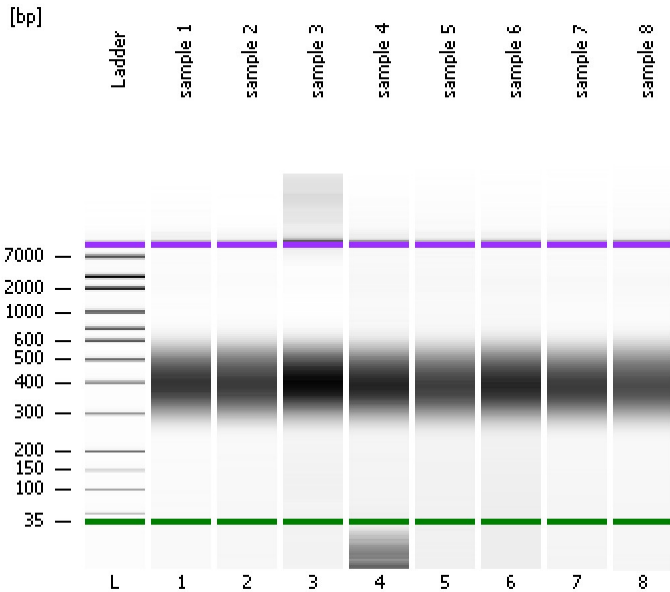


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
Modified: 10/21/2015 11:23:13 AM

Electrophoresis File Run Summary



Instrument Information:

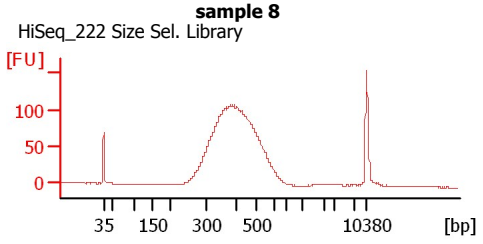
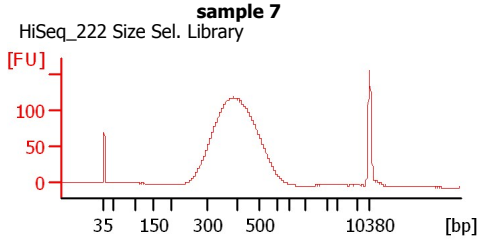
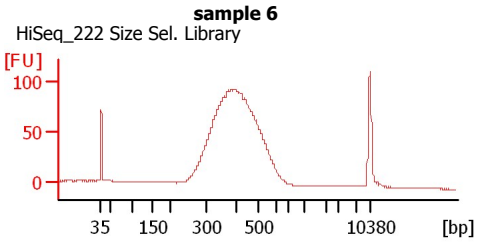
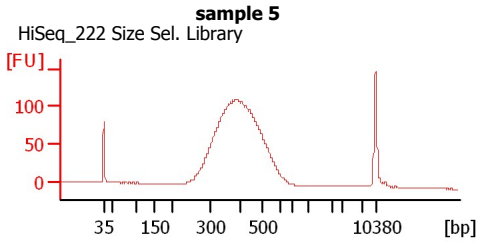
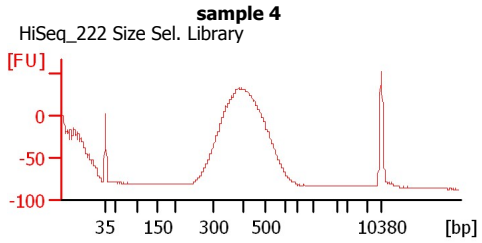
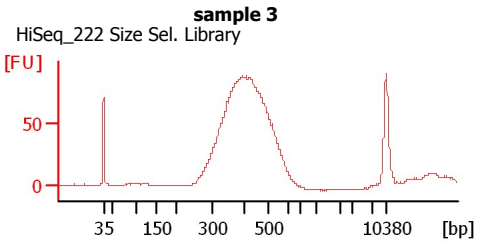
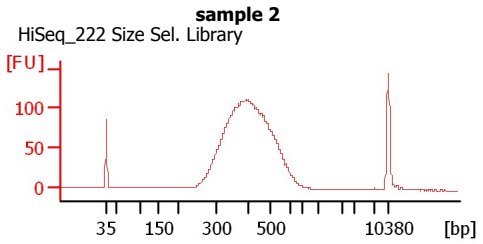
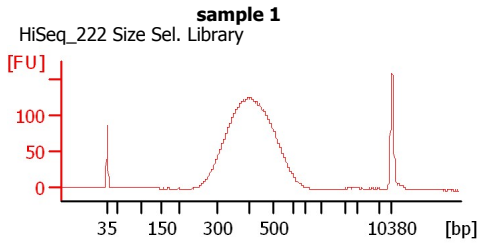
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
Modified: 10/21/2015 11:23:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 2	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 3	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 4	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 5	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 6	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 7	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
sample 8	HiSeq_222 Size Sel. Library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 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

