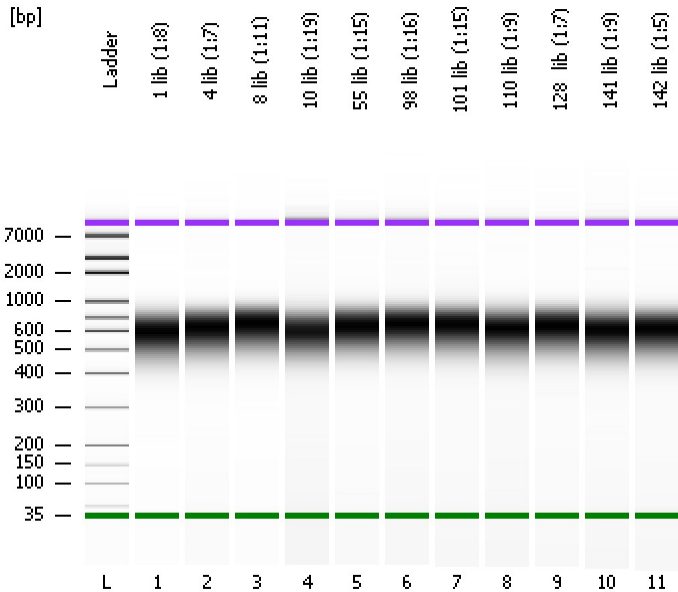


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
Modified: 7/20/2015 3:34:31 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

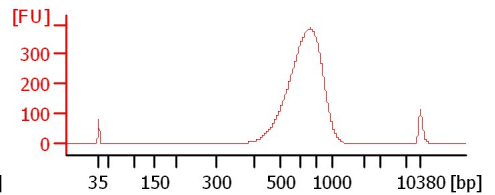
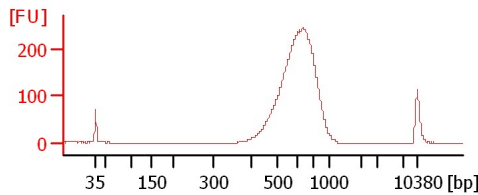
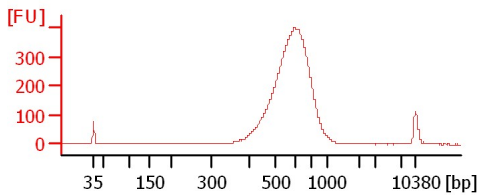
Chip Information:

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

1 lib (1:8)

4 lib (1:7)

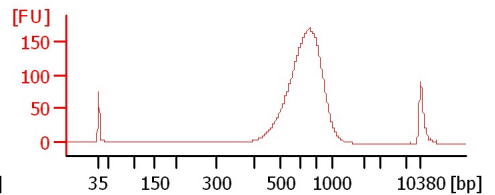
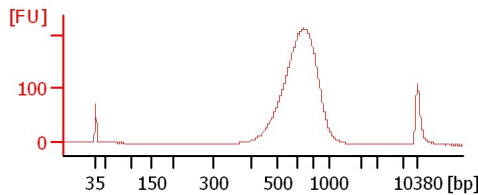
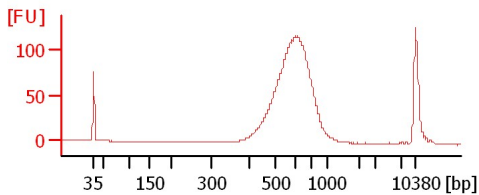
8 lib (1:11)



10 lib (1:19)

55 lib (1:15)

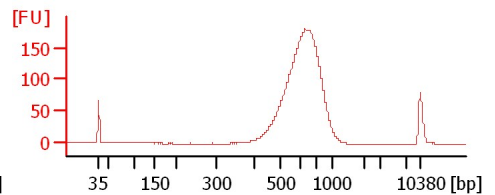
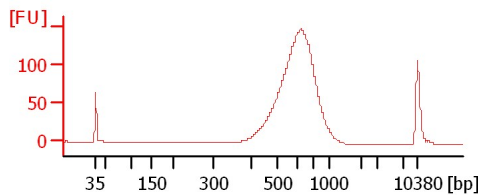
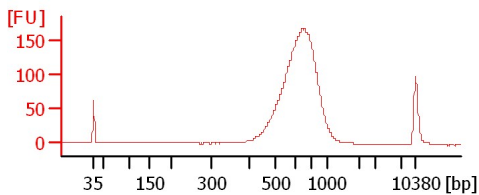
98 lib (1:16)



101 lib (1:15)

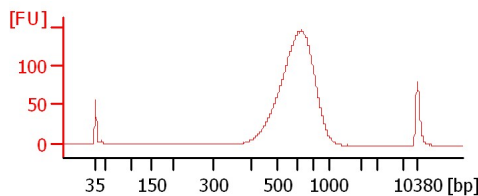
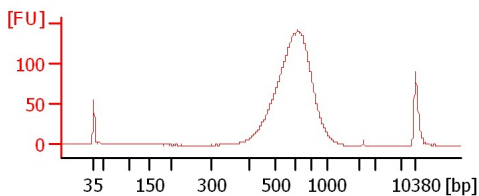
110 lib (1:9)

128 lib (1:7)



141 lib (1:9)

