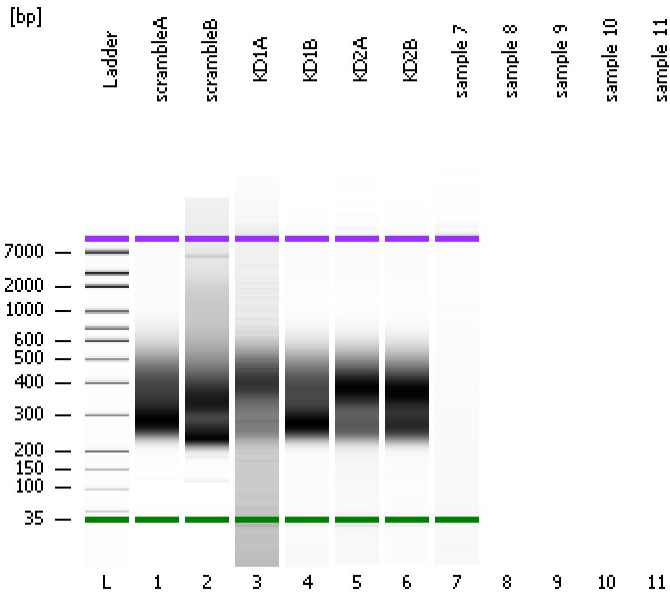


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
Modified: 7/20/2017 12:05:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

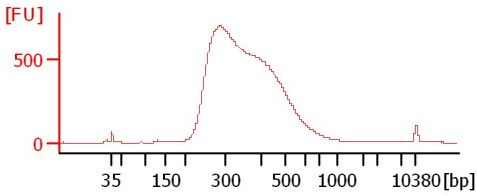
Assay Information:

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

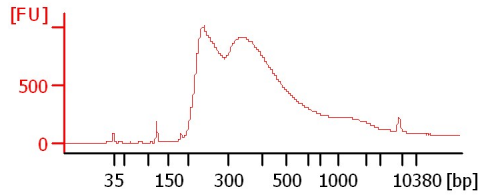
Chip Information:

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

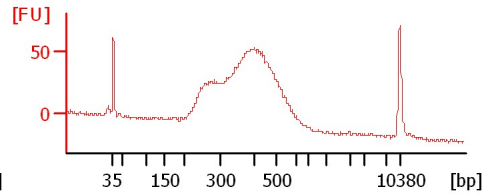
scrambleA



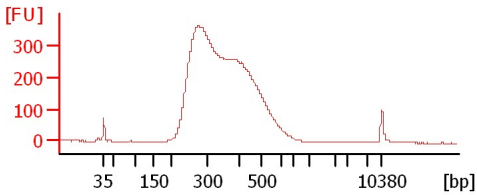
scrambleB



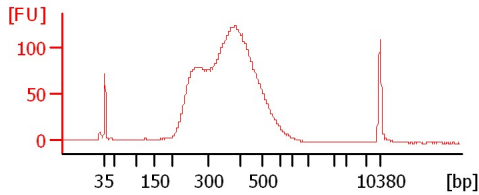
KD1A



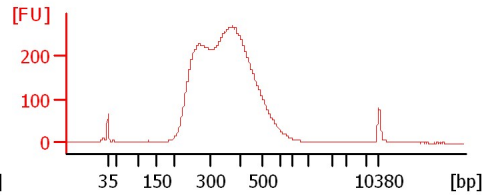
KD1B



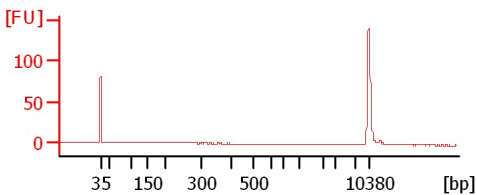
KD2A



KD2B



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
Modified: 7/20/2017 12:05:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
scrambleA		<input type="checkbox"/>	✓			
scrambleB		<input type="checkbox"/>	✓			
KD1A		<input type="checkbox"/>	✓			
KD1B		<input type="checkbox"/>	✓			
KD2A		<input type="checkbox"/>	✓			
KD2B		<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\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
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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

