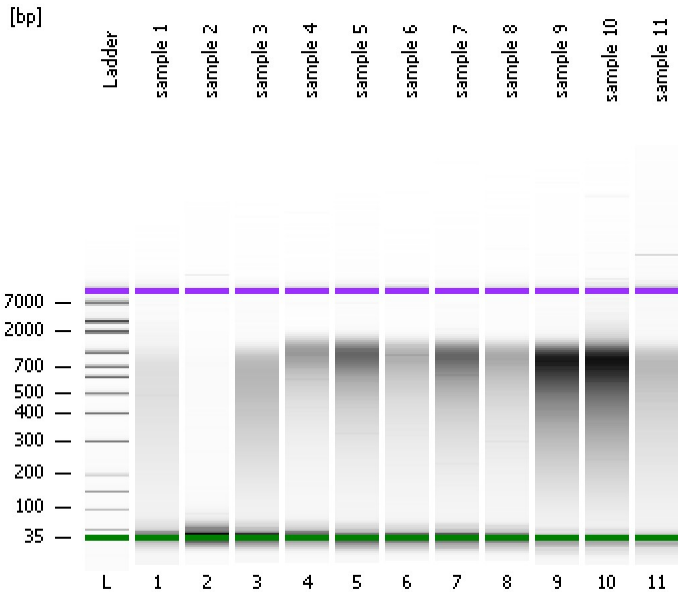


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 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

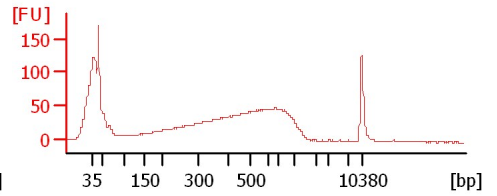
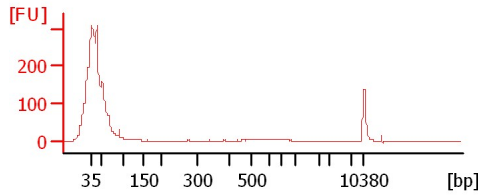
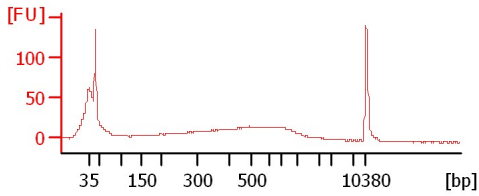
#### Chip Information:

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

sample 1

sample 2

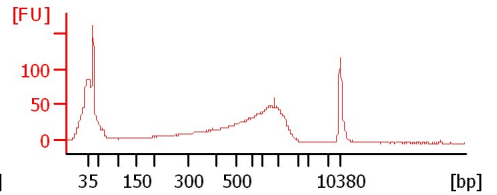
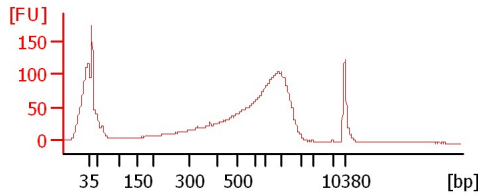
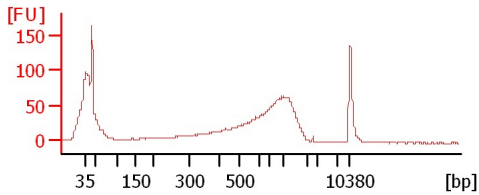
sample 3



sample 4

sample 5

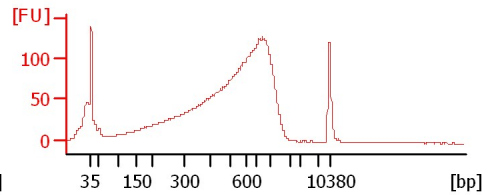
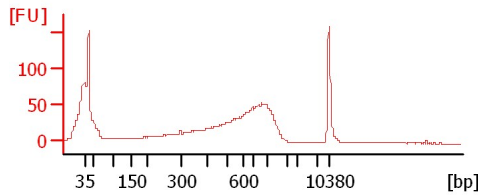
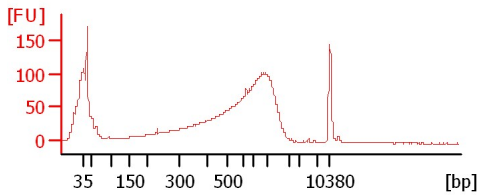
sample 6



sample 7

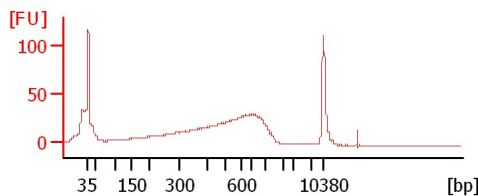
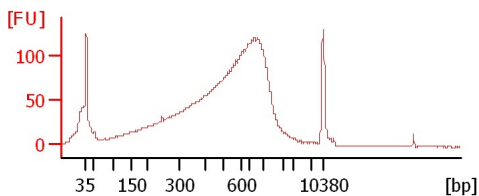
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 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\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 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

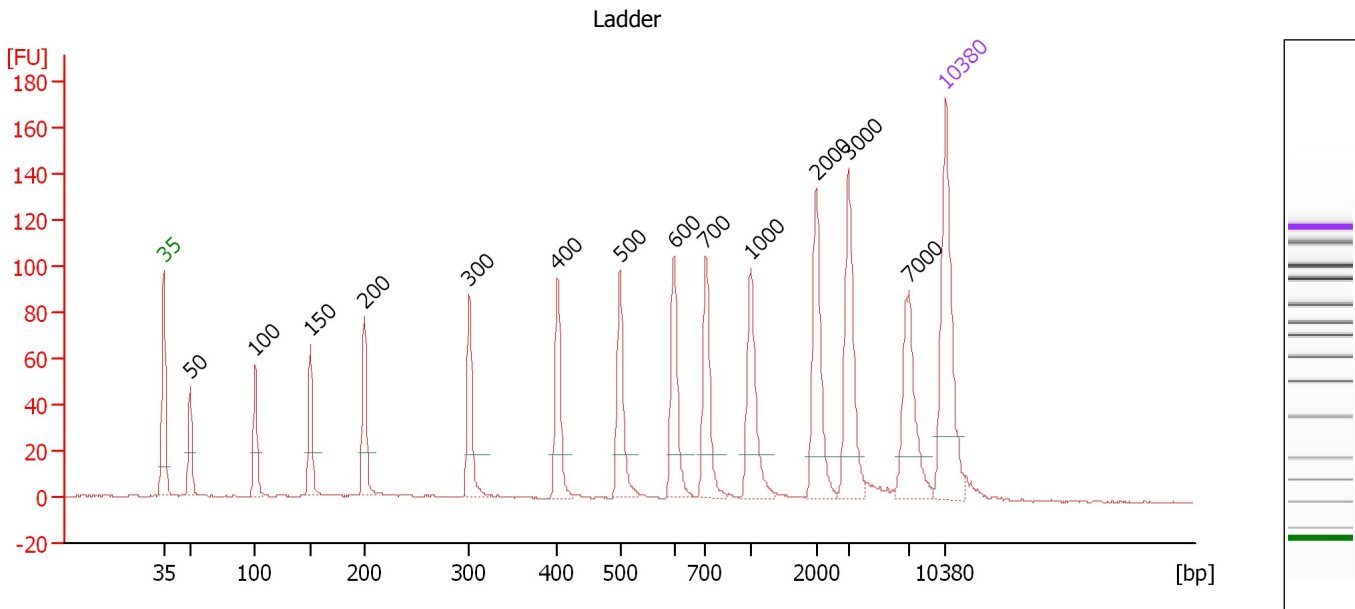
**Ladder**

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\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

