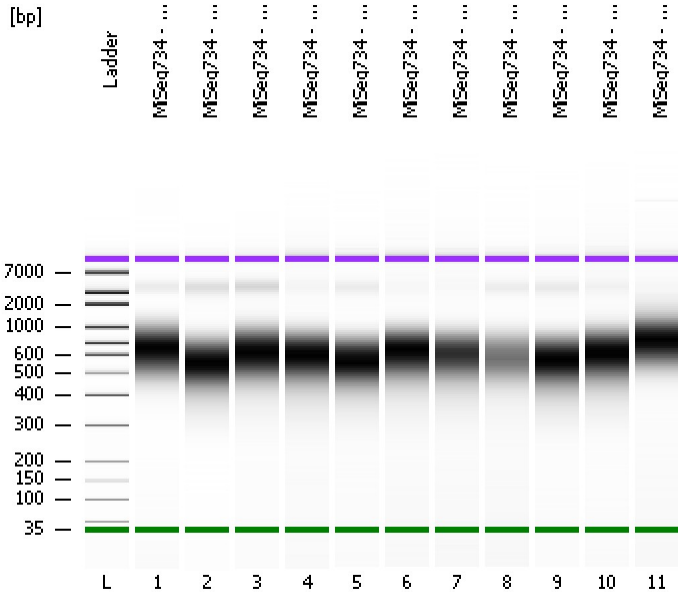


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
Modified: 11/30/2018 11:51:52 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

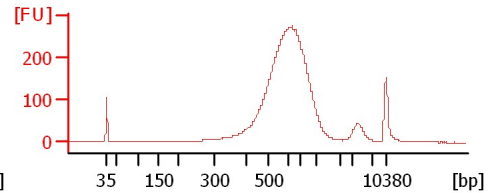
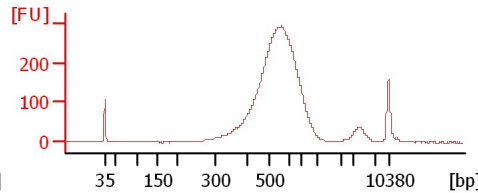
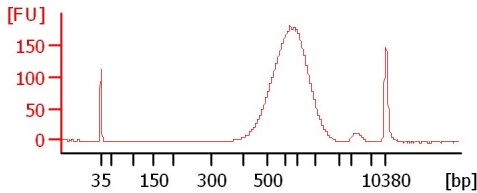
Chip Information:

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

MiSeq734 - 12 0.6X SS Lib

MiSeq734 - 13 0.6X SS Lib

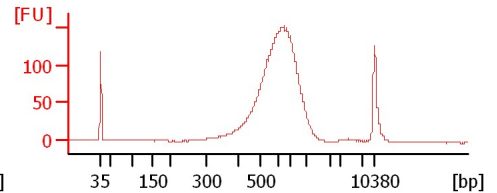
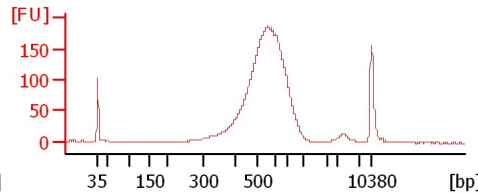
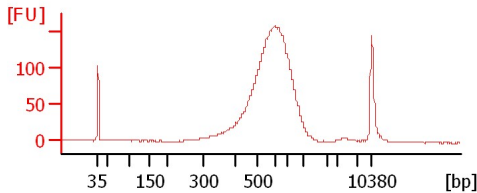
MiSeq734 - 14 0.6X SS Lib



MiSeq734 - 15 0.6X SS Lib

MiSeq734 - 16 0.6X SS Lib

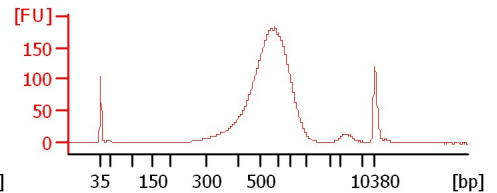
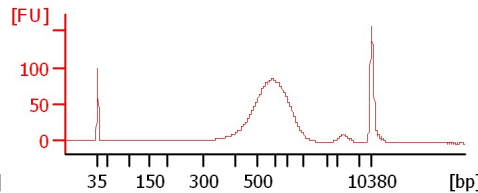
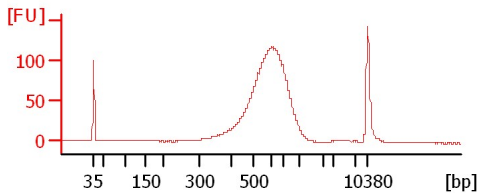
MiSeq734 - 17 0.6X SS Lib