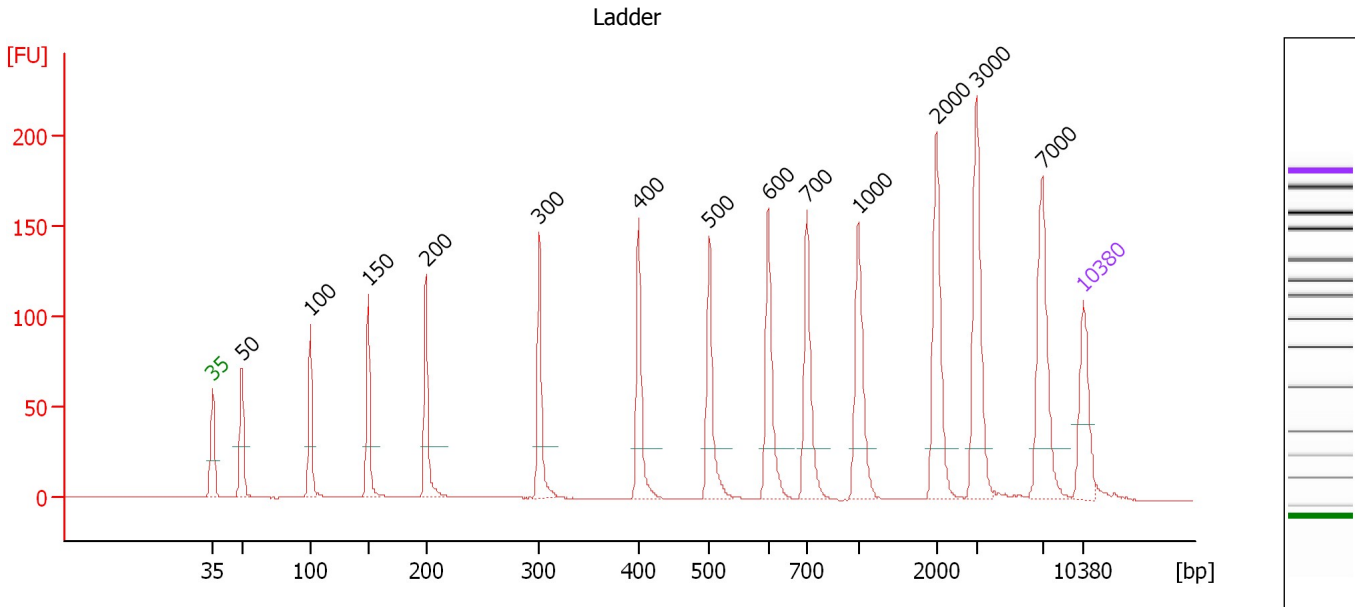
Ladder

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\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

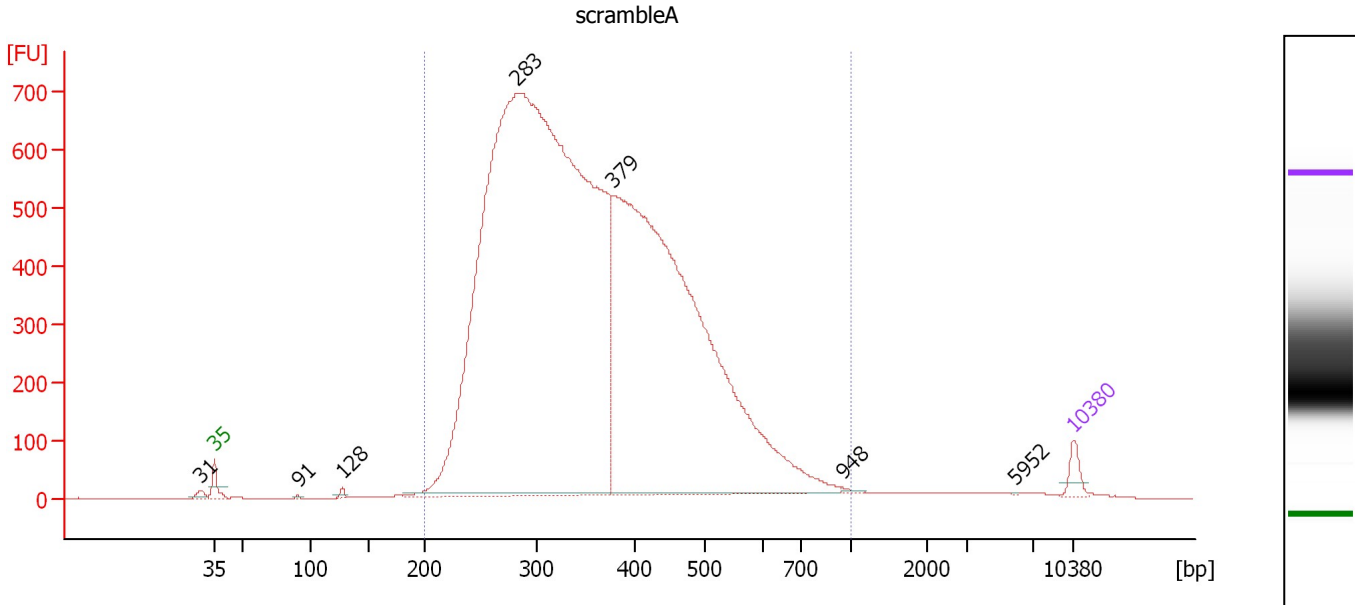
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.52
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.28
7	400	150.00	568.2	Ladder Peak	77.25
8	500	150.00	454.5	Ladder Peak	82.95
9	600	150.00	378.8	Ladder Peak	87.67
10	700	150.00	324.7	Ladder Peak	90.75
11	1,000	150.00	227.3	Ladder Peak	94.91
12	2,000	150.00	113.6	Ladder Peak	101.17
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.70
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : scrambleA