142 lib (1:5)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
Modified: 7/20/2015 3:34:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 lib (1:8)		<input type="checkbox"/>	✓			
4 lib (1:7)		<input type="checkbox"/>	✓			
8 lib (1:11)		<input type="checkbox"/>	✓			
10 lib (1:19)		<input type="checkbox"/>	✓			
55 lib (1:15)		<input type="checkbox"/>	✓			
98 lib (1:16)		<input type="checkbox"/>	✓			
101 lib (1:15)		<input type="checkbox"/>	✓			
110 lib (1:9)		<input type="checkbox"/>	✓			
128 lib (1:7)		<input type="checkbox"/>	✓			
141 lib (1:9)		<input type="checkbox"/>	✓			
142 lib (1:5)		<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\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
Modified: 7/20/2015 3:34:31 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

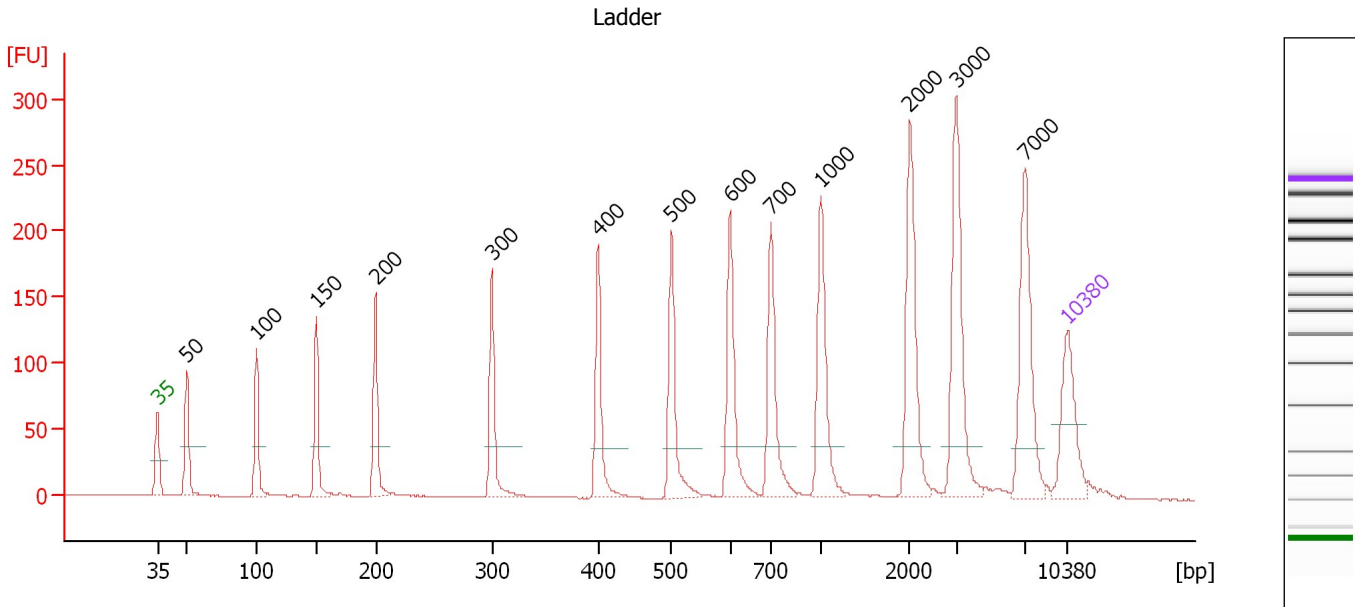
Ladder

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\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

