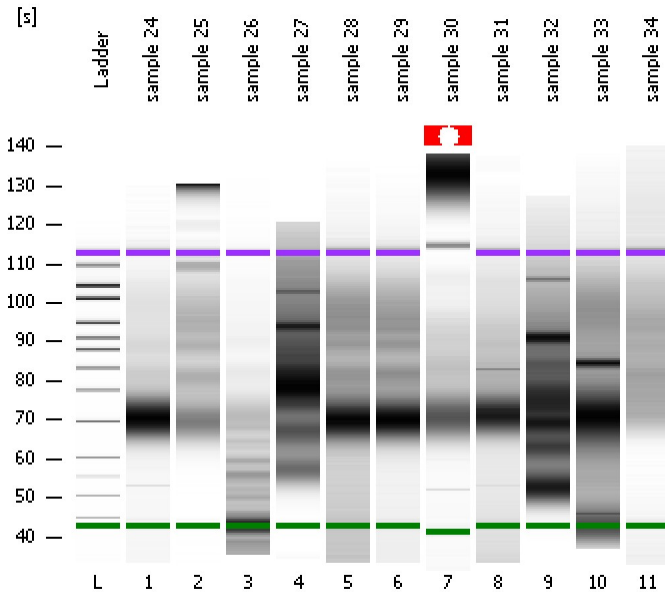


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 PM

Electrophoresis File Run Summary



Instrument Information:

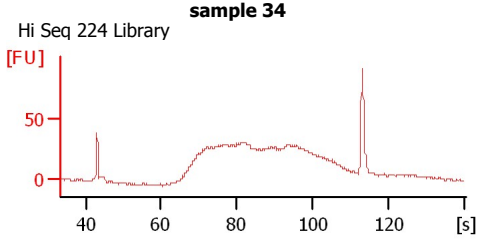
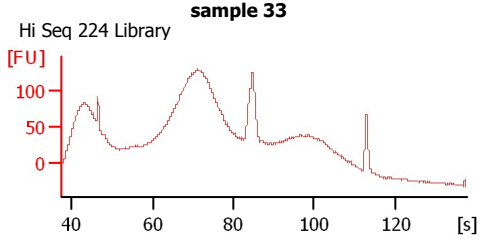
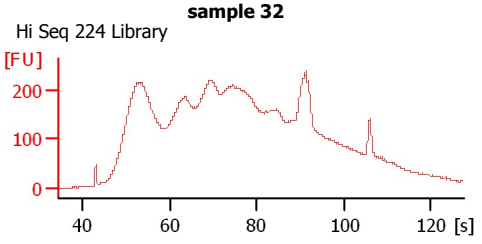
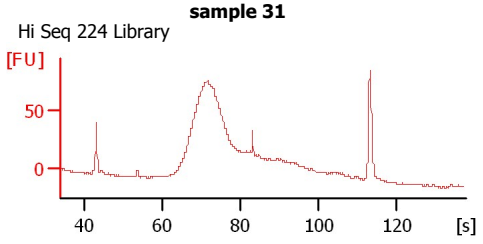
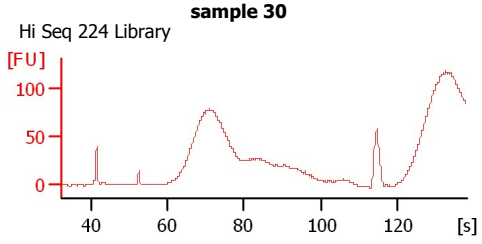
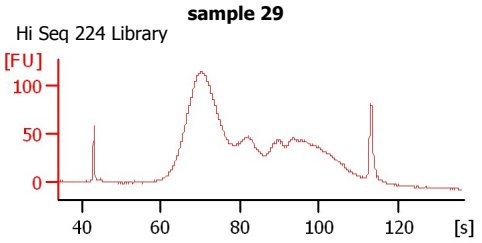
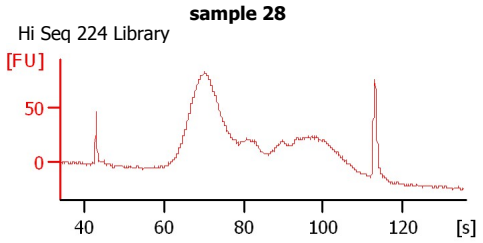
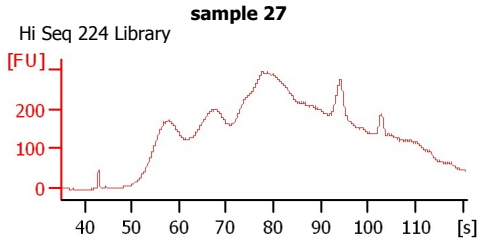
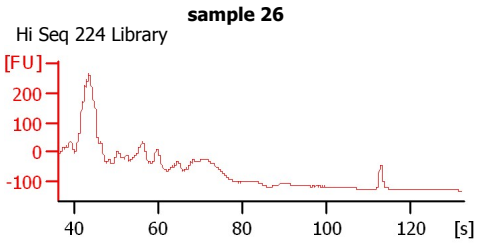
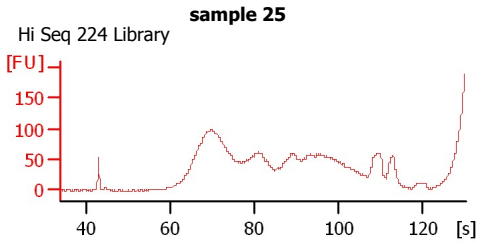
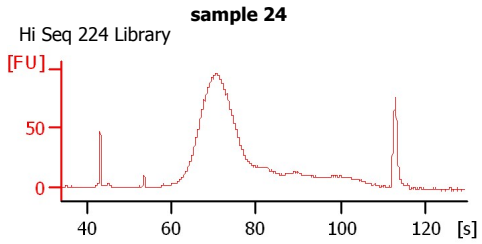
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 24	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 25	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 26	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 27	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 28	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 29	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 30	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 31	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 32	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 33	Hi Seq 224 Library	<input type="checkbox"/>	✓			
sample 34	Hi Seq 224 Library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 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