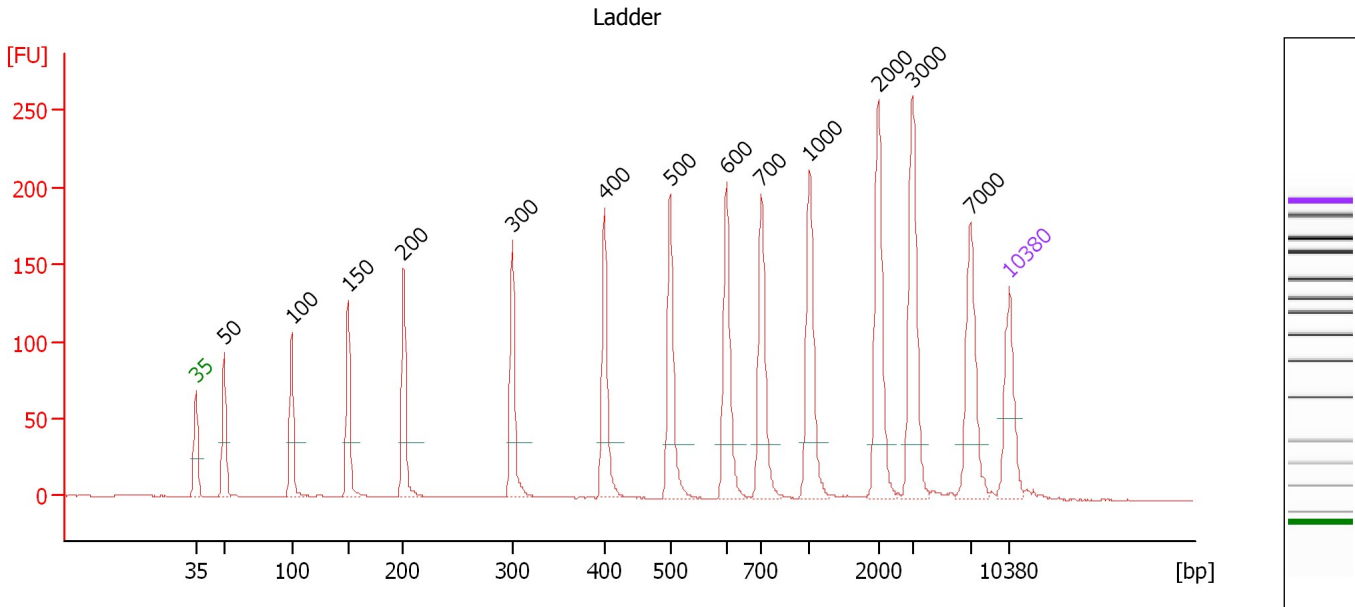
Ladder

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:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

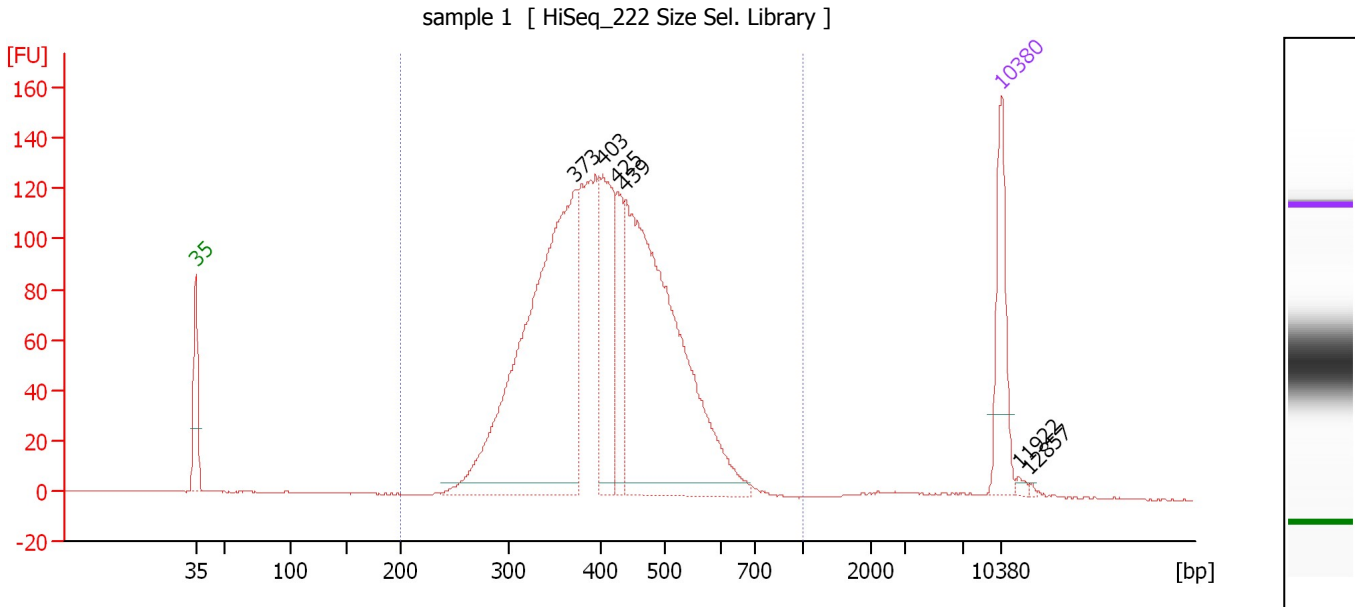
Peak table for Ladder

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.22
4	150	150.00	1,515.2	Ladder Peak	56.08
5	200	150.00	1,136.4	Ladder Peak	60.86
6	300	150.00	757.6	Ladder Peak	70.22
7	400	150.00	568.2	Ladder Peak	78.16
8	500	150.00	454.5	Ladder Peak	83.81
9	600	150.00	378.8	Ladder Peak	88.67
10	700	150.00	324.7	Ladder Peak	91.66
11	1,000	150.00	227.3	Ladder Peak	95.79
12	2,000	150.00	113.6	Ladder Peak	101.71
13	3,000	150.00	75.8	Ladder Peak	104.65
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 6 Corr. Area 1: 2,301.6
 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	373	672.48	2,734.6		75.98
3	403	178.93	672.2		78.35
4	425	87.11	310.2		79.60
5	439	604.62	2,088.7		80.34
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,922	0.00	0.0		114.53
8	12,857	0.00	0.0		115.46

