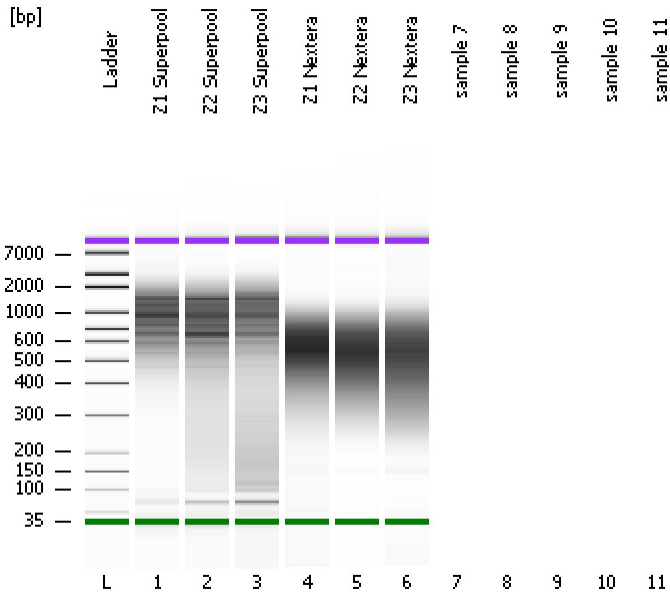


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
Modified: 7/19/2017 11:51:31 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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

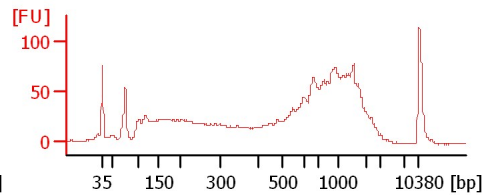
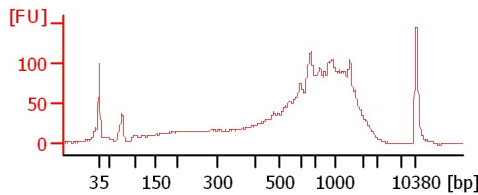
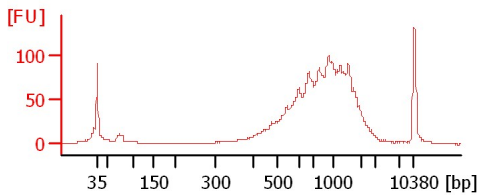
Chip Information:

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

Z1 Superpool

Z2 Superpool

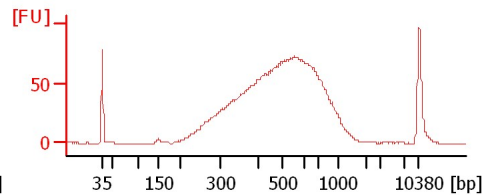
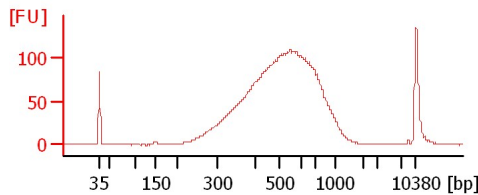
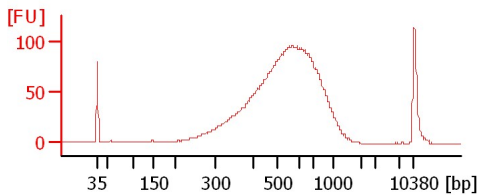
Z3 Superpool



Z1 Nextera

Z2 Nextera

Z3 Nextera



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Z1 Superpool		<input type="checkbox"/>	✓			
Z2 Superpool		<input type="checkbox"/>	✓			
Z3 Superpool		<input type="checkbox"/>	✓			
Z1 Nextera		<input type="checkbox"/>	✓			
Z2 Nextera		<input type="checkbox"/>	✓			
Z3 Nextera		<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\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
Modified: 7/19/2017 11:51:31 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