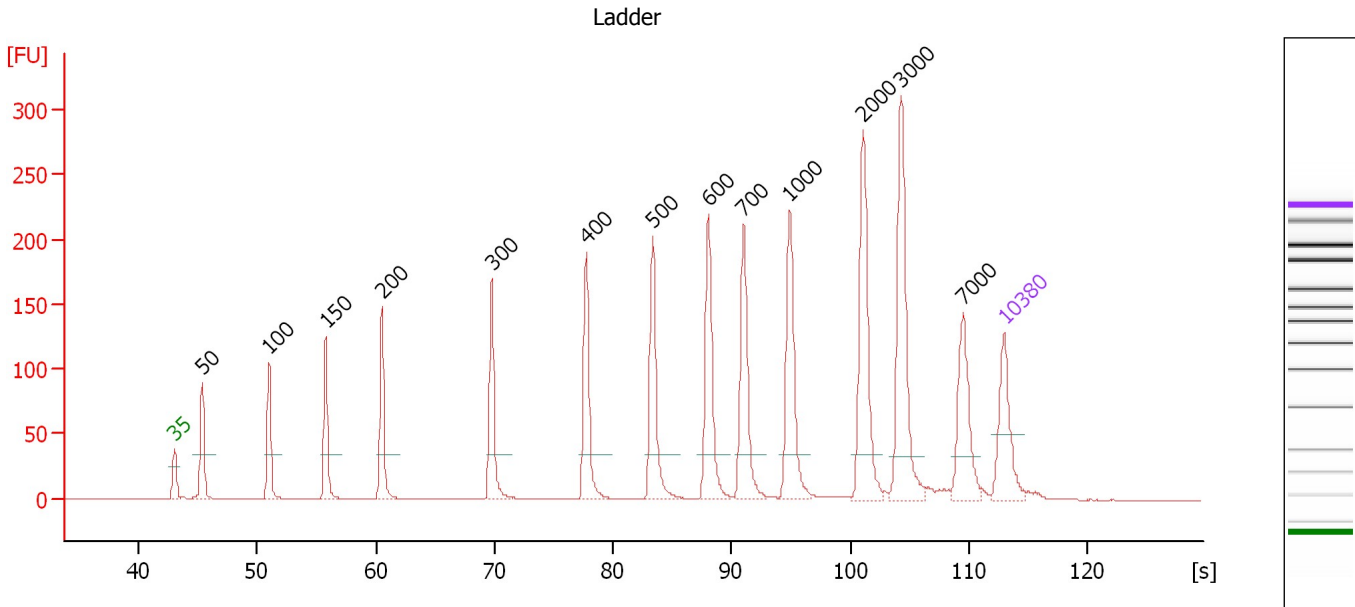
Ladder

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:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

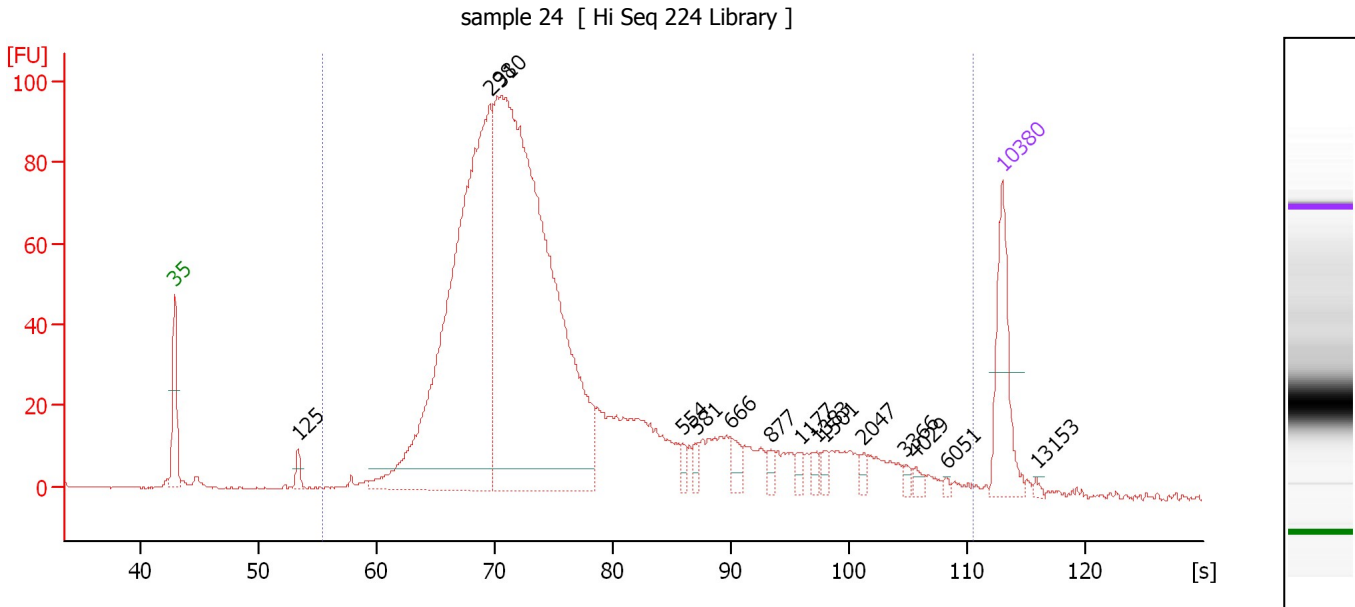
Peak table for Ladder

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	50.97
4	150	150.00	1,515.2	Ladder Peak	55.78
5	200	150.00	1,136.4	Ladder Peak	60.49
6	300	150.00	757.6	Ladder Peak	69.78
7	400	150.00	568.2	Ladder Peak	77.75
8	500	150.00	454.5	Ladder Peak	83.37
9	600	150.00	378.8	Ladder Peak	88.08
10	700	150.00	324.7	Ladder Peak	91.03
11	1,000	150.00	227.3	Ladder Peak	94.92
12	2,000	150.00	113.6	Ladder Peak	101.08
13	3,000	150.00	75.8	Ladder Peak	104.30
14	7,000	150.00	32.5	Ladder Peak	109.51
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 24

Number of peaks found: 15 Corr. Area 1: 1,820.0
 Noise: 0.2

Peak table for sample 1 : sample 24

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	13.99	169.2		53.40
3	298	824.13	4,186.0		69.62
4	310	1,133.65	5,541.1		70.57
5	554	10.06	27.5		85.93
6	581	9.86	25.7		87.20
7	666	18.34	41.8		90.01
8	877	8.38	14.5		93.33
9	1,177	8.28	10.7		96.01
10	1,383	8.02	8.8		97.28
11	1,501	8.14	8.2		98.01
12	2,047	6.56	4.9		101.23
13	3,366	4.56	2.1		104.78
14	4,029	6.11	2.3		105.64
15	6,051	2.86	0.7		108.28
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,153	0.00	0.0		115.86

Region table for sample 1 : sample 24

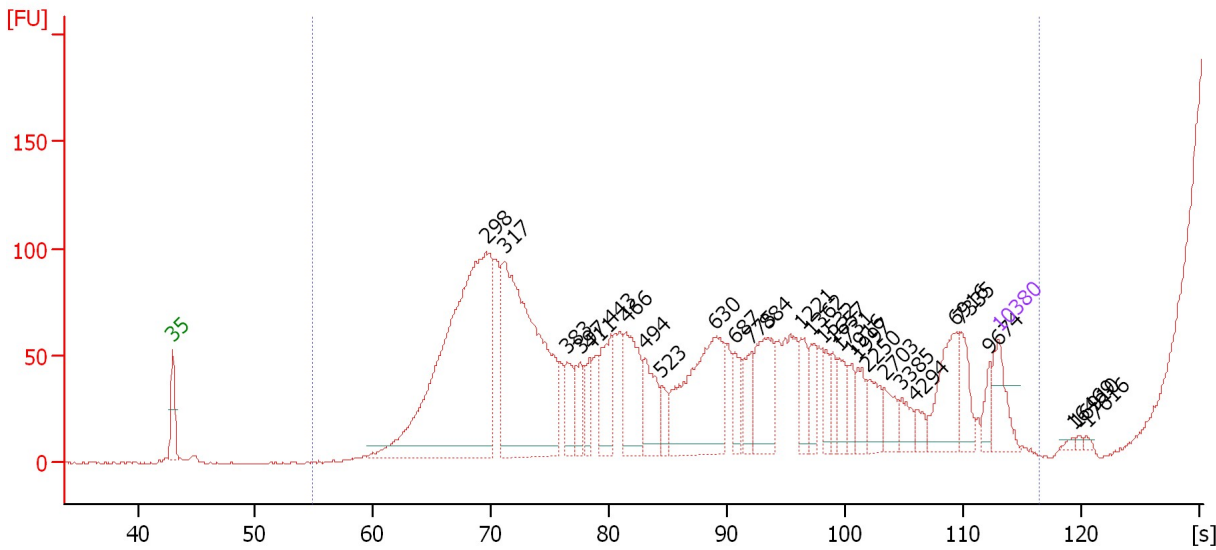
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
148	7,929	562	1,820.0	10,841.4	2,422.36	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

sample 25 [Hi Seq 224 Library]