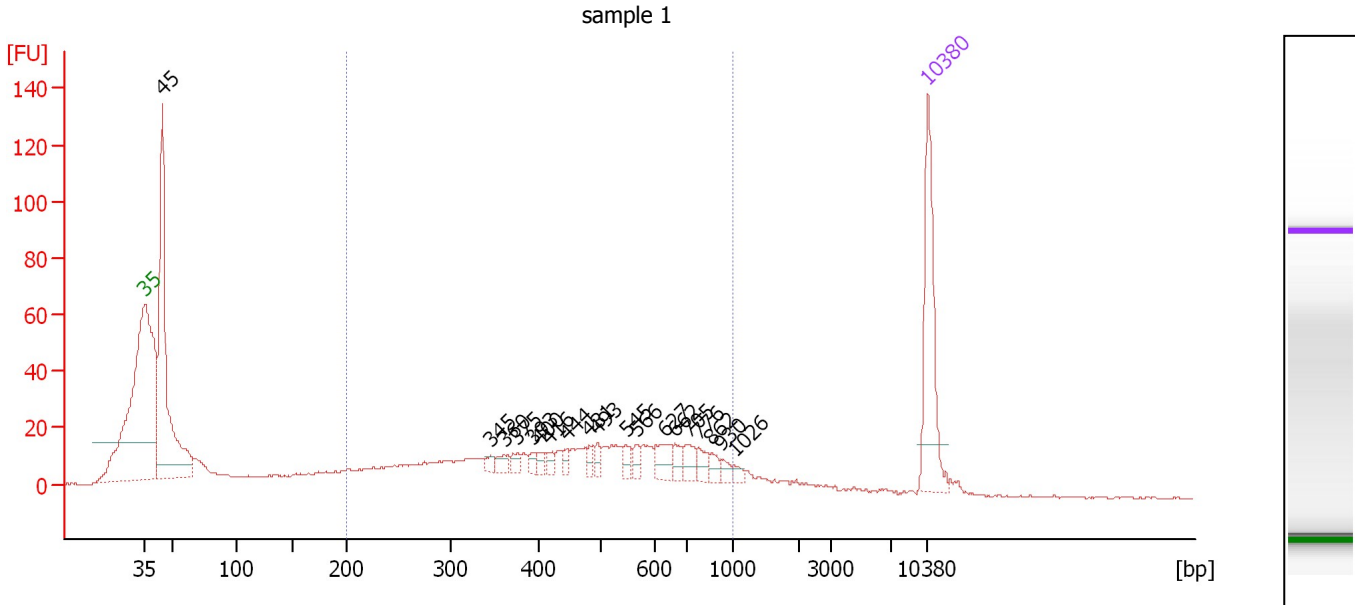
**Peak table for Ladder**

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	45.39
3	100	150.00	2,272.7	Ladder Peak	51.21
4	150	150.00	1,515.2	Ladder Peak	56.12
5	200	150.00	1,136.4	Ladder Peak	60.99
6	300	150.00	757.6	Ladder Peak	70.39
7	400	150.00	568.2	Ladder Peak	78.26
8	500	150.00	454.5	Ladder Peak	83.85
9	600	150.00	378.8	Ladder Peak	88.66
10	700	150.00	324.7	Ladder Peak	91.53
11	1,000	150.00	227.3	Ladder Peak	95.54
12	2,000	150.00	113.6	Ladder Peak	101.40
13	3,000	150.00	75.8	Ladder Peak	104.27
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 19                      Corr. Area 1: 568.6  
 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	45	324.96	11,041.2		44.53
3	345	5.82	25.6		73.90
4	360	9.67	40.7		75.14
5	375	6.95	28.1		76.33
6	393	5.67	21.9		77.71
7	400	5.92	22.4		78.29
8	416	7.26	26.5		79.14
9	444	6.74	23.0		80.72
10	481	7.05	22.2		82.77
11	493	8.04	24.7		83.44
12	545	8.58	23.9		86.01
13	566	8.07	21.6		87.01
14	627	18.49	44.7		89.44
15	662	9.27	21.2		90.45
16	705	14.18	30.5		91.59
17	776	10.69	20.9		92.54
18	862	8.03	14.1		93.69
19	930	5.62	9.2		94.59
20	1,026	4.96	7.3		95.69
21	10,380	75.00	10.9	Upper Marker	113.00

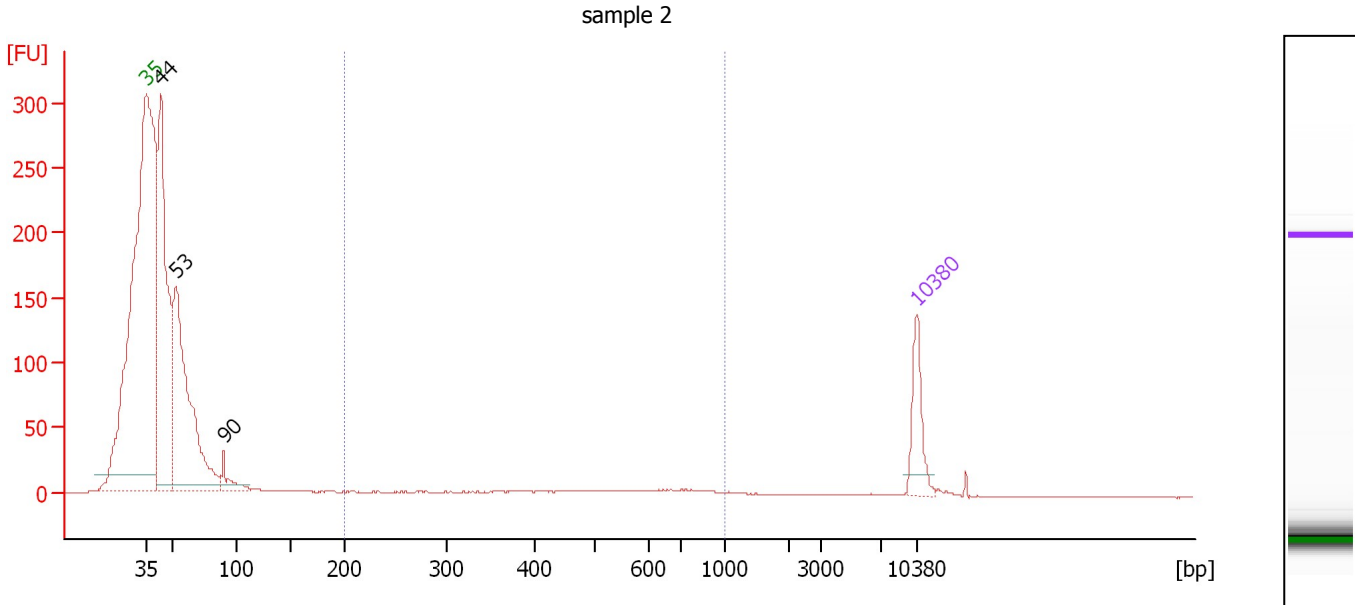
**Region table for sample 1 : sample 1**

