98
13	330	121.68	558.5		72.01
14	346	77.86	340.9		73.28
15	532	70.14	199.6		84.78
16	565	50.06	134.3		86.29
17	673	78.66	177.1		90.23
18	8,763	468.26	81.0		111.45
19	10,380	75.00	10.9	Upper Marker	113.00

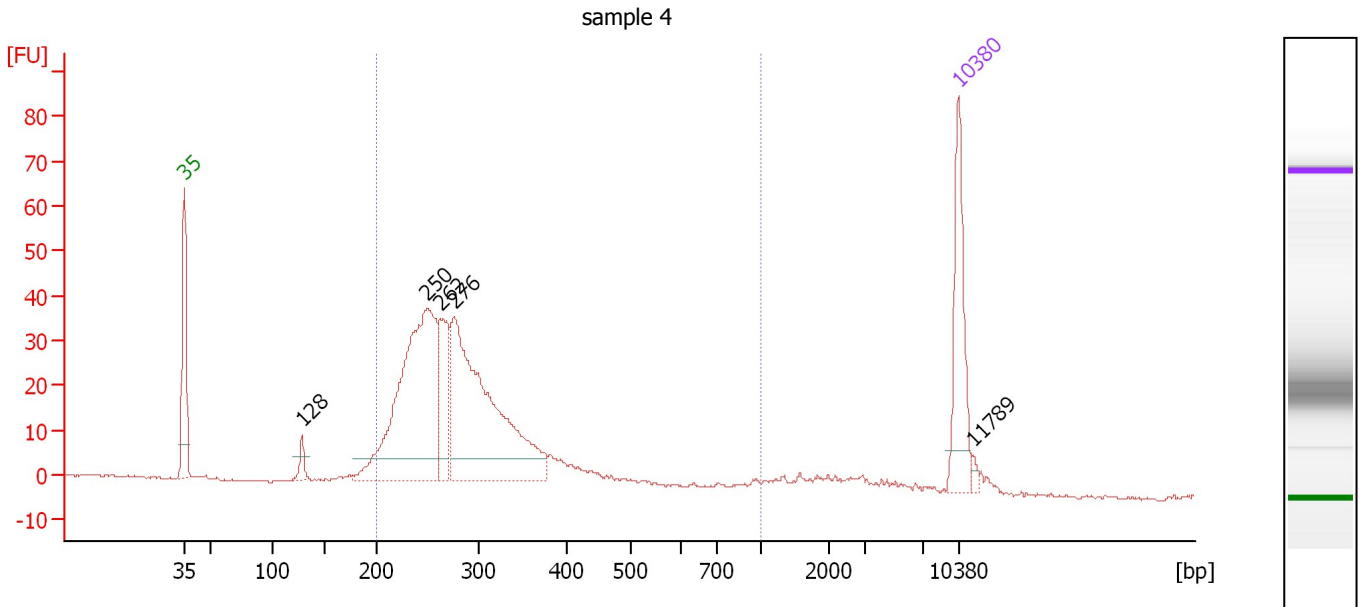
Region table for sample 3 : sample 3

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	440	8,390.78	1,084.7	37,967.5	64	46.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
 Modified: 3/15/2018 10:14:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 5 Corr. Area 1: 558.8
 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	128	17.01	200.7		53.65
3	250	367.16	2,229.1		64.98
4	262	87.60	507.3		66.09
5	276	366.86	2,015.5		67.39
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,789	0.00	0.0		114.35