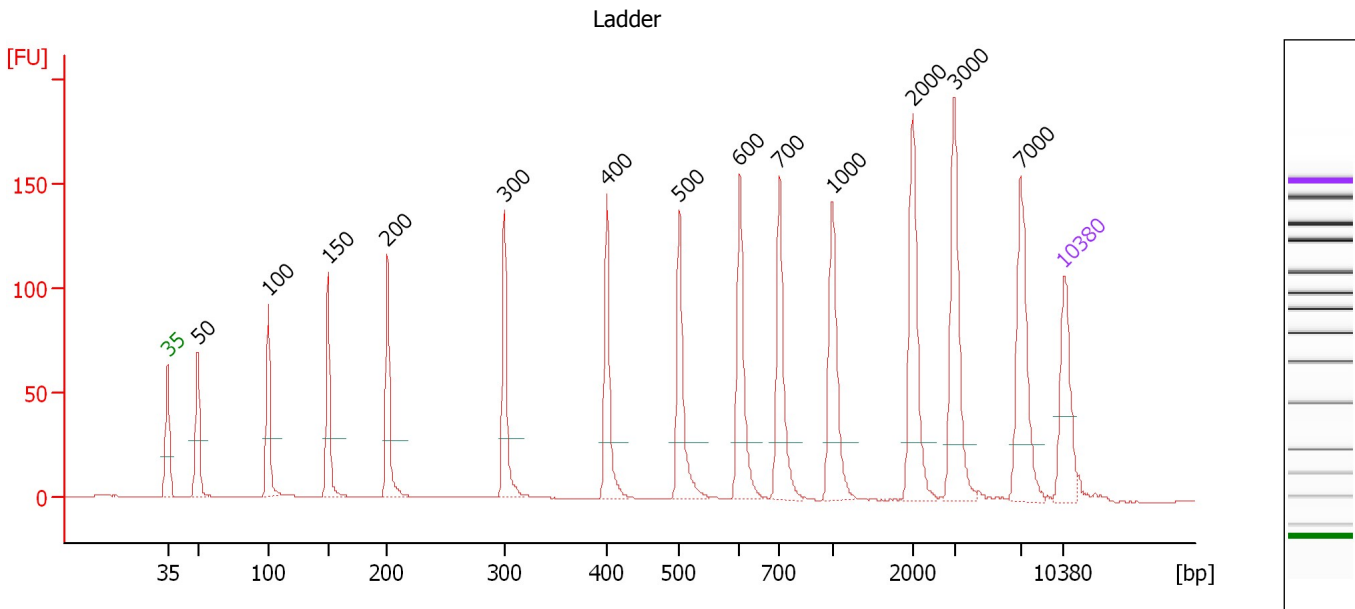
Ladder

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\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

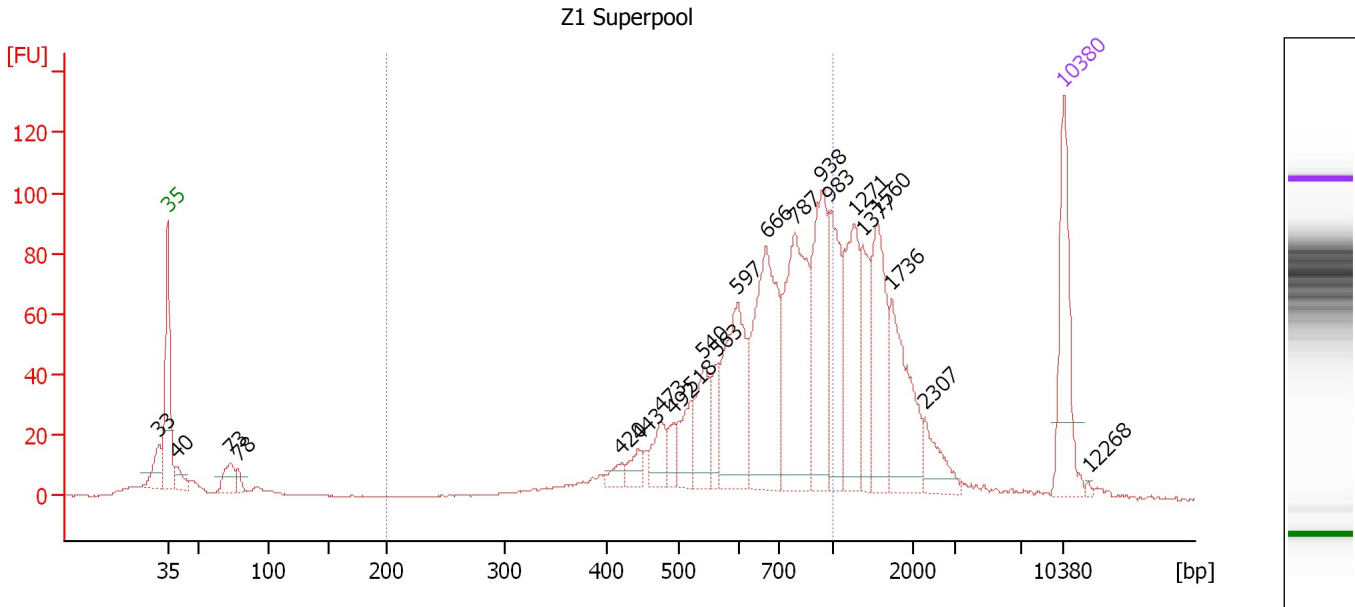
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.85
4	150	150.00	1,515.2	Ladder Peak	55.55
5	200	150.00	1,136.4	Ladder Peak	60.17
6	300	150.00	757.6	Ladder Peak	69.28
7	400	150.00	568.2	Ladder Peak	77.30
8	500	150.00	454.5	Ladder Peak	82.97
9	600	150.00	378.8	Ladder Peak	87.68
10	700	150.00	324.7	Ladder Peak	90.77
11	1,000	150.00	227.3	Ladder Peak	94.91
12	2,000	150.00	113.6	Ladder Peak	101.19
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.60
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : Z1 Superpool