Overall Results for sample 2 : sample 25

Number of peaks found: 30 Corr. Area 1: 302.2
 Noise: 0.5

Peak table for sample 2 : sample 25

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	298	1,360.56	6,927.5		69.55
3	317	942.42	4,510.2		71.10
4	383	90.89	359.2		76.43
5	397	82.36	314.2		77.52
6	411	65.44	241.0		78.39
7	443	151.17	517.1		80.16
8	466	192.97	627.9		81.44
9	494	124.68	382.4		83.03
10	523	44.62	129.3		84.44
11	630	376.88	907.0		88.95
12	687	67.56	149.0		90.64
13	775	79.72	155.8		92.00
14	884	162.35	278.3		93.42
15	1,221	61.96	76.9		96.29
16	1,362	54.45	60.6		97.15
17	1,532	40.20	39.8		98.20
18	1,657	38.05	34.8		98.97
19	1,731	48.96	42.8		99.43
20	1,916	36.98	29.2		100.57
21	1,997	45.62	34.6		101.07
22	2,250	58.13	39.1		101.89
23	2,703	48.29	27.1		103.34
24	3,385	37.89	17.0		104.80
25	4,294	22.64	8.0		105.99

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 25

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,916	136.92	30.0		109.40
27	7,335	68.68	14.2		109.86
28	9,674	33.42	5.2		112.27
29	10,380	75.00	10.9	Upper Marker	113.00
30	16,469	0.00	0.0		119.28
31	16,910	0.00	0.0		119.74
32	17,616	0.00	0.0		120.47

Region table for sample 2 : sample 25

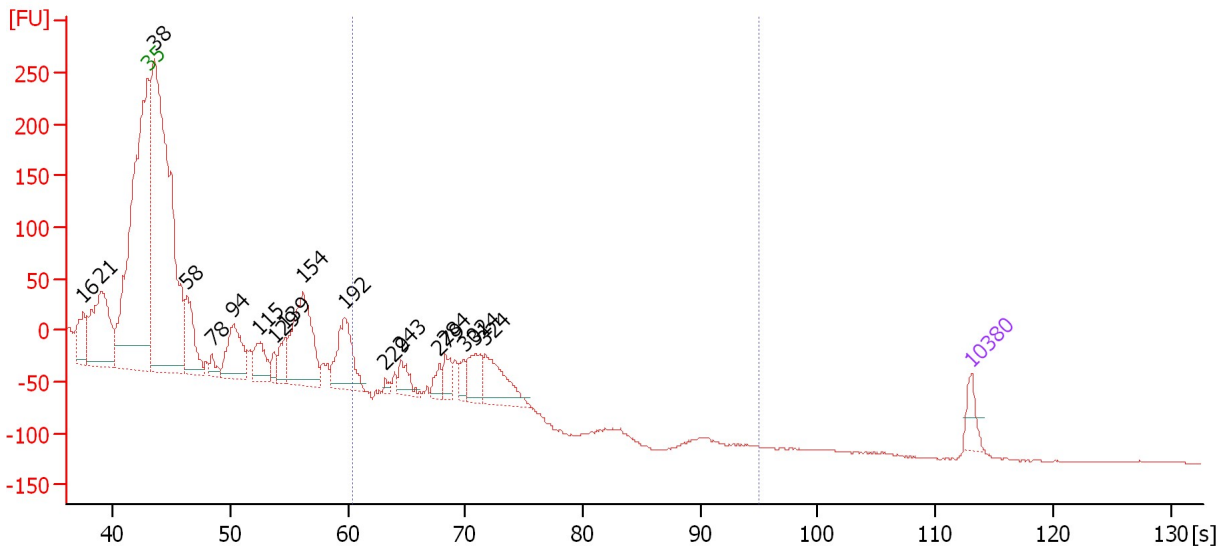
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
140	13,750	300	302.2	2,996.0	589.25	100	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

sample 26 [Hi Seq 224 Library]



Overall Results for sample 3 : sample 26

Number of peaks found: 18 Corr. Area 1: 139.0
 Noise: 0.6

Peak table for sample 3 : sample 26

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	16	0.00	0.0		37.48
2	21	0.00	0.0		39.03
3	35	125.00	5,411.3	Lower Marker	43.00
4	38	4,137.06	162,879.6		43.55
5	58	444.44	11,559.7		46.28
6	78	83.49	1,627.3		48.47
7	94	459.75	7,445.1		50.25
8	115	236.51	3,121.9		52.39
9	129	79.81	937.2		53.76
10	139	165.75	1,813.0		54.67
11	154	807.64	7,932.2		56.18
12	192	440.83	3,487.3		59.69
13	229	26.44	174.8		63.20
14	243	127.27	792.1		64.52
15	279	74.81	406.5		67.81
16	284	111.71	595.5		68.31
17	302	69.11	347.2		69.91
18	314	187.48	905.7		70.86
19	324	297.38	1,388.6		71.73
20	10,380	75.00	10.9	Upper Marker	113.00

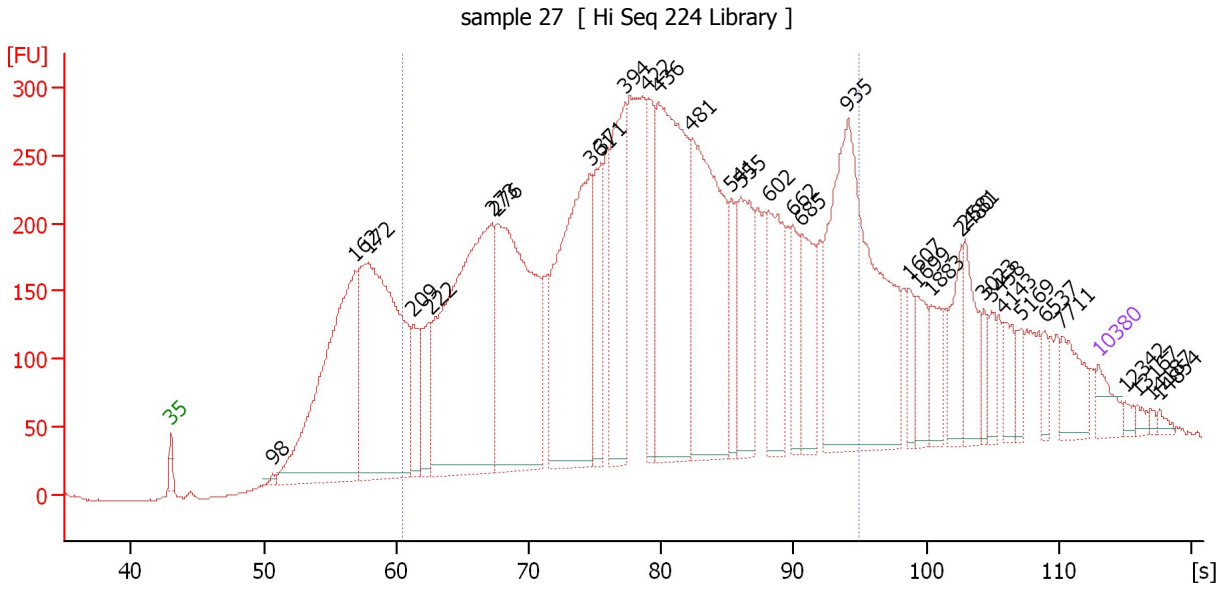
Region table for sample 3 : sample 26

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	309	139.0	1,302.3	264.48	7	7.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 27