Number of peaks found: 7 Corr. Area 1: 16,721.3
 Noise: 0.2

Peak table for sample 1 : scrambleA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.91
2	35	125.00	5,411.3	Lower Marker	43.00
3	91	8.47	141.5		49.82
4	128	24.48	289.6		53.47
5	283	15,461.25	82,780.5		67.72
6	379	7,658.43	30,647.5		75.54
7	948	14.93	23.9		94.19
8	5,952	2.29	0.6		108.31
9	10,380	75.00	10.9	Upper Marker	113.00

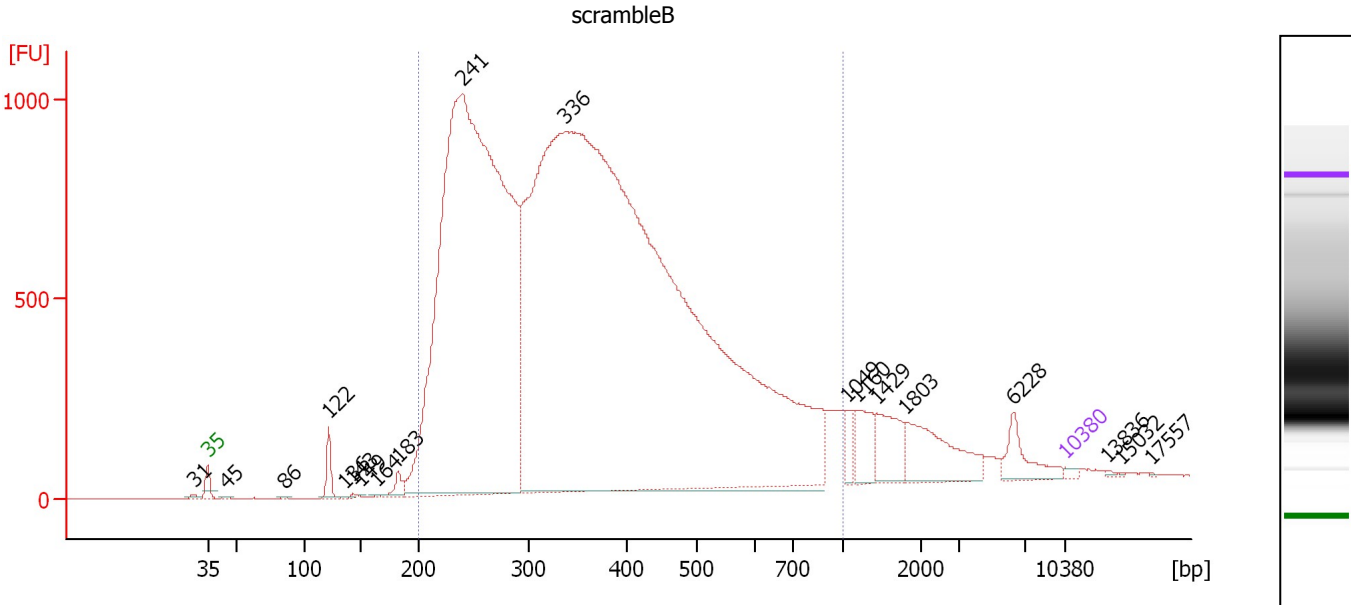
Region table for sample 1 : scrambleA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	369	16,721.3	100,224.1	22,098.34	98	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : scrambleB

Number of peaks found: 19 Corr. Area 1: 28,355.2
 Noise: 0.2

Peak table for sample 2 : scrambleB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.88
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	68.57	2,313.3		44.56
4	86	39.77	696.8		49.36
5	122	717.54	8,905.8		52.91
6	136	19.11	213.0		54.21
7	143	47.82	507.0		54.85
8	149	21.07	214.4		55.42
9	164	26.62	246.1		56.80
10	183	406.92	3,368.6		58.57
11	241	45,024.48	283,541.7		63.85
12	336	75,831.63	341,795.6		72.16
13	1,049	417.46	602.8		95.22
14	1,160	970.79	1,268.2		95.91
15	1,429	1,202.56	1,274.7		97.60
16	1,803	1,868.72	1,570.6		99.93
17	6,228	774.37	188.4		108.67
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,836	0.00	0.0		116.37
20	15,032	0.00	0.0		117.54
21	17,557	0.00	0.0		120.01

