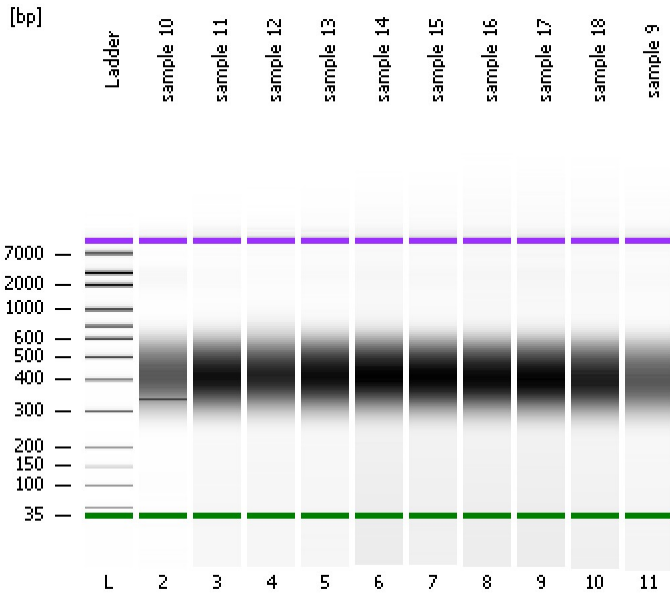


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
Modified: 10/21/2015 4:19:46 PM

**Electrophoresis File Run Summary**



Instrument Information:

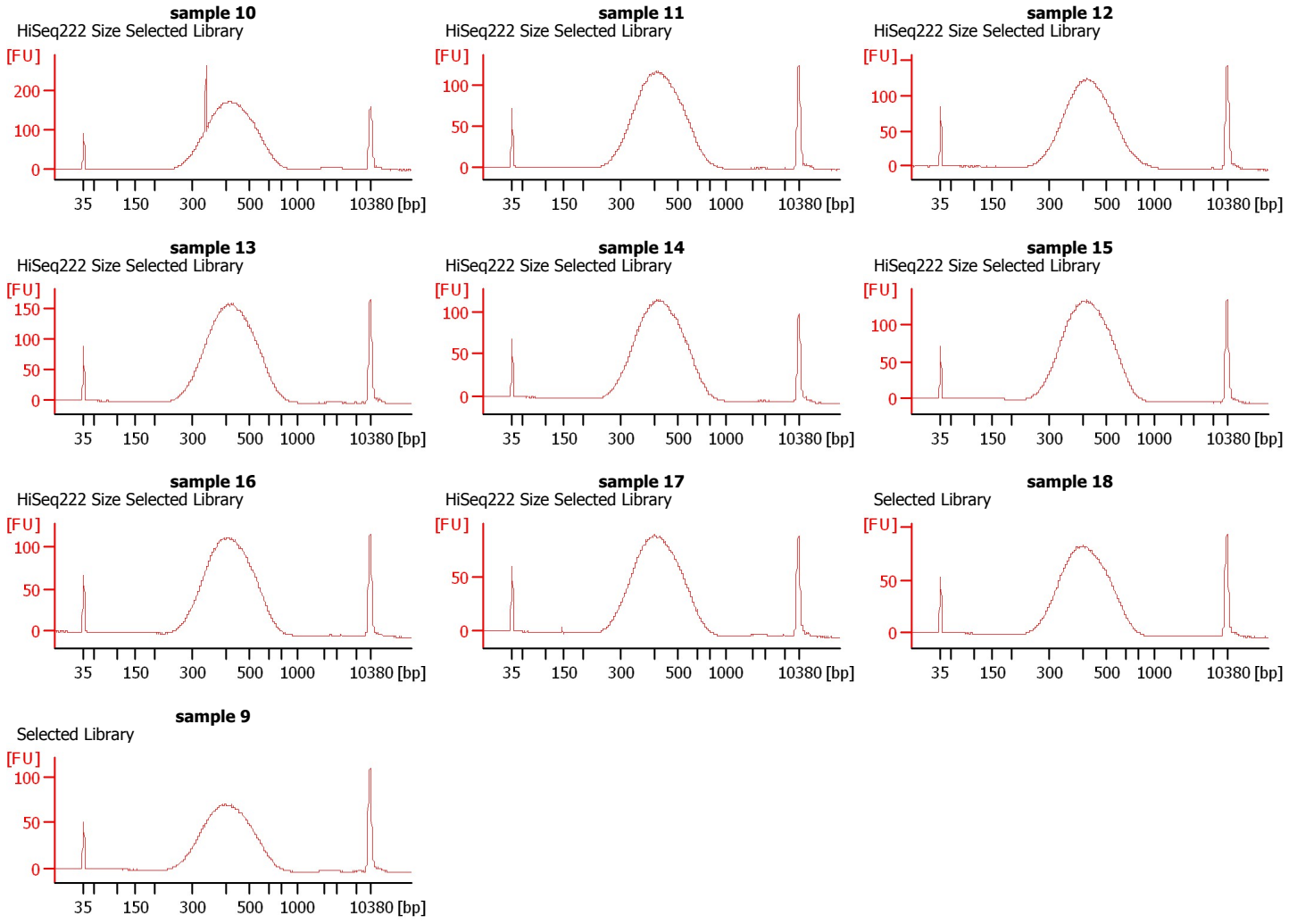
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 10	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 11	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 12	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 13	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 14	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 15	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 16	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 17	HiSeq222 Size Selected Library	<input type="checkbox"/>	✓			
sample 18	Selected Library	<input type="checkbox"/>	✓			
sample 9	Selected 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\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
Modified: 10/21/2015 4:19:46 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