Number of peaks found: 22 Corr. Area 1: 1,038.1
 Noise: 0.1

Peak table for sample 1 : Z1 Superpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	21.90	839.9		43.71
4	73	29.16	603.6		47.90
5	78	10.92	211.0		48.48
6	420	11.67	42.1		78.42
7	443	17.36	59.4		79.74
8	473	31.64	101.3		81.47
9	492	17.80	54.8		82.53
10	518	37.74	110.4		83.81
11	540	53.62	150.4		84.87
12	563	26.96	72.6		85.93
13	597	122.38	310.8		87.52
14	666	181.61	413.0		89.73
15	787	170.42	327.9		91.98
16	938	117.17	189.3		94.05
17	983	84.47	130.2		94.67
18	1,271	92.35	110.1		96.62
19	1,377	51.67	56.9		97.28
20	1,560	89.88	87.3		98.43
21	1,736	87.42	76.3		99.53
22	2,307	27.67	18.2		102.18
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,268	0.00	0.0		114.90

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
Modified: 7/19/2017 11:51:31 AM

Electropherogram Summary Continued ...

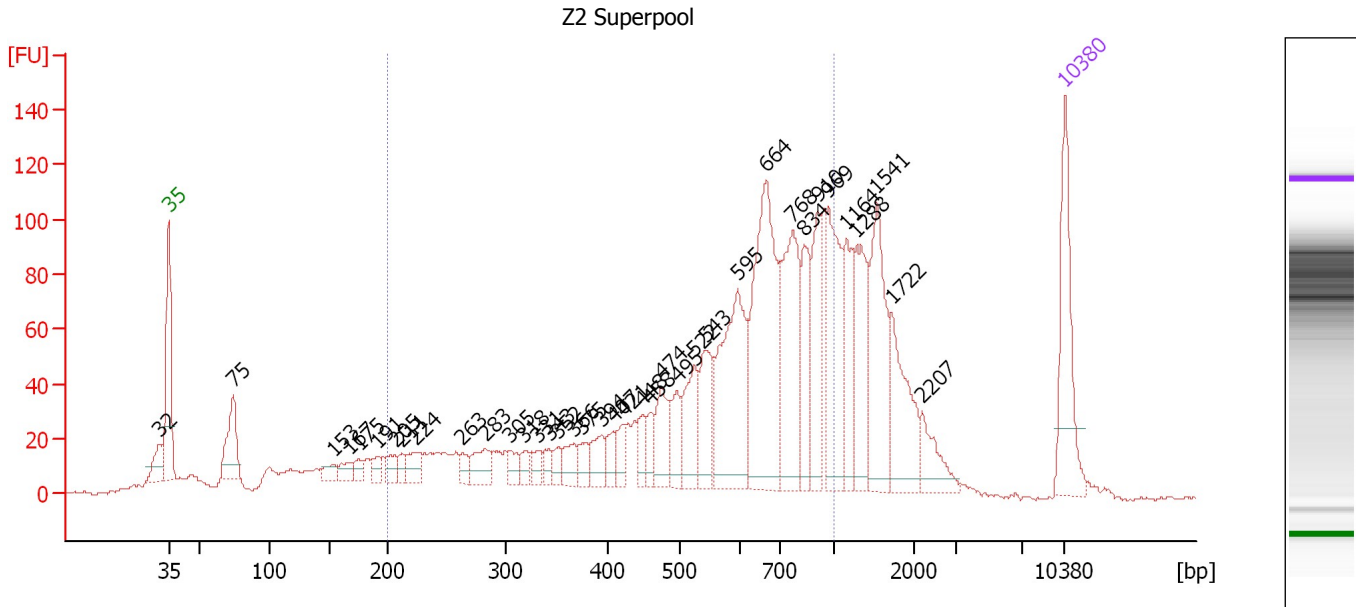
... Region table for sample 1 : Z1 Superpool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	678	1,038.1	2,327.5	943.63	58	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
 Modified: 7/19/2017 11:51:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Z2 Superpool

Number of peaks found: 38 Corr. Area 1: 1,693.5
 Noise: 0.4

Peak table for sample 2 : Z2 Superpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.27
2	35	125.00	5,411.3	Lower Marker	43.00
3	75	67.02	1,362.4		48.05
4	153	14.90	147.6		55.83
5	167	15.66	142.3		57.10
6	175	11.43	98.9		57.87
7	191	13.27	105.1		59.37
8	205	16.14	119.2		60.65
9	211	10.84	77.8		61.19
10	224	23.04	156.1		62.33
11	263	11.59	66.7		65.92
12	283	28.27	151.6		67.70
13	305	14.50	72.0		69.70
14	318	12.03	57.3		70.75
15	331	14.25	65.2		71.79
16	343	11.49	50.8		72.70
17	352	12.46	53.7		73.43
18	366	21.09	87.2		74.61
19	375	16.25	65.7		75.29
20	394	25.63	98.6		76.79
21	407	16.89	62.9		77.70
22	421	17.92	64.5		78.48
23	448	19.17	64.8		80.02
24	458	17.45	57.7		80.62
25	474	40.03	128.0		81.48