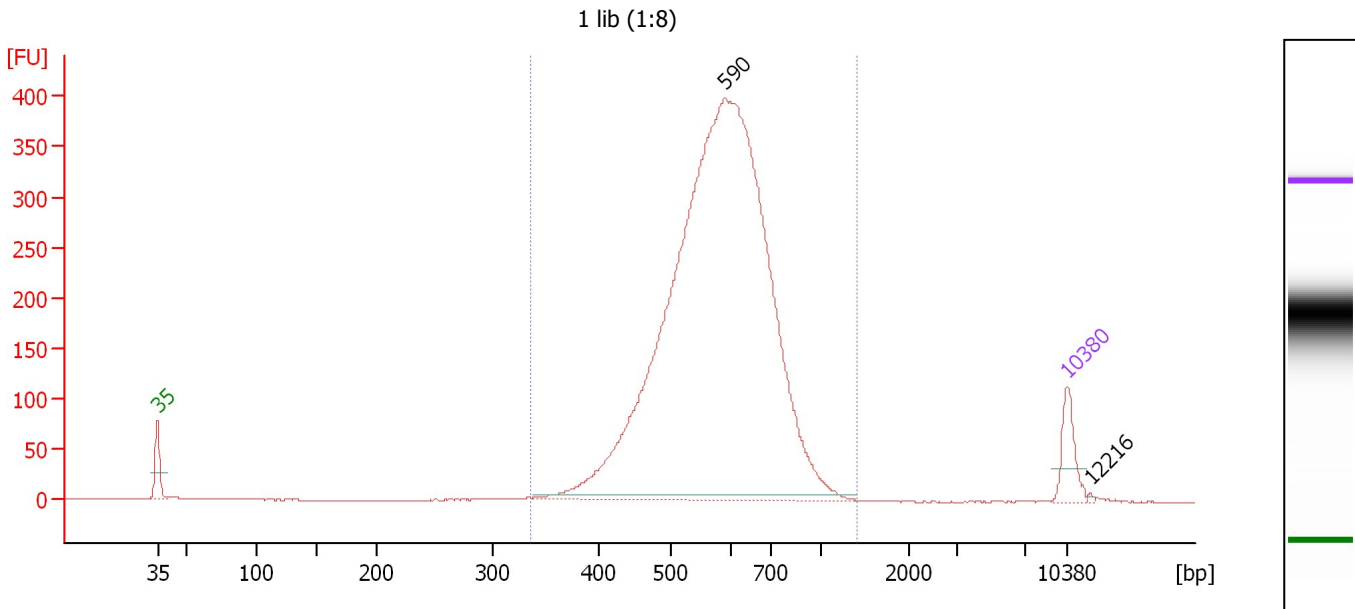
Peak table for Ladder

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.61
4	150	150.00	1,515.2	Ladder Peak	55.24
5	200	150.00	1,136.4	Ladder Peak	59.78
6	300	150.00	757.6	Ladder Peak	68.72
7	400	150.00	568.2	Ladder Peak	76.91
8	500	150.00	454.5	Ladder Peak	82.56
9	600	150.00	378.8	Ladder Peak	87.06
10	700	150.00	324.7	Ladder Peak	90.17
11	1,000	150.00	227.3	Ladder Peak	94.04
12	2,000	150.00	113.6	Ladder Peak	100.90
13	3,000	150.00	75.8	Ladder Peak	104.46
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 lib (1:8)

Number of peaks found: 2 Corr. Area 1: 4,265.7
 Noise: 0.2

Peak table for sample 1 : 1 lib (1:8)

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	590	3,464.84	8,893.4		86.62
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,216	0.00	0.0		114.76

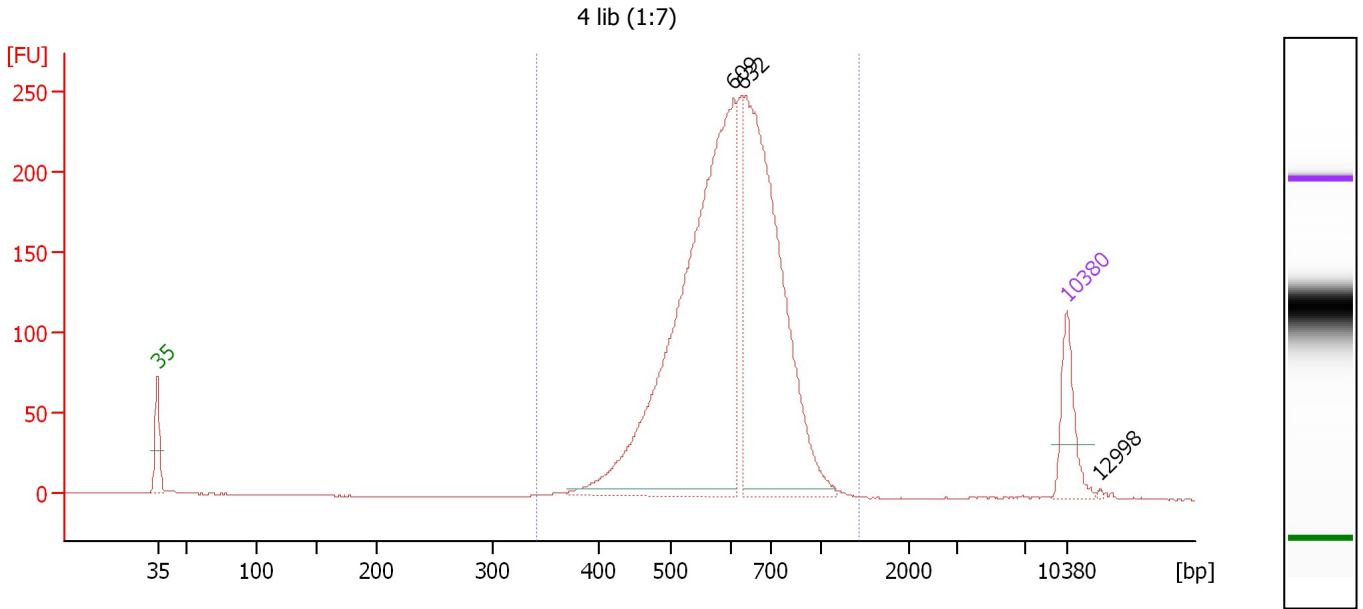
Region table for sample 1 : 1 lib (1:8)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
336	593	1,412	4,265.7	9,710.0	98	18.9	3,648.65

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 4 lib (1:7)

Number of peaks found: 3 Corr. Area 1: 2,556.6
 Noise: 0.2

Peak table for sample 2 : 4 lib (1:7)

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	609	1,106.10	2,752.3		87.33
3	632	797.00	1,909.5		88.07
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,998	0.00	0.0		115.52