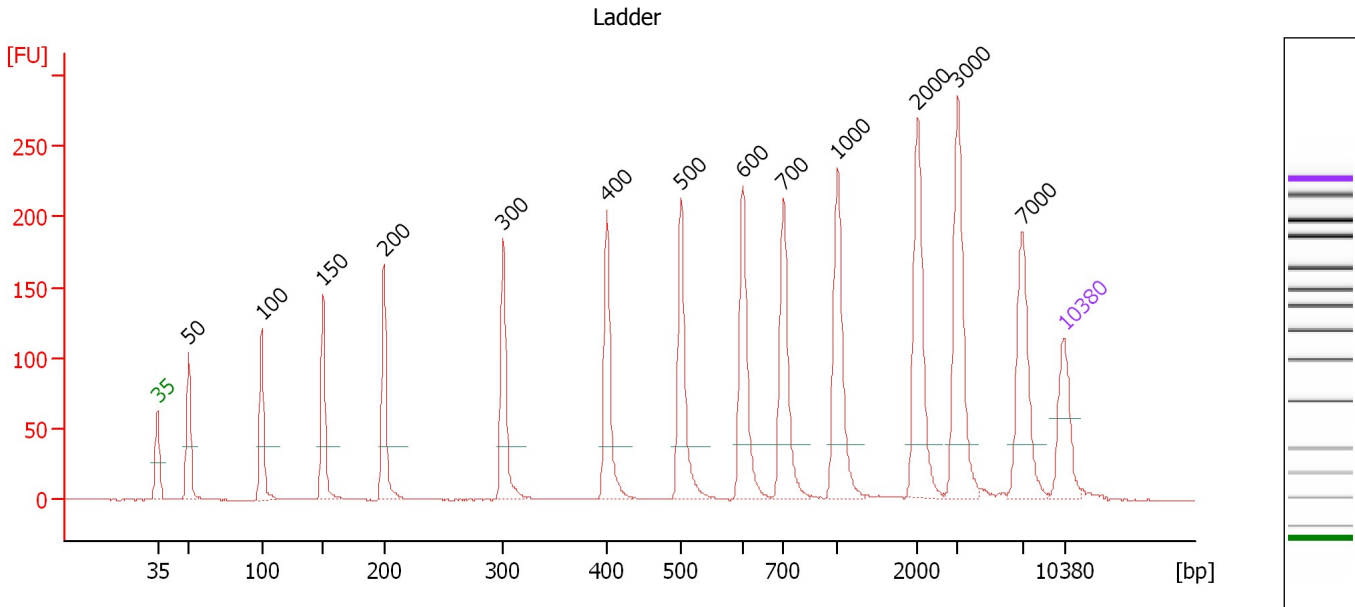
**Ladder**

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:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

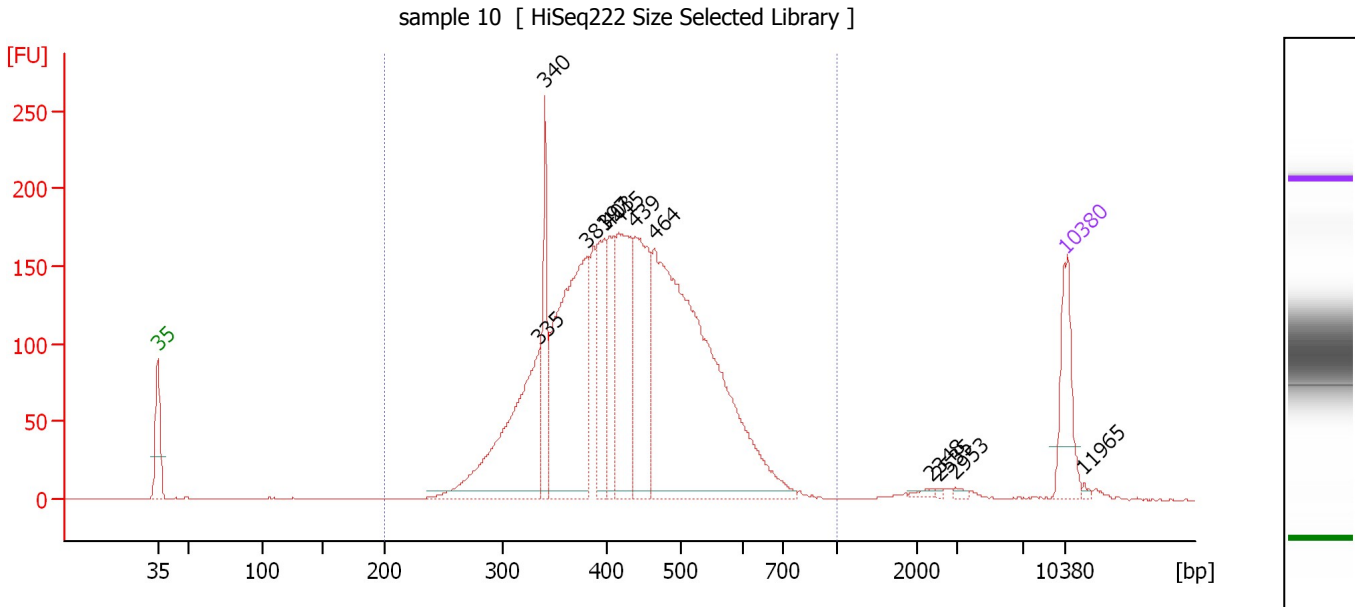
**Peak table for Ladder**

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	45.40
3	100	150.00	2,272.7	Ladder Peak	51.03
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	69.68
7	400	150.00	568.2	Ladder Peak	77.71
8	500	150.00	454.5	Ladder Peak	83.39
9	600	150.00	378.8	Ladder Peak	88.19
10	700	150.00	324.7	Ladder Peak	91.34
11	1,000	150.00	227.3	Ladder Peak	95.51
12	2,000	150.00	113.6	Ladder Peak	101.68
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.76
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\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 10**

Number of peaks found: 12                      Corr. Area 1: 3,244.3  
 Noise: 0.2

**Peak table for sample 2 : sample 10**

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	335	334.50	1,514.7		72.46
3	340	116.41	518.5		72.90
4	381	423.37	1,682.1		76.21
5	397	132.61	505.5		77.51
6	403	103.90	390.9		77.87
7	415	221.79	809.2		78.58
8	439	225.25	777.6		79.92
9	464	818.33	2,671.7		81.35
10	2,348	4.96	3.2		102.76
11	2,535	1.84	1.1		103.34
12	2,953	3.72	1.9		104.64
13	10,380	75.00	10.9	Upper Marker	113.00
14	11,965	0.00	0.0		114.52