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
 Modified: 7/19/2017 11:51:31 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : Z2 Superpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	495	29.17	89.2		82.71
27	522	55.30	160.4		84.03
28	543	52.17	145.6		84.98
29	595	150.07	382.2		87.44
30	664	211.32	482.0		89.67
31	768	120.84	238.3		91.71
32	834	57.04	103.6		92.62
33	910	63.66	106.0		93.67
34	969	105.68	165.2		94.49
35	1,164	57.81	75.2		95.94
36	1,288	69.58	81.9		96.72
37	1,541	97.33	95.7		98.31
38	1,722	67.24	59.1		99.45
39	2,207	29.19	20.0		101.86
40	10,380	75.00	10.9	Upper Marker	113.00

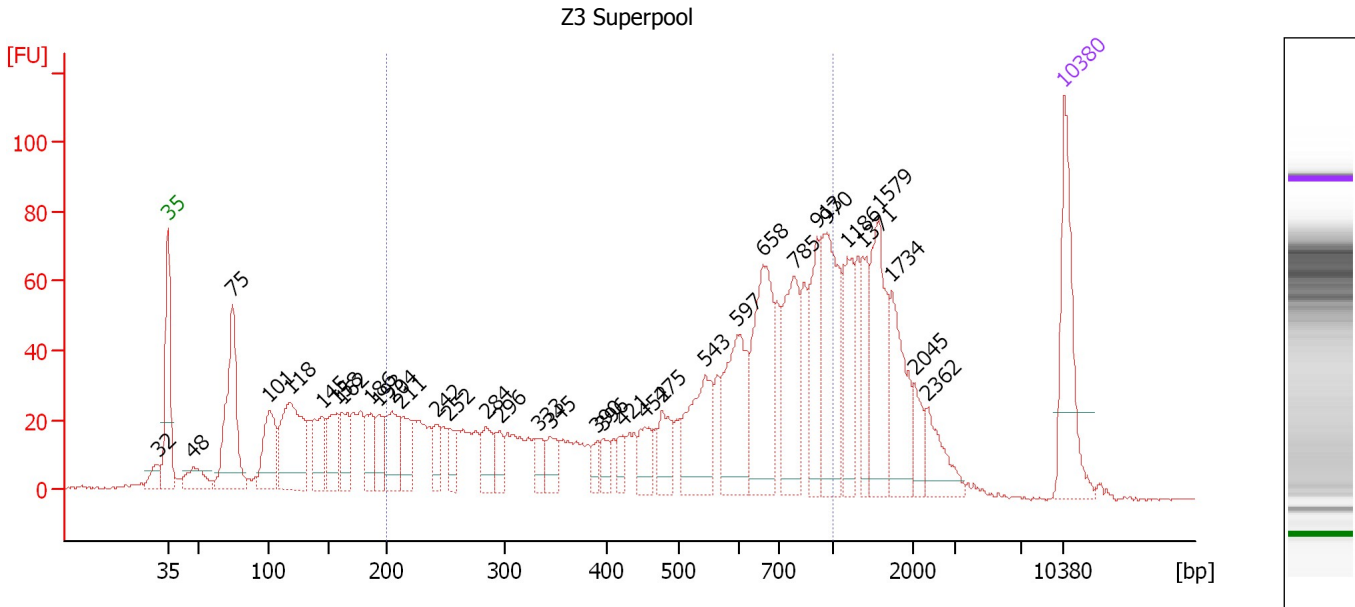
Region table for sample 2 : Z2 Superpool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	594	1,693.5	4,665.2	1,430.23	63	35.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : Z3 Superpool

Number of peaks found: 35 Corr. Area 1: 1,251.2
 Noise: 0.3

Peak table for sample 3 : Z3 Superpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.21
2	35	125.00	5,411.3	Lower Marker	43.00
3	48	34.51	1,095.4		45.00
4	75	151.16	3,066.2		48.07
5	101	75.35	1,129.3		50.95
6	118	135.47	1,734.0		52.58
7	145	55.79	582.8		55.08
8	158	51.39	494.3		56.25
9	162	42.00	392.7		56.67
10	186	38.07	310.6		58.85
11	193	34.64	272.3		59.50
12	204	50.90	378.3		60.52
13	211	37.77	270.6		61.22
14	242	21.46	134.3		64.01
15	252	21.45	128.8		64.94
16	284	32.06	170.7		67.87
17	296	19.67	100.6		68.94
18	333	19.37	88.2		71.91
19	345	24.47	107.5		72.89
20	390	11.56	44.9		76.51
21	396	15.81	60.5		76.98
22	421	14.45	51.9		78.51
23	452	26.74	89.7		80.23
24	475	33.25	106.0		81.58
25	543	79.66	222.4		84.97