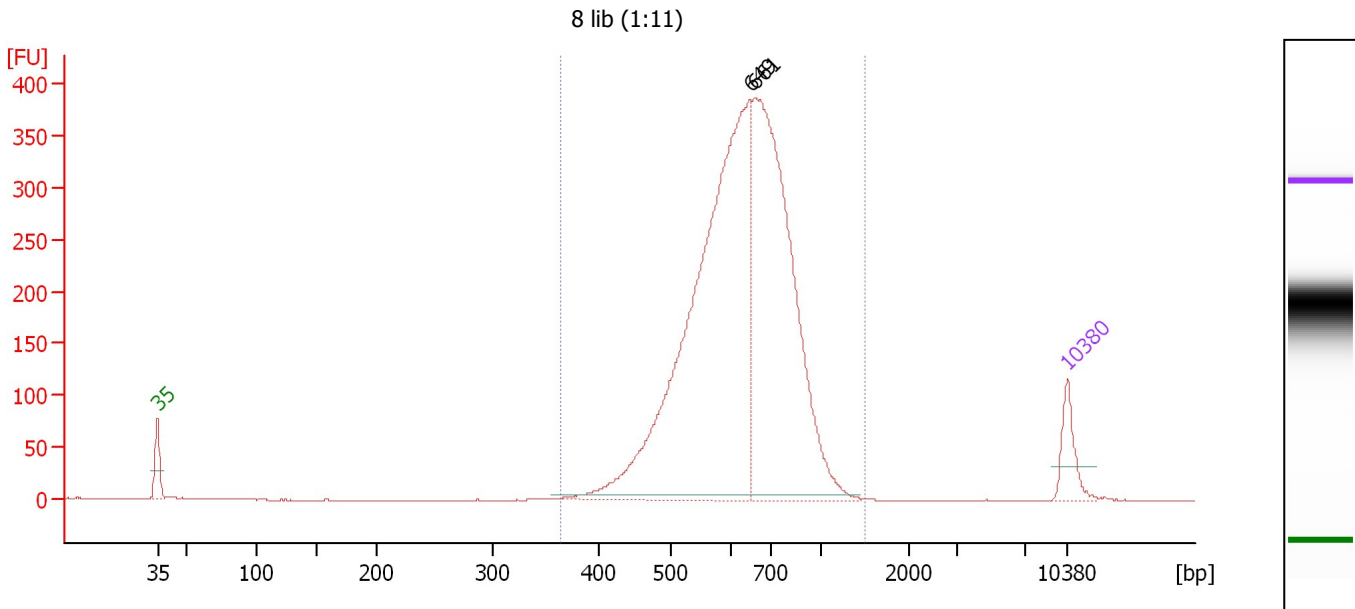
Region table for sample 2 : 4 lib (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
342	619	1,427	2,556.6	5,382.4	98	18.9	2,110.37

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 8 lib (1:11)

Number of peaks found: 2 Corr. Area 1: 3,902.4
 Noise: 0.1

Peak table for sample 3 : 8 lib (1:11)

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	649	1,883.32	4,395.1		88.59
3	661	1,357.54	3,111.3		88.96
4	10,380	75.00	10.9	Upper Marker	113.00

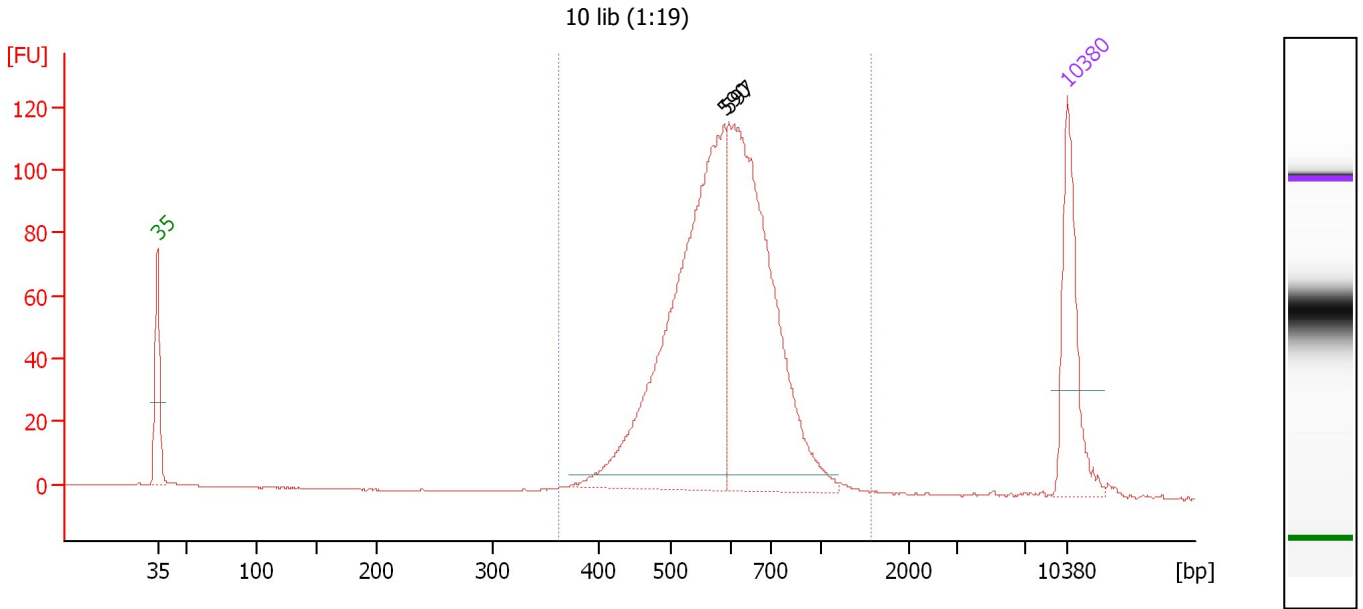
Region table for sample 3 : 8 lib (1:11)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
365	651	1,496	3,902.4	8,069.2	99	20.3	3,314.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 10 lib (1:19)

Number of peaks found: 2 Corr. Area 1: 1,224.7
 Noise: 0.1

Peak table for sample 4 : 10 lib (1:19)

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	590	423.18	1,086.6		86.61
3	597	377.06	956.4		86.94
4	10,380	75.00	10.9	Upper Marker	113.00