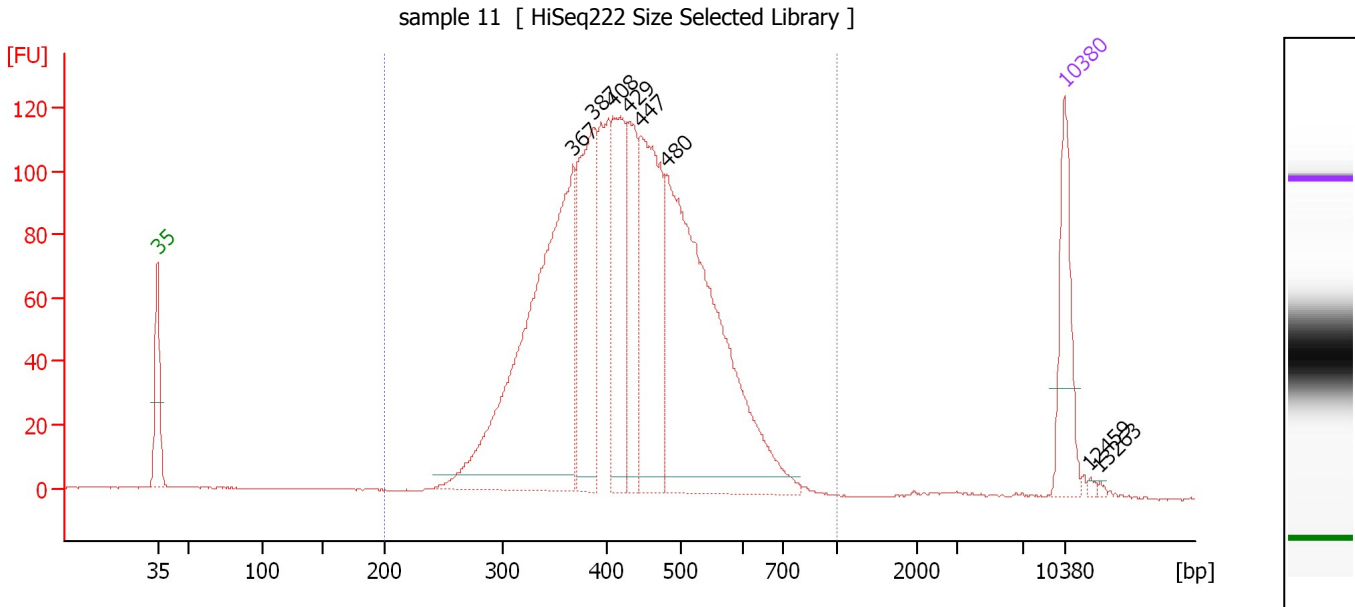
**Region table for sample 2 : sample 10**

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	433	3,244.3	9,157.0	2,473.70	98	20.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 11**

Number of peaks found: 8                      Corr. Area 1: 2,205.2  
 Noise: 0.1

**Peak table for sample 3 : sample 11**

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	367	569.33	2,349.1		75.08
3	387	225.04	881.2		76.66
4	408	162.83	604.9		78.16
5	429	119.08	420.2		79.38
6	447	248.37	842.0		80.38
7	480	555.20	1,750.9		82.28
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,459	0.00	0.0		114.99
10	13,263	0.00	0.0		115.76

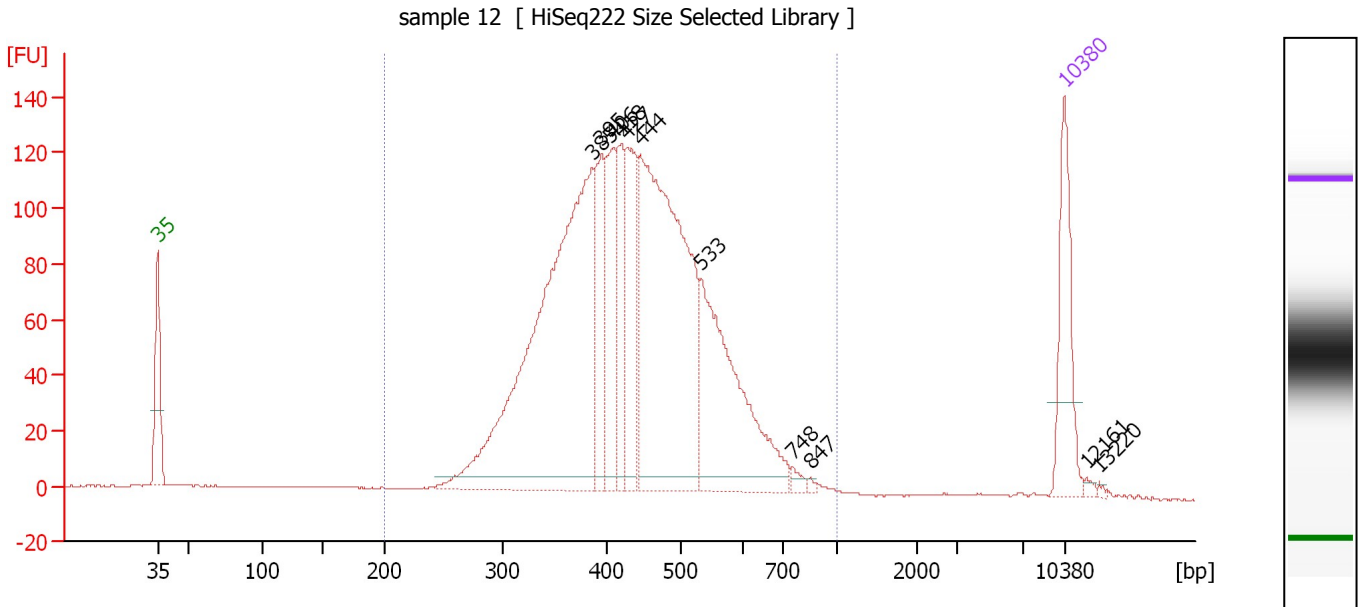
**Region table for sample 3 : sample 11**

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	433	2,205.2	7,815.7	2,107.87	97	20.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 12**

Number of peaks found: 11                      Corr. Area 1: 2,274.4  
 Noise: 0.2