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
 Modified: 7/19/2017 11:51:31 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : Z3 Superpool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	597	94.38	239.6		87.53
27	658	121.59	279.8		89.48
28	785	84.59	163.3		91.94
29	913	57.52	95.5		93.71
30	970	102.85	160.6		94.50
31	1,186	55.30	70.6		96.08
32	1,371	36.05	39.8		97.24
33	1,579	82.60	79.3		98.54
34	1,734	62.61	54.7		99.52
35	2,045	20.46	15.2		101.33
36	2,362	31.61	20.3		102.36
37	10,380	75.00	10.9	Upper Marker	113.00

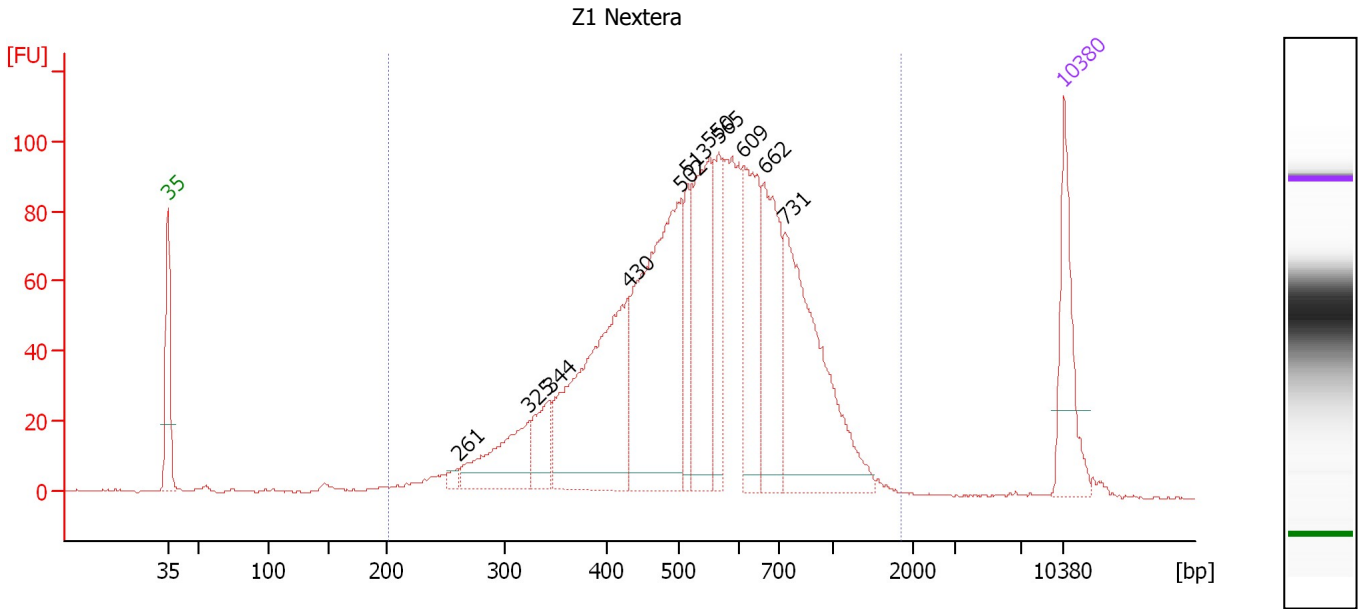
Region table for sample 3 : Z3 Superpool

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	562	1,251.2	4,501.4	1,224.99	54	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : Z1 Nextera

Number of peaks found: 11 Corr. Area 1: 2,036.6
 Noise: 0.2

Peak table for sample 4 : Z1 Nextera

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	261	8.93	51.9		65.70
3	325	102.11	476.4		71.27
4	344	54.49	239.8		72.84
5	430	301.82	1,062.6		79.02
6	502	347.61	1,048.9		83.07
7	513	62.52	184.6		83.59
8	550	180.42	497.4		85.30
9	565	79.48	213.2		86.02
10	609	134.82	335.2		87.97
11	662	147.63	338.0		89.59
12	731	261.83	542.3		91.21
13	10,380	75.00	10.9	Upper Marker	113.00