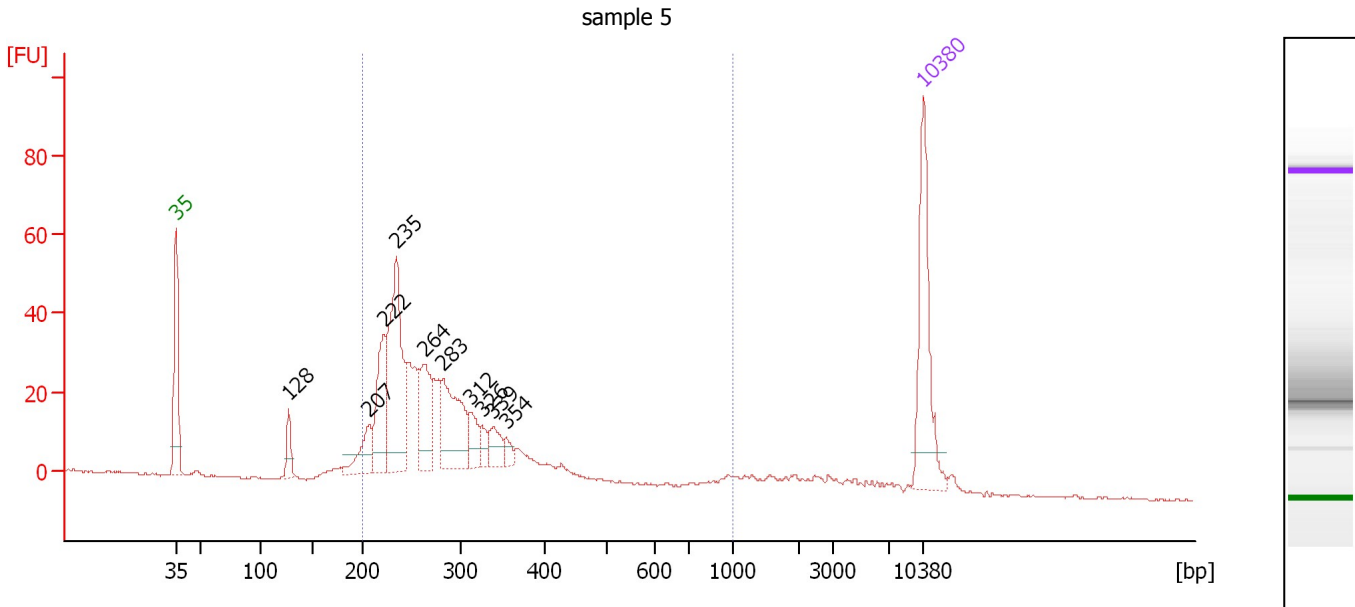
Region table for sample 4 : sample 4

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	291	865.59	558.8	4,765.1	90	28.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
 Modified: 3/15/2018 10:14:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 10 Corr. Area 1: 549.3
 Noise: 0.3

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	128	22.15	263.0		53.58
3	207	37.31	273.1		61.07
4	222	77.21	526.4		62.47
5	235	150.38	968.4		63.67
6	264	62.52	359.4		66.27
7	283	87.83	470.1		68.06
8	312	23.38	113.6		70.56
9	326	12.44	57.9		71.66
10	339	19.98	89.2		72.76
11	354	9.05	38.7		73.91
12	10,380	75.00	10.9	Upper Marker	113.00