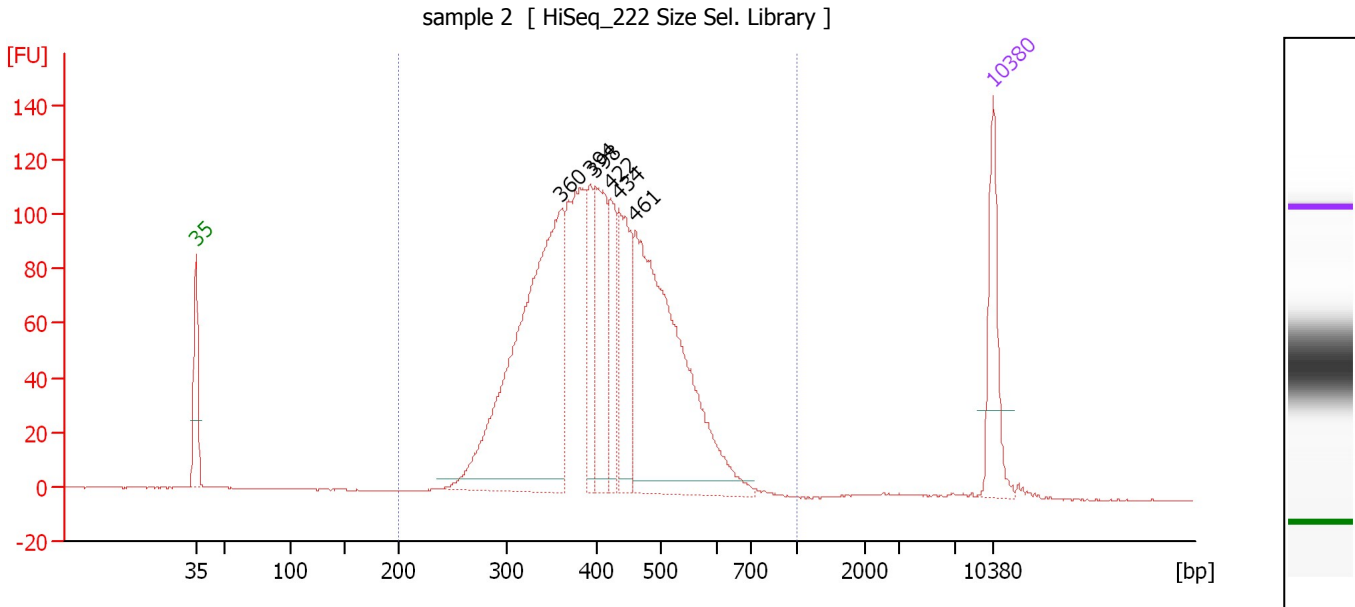
Region table for sample 1 : sample 1

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	415	2,301.5	6,999.4	1,819.44	98	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 6 Corr. Area 1: 2,100.2
 Noise: 0.1

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	360	599.68	2,524.3		74.98
3	394	77.73	299.3		77.65
4	398	157.53	599.3		78.02
5	422	93.19	334.2		79.43
6	434	143.37	500.5		80.08
7	461	499.44	1,642.9		81.58
8	10,380	75.00	10.9	Upper Marker	113.00