Number of peaks found: 34 Corr. Area 1: 9,507.5
 Noise: 0.5

Peak table for sample 4 : sample 27

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	98	18.24	283.4		50.70
3	162	1,820.24	17,038.7		56.89
4	172	2,126.17	18,710.0		57.87
5	209	268.29	1,946.4		61.31
6	222	259.47	1,768.0		62.57
7	273	2,030.41	11,288.6		67.22
8	276	1,579.20	8,655.3		67.59
9	361	1,396.57	5,862.2		74.64
10	371	369.55	1,508.7		75.45
11	394	678.30	2,605.2		77.31
12	422	346.22	1,243.8		78.97
13	436	1,312.24	4,558.5		79.78
14	481	1,154.09	3,636.4		82.29
15	541	189.29	530.3		85.29
16	555	445.26	1,214.7		85.98
17	602	389.27	980.4		88.13
18	662	195.45	447.3		89.91
19	685	321.64	710.9		90.60
20	935	1,394.40	2,258.8		94.08
21	1,607	85.20	80.4		98.66
22	1,699	135.94	121.3		99.23
23	1,883	125.08	100.7		100.36
24	2,480	151.39	92.5		102.63
25	2,581	182.67	107.2		102.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 27

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,023	55.83	28.0		104.33
27	3,458	67.33	29.5		104.90
28	4,143	87.89	32.1		105.79
29	5,169	57.80	16.9		107.13
30	6,537	48.08	11.1		108.91
31	7,711	143.83	28.3		110.25
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,342	0.00	0.0		115.03
34	13,167	0.00	0.0		115.88
35	14,187	0.00	0.0		116.93
36	14,854	0.00	0.0		117.62

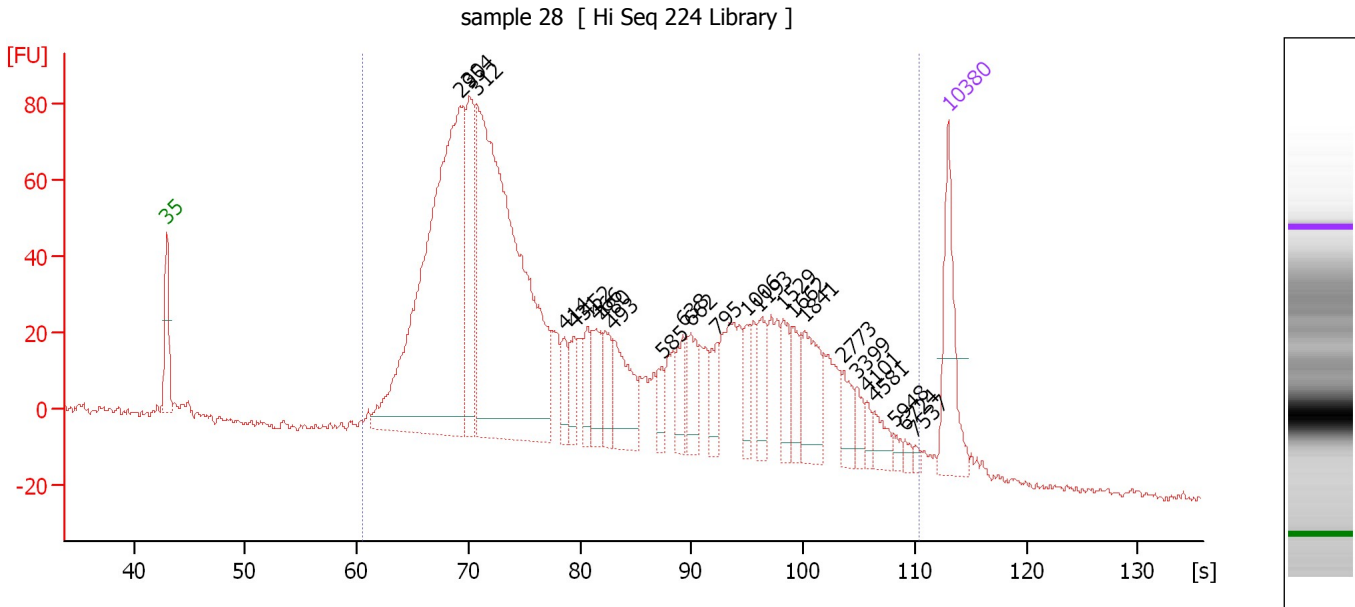
Region table for sample 4 : sample 27

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	462	9,507.5	56,719.0	13,858.70	70	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 28

Number of peaks found: 25 Corr. Area 1: 2,247.1
 Noise: 1.0

Peak table for sample 5 : sample 28

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	295	702.61	3,614.5		69.27
3	304	139.31	694.6		70.09
4	312	726.01	3,522.0		70.76
5	414	25.87	94.6		78.55
6	431	33.86	119.1		79.47
7	452	30.14	101.0		80.67
8	466	45.29	147.3		81.44
9	480	35.26	111.2		82.26
10	493	75.67	232.5		82.98
11	585	21.02	54.5		87.36
12	638	34.20	81.3		89.19
13	662	41.73	95.5		89.91
14	795	27.37	52.1		92.26
15	1,006	22.87	34.4		94.96
16	1,193	35.55	45.1		96.11
17	1,529	29.66	29.4		98.18
18	1,662	30.99	28.3		99.00
19	1,841	55.58	45.7		100.11
20	2,773	21.32	11.6		103.57
21	3,399	15.53	6.9		104.82
22	4,101	8.63	3.2		105.74
23	4,581	18.18	6.0		106.36
24	5,948	5.89	1.5		108.14
25	6,724	5.36	1.2		109.15

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : sample 28

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,537	3.58	0.7		110.07
27	10,380	75.00	10.9	Upper Marker	113.00