**Peak table for sample 4 : sample 12**

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	385	616.92	2,424.7		76.55
3	395	99.05	380.2		77.28
4	406	105.91	395.0		78.07
5	418	82.85	300.0		78.76
6	427	116.21	412.7		79.22
7	444	487.72	1,662.6		80.24
8	533	246.71	700.9		84.99
9	748	7.17	14.5		92.00
10	847	2.46	4.4		93.39
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,161	0.00	0.0		114.71
13	13,220	0.00	0.0		115.72

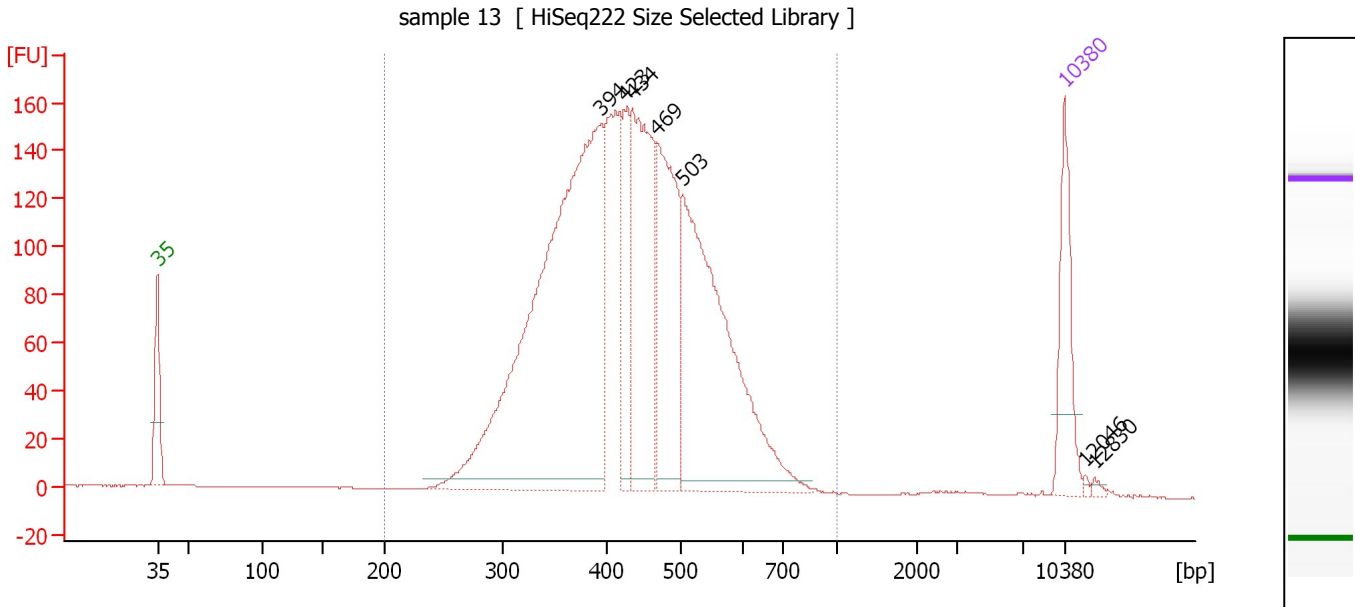
**Region table for sample 4 : sample 12**

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	440	2,274.4	6,811.0	1,860.39	98	22.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 13**

Number of peaks found: 7                      Corr. Area 1: 2,965.2  
 Noise: 0.1

**Peak table for sample 5 : sample 13**

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	394	875.55	3,370.0		77.20
3	423	106.17	380.1		79.03
4	434	276.39	964.9		79.64
5	469	227.48	735.3		81.62
6	503	463.30	1,395.2		83.54
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,046	0.00	0.0		114.60
9	12,830	0.00	0.0		115.35

**Region table for sample 5 : sample 13**

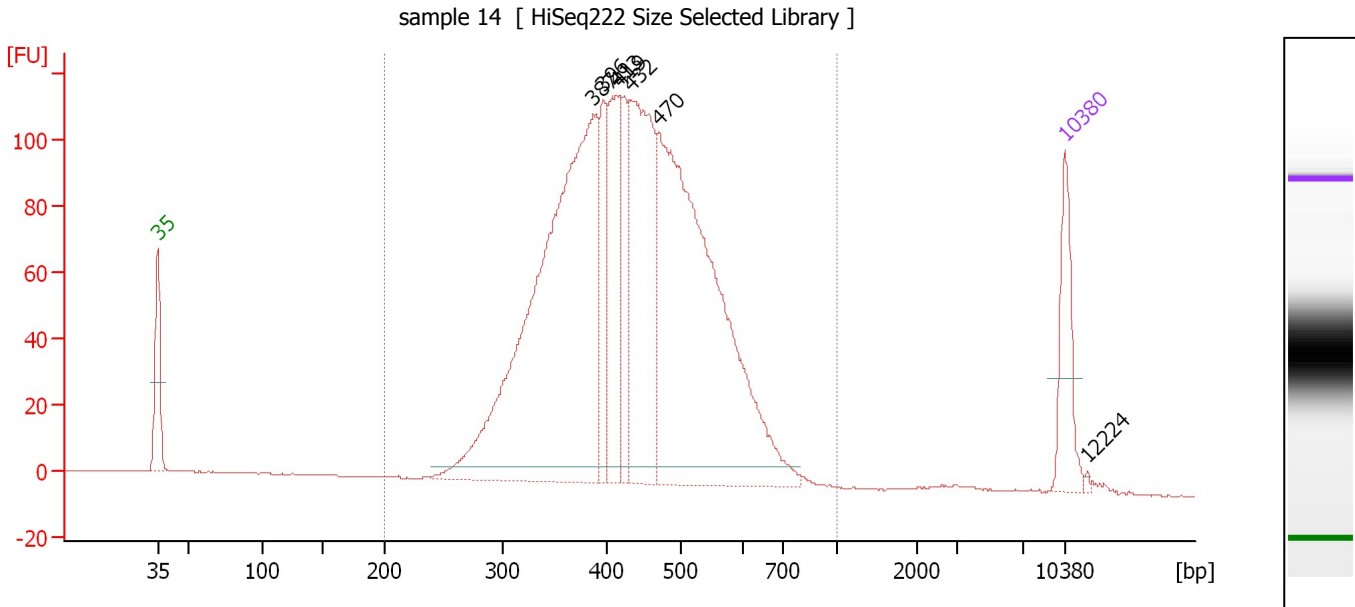
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	436	2,965.2	8,296.2	2,251.20	97	21.2