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	484	496.31	568.6	1,935.3	55	38.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 3                      Corr. Area 1: 109.2  
 Noise: 0.2

**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	44	894.97	31,152.8		44.36
3	53	792.71	22,744.0		45.71
4	90	58.08	975.0		50.07
5	10,380	75.00	10.9	Upper Marker	113.00

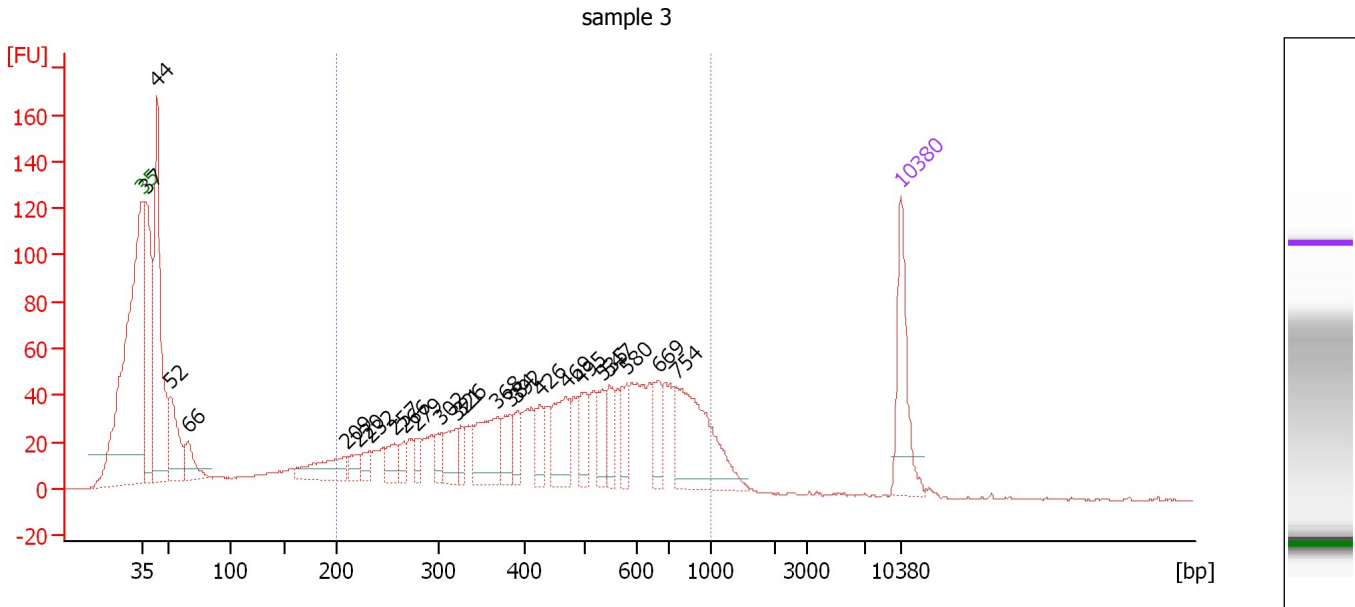
**Region table for sample 2 : sample 2**

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	512	91.08	109.2	340.4	7	37.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 24                      Corr. Area 1: 1,520.7  
 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	37	302.62	12,236.0		43.39
3	44	390.52	13,459.0		44.43
4	52	107.23	3,131.2		45.61
5	66	51.70	1,182.5		47.28
6	209	69.62	504.9		61.83
7	220	20.72	142.4		62.91
8	232	21.70	141.4		64.04
9	257	30.56	180.1		66.35
10	266	18.52	105.5		67.19
11	279	18.82	102.2		68.41
12	302	21.57	108.3		70.53
13	321	43.86	206.9		72.05
14	326	21.59	100.3		72.45
15	368	90.60	373.1		75.74
16	384	33.72	133.2		76.97
17	392	27.26	105.3		77.66
18	426	34.27	121.8		79.72
19	469	76.13	245.8		82.13
20	495	40.80	124.9		83.55
21	535	33.66	95.4		85.52
22	547	38.04	105.4		86.11
23	580	35.02	91.5		87.68
24	669	38.13	86.4		90.63
25	754	159.95	321.2		92.26

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : sample 3**

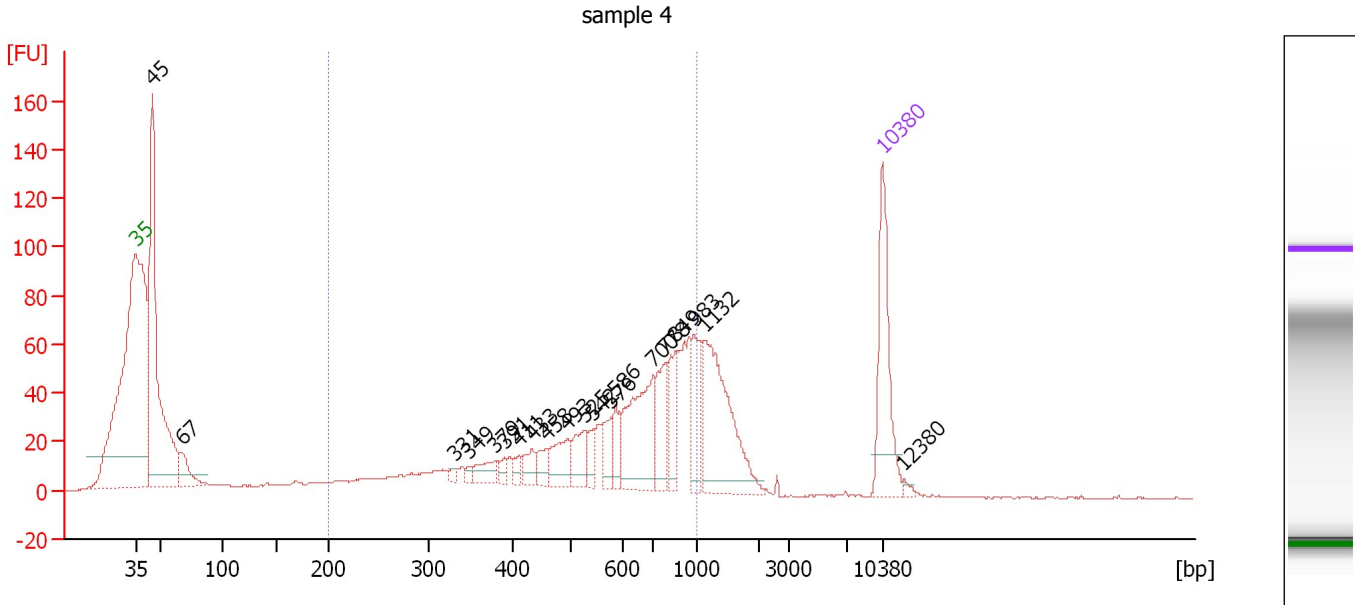
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	497	1,348.09	1,520.7	5,118.5	60	38.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 20                      Corr. Area 1: 904.6  
 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	45	413.54	14,005.3		44.55
3	67	39.36	892.1		47.35
4	331	4.85	22.2		72.83
5	349	5.27	22.9		74.28
6	379	19.56	78.2		76.63
7	391	7.52	29.2		77.53
8	411	9.19	33.9		78.87
9	433	15.83	55.3		80.12
10	458	16.50	54.5		81.52
11	493	34.80	106.9		83.47
12	525	30.75	88.7		85.07
13	542	13.78	38.5		85.87
14	576	22.36	58.8		87.52
15	586	20.01	51.8		87.97
16	700	101.37	219.6		91.52
17	778	45.62	88.9		92.56
18	849	38.18	68.2		93.51
19	983	40.02	61.7		95.31
20	1,132	123.59	165.4		96.31
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,380	0.00	0.0		114.95