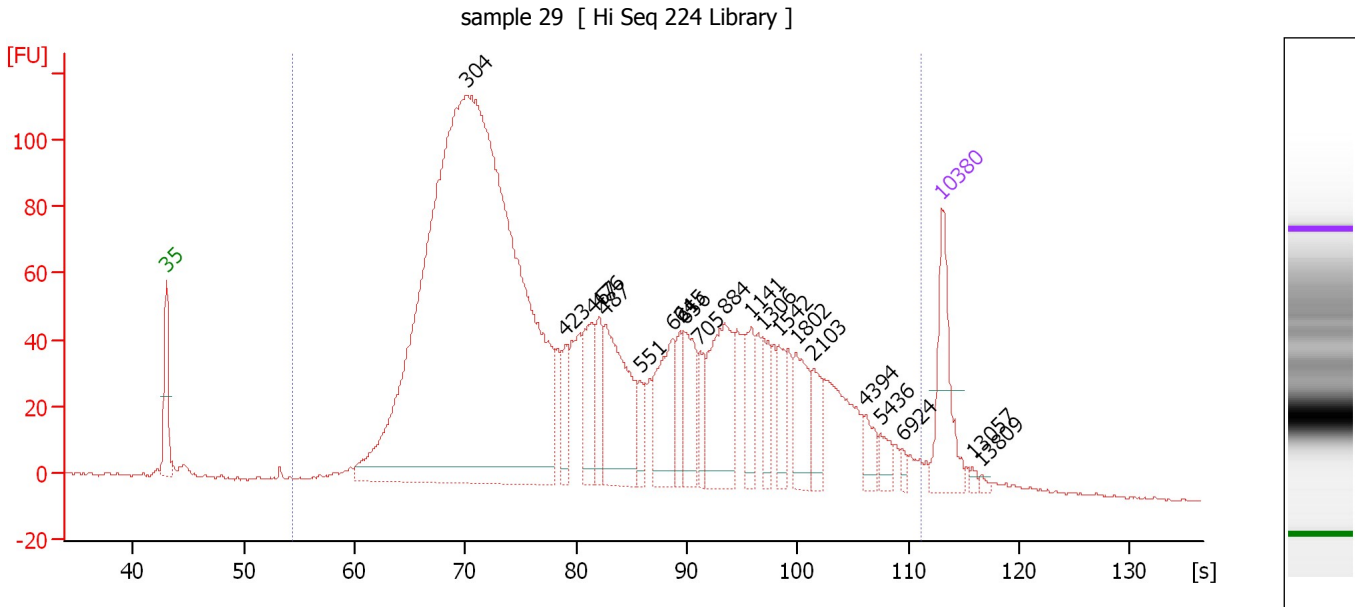
Region table for sample 5 : sample 28

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	7,813	877	2,247.1	10,156.0	2,633.64	97	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 29

Number of peaks found: 21 Corr. Area 1: 3,067.5
 Noise: 0.5

Peak table for sample 6 : sample 29

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	304	2,030.94	10,121.2		70.10
3	423	36.47	130.8		79.02
4	467	74.79	242.9		81.49
5	476	44.61	142.0		82.02
6	487	160.48	499.0		82.65
7	551	29.56	81.3		85.76
8	621	89.24	217.6		88.71
9	645	38.07	89.5		89.39
10	656	63.95	147.7		89.73
11	705	31.19	67.0		91.09
12	884	120.57	206.7		93.42
13	1,141	42.76	56.8		95.79
14	1,306	35.11	40.7		96.81
15	1,542	30.33	29.8		98.26
16	1,802	51.21	43.1		99.86
17	2,103	31.19	22.5		101.41
18	4,394	19.50	6.7		106.12
19	5,436	16.46	4.6		107.47
20	6,924	5.83	1.3		109.41
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,057	0.00	0.0		115.76
23	13,809	0.00	0.0		116.54


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

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Electropherogram Summary Continued ...

... Region table for sample 6 :

sample 29

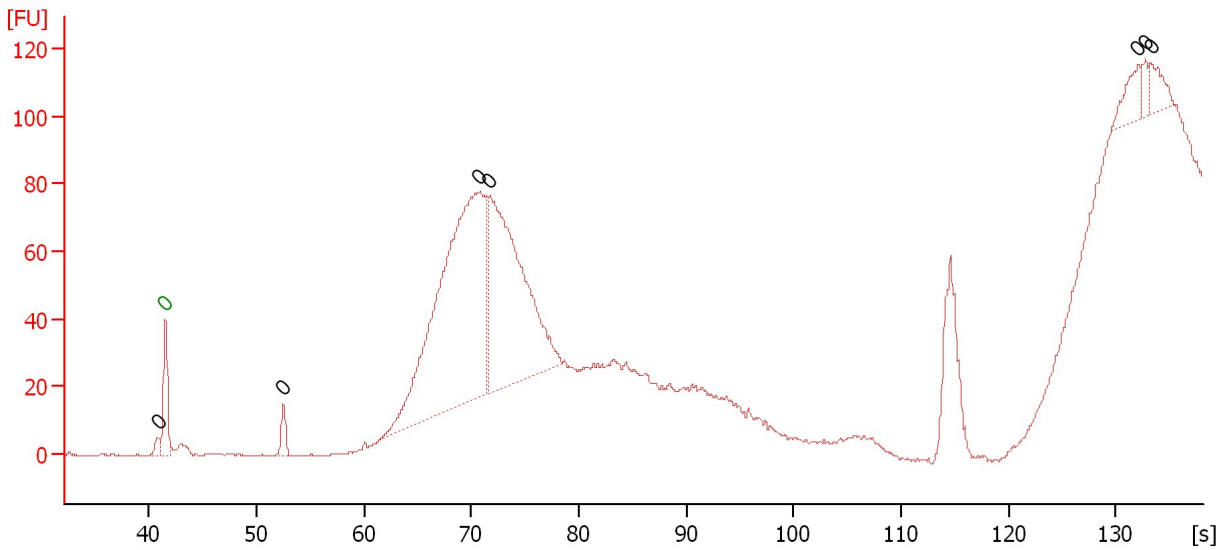
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
136	8,562	881	3,067.5	12,895.7	 3,316.46	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

sample 30 [Hi Seq 224 Library]



Overall Results for sample 7 : sample 30

Number of peaks found: 7 Noise: 0.2

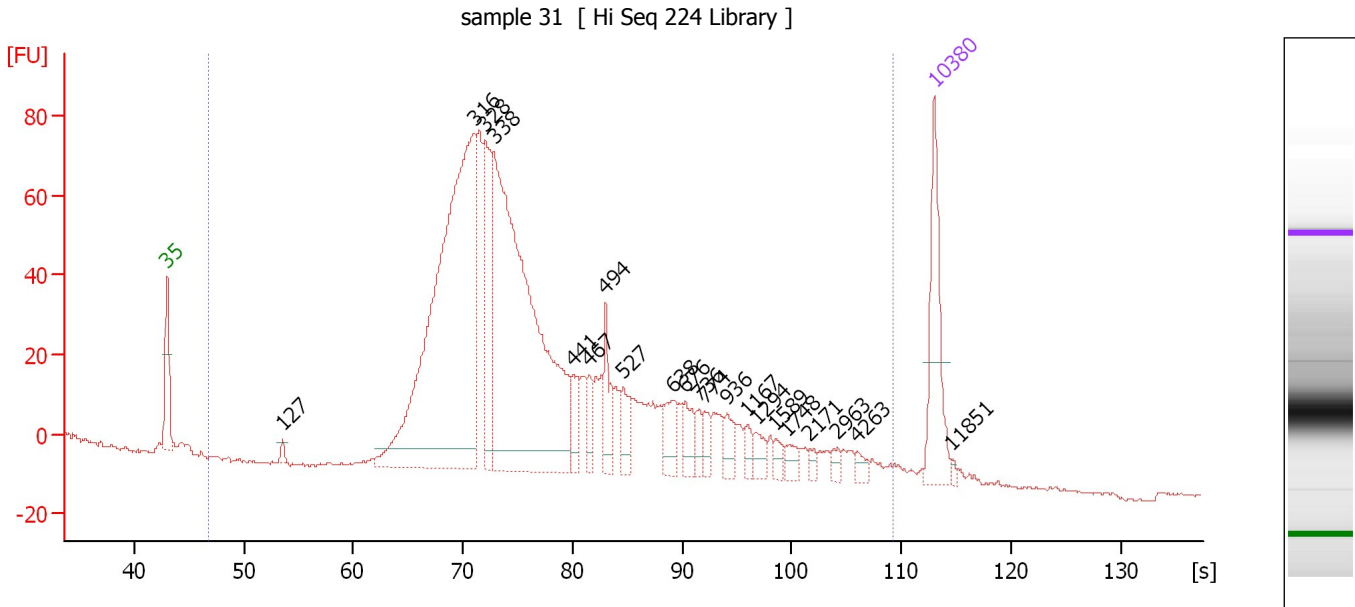
Peak table for sample 7 : sample 30

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		40.80
2	0	0.00	0.0	Lower Marker	41.50
3	0	0.00	0.0		52.50
4	0	0.00	0.0		70.60
5	0	0.00	0.0		71.65
6	0	0.00	0.0		132.05
7	0	0.00	0.0		132.75
8	0	0.00	0.0		133.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 31