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 14**

Number of peaks found: 7                      Corr. Area 1: 2,165.3  
 Noise: 0.1

**Peak table for sample 6 : sample 14**

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	387	916.70	3,592.3		76.64
3	396	106.34	406.7		77.40
4	413	180.18	660.9		78.45
5	419	106.24	384.2		78.79
6	432	351.39	1,231.3		79.55
7	470	814.17	2,623.2		81.70
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,224	0.00	0.0		114.77

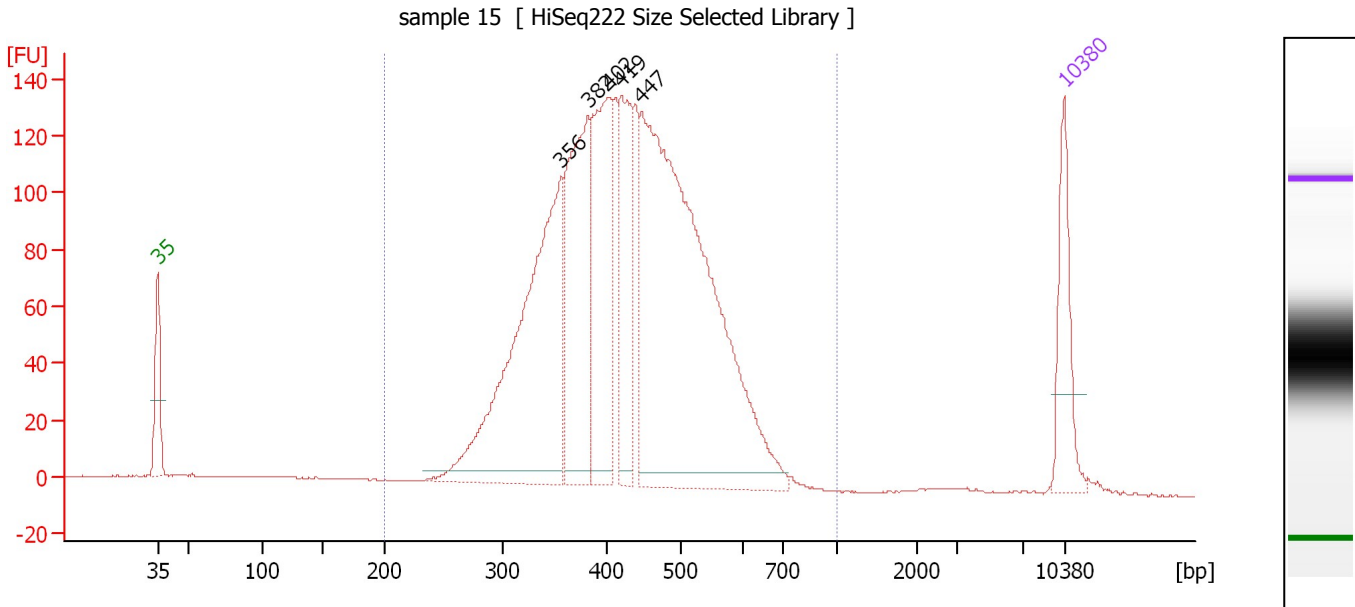
**Region table for sample 6 : sample 14**

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	437	2,165.3	9,346.2	2,543.53	97	21.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 15**

Number of peaks found: 5                      Corr. Area 1: 2,546.7  
 Noise: 0.2

**Peak table for sample 7 : sample 15**

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	501.97	2,136.8		74.17
3	382	277.74	1,102.0		76.25
4	402	246.01	928.0		77.81
5	419	155.26	561.8		78.78
6	447	831.42	2,818.9		80.38
7	10,380	75.00	10.9	Upper Marker	113.00

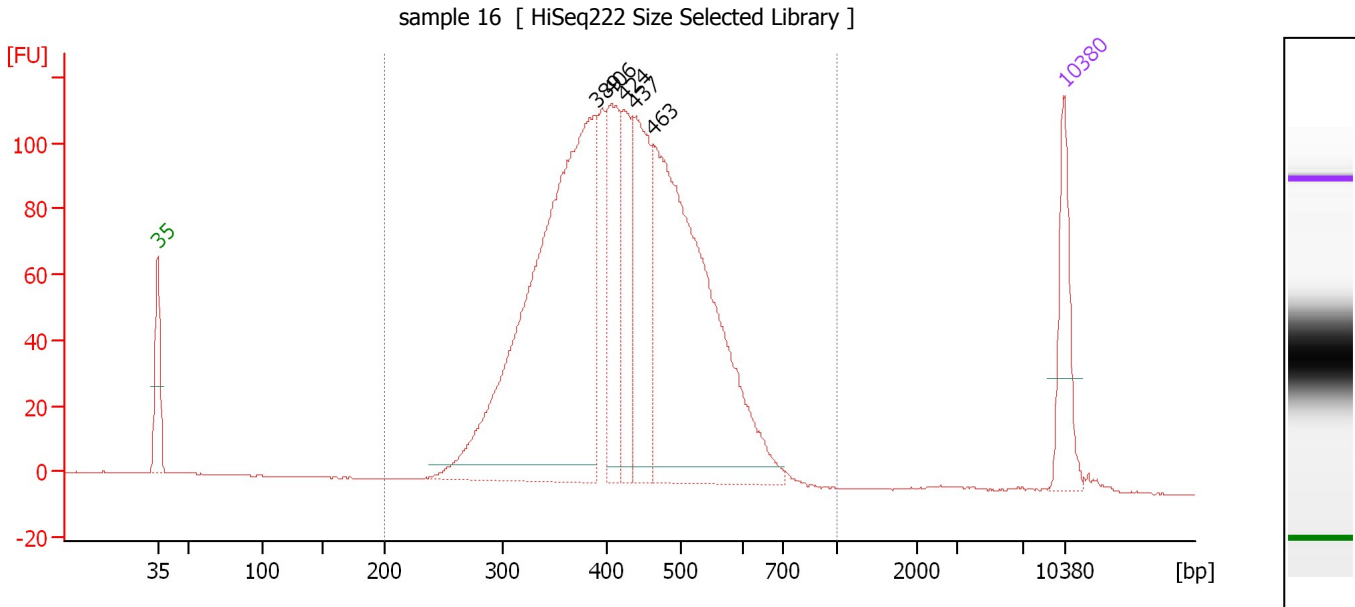
**Region table for sample 7 : sample 15**