MiSeq734 - 18 0.6X SS Lib

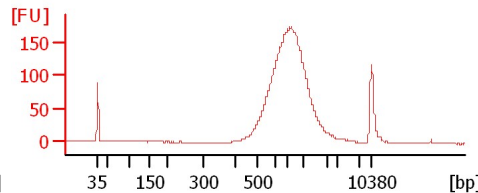
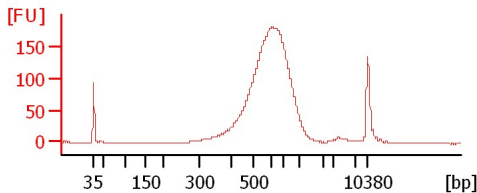
MiSeq734 - 19 0.6X SS Lib

MiSeq734 - 20 0.6X SS Lib



MiSeq734 - 21 0.6X SS Lib

MiSeq734 - 22 0.6X SS Lib



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MiSeq734 - 12 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 13 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 14 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 15 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 16 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 17 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 18 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 19 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 20 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 21 0.6X SS Lib		<input type="checkbox"/>	✓			
MiSeq734 - 22 0.6X SS Lib		<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\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
Modified: 11/30/2018 11:51:52 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

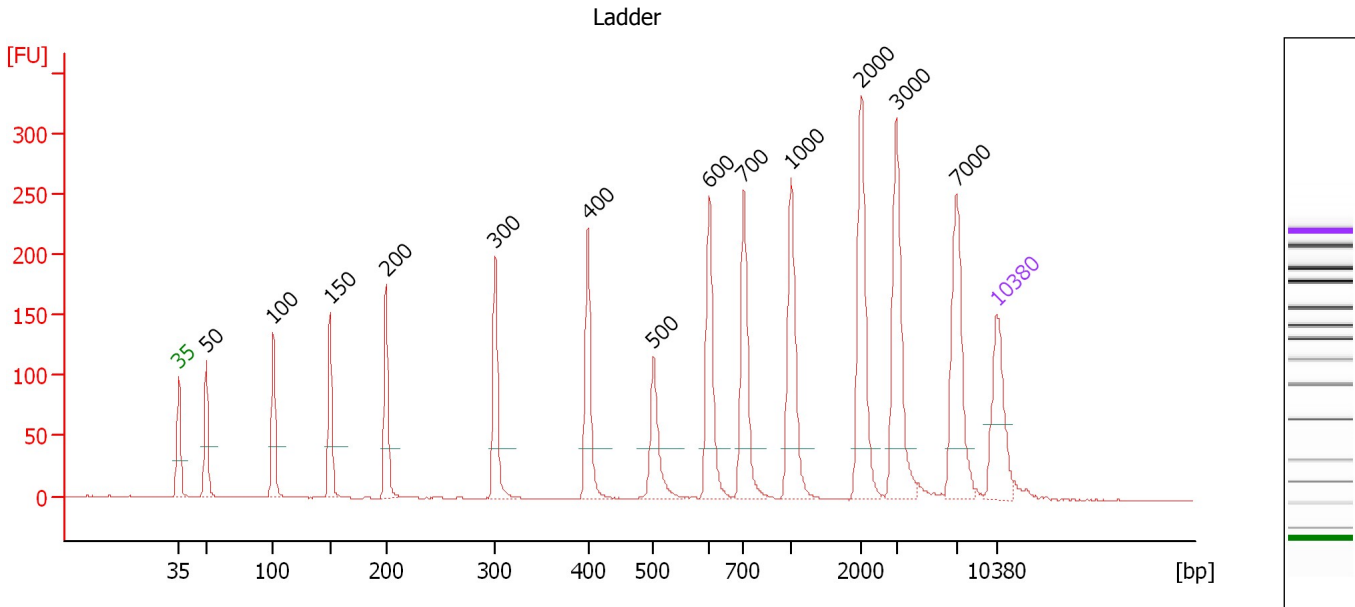
Ladder

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:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