Number of peaks found: 21 Corr. Area 1: 1,490.4
 Noise: 0.4

Peak table for sample 8 : sample 31

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	7.60	90.5		53.58
3	316	675.78	3,238.1		71.07
4	328	113.66	525.3		72.00
5	338	612.61	2,743.6		72.83
6	441	27.72	95.1		80.08
7	467	23.61	76.6		81.50
8	494	40.10	123.0		83.02
9	527	27.34	78.6		84.64
10	638	29.11	69.2		89.19
11	676	24.33	54.5		90.32
12	736	13.50	27.8		91.50
13	774	15.85	31.0		91.99
14	936	18.26	29.6		94.09
15	1,167	11.08	14.4		95.95
16	1,294	13.08	15.3		96.74
17	1,589	8.23	7.9		98.55
18	1,748	10.73	9.3		99.53
19	2,171	5.15	3.6		101.64
20	2,963	6.96	3.6		104.18
21	4,263	7.33	2.6		105.95
22	10,380	75.00	10.9	Upper Marker	113.00
23	11,851	0.00	0.0		114.52


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

... Region table for sample 8 :

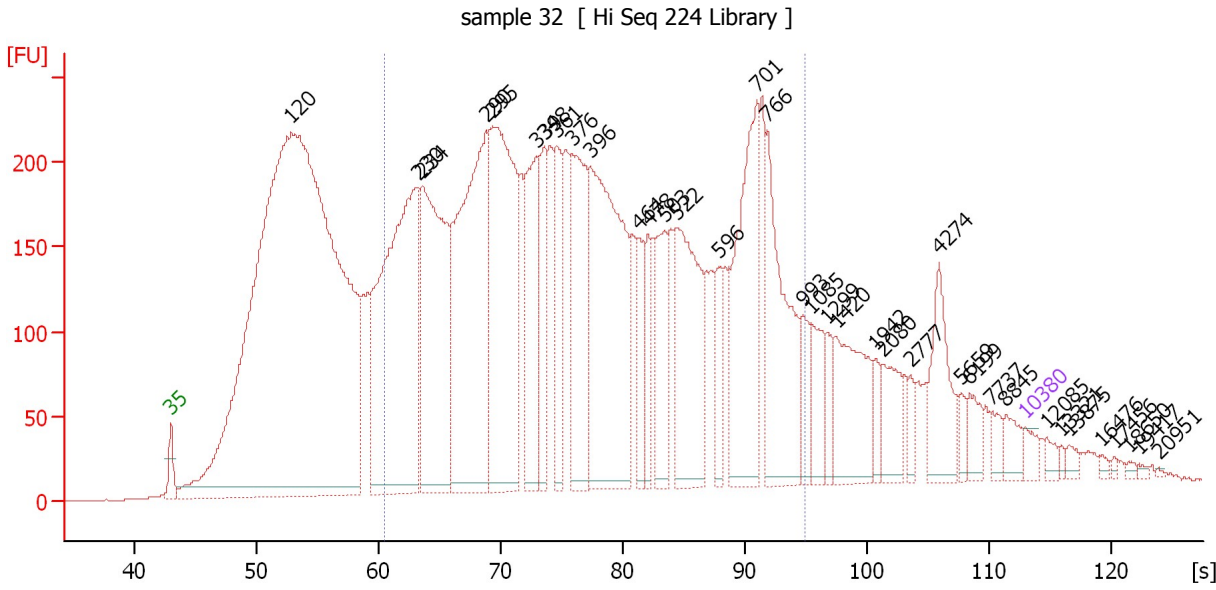
sample 31

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
63	6,780	587	1,490.4	7,781.9	 1,891.05	99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 32

Number of peaks found: 37 Corr. Area 1: 8,379.3
 Noise: 0.3

Peak table for sample 9 : sample 32

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	120	14,593.09	184,893.0		52.86
3	230	3,520.76	23,232.8		63.24
4	234	2,354.50	15,253.7		63.63
5	290	2,894.86	15,136.7		68.83
6	295	2,445.09	12,538.9		69.35
7	339	1,048.23	4,679.5		72.92
8	348	574.23	2,502.5		73.58
9	361	632.38	2,654.8		74.63
10	376	1,147.57	4,619.8		75.87
11	396	2,221.67	8,507.4		77.41
12	464	306.64	1,000.6		81.37
13	478	304.88	967.1		82.11
14	503	535.86	1,613.3		83.52
15	522	1,196.58	3,473.7		84.40
16	596	260.70	663.1		87.88
17	701	1,342.28	2,899.2		91.05
18	766	1,107.06	2,190.2		91.88
19	993	200.74	306.4		94.83
20	1,085	288.36	402.7		95.44
21	1,299	142.30	166.0		96.76
22	1,420	609.07	649.7		97.51
23	1,942	109.51	85.5		100.72
24	2,080	241.06	175.6		101.34
25	2,777	78.76	43.0		103.58

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
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Electropherogram Summary Continued ...

... Peak table for sample 9 : sample 32

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,274	427.71	151.6		105.96
27	5,659	73.48	19.7		107.76
28	6,199	129.04	31.5		108.47
29	7,737	82.38	16.1		110.27
30	8,845	106.60	18.3		111.42
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,085	0.00	0.0		114.76
33	13,321	0.00	0.0		116.04
34	13,875	0.00	0.0		116.61
35	16,476	0.00	0.0		119.29
36	17,456	0.00	0.0		120.30
37	18,650	0.00	0.0		121.54
38	19,417	0.00	0.0		122.33
39	20,951	0.00	0.0		123.91