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	430	2,546.7	8,240.5	2,207.01	96	20.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 16**

Number of peaks found: 5                      Corr. Area 1: 2,102.3  
 Noise: 0.1

**Peak table for sample 8 : sample 16**

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	389	841.62	3,276.9		76.84
3	406	166.34	621.5		78.02
4	424	119.50	427.3		79.06
5	437	199.93	693.5		79.80
6	463	654.32	2,141.7		81.29
7	10,380	75.00	10.9	Upper Marker	113.00

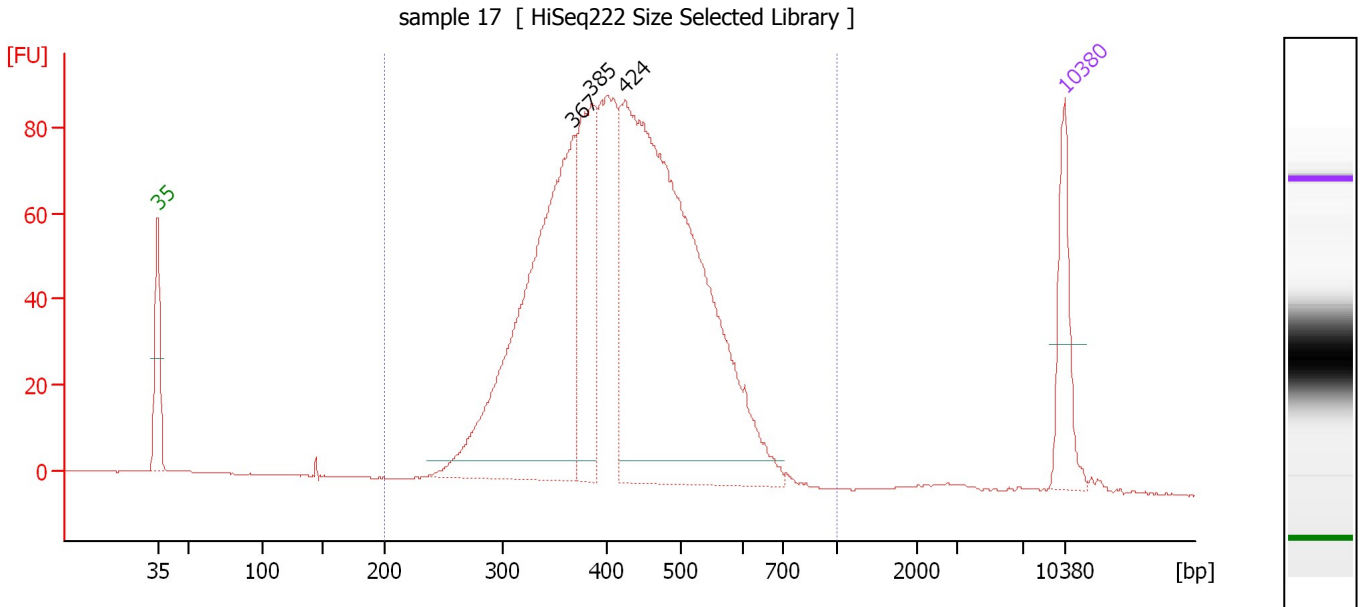
**Region table for sample 8 : sample 16**

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	428	2,102.3	8,142.1	2,173.38	98	20.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 17**

Number of peaks found: 3                      Corr. Area 1: 1,635.6  
 Noise: 0.1

**Peak table for sample 9 : sample 17**

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	367	655.57	2,702.8		75.10
3	385	233.82	920.4		76.50
4	424	1,024.24	3,656.3		79.10
5	10,380	75.00	10.9	Upper Marker	113.00

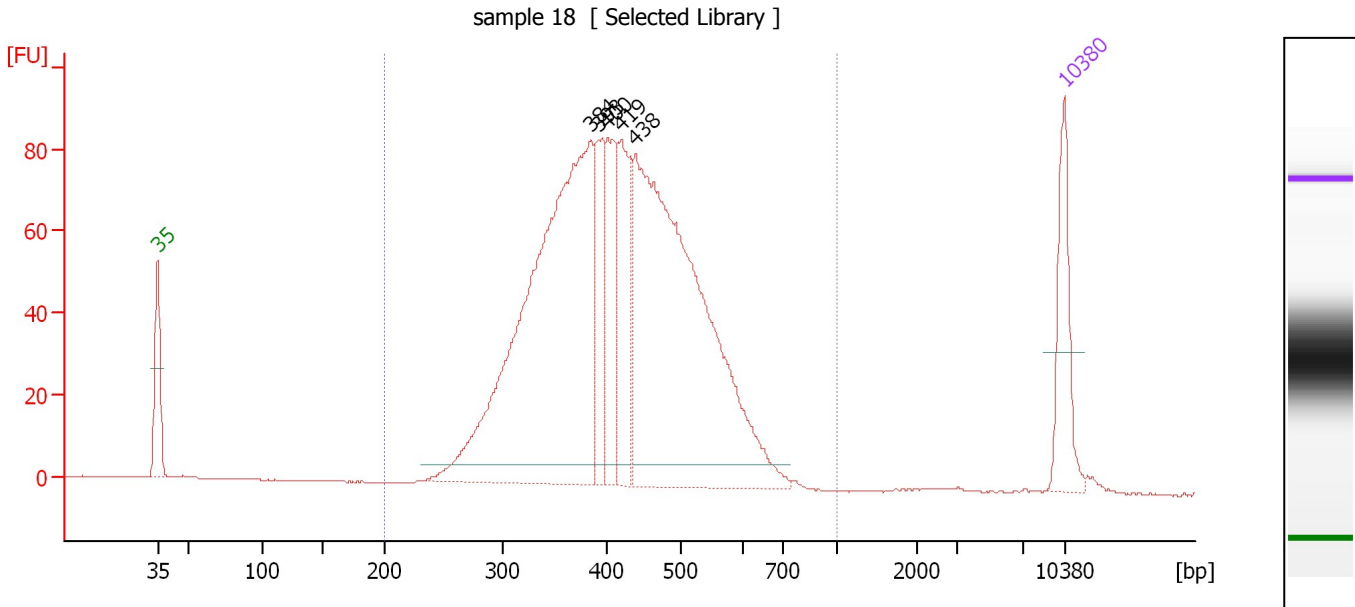
**Region table for sample 9 : sample 17**