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**

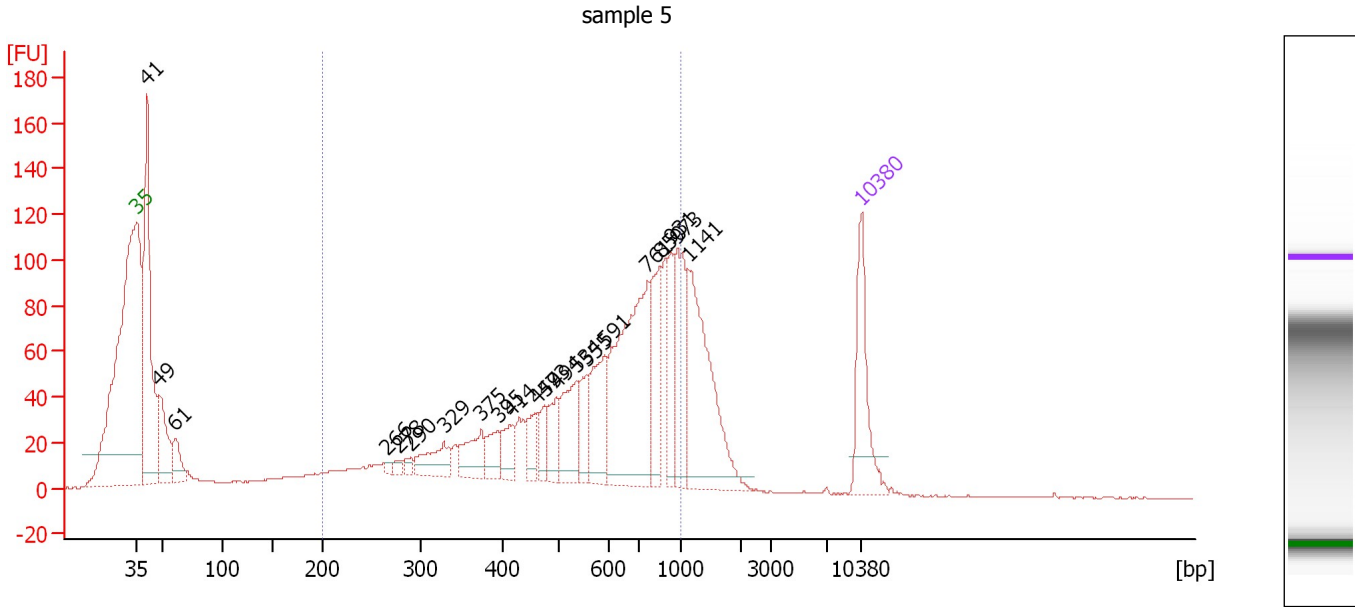
... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	603	673.49	904.6	2,118.2	 55	34.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 21                      Corr. Area 1: 1,598.3  
 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	41	380.66	14,015.1		43.98
3	49	105.45	3,287.3		45.16
4	61	45.94	1,134.4		46.71
5	266	5.13	29.2		67.21
6	278	7.69	41.9		68.34
7	290	8.51	44.5		69.42
8	329	47.80	220.2		72.67
9	375	48.16	194.7		76.27
10	395	30.79	118.1		77.87
11	414	29.83	109.1		79.06
12	459	31.35	103.4		81.58
13	473	26.44	84.6		82.35
14	494	39.61	121.6		83.49
15	534	75.65	214.6		85.49
16	555	41.70	113.9		86.47
17	591	80.12	205.4		88.22
18	761	249.91	497.5		92.35
19	850	80.12	142.8		93.53
20	931	51.67	84.1		94.61
21	973	91.88	143.0		95.18
22	1,141	174.35	231.5		96.36
23	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**

... Region table for sample 5 :

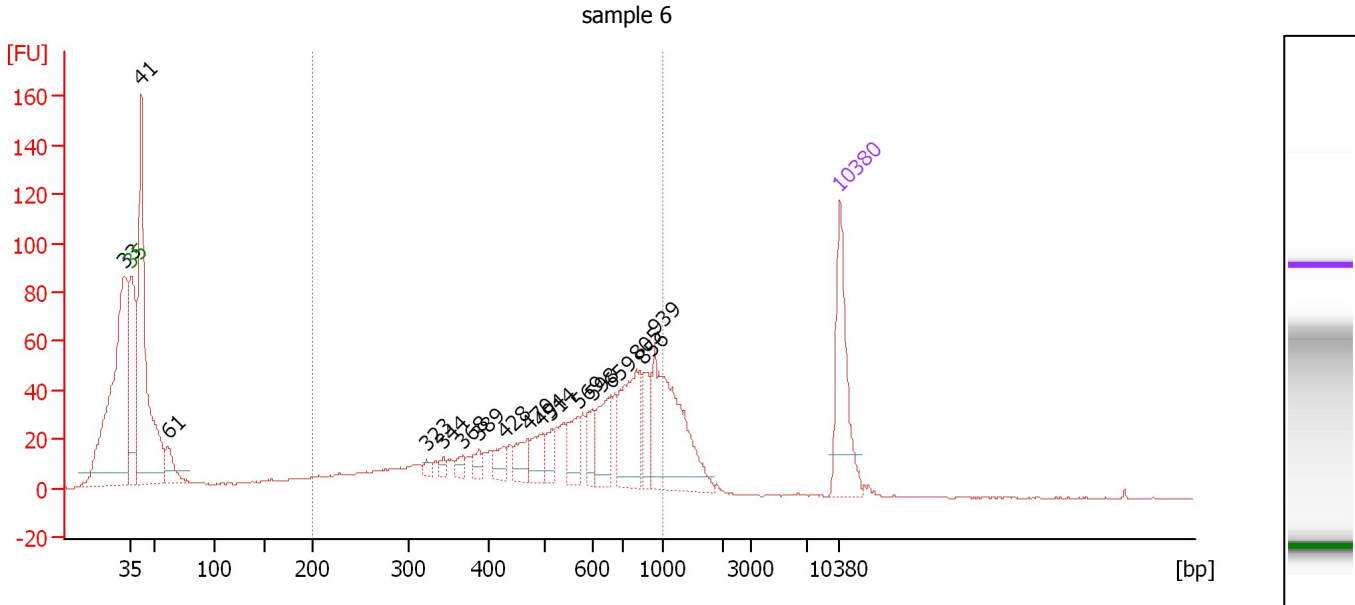
sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	596	1,260.22	1,598.3	4,003.9	 63	34.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 17                      Corr. Area 1: 903.2  
 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	33	0.00	0.0		42.32
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	417.96	15,336.4		44.00
4	61	39.13	976.3		46.63
5	323	6.13	28.8		72.18
6	344	6.88	30.3		73.87
7	368	9.26	38.1		75.76
8	389	11.79	45.9		77.39
9	428	16.83	59.6		79.82
10	470	25.94	83.6		82.19
11	494	27.25	83.6		83.50
12	514	18.16	53.6		84.50
13	569	31.98	85.1		87.19
14	598	23.14	58.6		88.56
15	659	46.15	106.1		90.35
16	805	81.37	153.1		92.93
17	856	33.21	58.8		93.62
18	939	136.40	220.1		94.72
19	10,380	75.00	10.9	Upper Marker	113.00