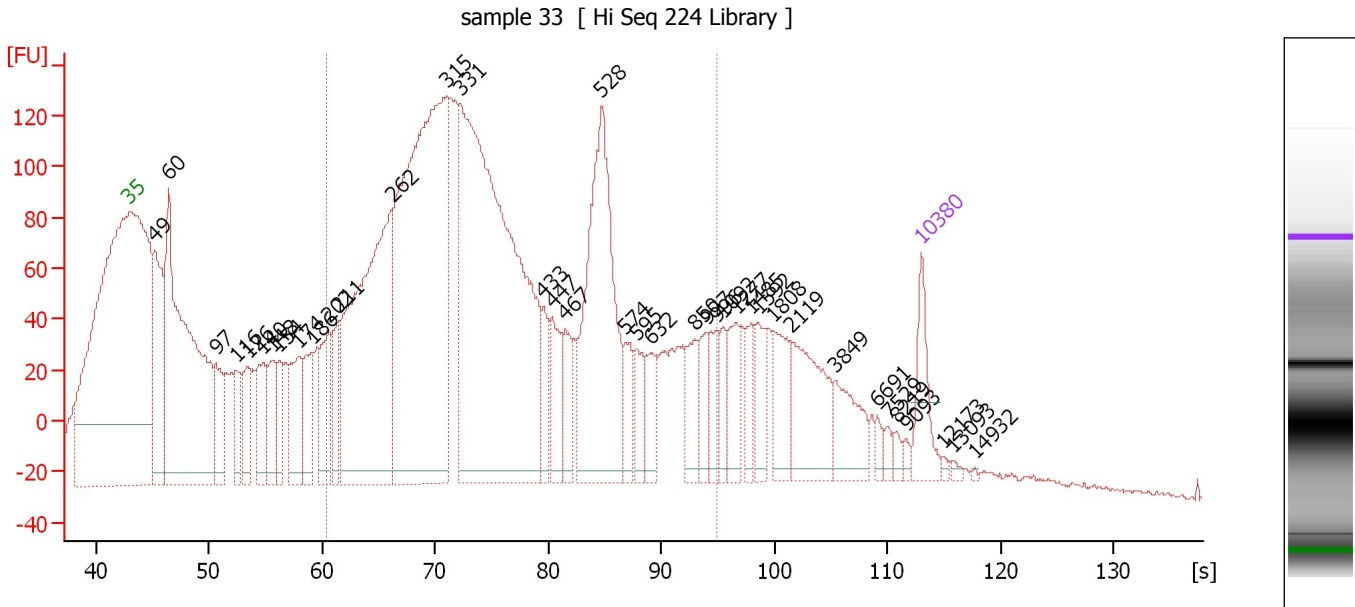
Region table for sample 9 : sample 32

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	432	8,379.3	107,717.7	24,502.25	60	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

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 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 33

Number of peaks found: 39 Corr. Area 1: 3,743.1
 Noise: 0.9

Peak table for sample 10 : sample 33

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	49	358.87	11,051.3		45.23
3	60	1,178.89	29,837.2		46.46
4	97	156.38	2,441.9		50.64
5	116	98.19	1,284.7		52.49
6	126	133.44	1,608.7		53.44
7	140	154.67	1,673.8		54.82
8	148	124.74	1,273.5		55.62
9	154	93.69	919.3		56.19
10	174	176.82	1,543.6		58.00
11	186	115.31	941.1		59.14
12	202	164.78	1,237.3		60.65
13	211	99.60	715.3		61.51
14	262	882.85	5,114.0		66.21
15	315	1,335.07	6,414.8		71.00
16	331	1,523.25	6,976.6		72.23
17	433	74.49	260.8		79.59
18	447	103.70	351.4		80.40
19	467	84.13	272.7		81.54
20	528	548.48	1,575.2		84.67
21	574	64.06	169.1		86.85
22	595	65.19	166.0		87.85
23	632	66.79	160.0		89.03
24	850	73.08	130.3		92.97
25	927	58.25	95.2		93.97

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 10 : sample 33

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	996	60.43	91.9		94.87
27	1,092	42.14	58.5		95.49
28	1,277	71.21	84.5		96.63
29	1,485	45.71	46.6		97.91
30	1,592	61.37	58.4		98.57
31	1,808	82.77	69.4		99.90
32	2,119	158.92	113.6		101.47
33	3,849	87.85	34.6		105.41
34	6,691	15.61	3.5		109.11
35	7,529	12.74	2.6		110.06
36	8,219	13.15	2.4		110.77
37	9,093	8.61	1.4		111.67
38	10,380	75.00	10.9	Upper Marker	113.00
39	12,173	0.00	0.0		114.85
40	13,093	0.00	0.0		115.80
41	14,932	0.00	0.0		117.70

Region table for sample 10 : sample 33

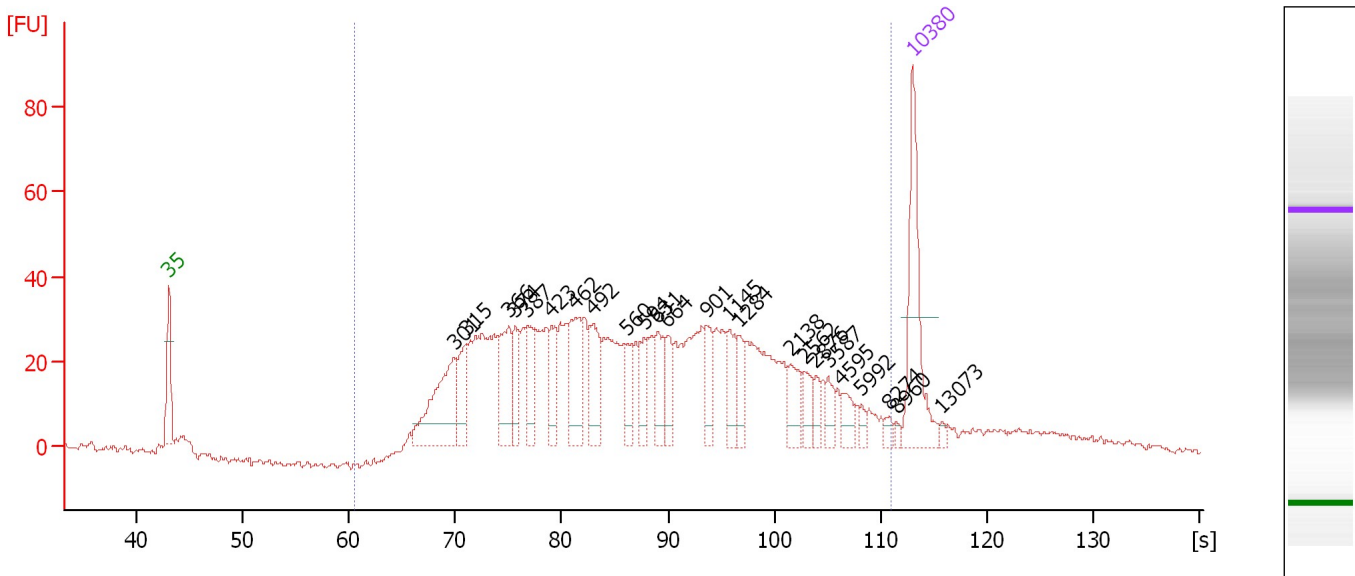
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	410	3,743.1	20,187.2	4,540.83	68	40.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...

sample 34 [Hi Seq 224 Library]



Overall Results for sample 11 : sample 34

Number of peaks found: 24 Corr. Area 1: 1,188.4
 Noise: 0.6

Peak table for sample 11 : sample 34

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	301	98.88	498.1		69.84
3	315	36.48	175.3		71.00
4	366	61.64	255.1		75.04
5	374	29.92	121.3		75.65
6	387	32.01	125.3		76.71
7	423	32.48	116.4		79.04
8	462	56.32	184.5		81.26
9	492	48.91	150.6		82.93
10	560	21.00	56.8		86.21
11	594	25.41	64.9		87.78
12	631	30.06	72.2		88.99
13	664	21.20	48.4		89.95
14	901	25.53	42.9		93.64
15	1,145	28.04	37.1		95.82
16	1,284	17.05	20.1		96.68
17	2,138	22.44	15.9		101.53
18	2,562	15.99	9.5		102.89
19	2,876	9.95	5.2		103.90
20	3,587	11.71	4.9		105.06
21	4,595	12.81	4.2		106.38
22	5,992	5.29	1.3		108.20
23	8,274	4.96	0.9		110.83
24	8,960	2.96	0.5		111.53
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 PM

Electropherogram Summary Continued ...**... Peak table for sample 11 : sample 34**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,073	0.00	0.0		115.78