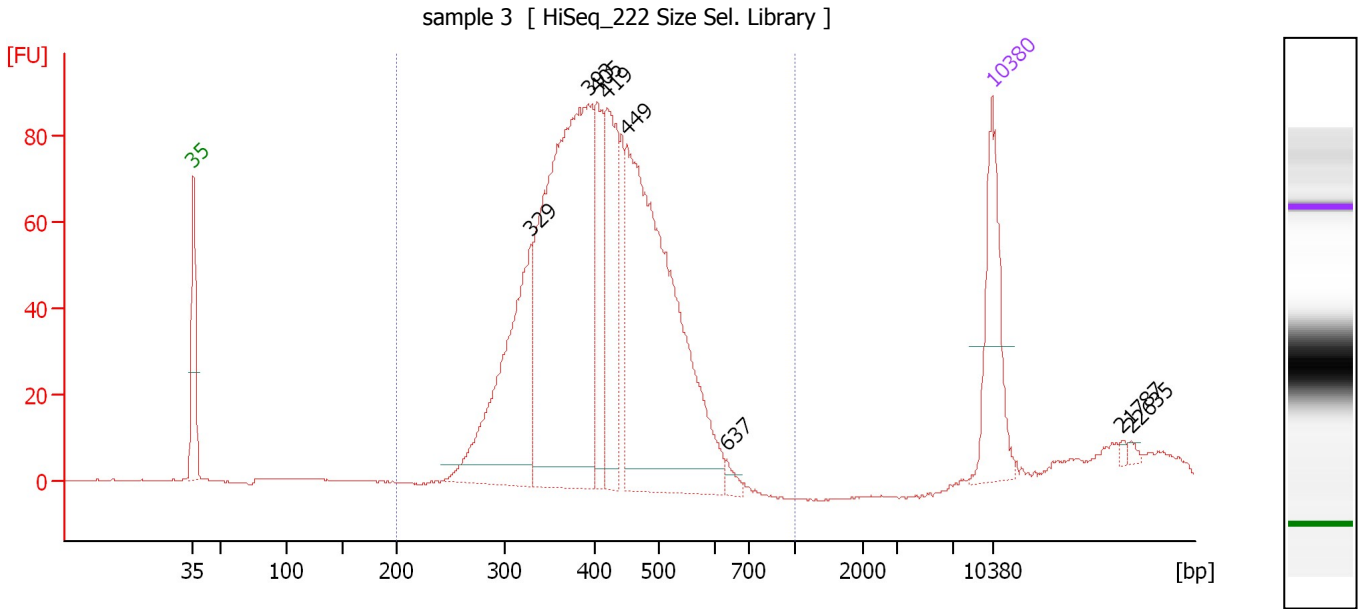
Region table for sample 2 : sample 2

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	415	2,100.2	7,189.2	1,864.29	99	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 8 Corr. Area 1: 1,486.5
 Noise: 0.2

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	329	239.68	1,103.4		72.53
3	393	517.50	1,996.8		77.58
4	405	89.49	335.1		78.42
5	419	133.69	483.8		79.21
6	449	462.60	1,560.0		80.94
7	637	7.79	18.5		89.78
8	10,380	75.00	10.9	Upper Marker	113.00
9	21,787	0.00	0.0		124.31
10	22,635	0.00	0.0		125.15

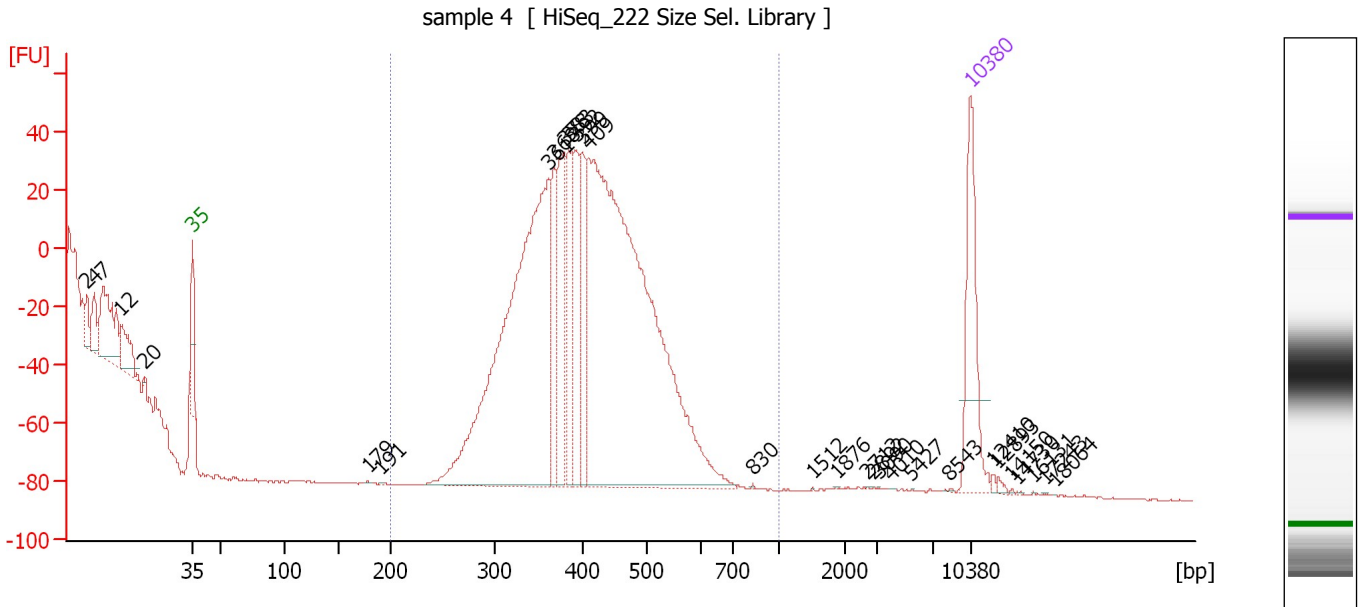
Region table for sample 3 : sample 3

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	412	1,486.5	5,389.7	1,404.28	98	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : sample 4