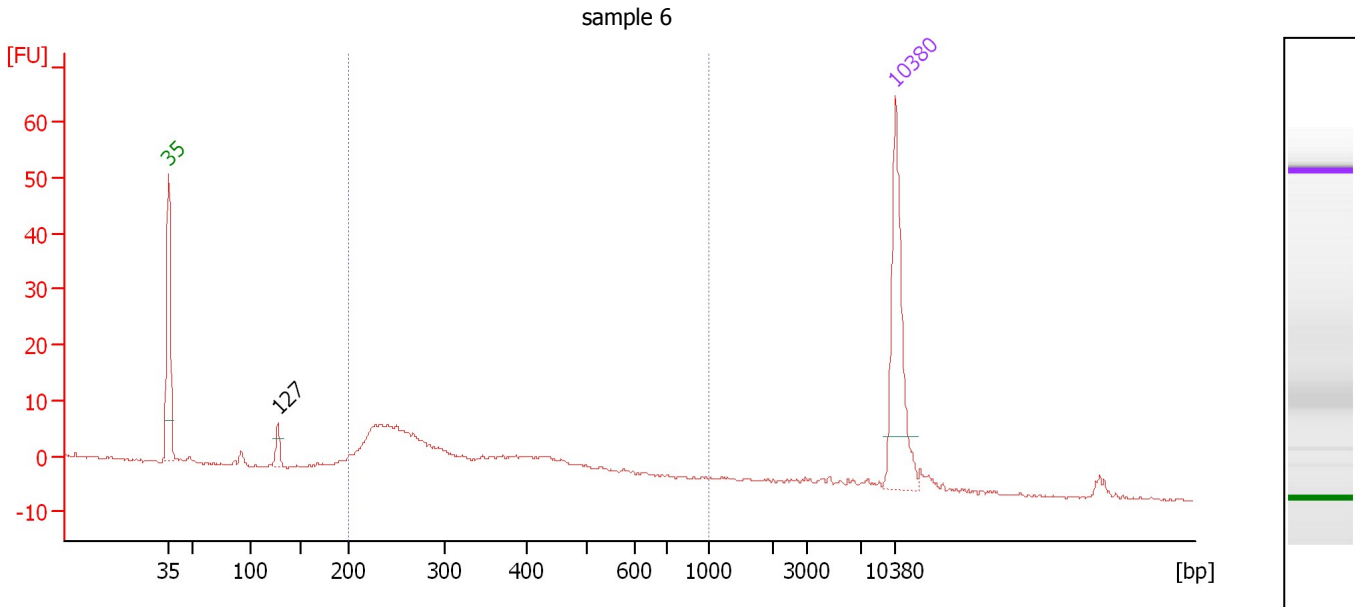
Region table for sample 5 : sample 5

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	292	694.89	549.3	3,893.6	88	34.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
 Modified: 3/15/2018 10:14:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 1 Corr. Area 1: 135.6
 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	127	14.19	169.2		53.53
3	10,380	75.00	10.9	Upper Marker	113.00

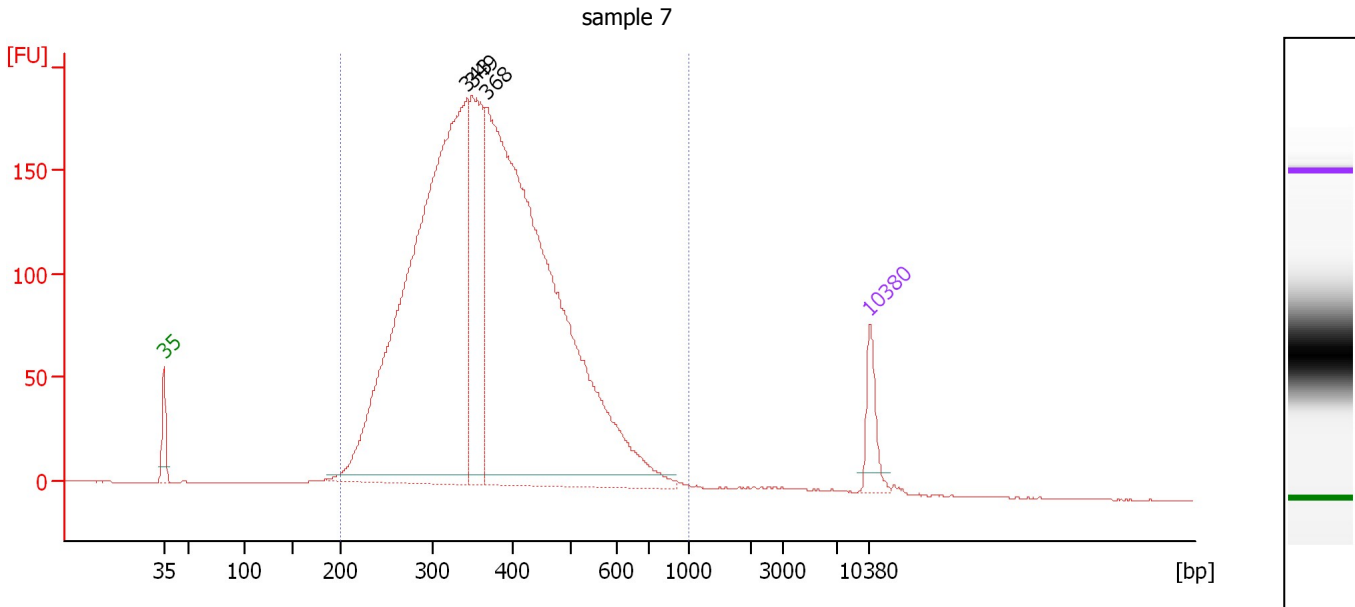
Region table for sample 6 : sample 6

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	340	226.93	135.6	1,169.4	83	37.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