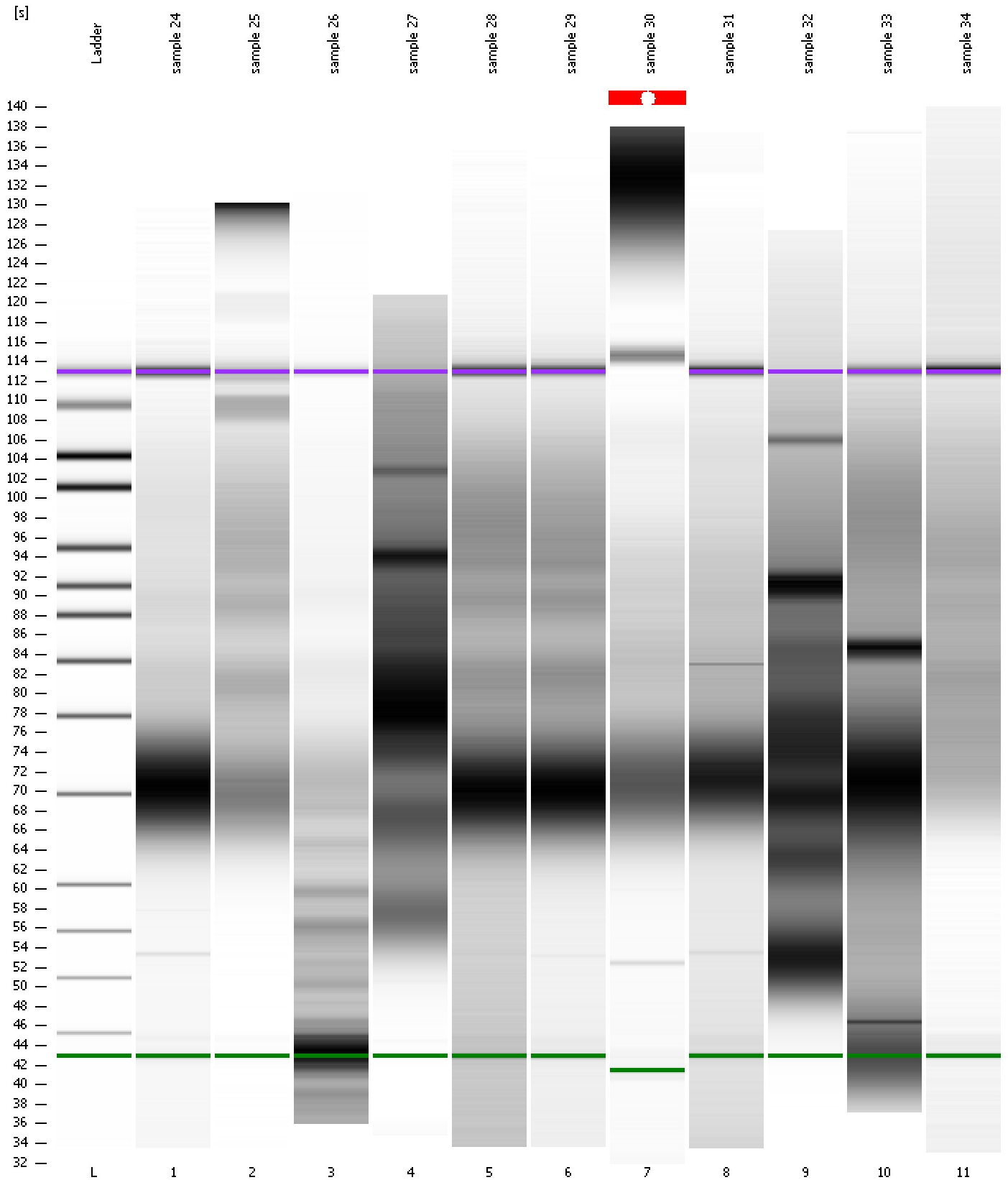
Region table for sample 11 : sample 34

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	8,400	1,114	1,188.4	4,049.1	1,360.99	94	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 PM

Gel Image

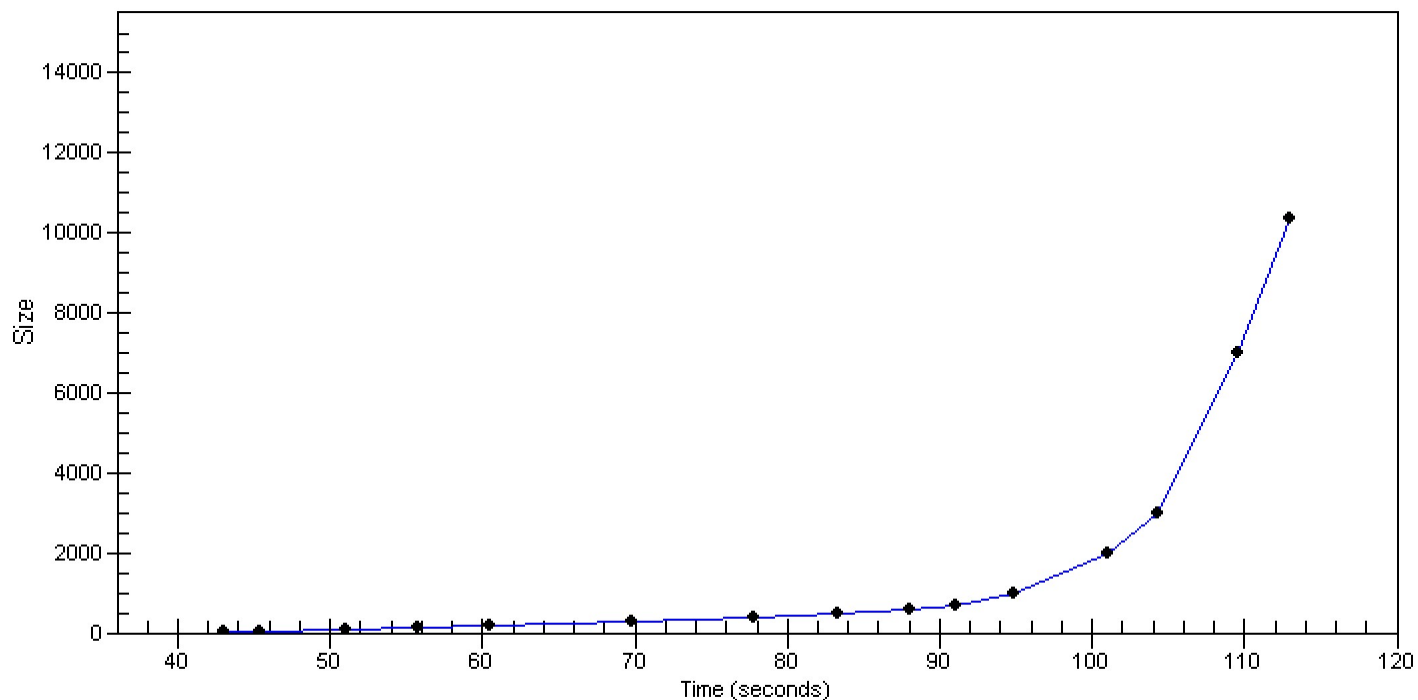


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
Modified: 10/6/2015 1:27:05 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad

Created: 10/6/2015 12:39:04 PM
 Modified: 10/6/2015 1:27:05 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		10/6/2015 1:20:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-06\2015-10-06_001.xad)		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/6/2015 12:39:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1