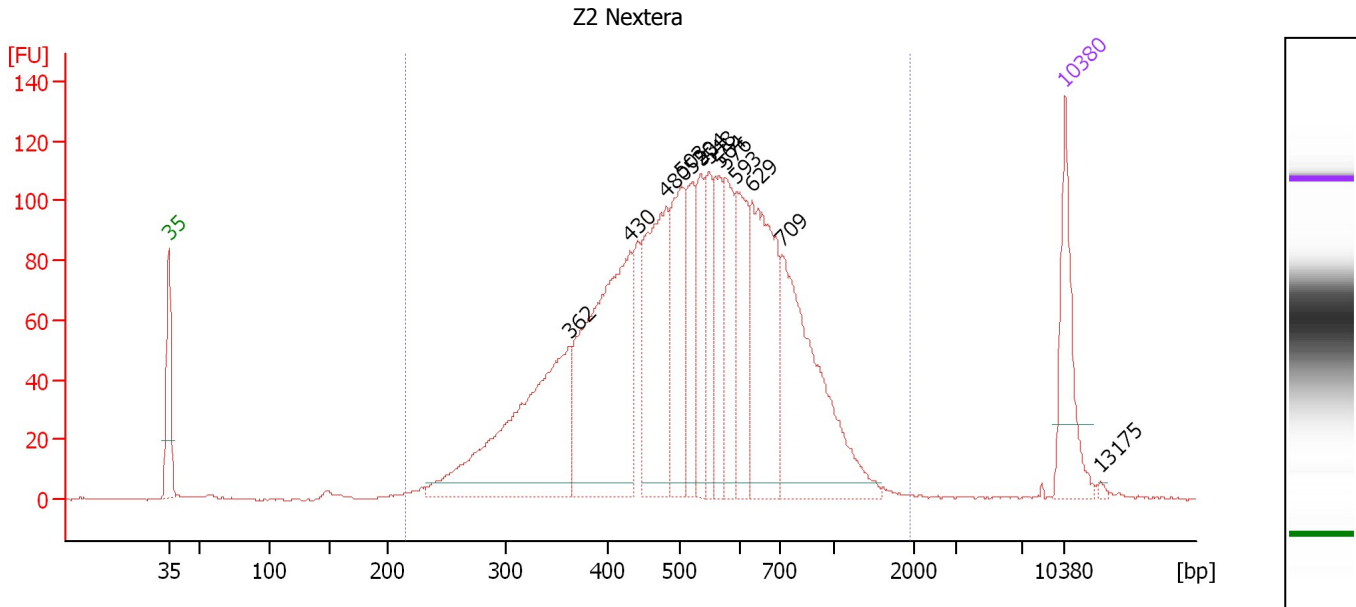
Region table for sample 4 : Z1 Nextera

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
201	1,855	573	2,036.6	6,033.9	1,951.51	98	35.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : Z2 Nextera

Number of peaks found: 13 Corr. Area 1: 2,515.7
 Noise: 0.3

Peak table for sample 5 : Z2 Nextera

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	362	335.07	1,401.9		74.27
3	430	359.20	1,264.9		79.02
4	480	219.13	691.9		81.83
5	503	134.38	405.1		83.09
6	520	77.95	227.1		83.91
7	534	77.76	220.4		84.59
8	548	66.75	184.6		85.22
9	564	74.58	200.2		86.00
10	576	90.80	239.0		86.53
11	593	94.00	240.1		87.36
12	629	207.15	499.1		88.57
13	709	255.63	546.3		90.89
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,175	0.00	0.0		115.81