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 Modified: 3/15/2018 10:14:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 3 Corr. Area 1: 4,009.7
 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	343	2,459.85	10,860.3		73.05
3	349	539.79	2,342.3		73.53
4	368	2,720.70	11,208.0		75.01
5	10,380	75.00	10.9	Upper Marker	113.00

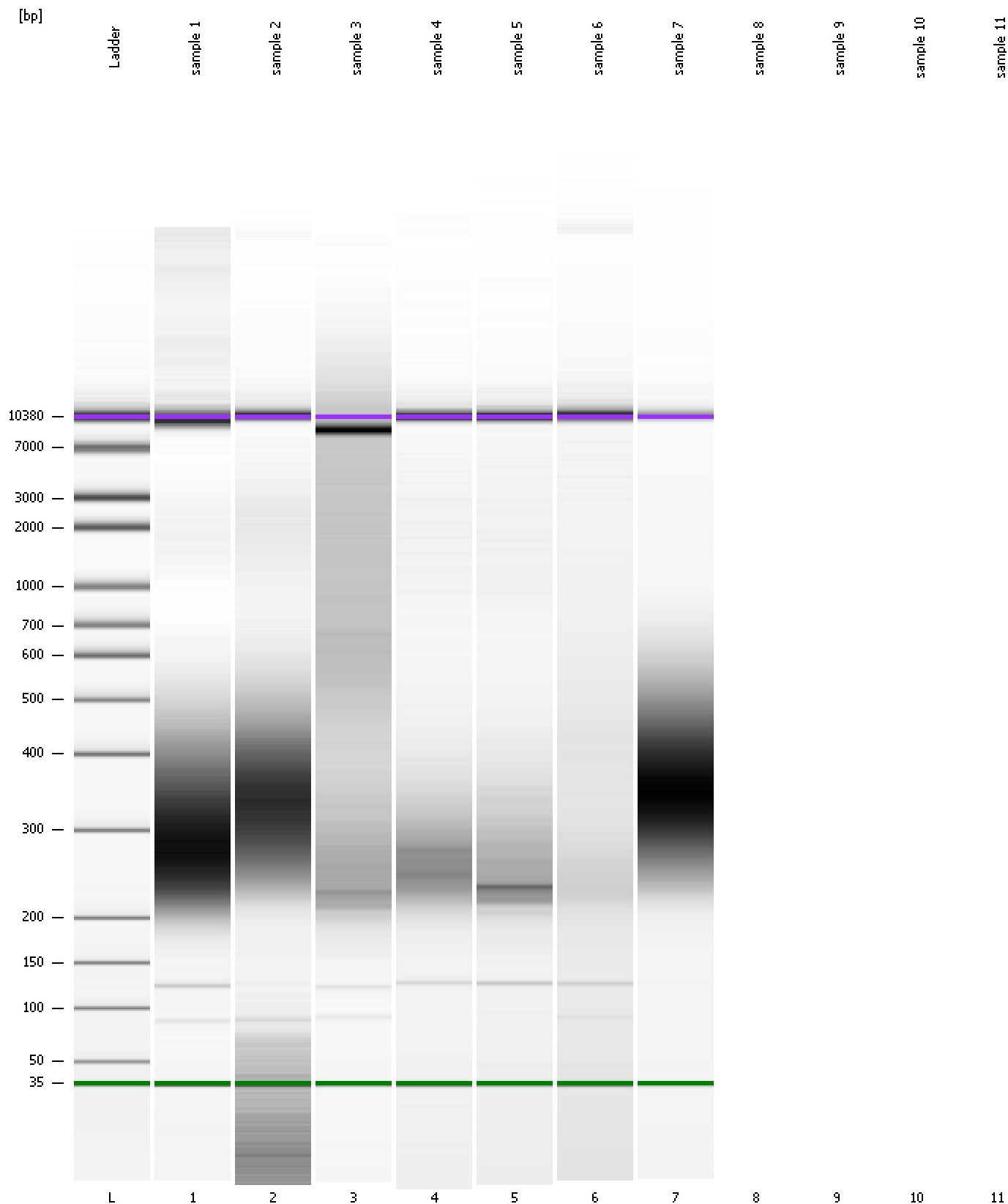
Region table for sample 7 : sample 7