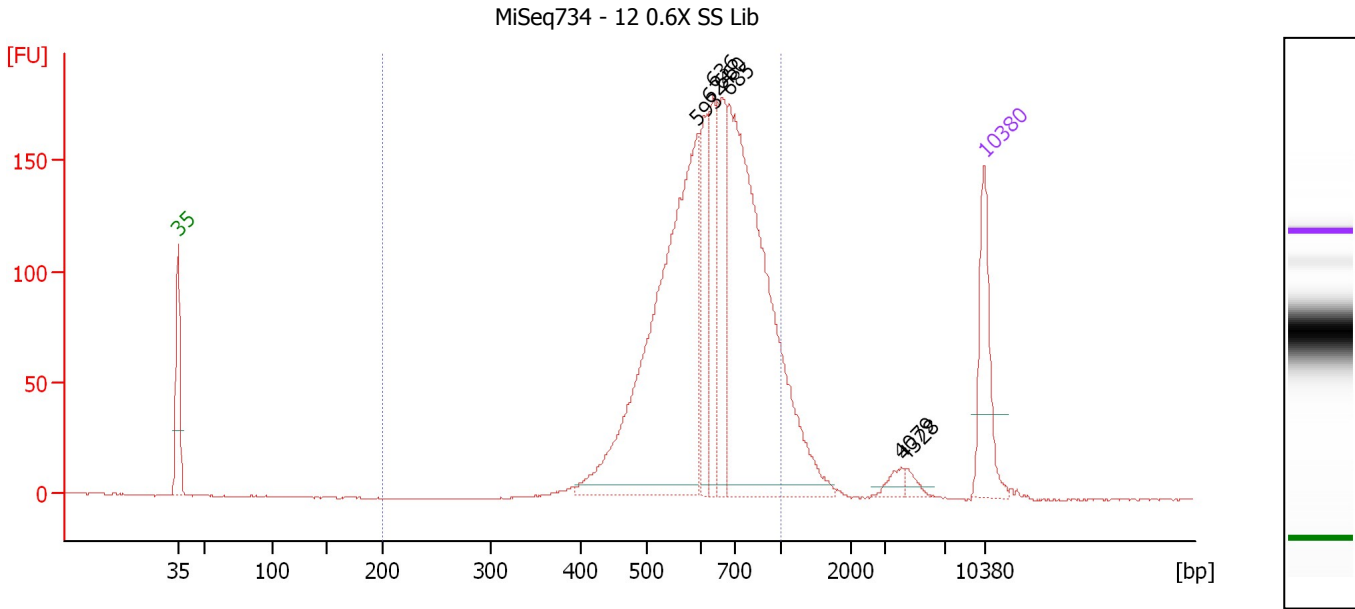
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.12
4	150	150.00	1,515.2	Ladder Peak	55.96
5	200	150.00	1,136.4	Ladder Peak	60.75
6	300	150.00	757.6	Ladder Peak	70.11
7	400	150.00	568.2	Ladder Peak	78.05
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.40
10	700	150.00	324.7	Ladder Peak	91.37
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.42
14	7,000	150.00	32.5	Ladder Peak	109.62
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MiSeq734 - 12 0.6X SS Lib

Number of peaks found: 7 Corr. Area 1: 2,044.6
 Noise: 0.3

Peak table for sample 1 : MiSeq734 - 12 0.6X SS Lib

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	593	556.99	1,422.1		88.09
3	624	110.30	267.9		89.11
4	636	89.43	212.9		89.48
5	660	115.89	266.1		90.18
6	685	559.72	1,238.6		90.92
7	4,079	10.83	4.0		105.82
8	4,328	8.81	3.1		106.15
9	10,380	75.00	10.9	Upper Marker	113.00