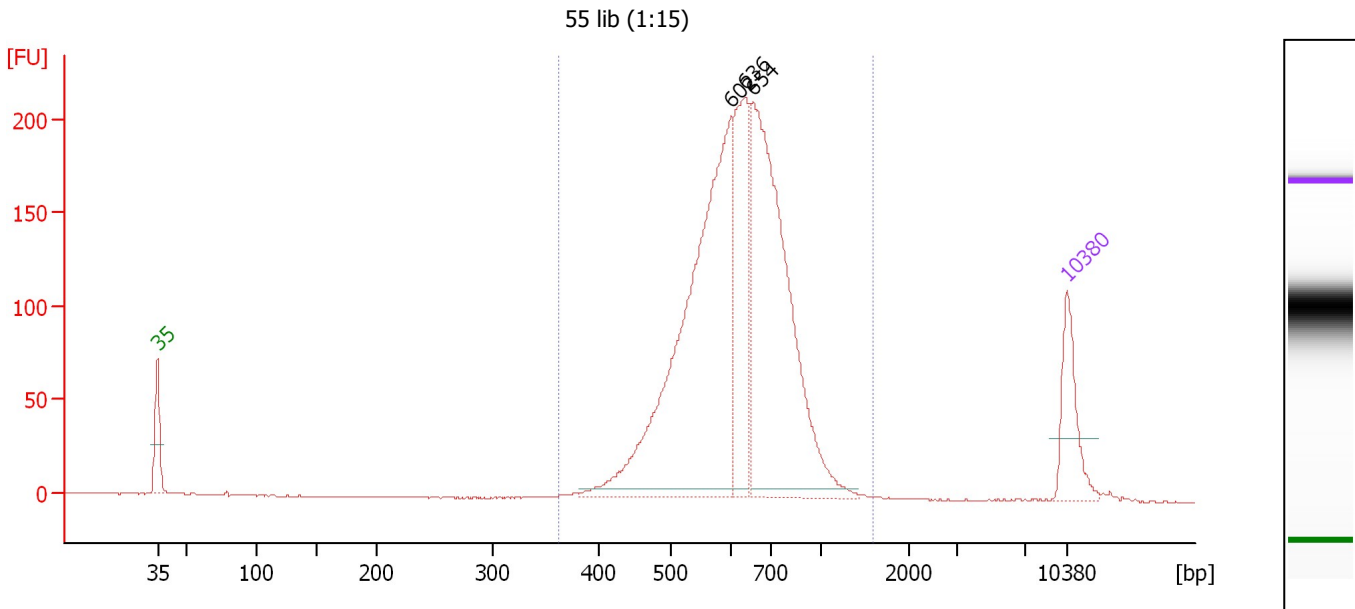
Region table for sample 4 : 10 lib (1:19)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
363	606	1,560	1,224.7	2,238.8	97	20.4	858.26

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 55 lib (1:15)

Number of peaks found: 3 Corr. Area 1: 2,122.6
 Noise: 0.1

Peak table for sample 5 : 55 lib (1:15)

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	602	730.54	1,839.8		87.11
3	636	233.42	555.9		88.18
4	654	609.72	1,412.0		88.75
5	10,380	75.00	10.9	Upper Marker	113.00

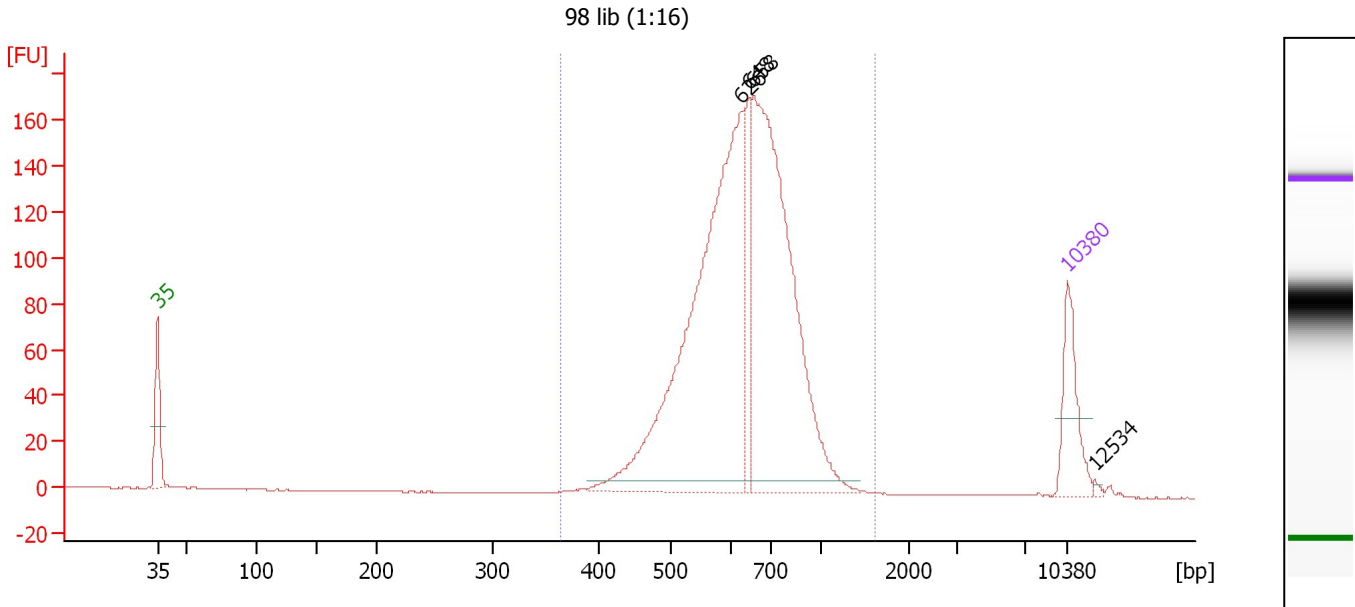
Region table for sample 5 : 55 lib (1:15)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
362	640	1,579	2,122.6	4,047.7	99	20.5	1,635.33