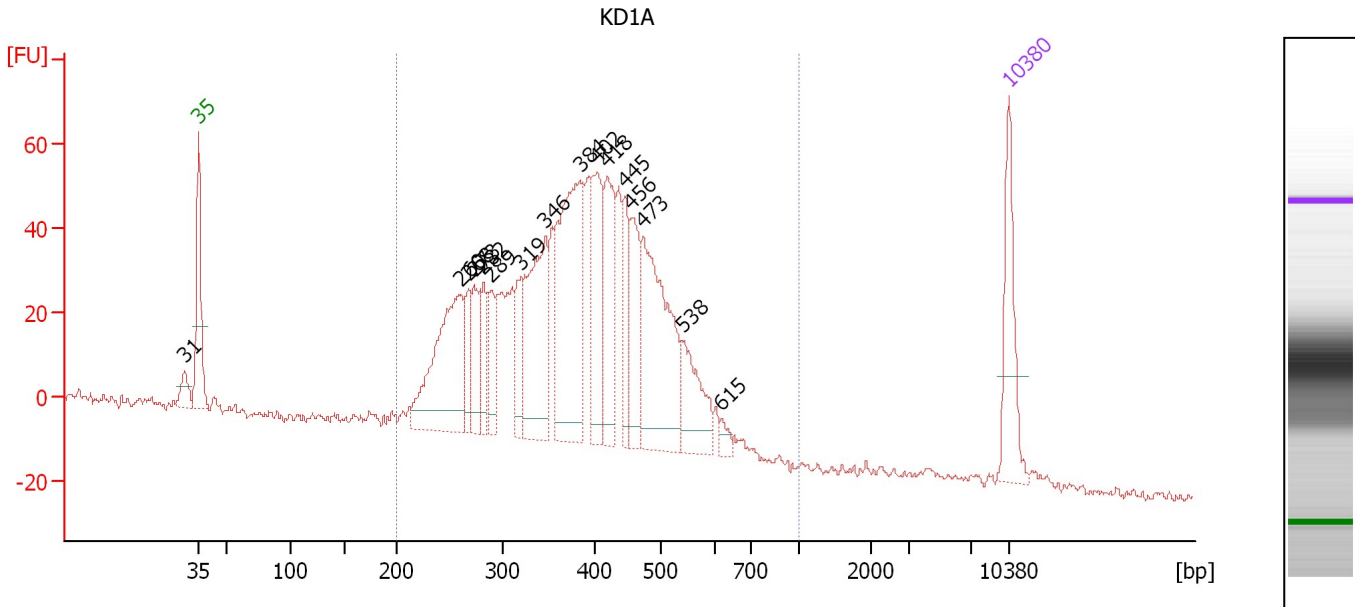
Region table for sample 2 : scrambleB

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	379	28,355.2	517,134.9	110,412.24	93	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : KD1A

Number of peaks found: 16 Corr. Area 1: 1,421.8
 Noise: 1.2

Peak table for sample 3 : KD1A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.76
2	35	125.00	5,411.3	Lower Marker	43.00
3	260	235.25	1,373.5		65.58
4	268	49.14	278.2		66.32
5	273	65.29	362.8		66.78
6	282	49.31	265.2		67.61
7	289	54.67	286.3		68.30
8	319	48.25	229.2		70.79
9	346	194.17	850.0		72.95
10	384	278.57	1,100.1		75.95
11	402	131.81	496.5		77.38
12	418	116.95	423.5		78.30
13	445	59.72	203.3		79.82
14	456	88.34	293.8		80.42
15	473	231.91	742.3		81.43
16	538	81.38	229.1		84.75
17	615	10.78	26.6		88.12
18	10,380	75.00	10.9	Upper Marker	113.00