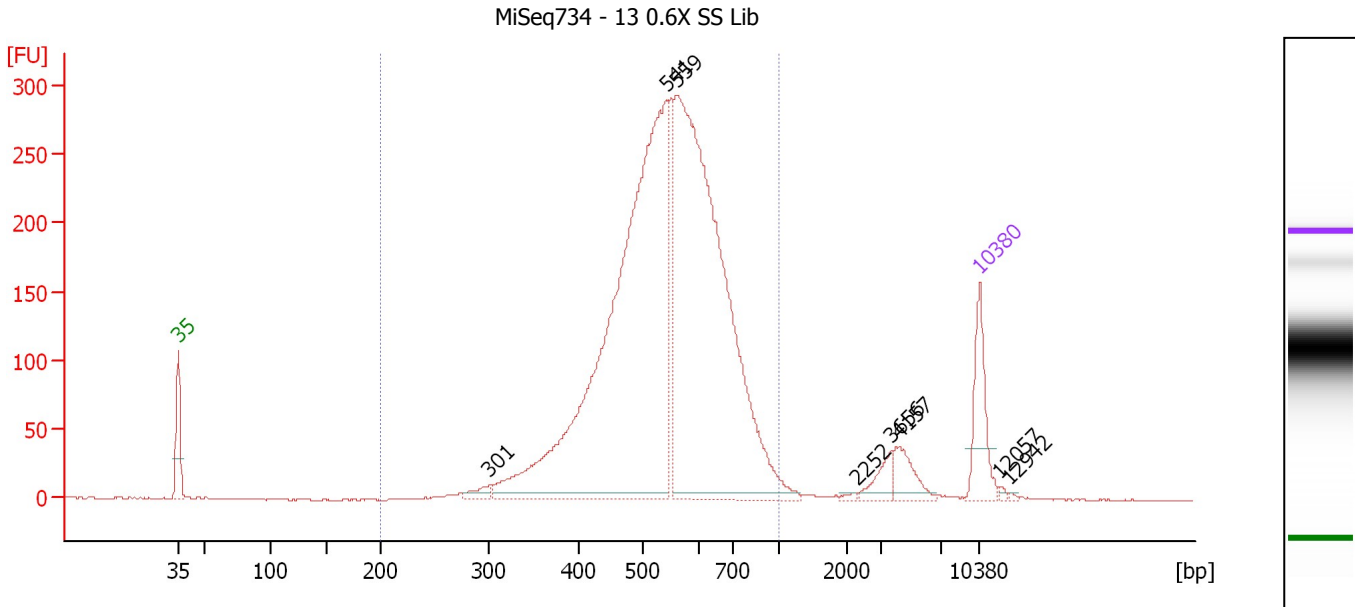
Region table for sample 1 : MiSeq734 - 12 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	651	1,386.57	2,044.6	3,386.7	92	20.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MiSeq734 - 13 0.6X SS Lib

Number of peaks found: 8 Corr. Area 1: 3,945.1
 Noise: 0.3

Peak table for sample 2 : MiSeq734 - 13 0.6X SS Lib

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	21.20	106.7		70.18
3	541	1,269.66	3,558.3		85.59
4	559	1,140.33	3,089.4		86.47
5	2,252	3.29	2.2		102.20
6	3,656	26.84	11.1		105.27
7	4,157	39.51	14.4		105.93
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,057	0.00	0.0		114.68
10	12,942	0.00	0.0		115.56

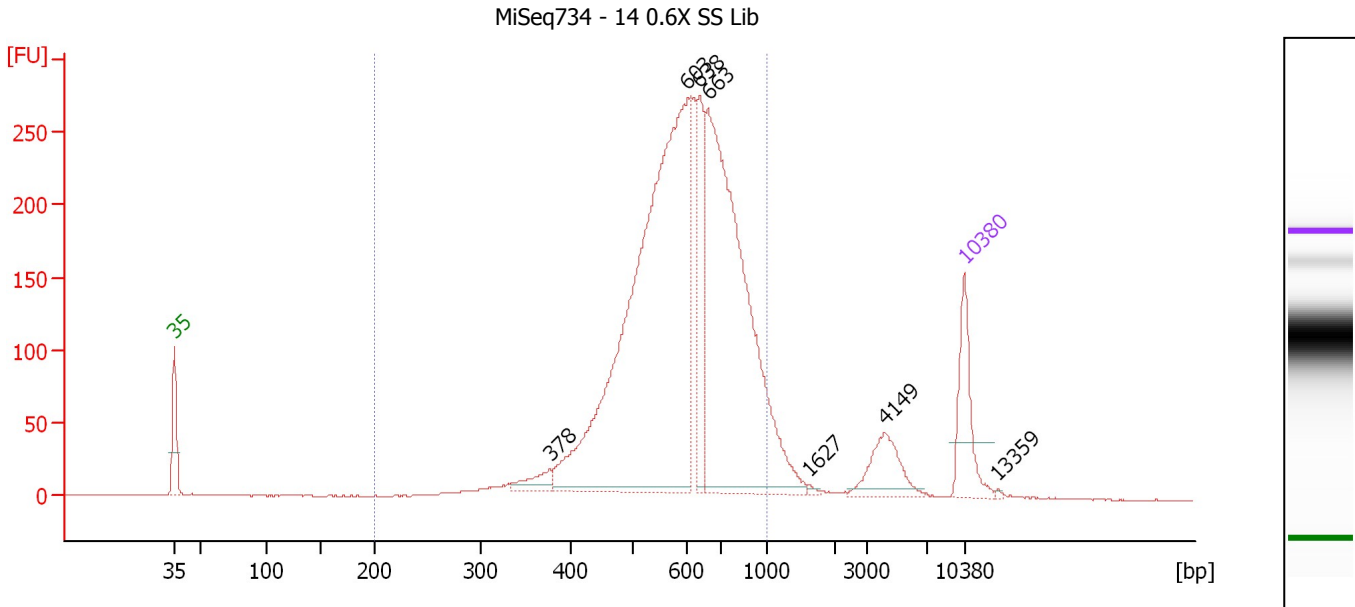
Region table for sample 2 : MiSeq734 - 13 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	550	2,577.29	3,945.1	7,526.0	95	20.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MiSeq734 - 14 0.6X SS Lib