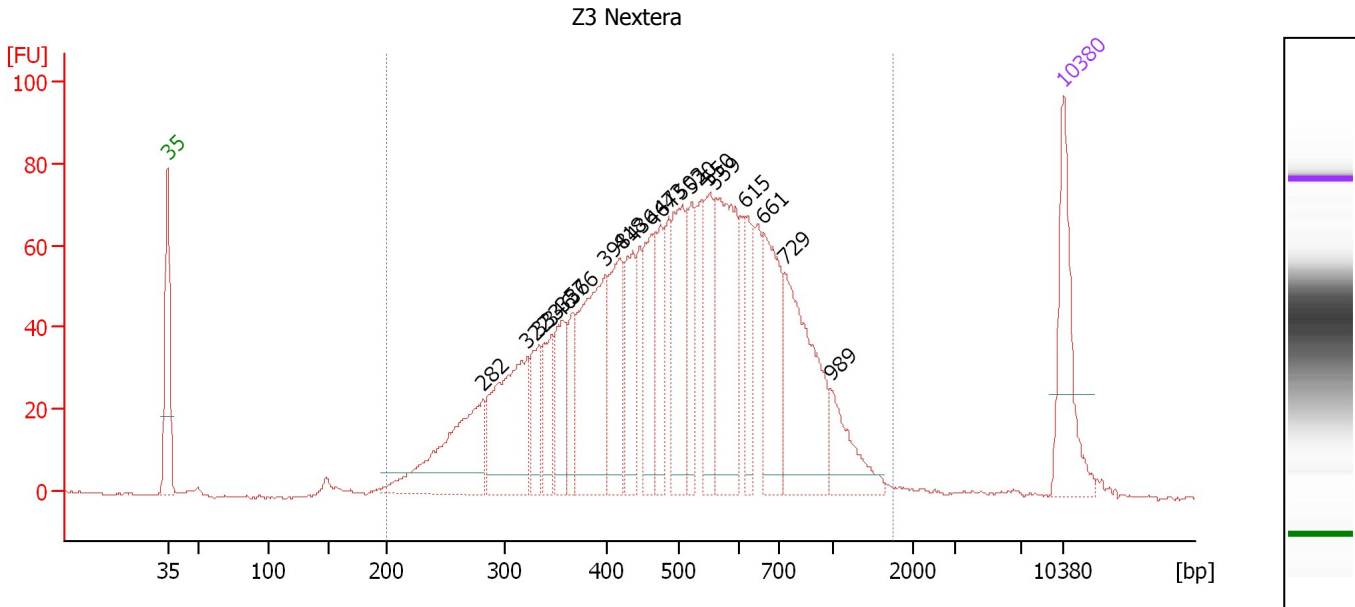
Region table for sample 5 : Z2 Nextera

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
215	1,941	545	2,515.7	6,906.0	2,137.47	98	36.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

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 Modified: 7/19/2017 11:51:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Z3 Nextera

Number of peaks found: 19 Corr. Area 1: 1,930.5
 Noise: 0.4

Peak table for sample 6 : Z3 Nextera

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	282	161.01	865.6		67.63
3	322	161.91	761.2		71.07
4	333	47.65	216.6		71.95
5	346	52.16	228.3		72.99
6	357	65.22	277.1		73.82
7	366	41.58	171.9		74.61
8	398	166.63	633.9		77.16
9	418	93.68	339.3		78.34
10	436	73.32	255.0		79.33
11	464	76.81	250.6		80.95
12	473	58.60	187.7		81.44
13	503	108.77	327.6		83.11
14	520	56.07	163.5		83.90
15	550	80.83	222.7		85.32
16	559	163.22	442.1		85.77
17	615	54.76	135.0		88.13
18	661	107.66	246.9		89.55
19	729	159.50	331.4		91.17
20	989	49.82	76.3		94.76
21	10,380	75.00	10.9	Upper Marker	113.00