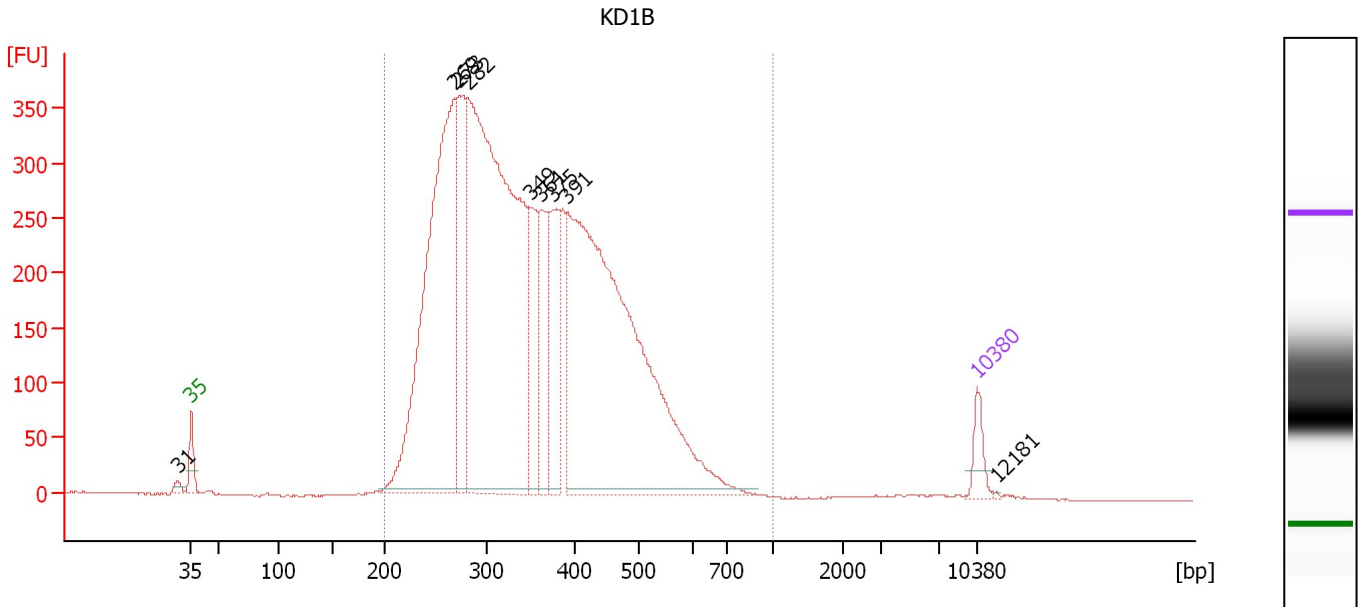
Region table for sample 3 : KD1A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	389	1,421.8	8,696.2	2,041.04	96	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : KD1B

Number of peaks found: 9 Corr. Area 1: 8,230.7
 Noise: 0.5

Peak table for sample 4 : KD1B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.76
2	35	125.00	5,411.3	Lower Marker	43.00
3	269	2,384.63	13,415.3		66.48
4	273	633.64	3,510.4		66.86
5	282	3,622.71	19,441.2		67.66
6	349	379.70	1,648.8		73.18
7	361	409.08	1,714.9		74.17
8	375	419.81	1,698.3		75.22
9	391	3,021.61	11,702.0		76.55
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,181	0.00	0.0		114.76

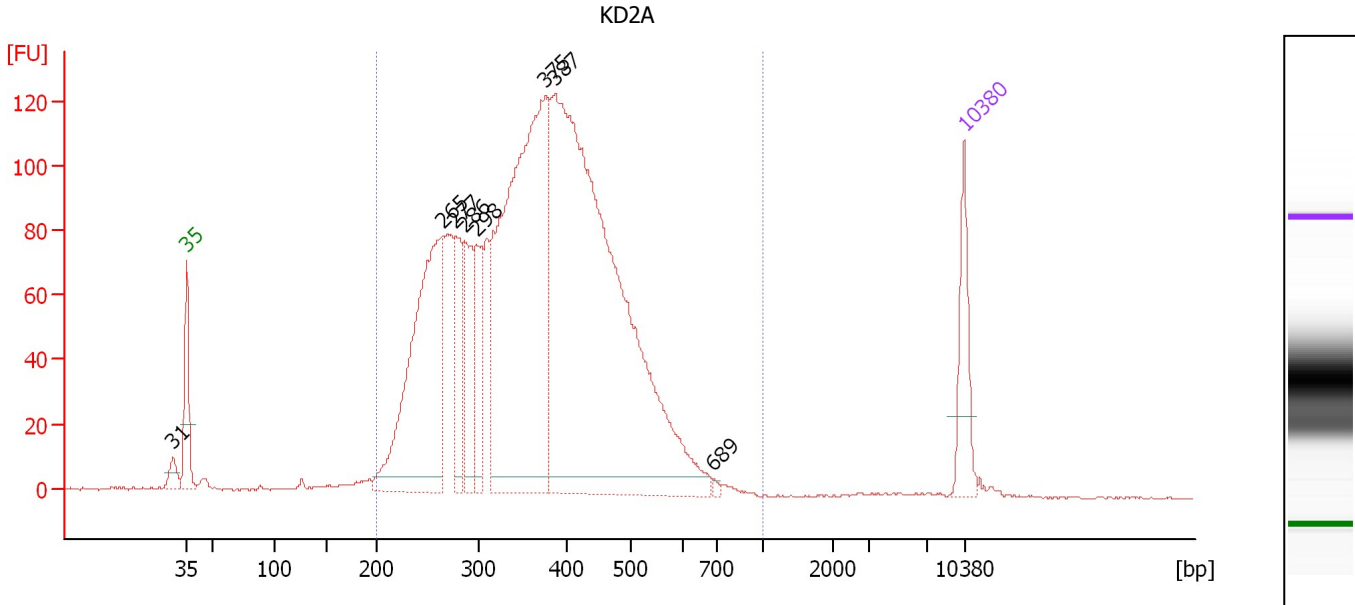
Region table for sample 4 : KD1B

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	358	8,230.7	50,722.6	10,942.59	99	26.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : KD2A