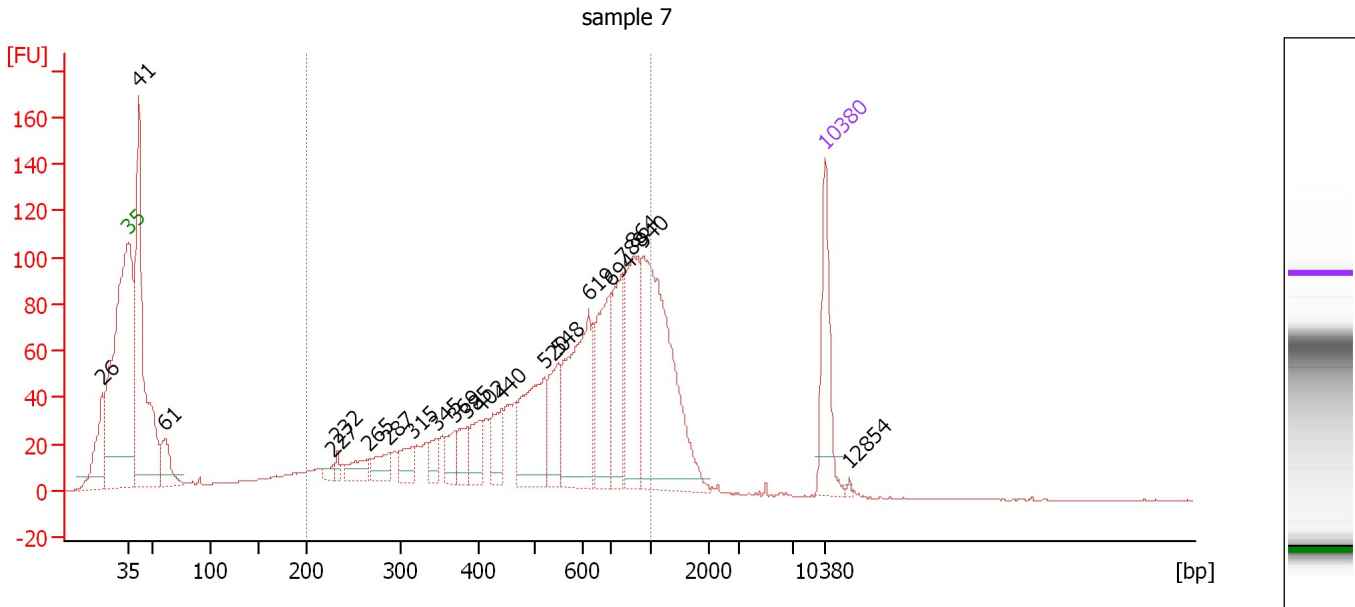
**Region table for sample 6 : sample 6**

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	574	718.45	903.2	2,389.8	46	36.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 21                      Corr. Area 1: 1,707.4  
 Noise: 0.3

**Peak table for sample 7 : sample 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.38
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	489.32	17,909.0		44.02
4	61	61.61	1,535.7		46.64
5	227	9.44	62.9		63.57
6	232	10.87	71.0		63.99
7	265	30.53	174.6		67.10
8	287	31.28	165.0		69.19
9	315	32.21	155.1		71.55
10	345	24.82	109.1		73.90
11	369	27.35	112.3		75.83
12	385	33.71	132.8		77.06
13	402	39.21	147.6		78.40
14	440	44.48	153.2		80.49
15	520	127.14	370.2		84.83
16	548	66.93	185.0		86.17
17	619	170.88	418.0		89.22
18	694	109.09	238.1		91.36
19	788	93.21	179.3		92.70
20	864	132.31	232.0		93.72
21	940	281.72	454.0		94.74
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,854	0.00	0.0		115.41