Number of peaks found: 7 Corr. Area 1: 3,575.2
 Noise: 0.3

Peak table for sample 3 : MiSeq734 - 14 0.6X SS Lib

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	378	30.35	121.7		76.30
3	603	1,068.27	2,685.3		88.49
4	638	122.04	289.9		89.52
5	663	740.57	1,691.7		90.28
6	1,627	2.94	2.7		99.21
7	4,149	63.19	23.1		105.91
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,359	0.00	0.0		115.98

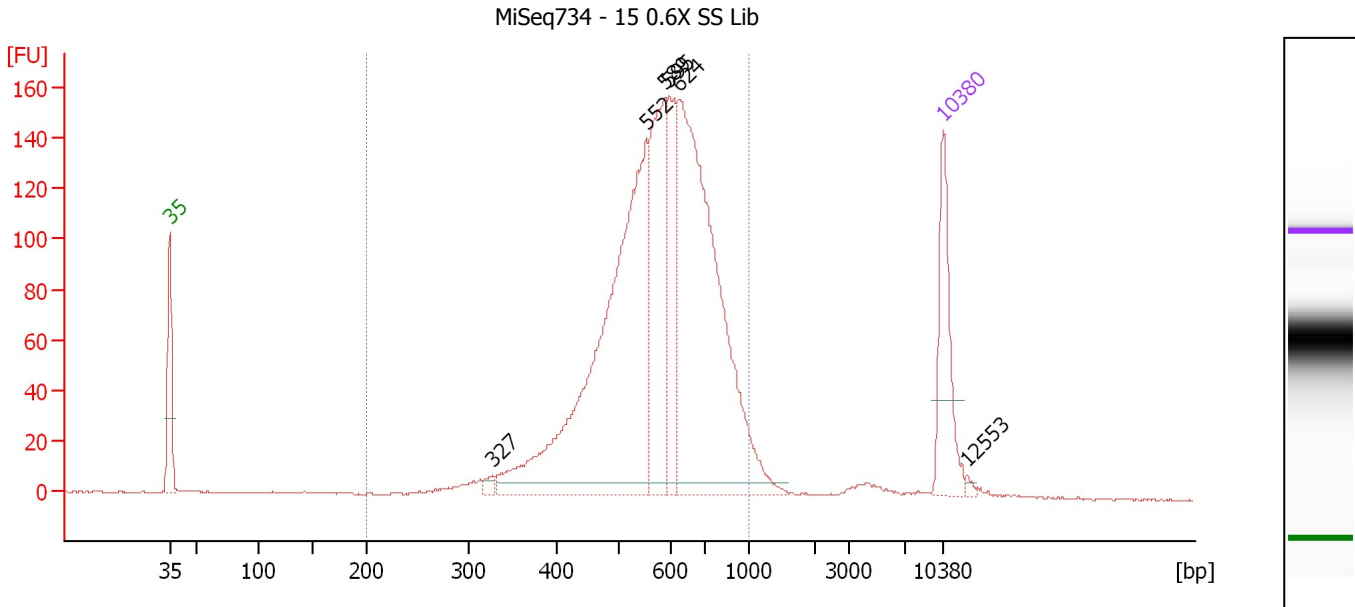
Region table for sample 3 : MiSeq734 - 14 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	616	2,164.20	3,575.2	5,699.3	92	22.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MiSeq734 - 15 0.6X SS Lib

Number of peaks found: 6 Corr. Area 1: 2,063.0
 Noise: 0.3

Peak table for sample 4 : MiSeq734 - 15 0.6X SS Lib

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	327	7.78	36.0		72.28
3	552	535.46	1,469.6		86.13
4	589	174.04	448.0		87.87
5	595	106.67	271.7		88.16
6	624	489.19	1,187.6		89.12
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,553	0.00	0.0		115.17