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	425	1,635.6	8,182.8	2,171.73	98	20.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 18**

Number of peaks found: 5                      Corr. Area 1: 1,548.2  
 Noise: 0.1

**Peak table for sample 10 : sample 18**

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	384	769.17	3,031.3		76.46
3	393	98.70	380.9		77.12
4	400	116.52	441.2		77.72
5	419	131.05	474.1		78.78
6	438	733.96	2,537.0		79.89
7	10,380	75.00	10.9	Upper Marker	113.00

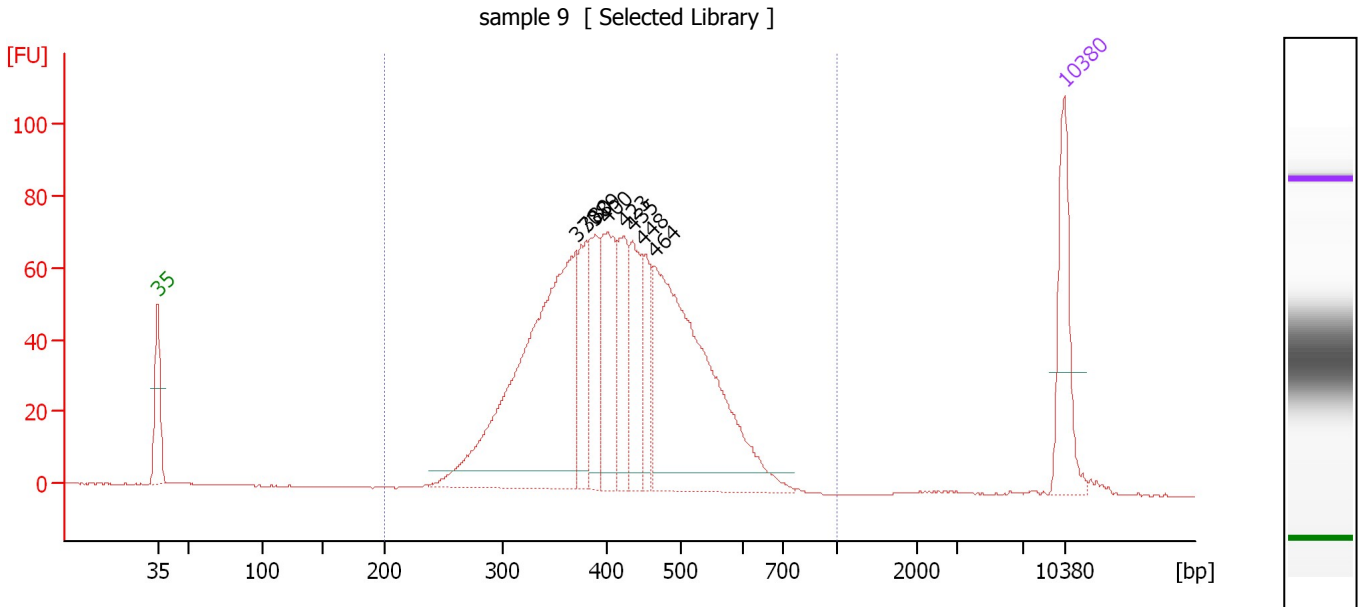
**Region table for sample 10 : sample 18**

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	422	1,548.2	7,315.7	1,927.23	98	20.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 9**

Number of peaks found: 8                      Corr. Area 1: 1,304.5  
 Noise: 0.1

**Peak table for sample 11 : sample 9**

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	468.76	1,917.4		75.34
3	380	86.20	343.8		76.10
4	389	77.71	302.9		76.81
5	400	119.08	450.9		77.72
6	423	87.80	314.2		79.04
7	435	84.13	293.0		79.70
8	448	58.74	198.5		80.46
9	464	394.14	1,285.7		81.38
10	10,380	75.00	10.9	Upper Marker	113.00