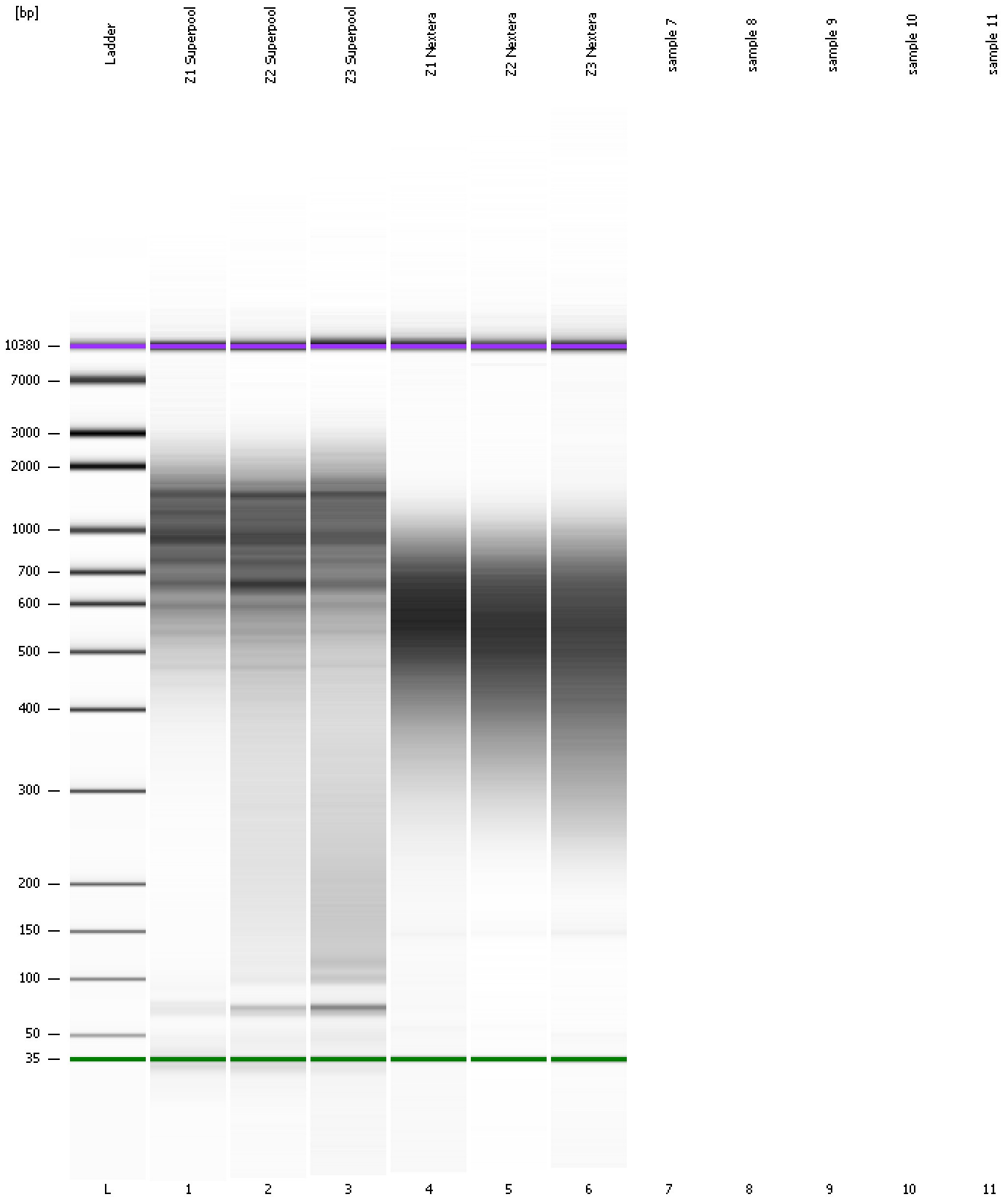
Region table for sample 6 : Z3 Nextera

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,749	530	1,930.5	7,035.8	2,042.29	98	39.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
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Gel Image

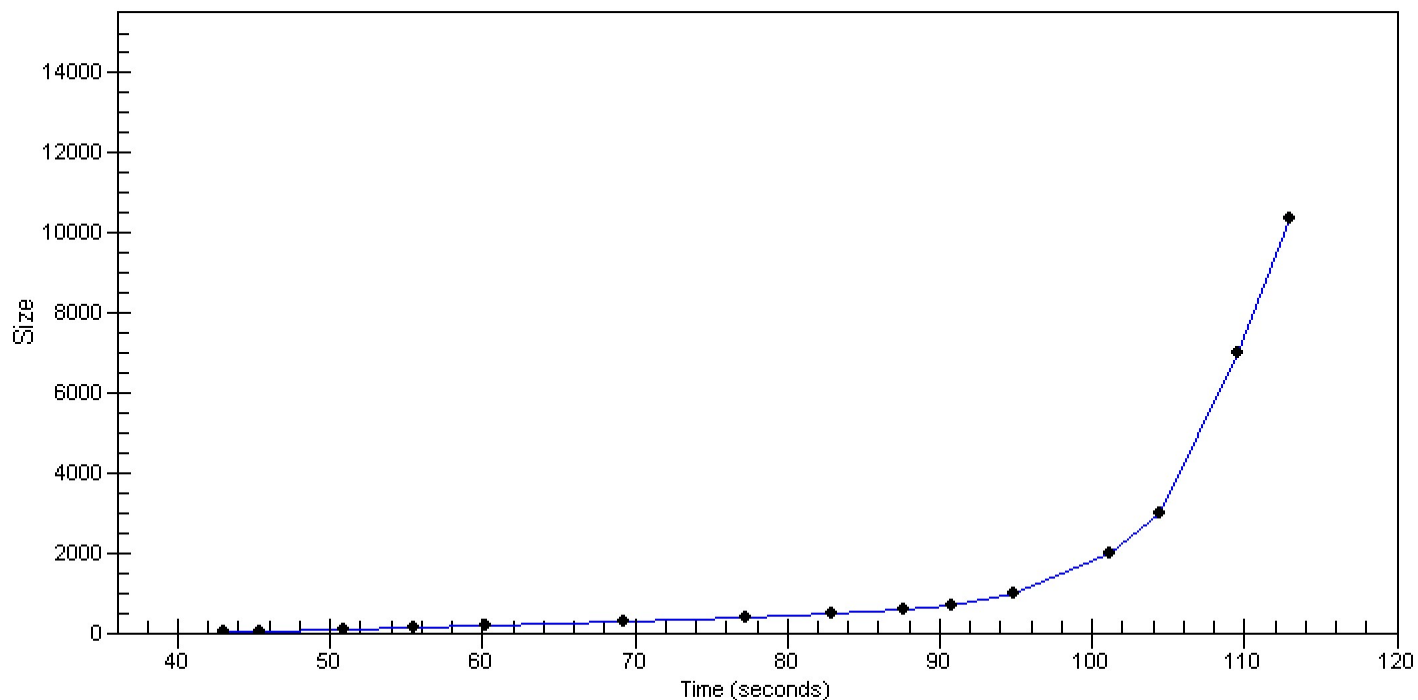


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
Modified: 7/19/2017 11:51:31 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-19\2017-07-19_001.xad

Created: 7/19/2017 11:21:07 AM
Modified: 7/19/2017 11:51:31 AM

Invalid Samples

Sample 7 has not been run, no results available.

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.