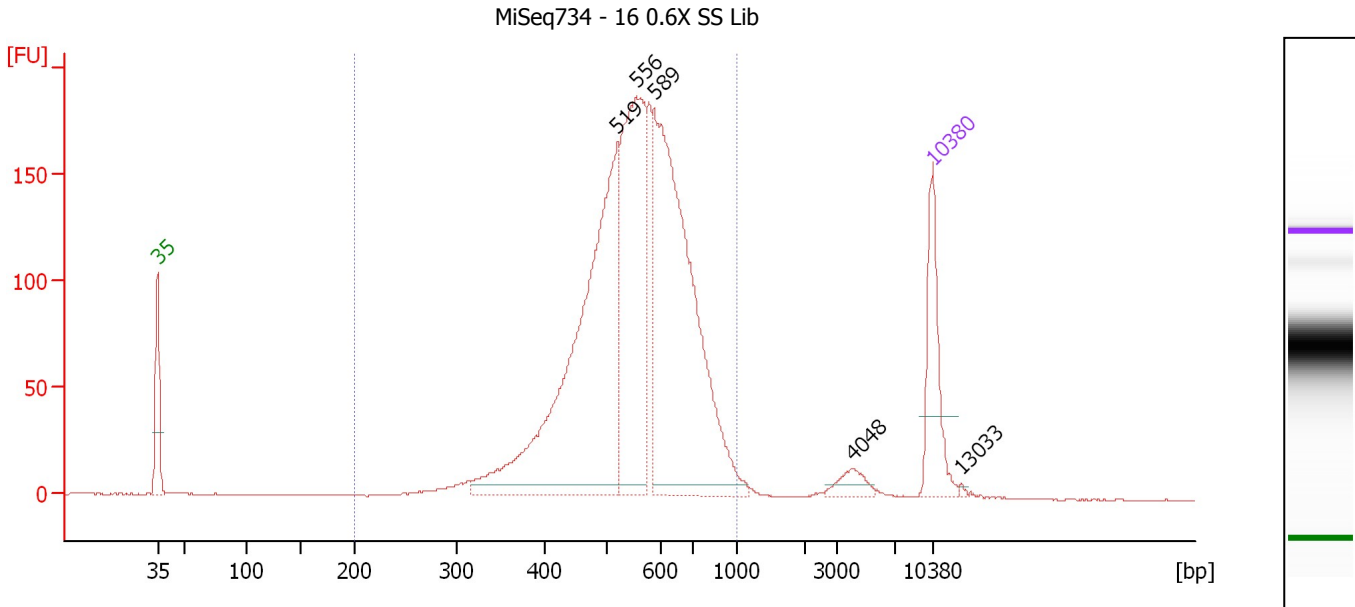
Region table for sample 4 : MiSeq734 - 15 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	593	1,374.81	2,063.0	3,764.1	96	22.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MiSeq734 - 16 0.6X SS Lib

Number of peaks found: 5 Corr. Area 1: 2,453.9
 Noise: 0.3

Peak table for sample 5 : MiSeq734 - 16 0.6X SS Lib

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	519	554.70	1,618.2		84.58
3	556	321.22	876.0		86.30
4	589	514.82	1,325.1		87.87
5	4,048	17.14	6.4		105.78
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,033	0.00	0.0		115.65