Height Threshold [FU] : 0.5 Width Threshold [s] : 0.2

Overall Results for sample 4 : sample 4

Number of peaks found: 30 Corr. Area 1: 970.5
 Noise: 0.2

Peak table for sample 4 : sample 4

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	2	0.00	0.0		33.47
2	4	0.00	0.0		34.14
3	7	0.00	0.0		34.95
4	12	0.00	0.0		36.53
5	20	0.00	0.0		38.59
6	35	125.00	5,411.3	Lower Marker	43.00
7	179	0.52	4.4		58.81
8	191	0.31	2.4		60.01
9	361	579.14	2,427.5		75.10
10	368	67.71	279.1		75.58
11	378	106.19	425.2		76.44
12	383	88.50	349.9		76.83
13	392	74.36	287.3		77.54
14	399	72.72	276.2		78.07
15	409	796.42	2,953.2		78.65
16	830	0.37	0.7		93.45
17	1,512	0.14	0.1		98.82
18	1,876	0.12	0.1		100.97
19	2,712	0.12	0.1		103.80
20	2,892	0.13	0.1		104.33
21	3,090	0.12	0.1		104.76
22	4,010	0.11	0.0		105.91

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
23	5,427	0.07	0.0		107.68
24	8,543	0.35	0.1		111.18
25	10,380	75.00	10.9	Upper Marker	113.00
26	12,410	0.00	0.0		115.01
27	12,893	0.00	0.0		115.49
28	14,150	0.00	0.0		116.74
29	14,730	0.00	0.0		117.31
30	16,131	0.00	0.0		118.70
31	17,243	0.00	0.0		119.80
32	18,064	0.00	0.0		120.62

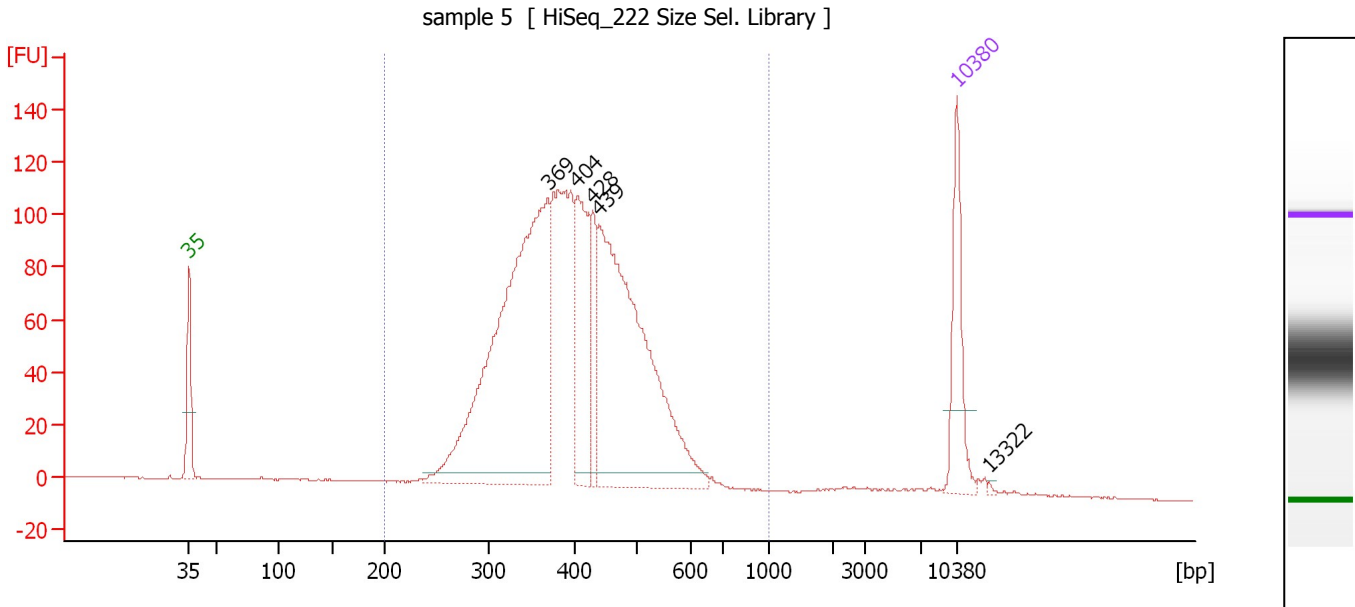
Region table for sample 4 : sample 4

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	1,000	409	970.5	3,192.5	845.06	100	13.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 5 Corr. Area 1: 2,047.8
 Noise: 0.2

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	369	679.50	2,788.5		75.72
3	404	162.52	609.4		78.39
4	428	68.39	242.0		79.75
5	439	524.81	1,809.9		80.38
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,322	0.00	0.0		115.92