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 98 lib (1:16)

Number of peaks found: 4 Corr. Area 1: 1,677.1
 Noise: 0.1

Peak table for sample 6 : 98 lib (1:16)

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	626	783.01	1,893.9		87.88
3	648	114.11	267.0		88.54
4	658	662.79	1,525.9		88.87
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,534	0.00	0.0		115.07

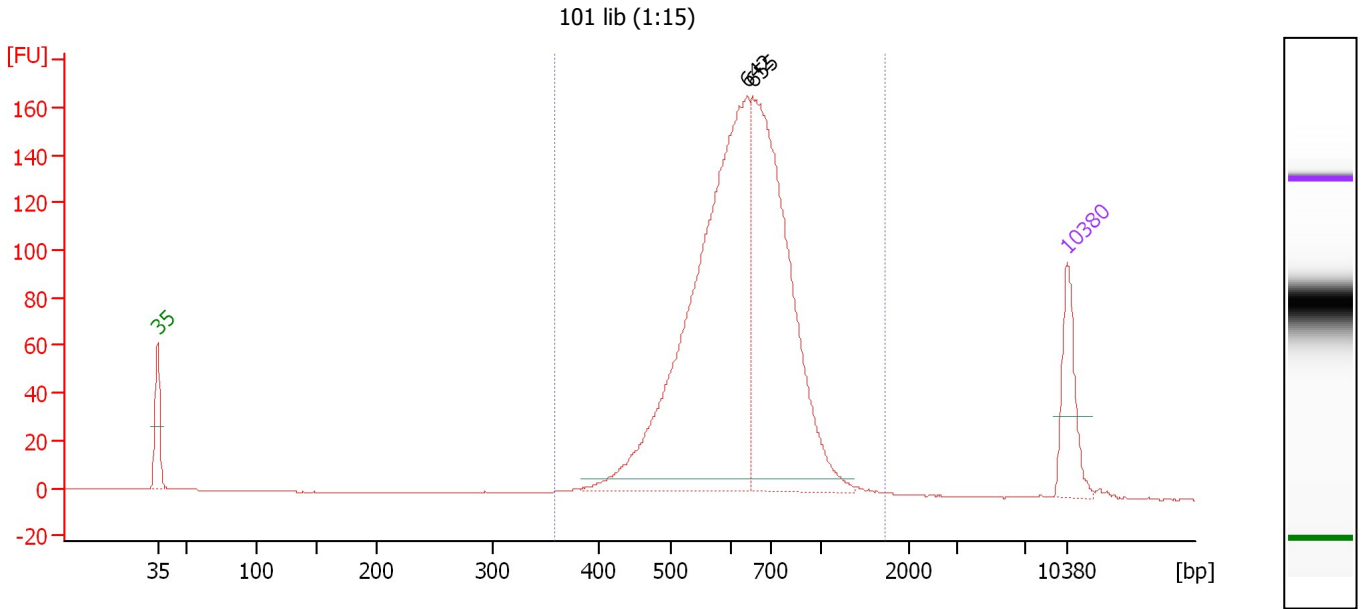
Region table for sample 6 : 98 lib (1:16)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
364	655	1,610	1,677.1	3,924.7	98	21.1	1,619.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 101 lib (1:15)

Number of peaks found: 2 Corr. Area 1: 1,653.4
 Noise: 0.1

Peak table for sample 7 : 101 lib (1:15)

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	642	881.22	2,080.4		88.36
3	655	638.73	1,476.5		88.78
4	10,380	75.00	10.9	Upper Marker	113.00

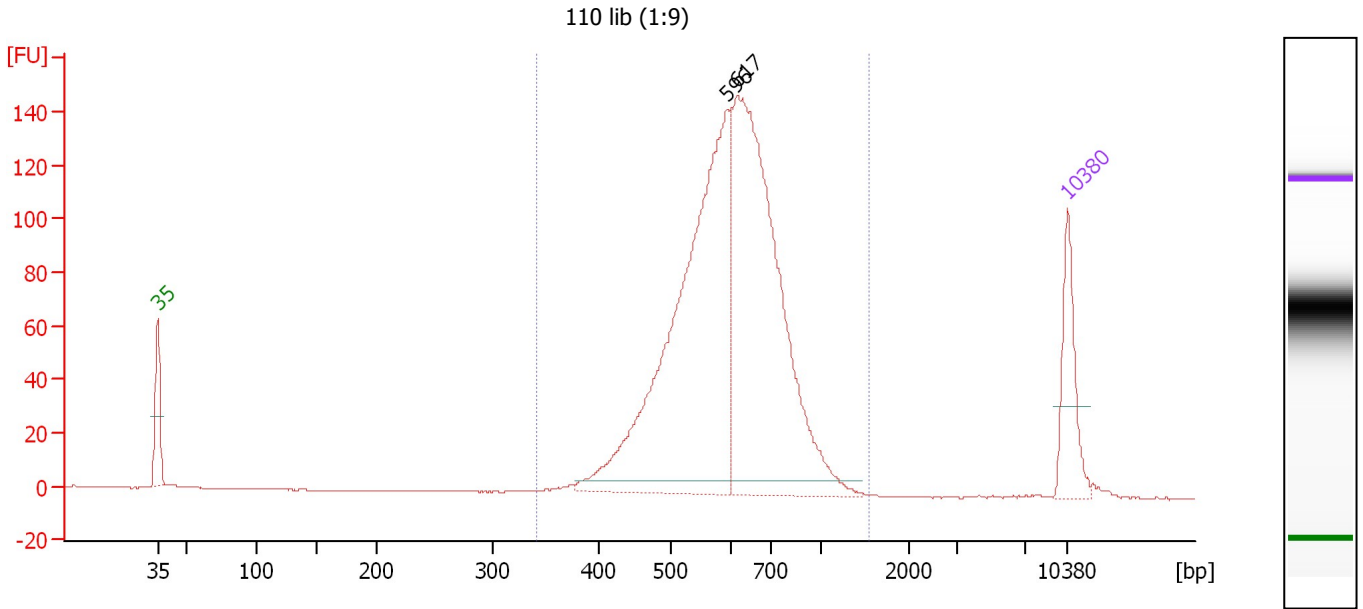
Region table for sample 7 : 101 lib (1:15)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
359	652	1,719	1,653.4	3,896.4	99	22.2	1,595.24