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**

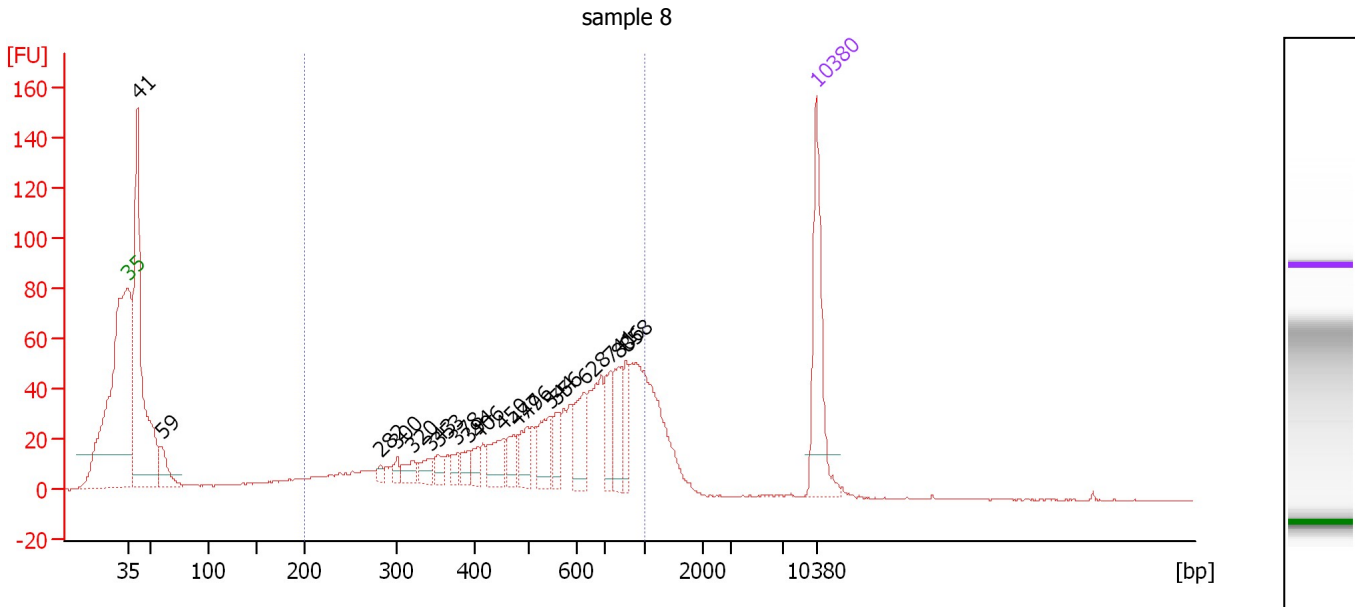
... Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	583	1,423.45	1,707.4	4,630.9	64	35.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 19                      Corr. Area 1: 957.1  
 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	41	365.80	13,473.2		43.98
3	59	37.21	958.0		46.42
4	282	5.44	29.2		68.70
5	300	7.17	36.2		70.38
6	320	14.29	67.7		71.95
7	343	14.60	64.4		73.80
8	353	11.44	49.1		74.56
9	378	10.57	42.4		76.51
10	394	12.63	48.6		77.76
11	406	12.07	45.0		78.62
12	450	30.68	103.3		81.06
13	477	21.53	68.3		82.58
14	496	23.91	73.1		83.61
15	544	32.39	90.3		85.94
16	556	18.44	50.3		86.54
17	628	37.74	91.0		89.47
18	741	30.16	61.7		92.07
19	806	34.42	64.7		92.94
20	858	24.96	44.1		93.64
21	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 : sample 8**

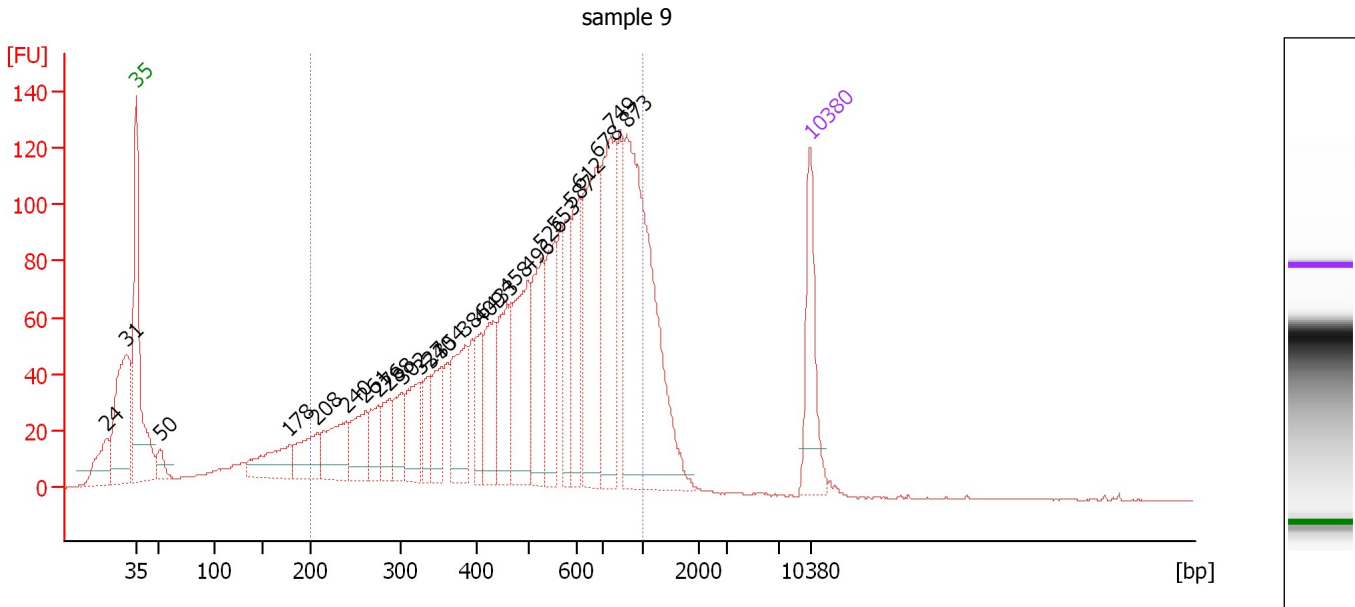
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	573	681.79	957.1	2,258.8	61	35.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 25                      Corr. Area 1: 2,616.9  
 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	24	0.00	0.0		39.90
2	31	0.00	0.0		41.95
3	35	125.00	5,411.3	Lower Marker	43.00
4	50	26.40	793.0		45.44
5	178	76.64	650.6		58.89
6	208	67.28	489.3		61.77
7	240	86.17	543.6		64.76
8	261	67.62	392.0		66.76
9	276	47.20	259.0		68.14
10	288	43.73	230.1		69.25
11	302	52.53	263.2		70.58
12	327	72.08	334.0		72.52
13	340	45.92	204.8		73.51
14	354	58.24	248.9		74.68
15	386	98.04	384.7		77.17
16	409	50.59	187.3		78.78
17	433	82.96	290.3		80.10
18	458	95.54	316.2		81.49
19	496	141.28	431.2		83.65
20	526	111.93	322.5		85.09
21	553	91.37	250.2		86.42
22	587	74.32	191.9		88.02
23	612	87.23	215.8		89.02
24	678	181.64	405.8		90.90
25	749	166.62	337.2		92.18

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	873	361.65	627.7		93.84
27	10,380	75.00	10.9	Upper Marker	113.00