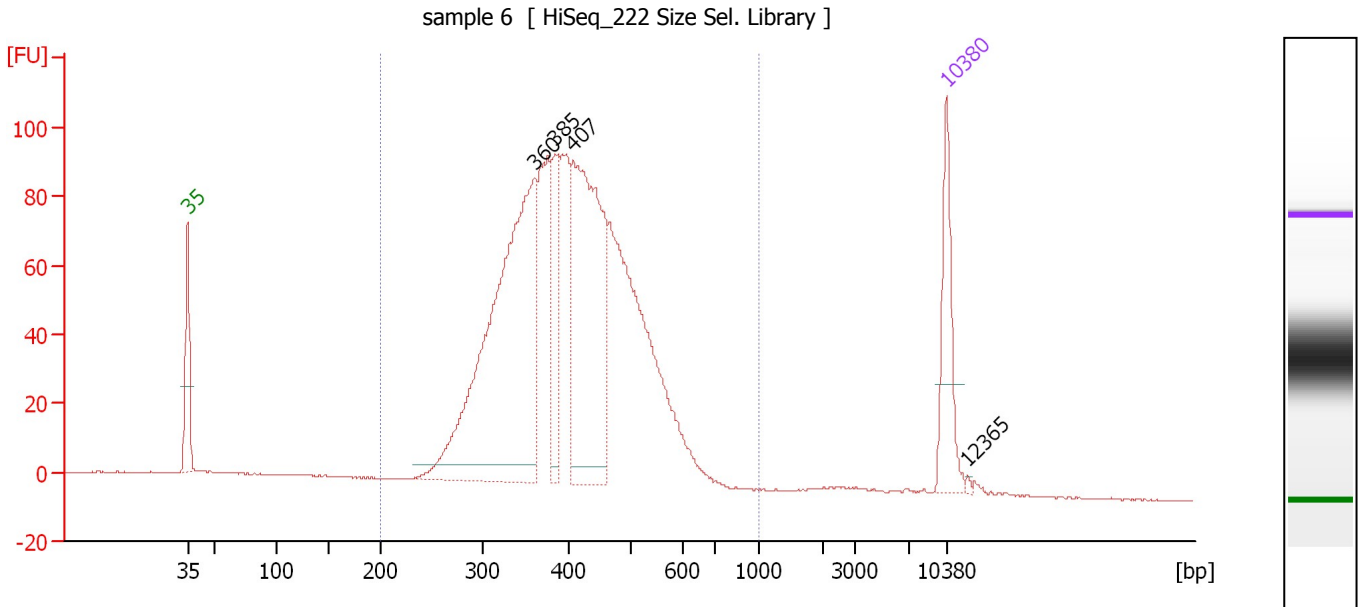
Region table for sample 5 : sample 5

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	406	2,047.8	7,021.8	1,783.99	96	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 4 Corr. Area 1: 1,753.6
 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	360	612.50	2,574.3		75.02
3	385	102.18	402.5		76.94
4	407	386.73	1,439.1		78.57
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,365	0.00	0.0		114.97

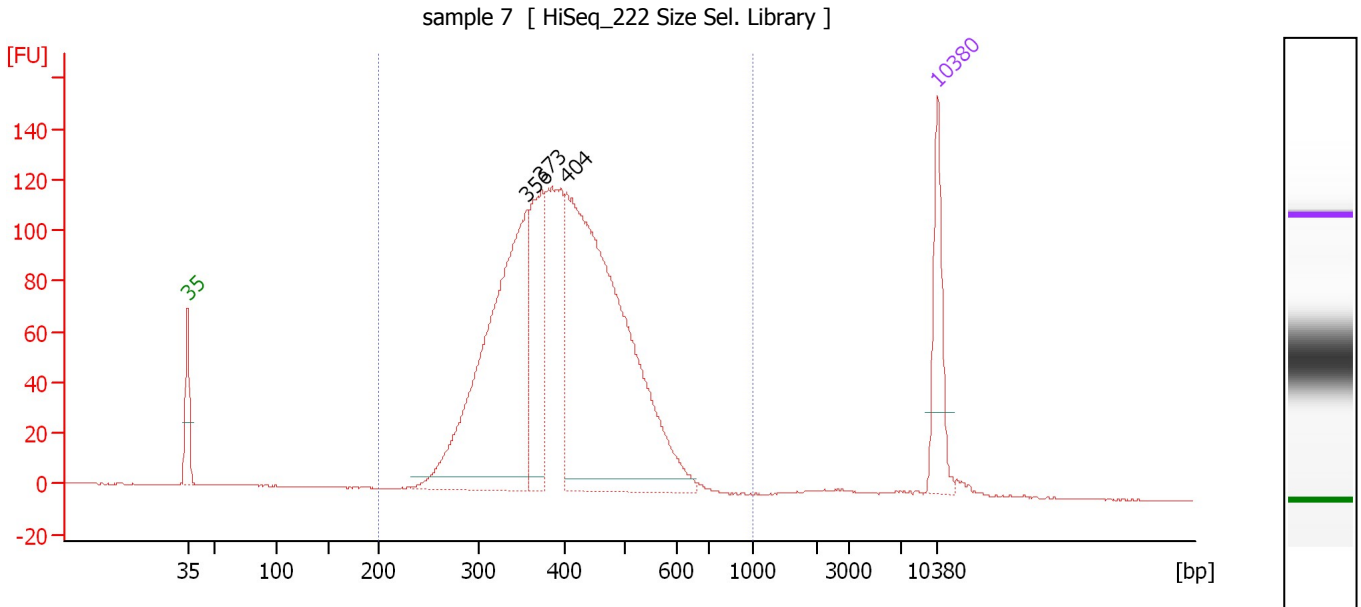
Region table for sample 6 : sample 6

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	411	1,753.6	7,276.6	1,867.62	97	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 3 Corr. Area 1: 2,125.5
 Noise: 0.1

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	356	572.67	2,435.2		74.69
3	373	187.51	761.2		76.03
4	404	767.40	2,879.7		78.37
5	10,380	75.00	10.9	Upper Marker	113.00