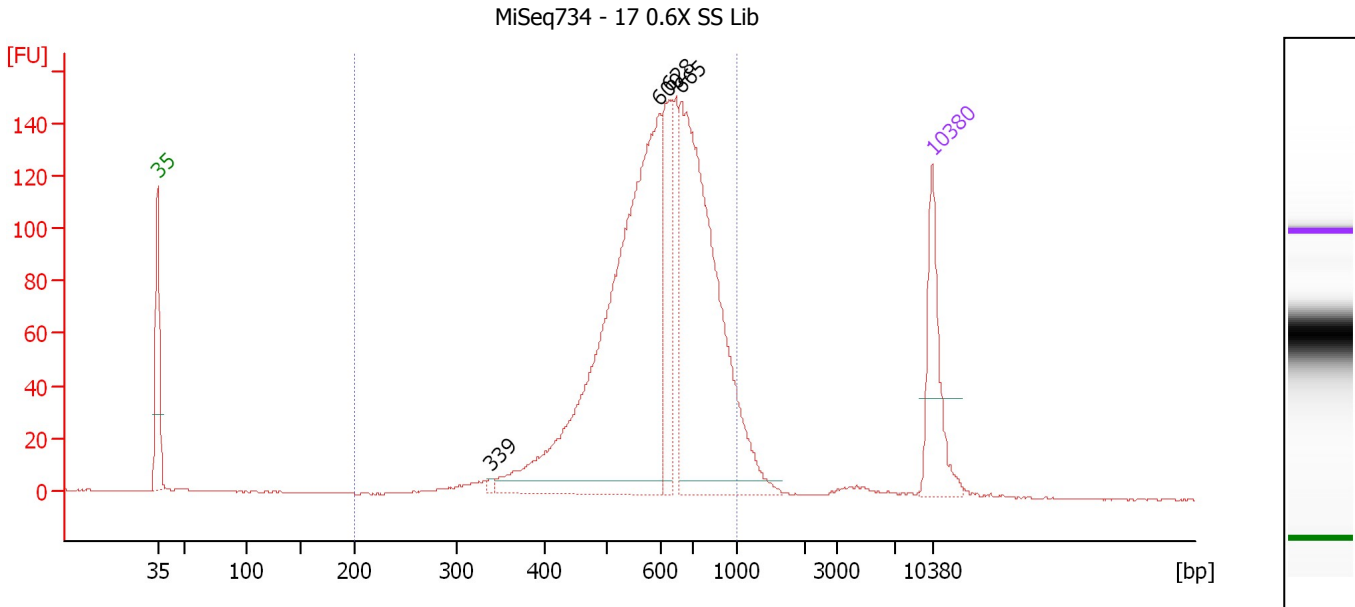
Region table for sample 5 : MiSeq734 - 16 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	561	1,519.84	2,453.9	4,361.2	96	20.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MiSeq734 - 17 0.6X SS Lib

Number of peaks found: 4 Corr. Area 1: 1,867.6
 Noise: 0.2

Peak table for sample 6 : MiSeq734 - 17 0.6X SS Lib

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	339	3.76	16.8		73.17
3	600	638.56	1,613.7		88.38
4	628	119.37	288.0		89.23
5	665	469.28	1,069.1		90.33
6	10,380	75.00	10.9	Upper Marker	113.00

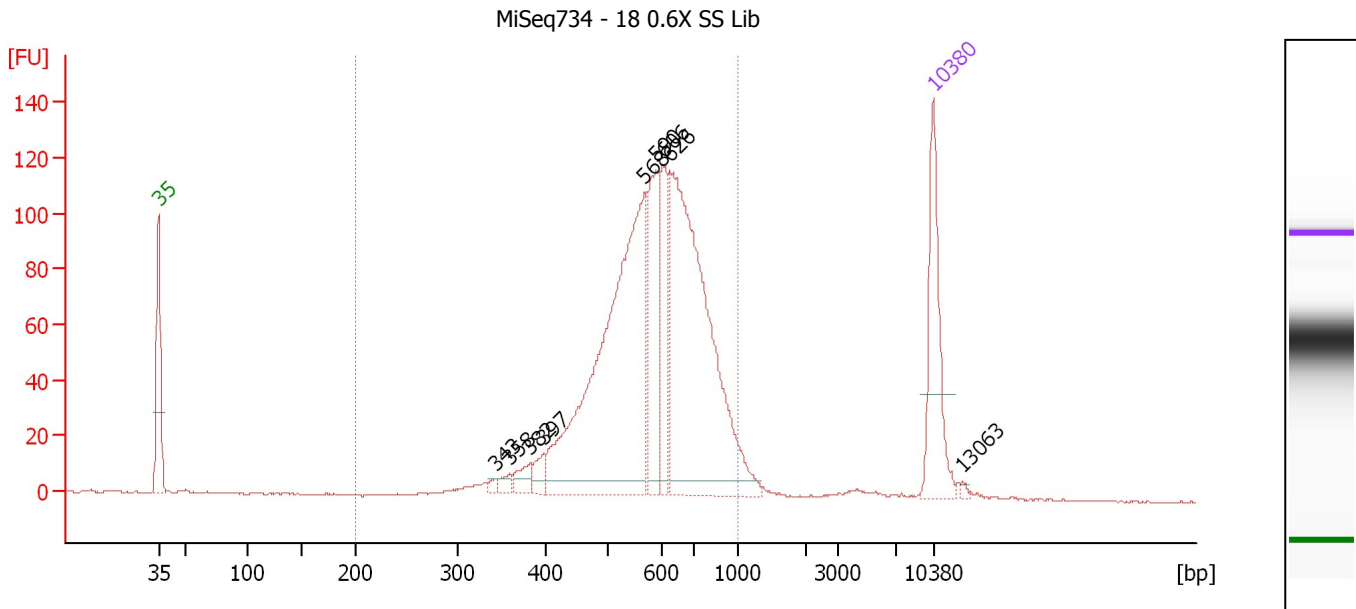
Region table for sample 6 : MiSeq734 - 17 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	620	1,336.41	1,867.6	3,492.3	95	22.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MiSeq734 - 18 0.6X SS Lib