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 110 lib (1:9)

Number of peaks found: 2 Corr. Area 1: 1,495.8
 Noise: 0.1

Peak table for sample 8 : 110 lib (1:9)

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	596	706.68	1,797.0		86.87
3	617	657.91	1,616.1		87.58
4	10,380	75.00	10.9	Upper Marker	113.00

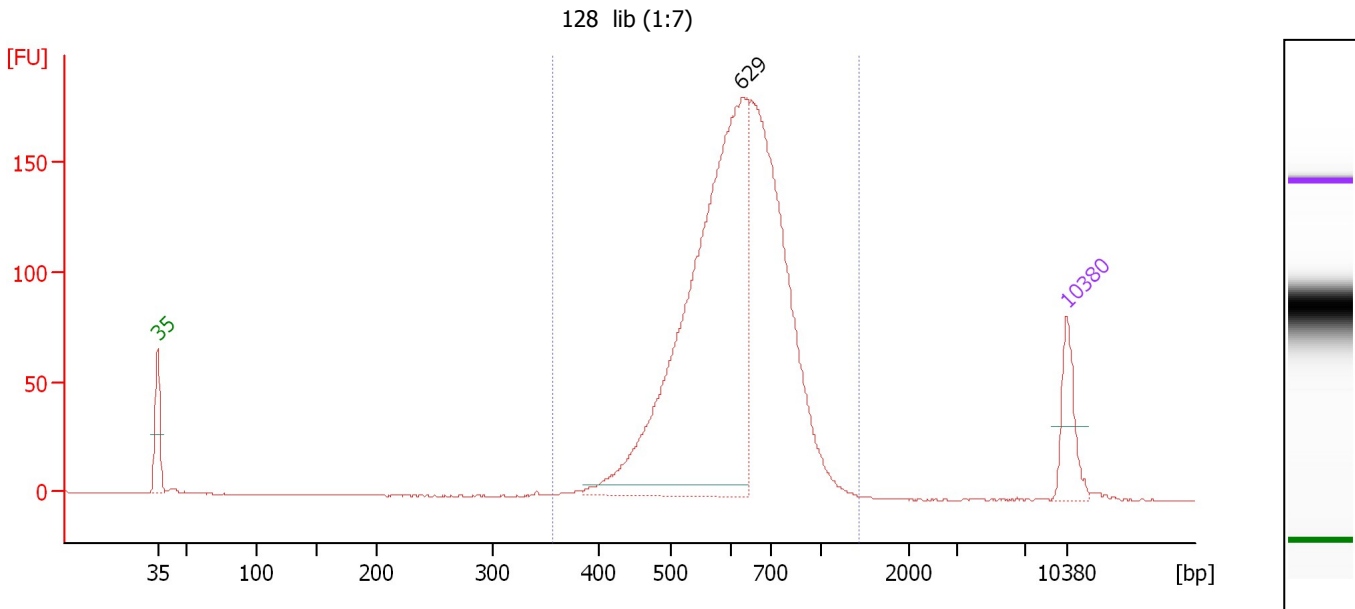
Region table for sample 8 : 110 lib (1:9)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
342	618	1,543	1,495.8	3,652.1	99	20.6	1,422.56

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 128 lib (1:7)

Number of peaks found: 1 Corr. Area 1: 1,801.6
 Noise: 0.2

Peak table for sample 9 : 128 lib (1:7)

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	629	1,240.39	2,987.9		87.96
3	10,380	75.00	10.9	Upper Marker	113.00