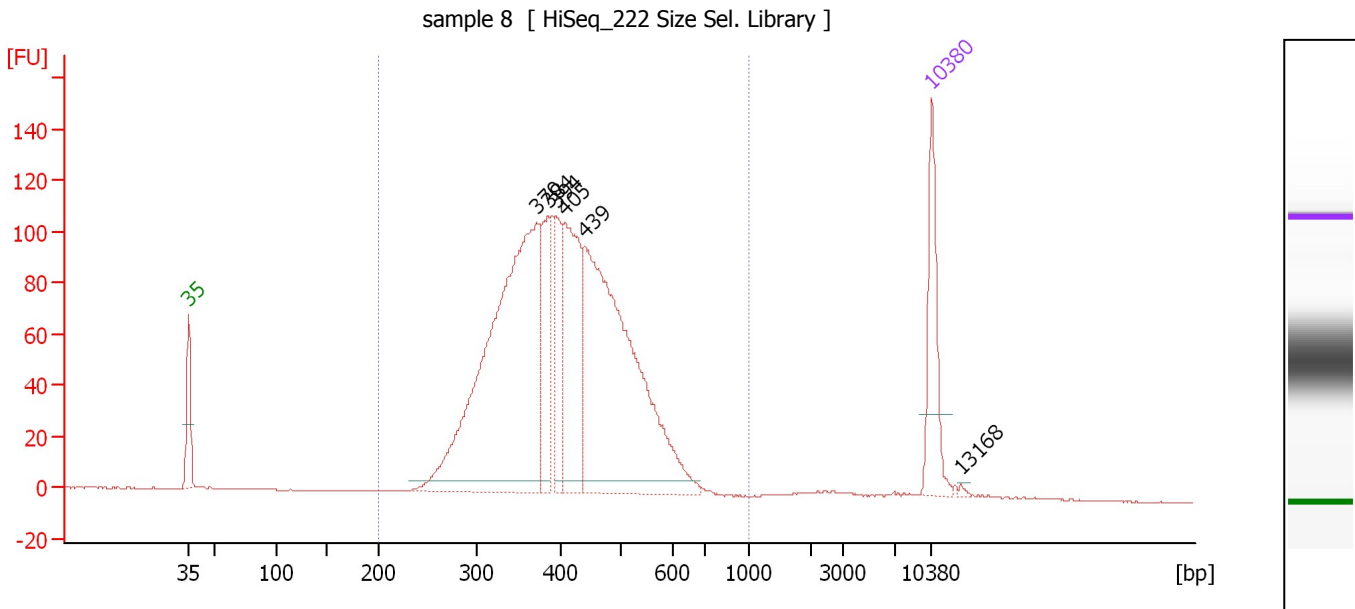
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	405	2,125.5	6,961.9	1,768.94	98	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 6 Corr. Area 1: 1,973.4
 Noise: 0.1

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	370	650.03	2,663.2		75.76
3	384	110.18	435.0		76.87
4	394	79.70	306.6		77.67
5	405	197.45	739.2		78.43
6	439	543.30	1,877.1		80.34
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,168	0.00	0.0		115.76