Number of peaks found: 8 Corr. Area 1: 2,769.3
 Noise: 0.3

Peak table for sample 5 : KD2A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.80
2	35	125.00	5,411.3	Lower Marker	43.00
3	265	559.06	3,197.0		66.08
4	277	134.35	734.7		67.18
5	286	143.29	759.2		68.00
6	298	124.09	631.9		69.05
7	375	895.62	3,620.5		75.24
8	387	1,432.77	5,611.7		76.20
9	689	4.88	10.7		90.40
10	10,380	75.00	10.9	Upper Marker	113.00

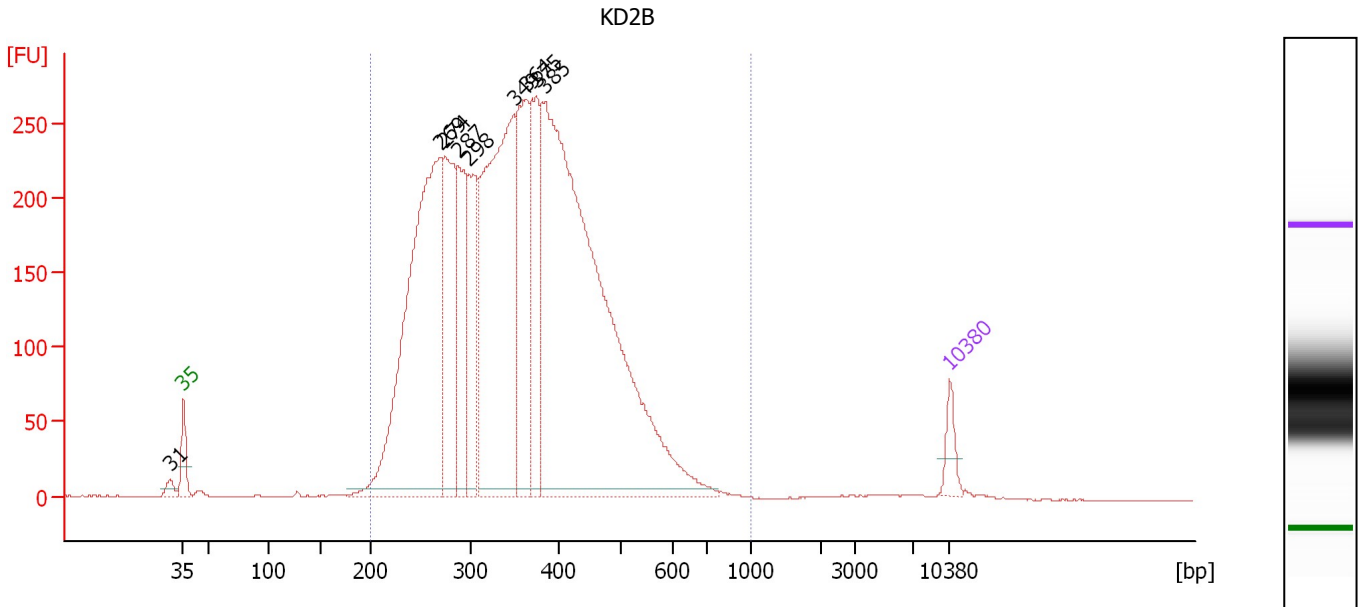
Region table for sample 5 : KD2A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	373	2,769.3	15,700.4	3,536.24	97	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : KD2B

Number of peaks found: 9 Corr. Area 1: 6,541.0
 Noise: 0.3

Peak table for sample 6 : KD2B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.78
2	35	125.00	5,411.3	Lower Marker	43.00
3	269	2,422.61	13,627.0		66.48
4	274	791.05	4,371.7		66.92
5	287	598.27	3,158.8		68.09
6	298	515.83	2,621.2		69.11
7	349	1,900.59	8,245.8		73.20
8	364	779.19	3,244.3		74.37
9	375	590.99	2,388.5		75.25
10	385	3,850.39	15,166.3		76.03
11	10,380	75.00	10.9	Upper Marker	113.00