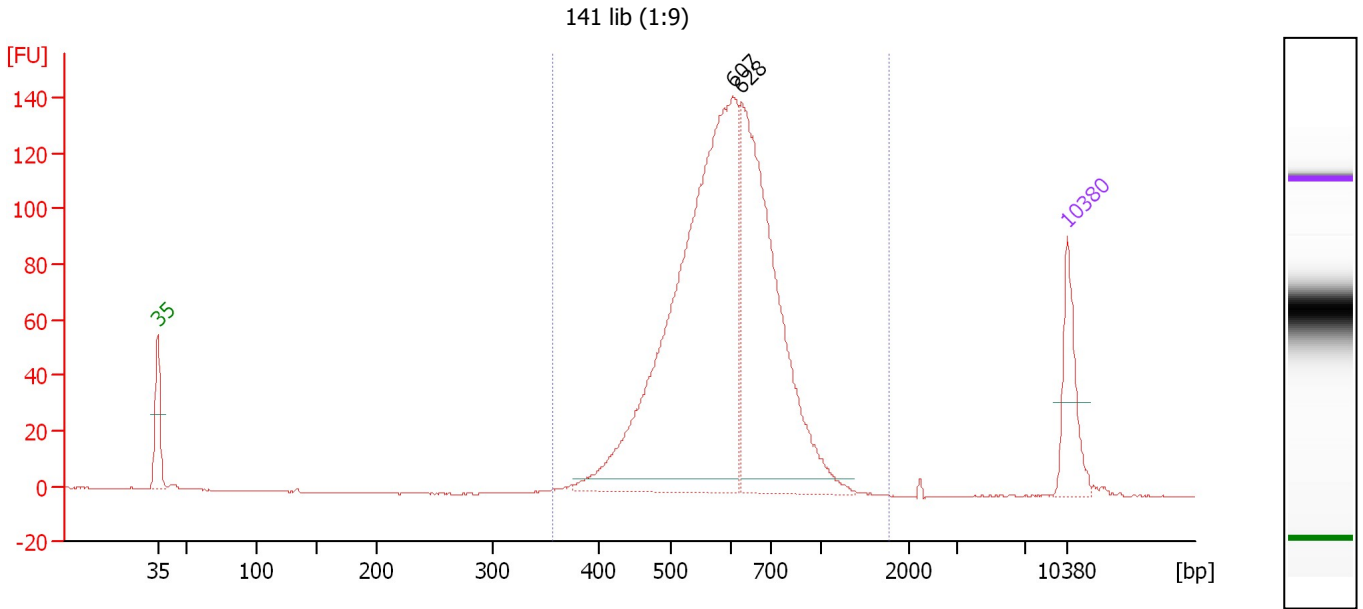
Region table for sample 9 : 128 lib (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
357	636	1,431	1,801.6	5,246.2	99	19.8	2,109.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 141 lib (1:9)

Number of peaks found: 2 Corr. Area 1: 1,460.5
 Noise: 0.2

Peak table for sample 10 : 141 lib (1:9)

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	607	954.13	2,383.3		87.26
3	628	574.67	1,386.7		87.93
4	10,380	75.00	10.9	Upper Marker	113.00

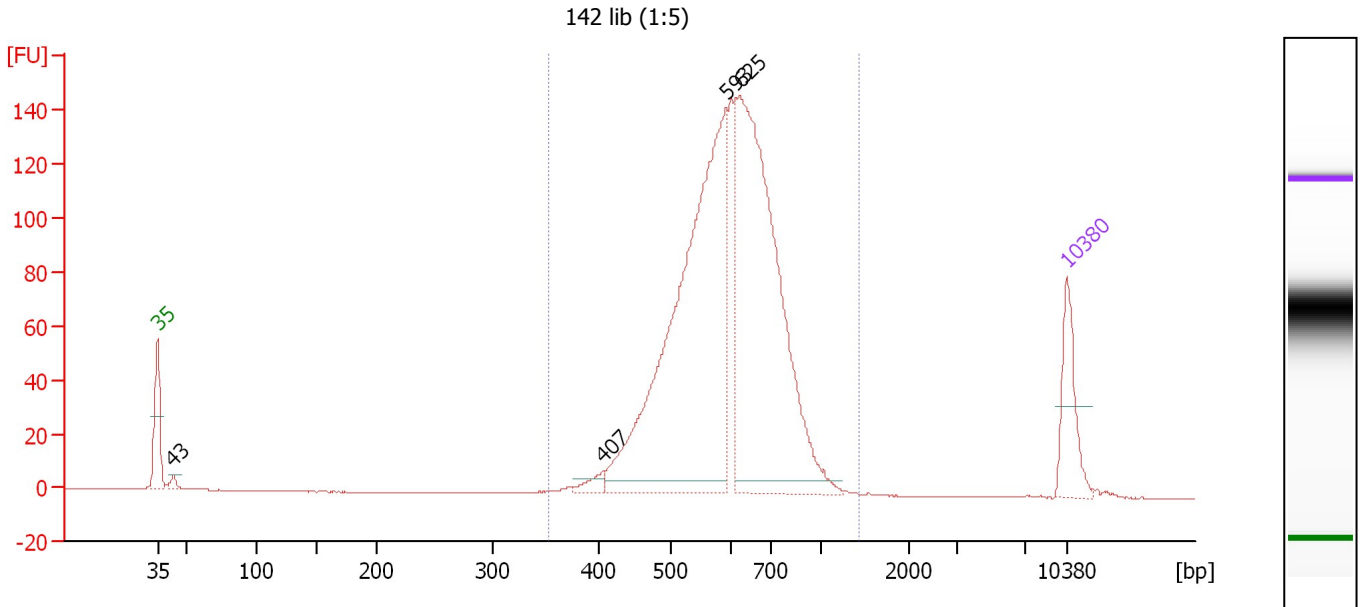
Region table for sample 10 : 141 lib (1:9)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
357	611	1,758	1,460.5	4,243.8	99	20.7	1,636.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
 Modified: 7/20/2015 3:34:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 142 lib (1:5)

Number of peaks found: 4 Corr. Area 1: 1,470.3
 Noise: 0.1

Peak table for sample 11 : 142 lib (1:5)

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	43	10.42	368.4		44.19
3	407	18.21	67.8		77.29
4	593	818.57	2,090.8		86.75
5	625	741.02	1,795.6		87.84
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 142 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
353	613	1,431	1,470.3	4,557.3	99	19.0	1,771.39

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-20\2015-07-20_001.xad

Created: 7/20/2015 2:40:29 PM
Modified: 7/20/2015 3:34:31 PM

Gel Image