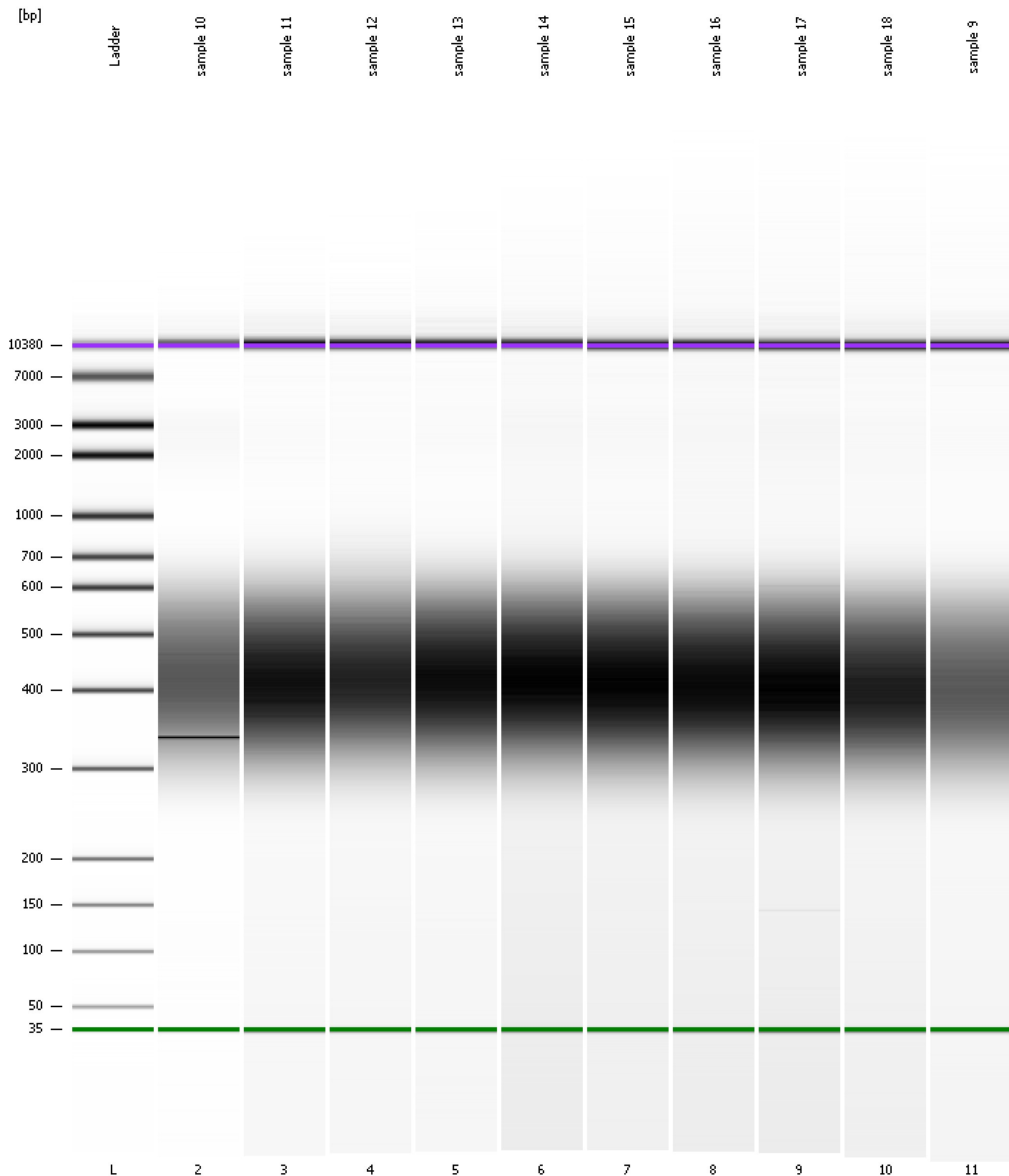
**Region table for sample 11 : sample 9**

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	421	1,304.5	5,436.3	1,426.69	98	20.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
Modified: 10/21/2015 4:19:46 PM

**Gel Image**

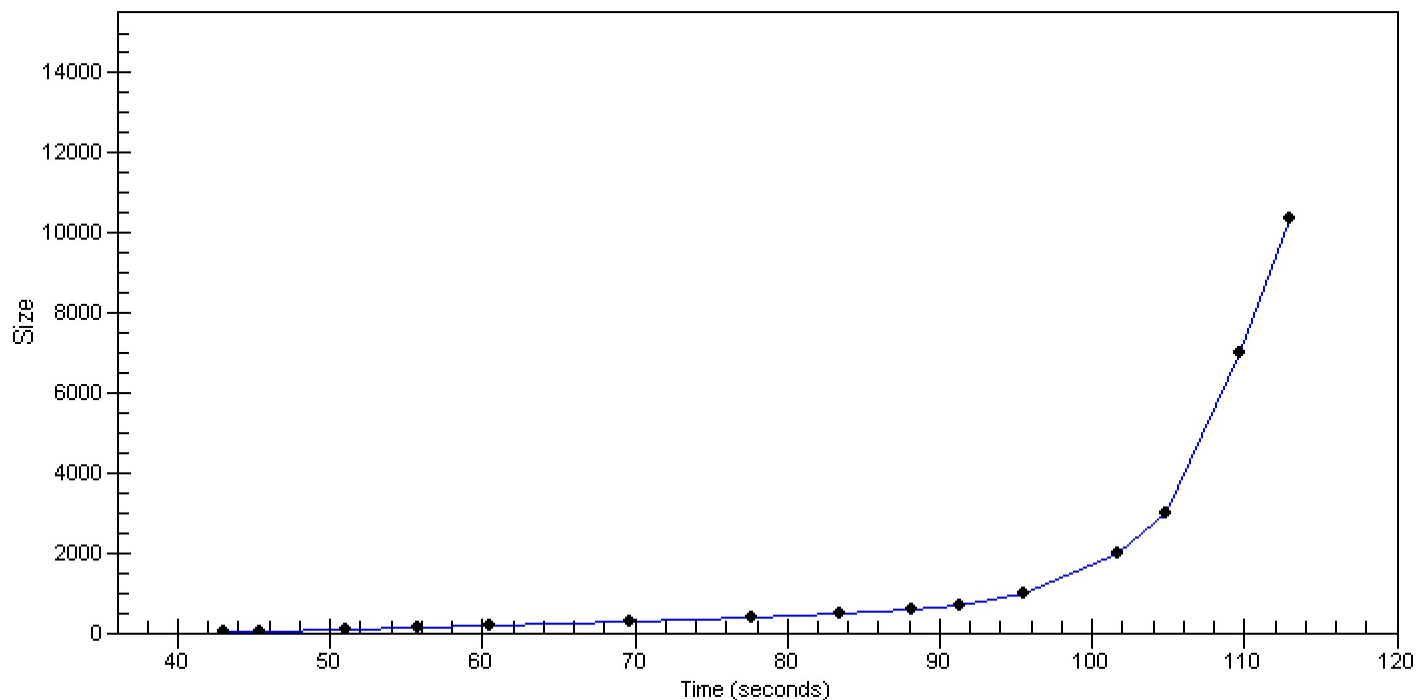


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
Modified: 10/21/2015 4:19:46 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0-21\2015-10-21\_002\_HiSeq222\_SizeSelectedLibraries\_9-18.xad

Created: 10/21/2015 2:28:56 PM  
 Modified: 10/21/2015 4:19:46 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		10/21/2015 3:10:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanal yzer\2015-10-21\2015-10-21_002.xad)		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/21/2015 2:29:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1