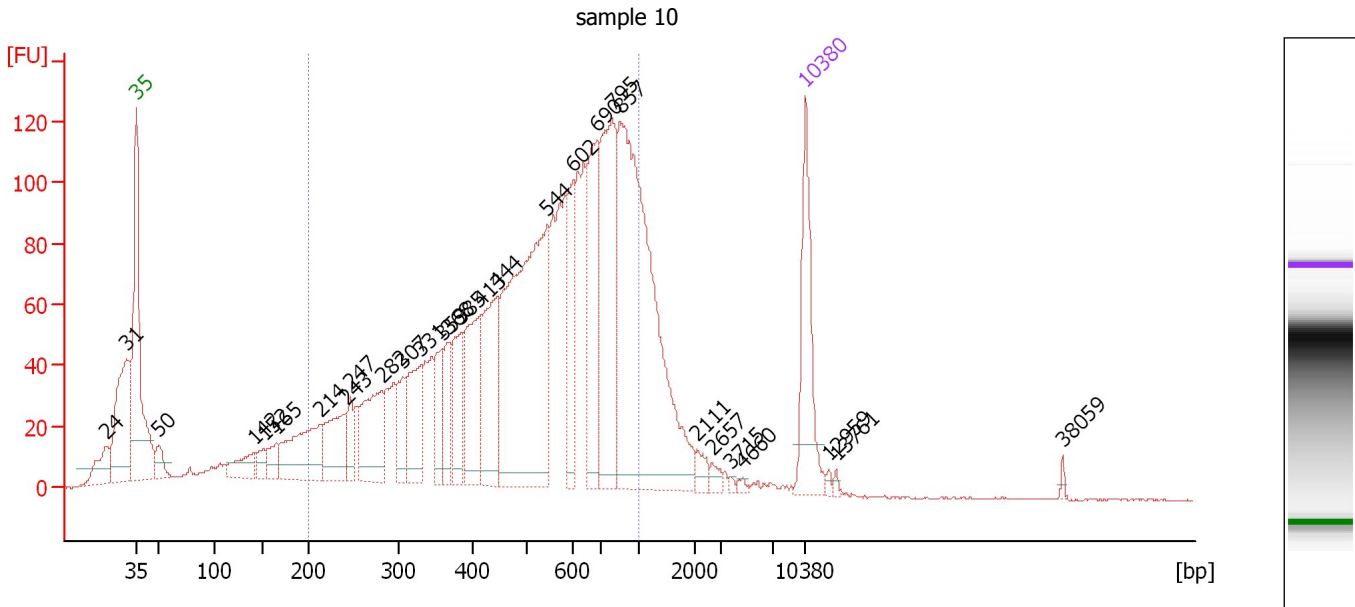
#### Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	552	2,232.24	2,616.9	7,691.8	 76	36.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 10**

Number of peaks found: 29                      Corr. Area 1: 2,641.4  
 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	24	0.00	0.0		39.87
2	31	0.00	0.0		42.00
3	35	125.00	5,411.3	Lower Marker	43.00
4	50	24.28	739.6		45.34
5	142	37.68	402.1		55.34
6	152	17.27	171.9		56.34
7	165	24.92	228.3		57.63
8	214	110.43	783.7		62.26
9	243	75.03	468.6		64.99
10	247	28.64	175.4		65.44
11	282	99.99	537.6		68.68
12	307	43.27	213.8		70.91
13	331	72.21	330.8		72.81
14	359	46.36	195.6		75.04
15	368	45.29	186.3		75.77
16	385	61.05	240.5		77.05
17	413	97.25	356.5		79.00
18	444	112.66	384.2		80.74
19	544	347.02	965.9		85.98
20	602	59.50	149.8		88.72
21	690	125.14	274.9		91.23
22	795	167.30	319.0		92.79
23	857	402.69	711.6		93.63
24	2,111	9.92	7.1		101.72
25	2,657	6.36	3.6		103.29

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,715	2.01	0.8		105.24
27	4,660	2.66	0.9		106.52
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,959	0.00	0.0		115.51
30	13,761	0.00	0.0		116.29
31	38,059	0.00	0.0		139.96

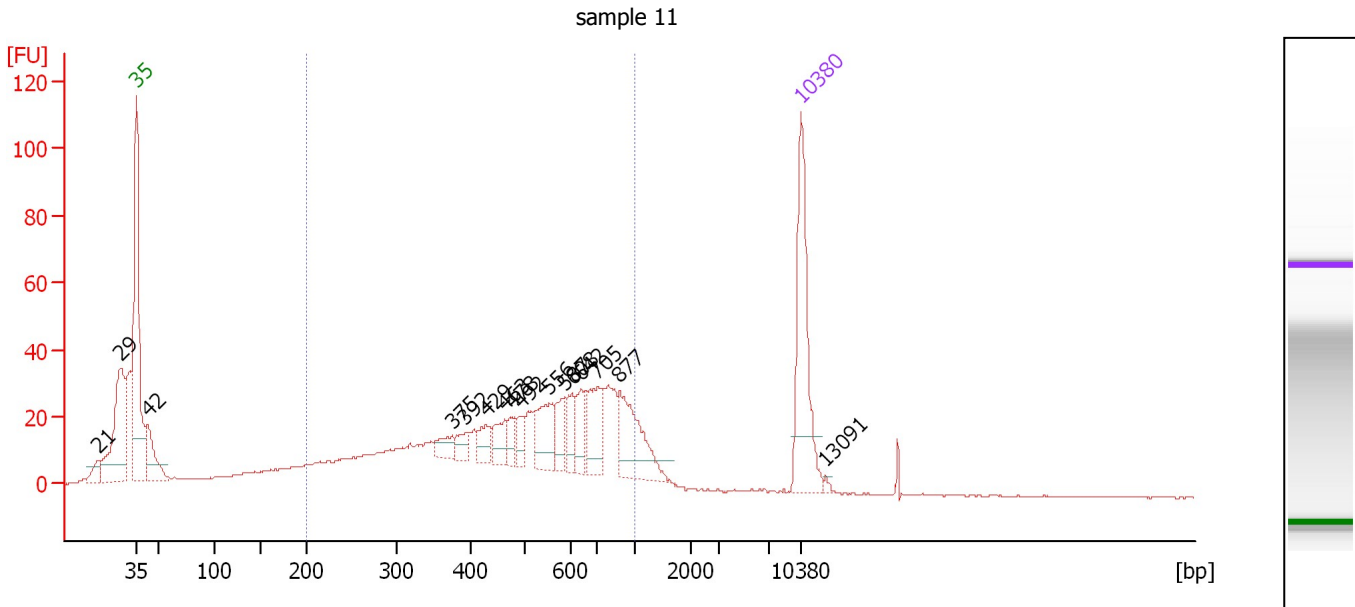
#### Region table for sample 10 : sample 10

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	545	2,139.82	2,641.4	7,467.6	75	37.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 16                      Corr. Area 1: 749.3  
 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	21	0.00	0.0		38.90
2	29	0.00	0.0		41.31
3	35	125.00	5,411.3	Lower Marker	43.00
4	42	49.73	1,776.4		44.18
5	375	13.60	55.0		76.26
6	392	13.48	52.1		77.66
7	429	16.33	57.7		79.85
8	463	19.83	64.9		81.76
9	478	12.15	38.5		82.61
10	492	11.79	36.3		83.39
11	556	35.48	96.7		86.54
12	587	19.59	50.5		88.06
13	608	18.61	46.4		88.90
14	642	18.71	44.2		89.85
15	705	33.61	72.2		91.60
16	877	57.06	98.5		93.90
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,091	0.00	0.0		115.64