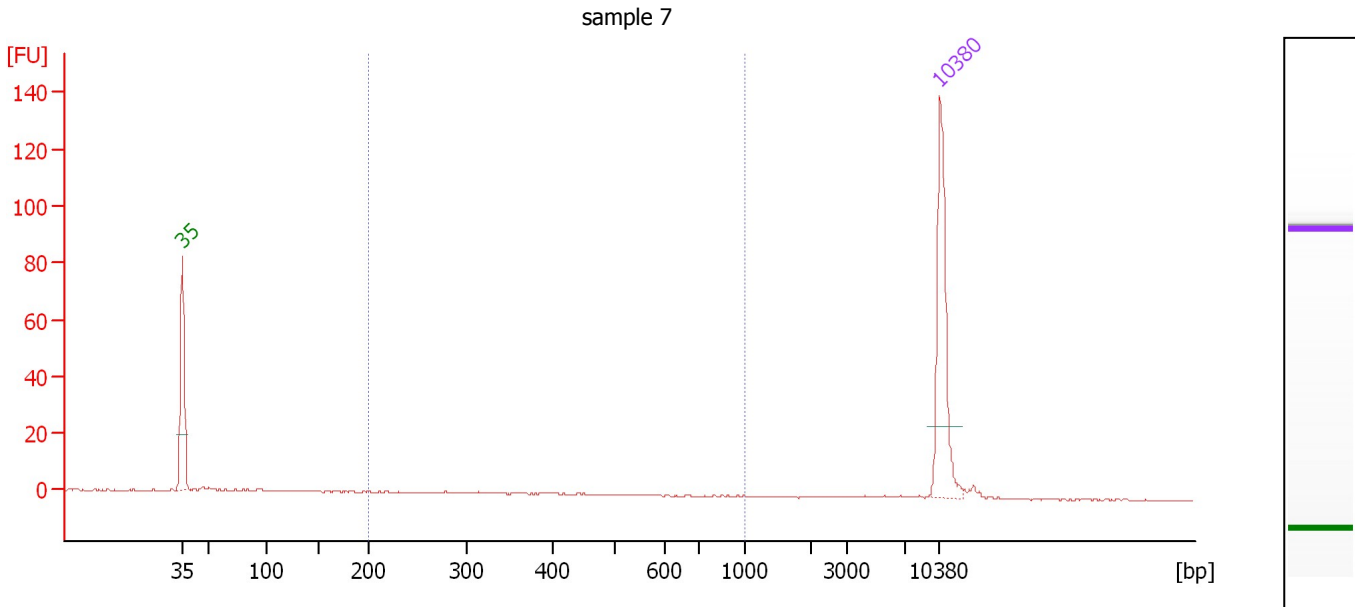
Region table for sample 6 : KD2B

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	361	6,541.0	53,064.5	11,589.15	98	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
 Modified: 7/20/2017 12:05:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 0 Corr. Area 1: 4.5
 Noise: 0.2