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	380	5,864.99	4,009.7	25,459.6	98	26.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
Modified: 3/15/2018 10:14:16 AM

Gel Image

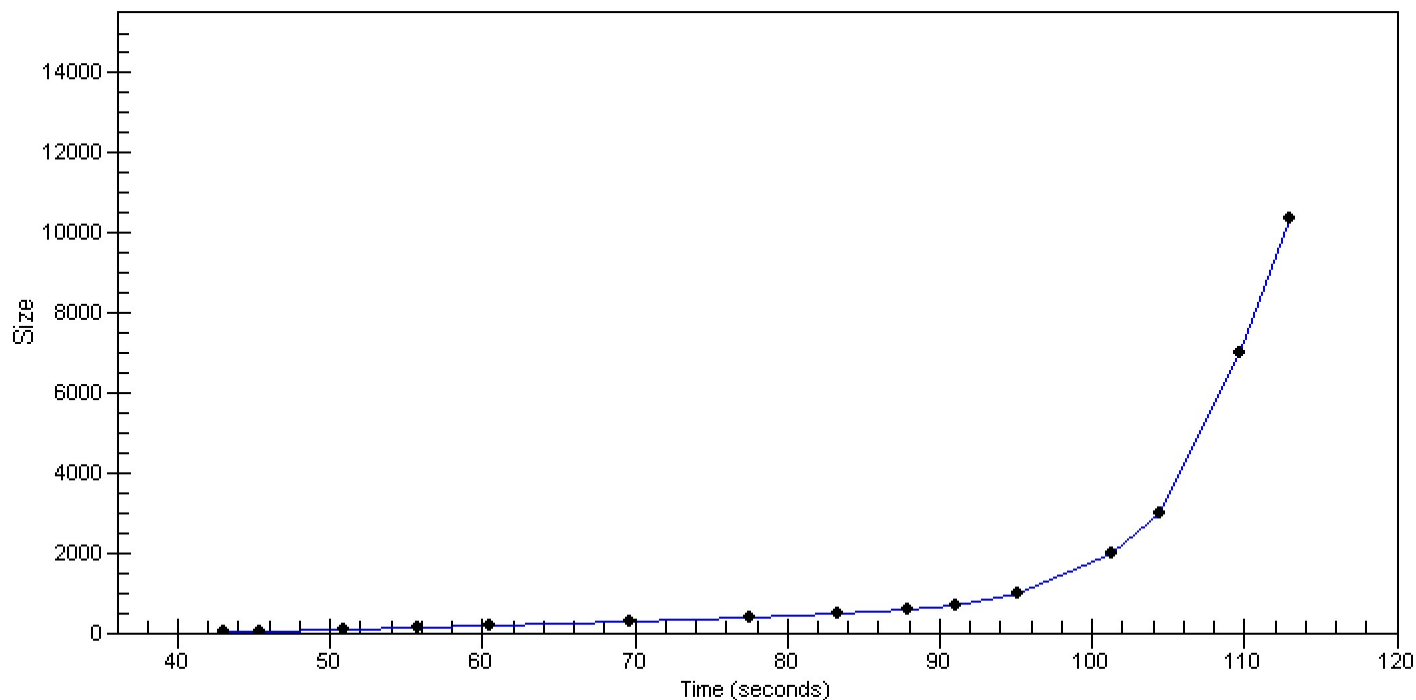


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
Modified: 3/15/2018 10:14:16 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-15\2018-03-15_001.xad

Created: 3/15/2018 9:44:20 AM
Modified: 3/15/2018 10:14:16 AM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.