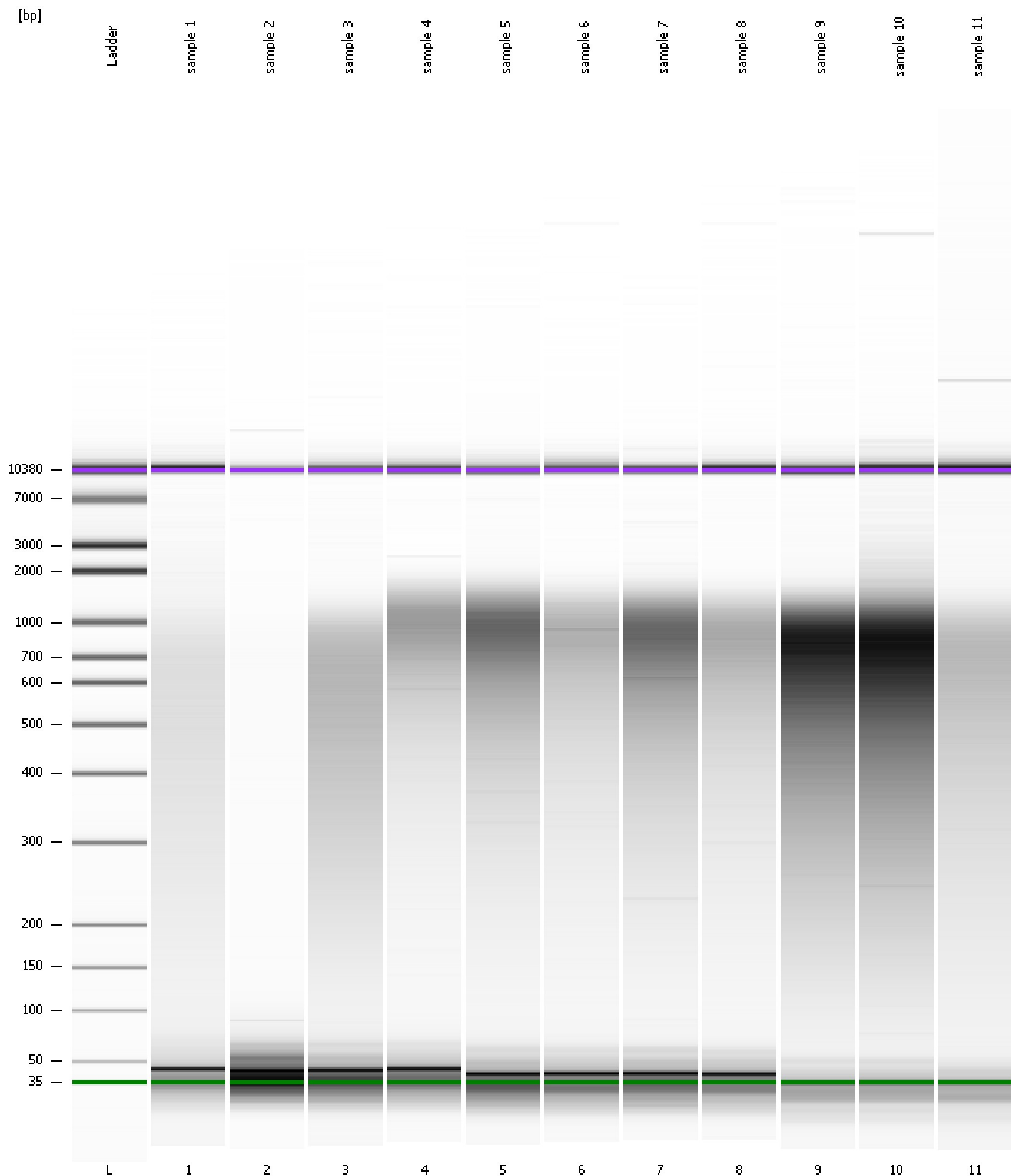
**Region table for sample 11 : sample 11**

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	526	635.95	749.3	2,292.2	67	37.3

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Gel Image**

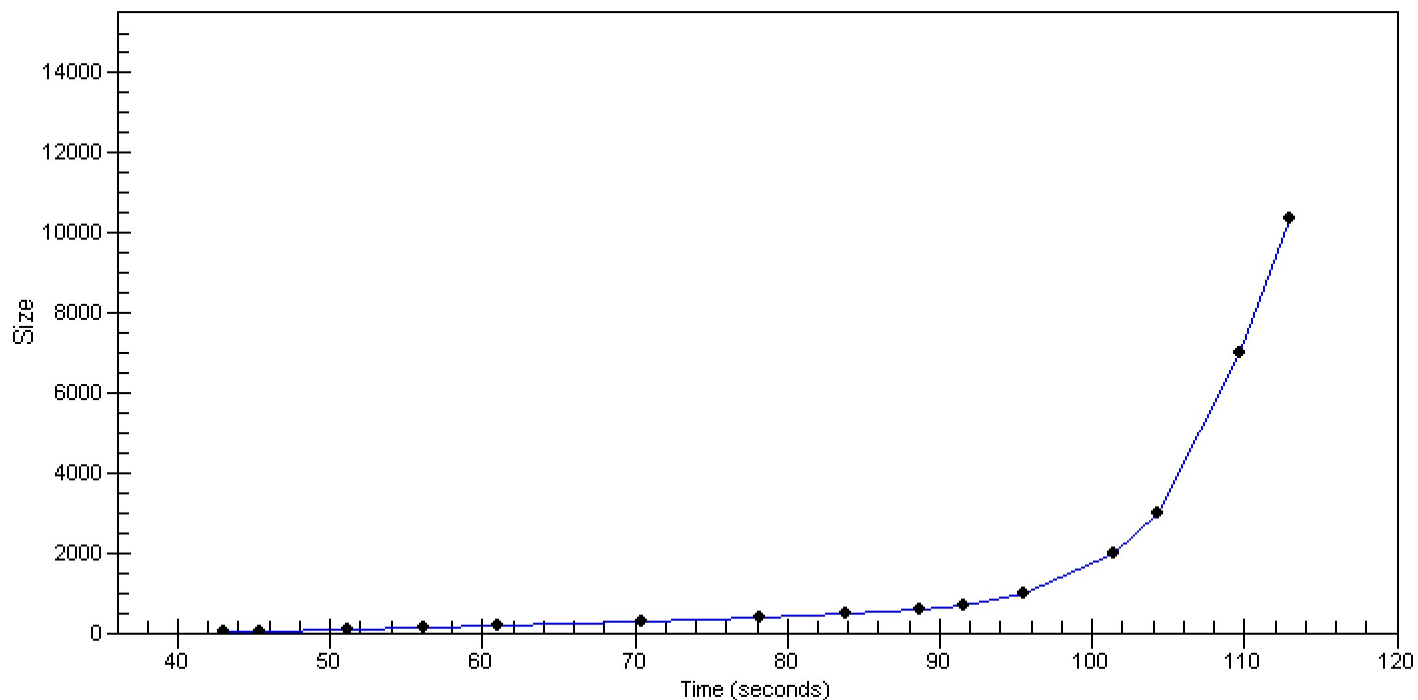


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
Modified: 5/30/2019 3:00:12 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-30\2019-05-30\_003.xad

Created: 5/30/2019 2:18:55 PM  
 Modified: 5/30/2019 3:00:12 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		5/30/2019 3:00:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-05-30\2019-05-30_003.xad)		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/30/2019 2:19:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1