Peak table for sample 7 : sample 7

Pea k	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

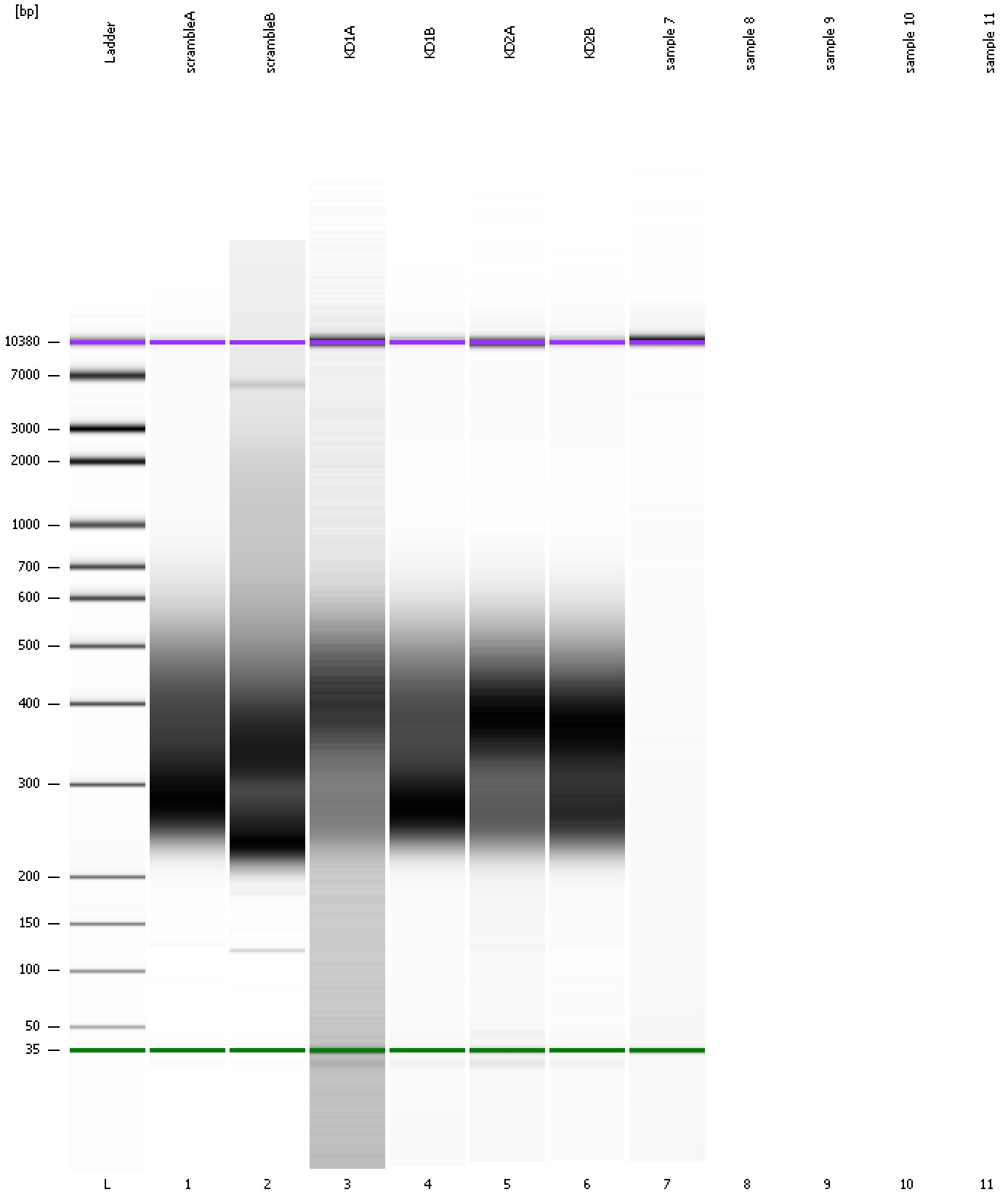
Region table for sample 7 : sample 7

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	337	4.5	23.1	4.56	20	33.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
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Gel Image

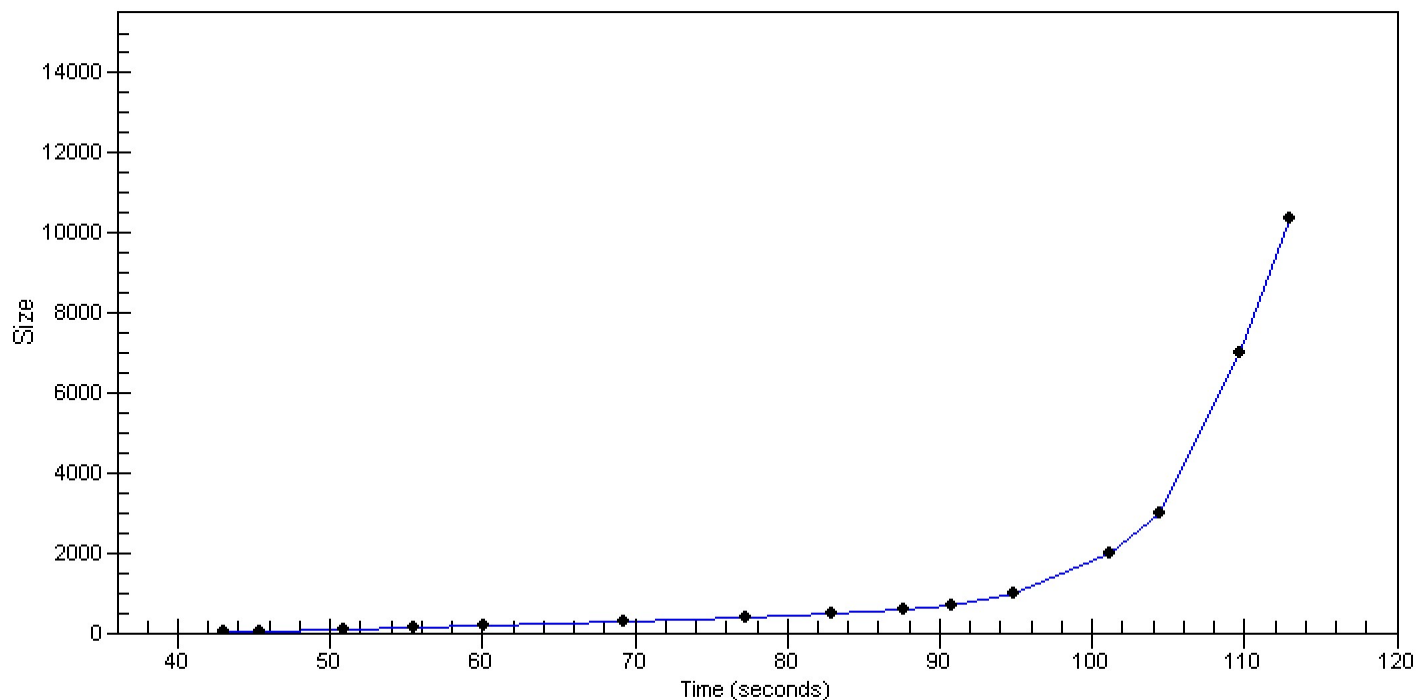


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
Modified: 7/20/2017 12:05:47 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-20\2017-07-20_001.xad

Created: 7/20/2017 11:35:51 AM
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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.