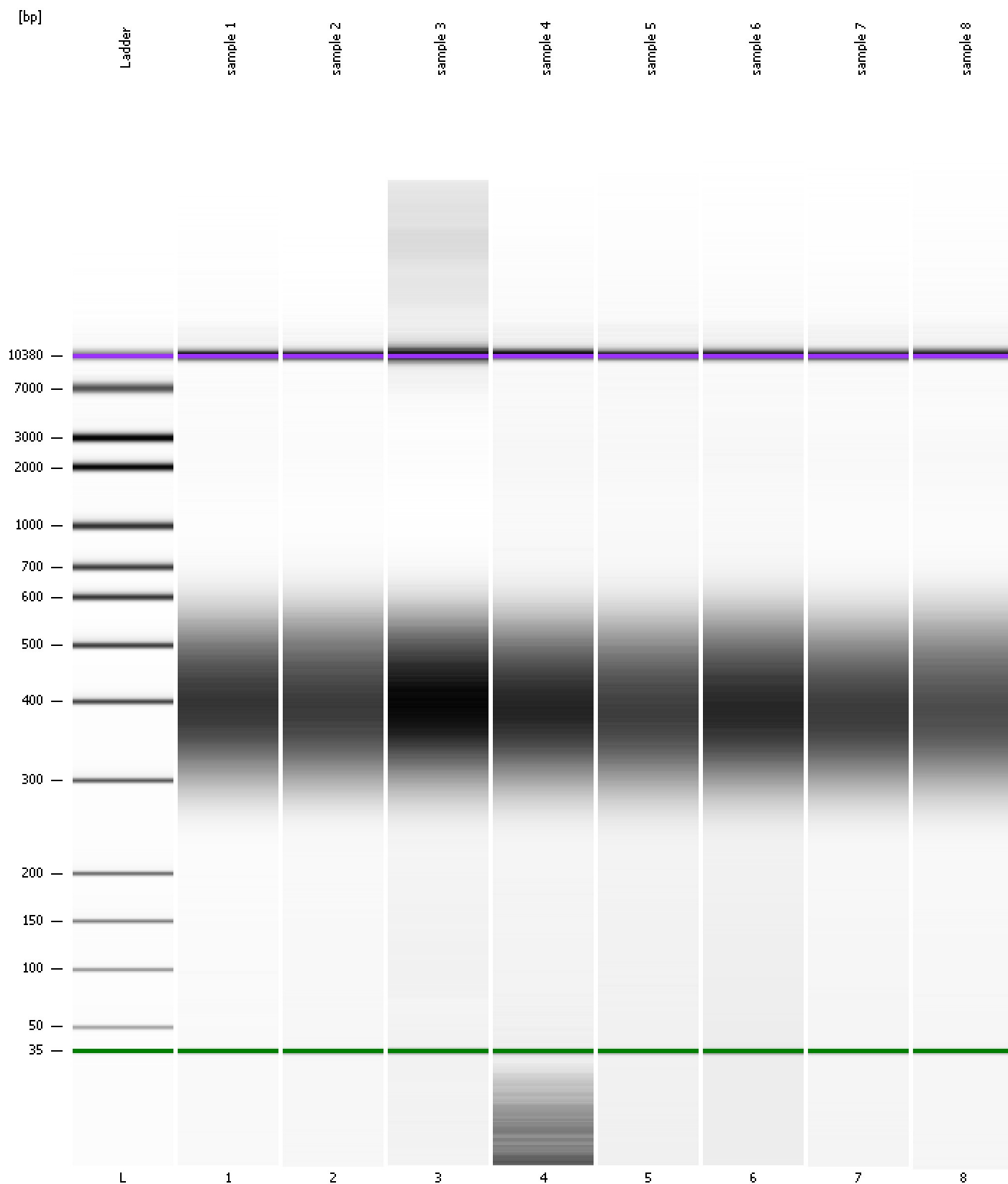
Region table for sample 8 : sample 8

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	411	1,973.4	6,551.0	1,680.62	97	20.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
Modified: 10/21/2015 11:23:13 AM

Gel Image

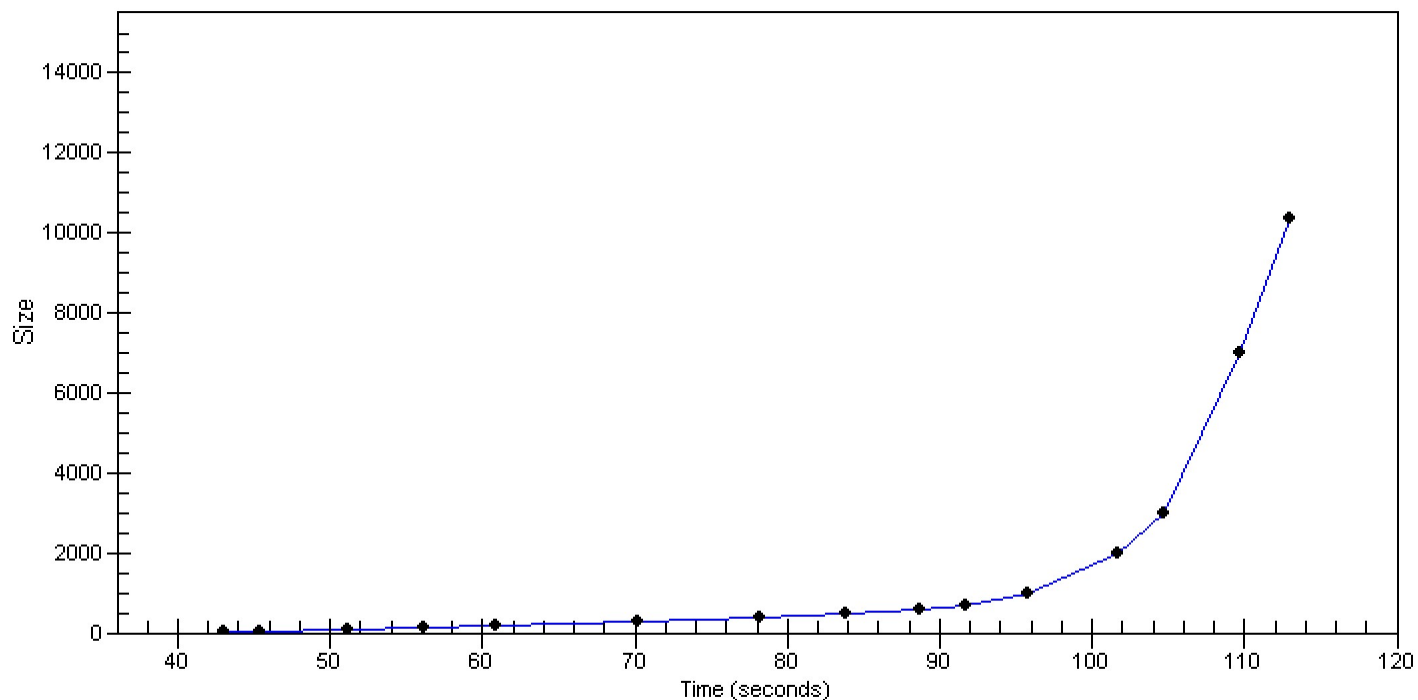


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
Modified: 10/21/2015 11:23:13 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0-21\2015-10-21_001_HiSeq_222_SizeSelectedLibraries_1-8.xad

Created: 10/21/2015 10:39:31 AM
 Modified: 10/21/2015 11:23:13 AM

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		10/21/2015 11:20:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyser\2015-10-21\2015-10-21_001.xad)		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/21/2015 10:39:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1