Number of peaks found: 9 Corr. Area 1: 1,462.5
 Noise: 0.2

Peak table for sample 7 : MiSeq734 - 18 0.6X SS Lib

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	343	4.85	21.4		73.50
3	358	7.94	33.6		74.71
4	382	16.32	64.8		76.58
5	397	13.97	53.3		77.80
6	568	405.75	1,081.7		86.90
7	590	96.94	249.1		87.91
8	606	74.87	187.3		88.57
9	626	372.92	902.5		89.18
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,063	0.00	0.0		115.68

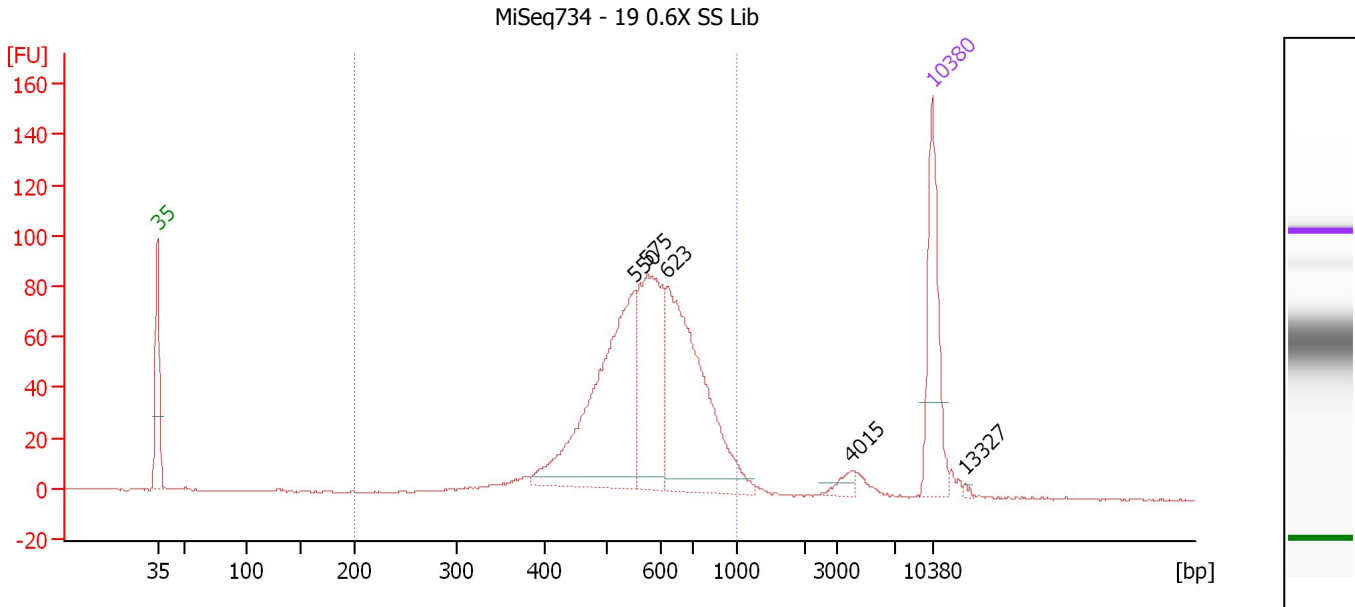
Region table for sample 7 : MiSeq734 - 18 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	600	1,049.07	1,462.5	2,824.0	96	21.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MiSeq734 - 19 0.6X SS Lib

Number of peaks found: 5 Corr. Area 1: 1,080.3
 Noise: 0.2

Peak table for sample 8 : MiSeq734 - 19 0.6X SS Lib

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	550	251.78	693.2		86.05
3	575	155.50	409.8		87.21
4	623	224.64	546.2		89.09
5	4,015	8.51	3.2		105.74
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,327	0.00	0.0		115.94

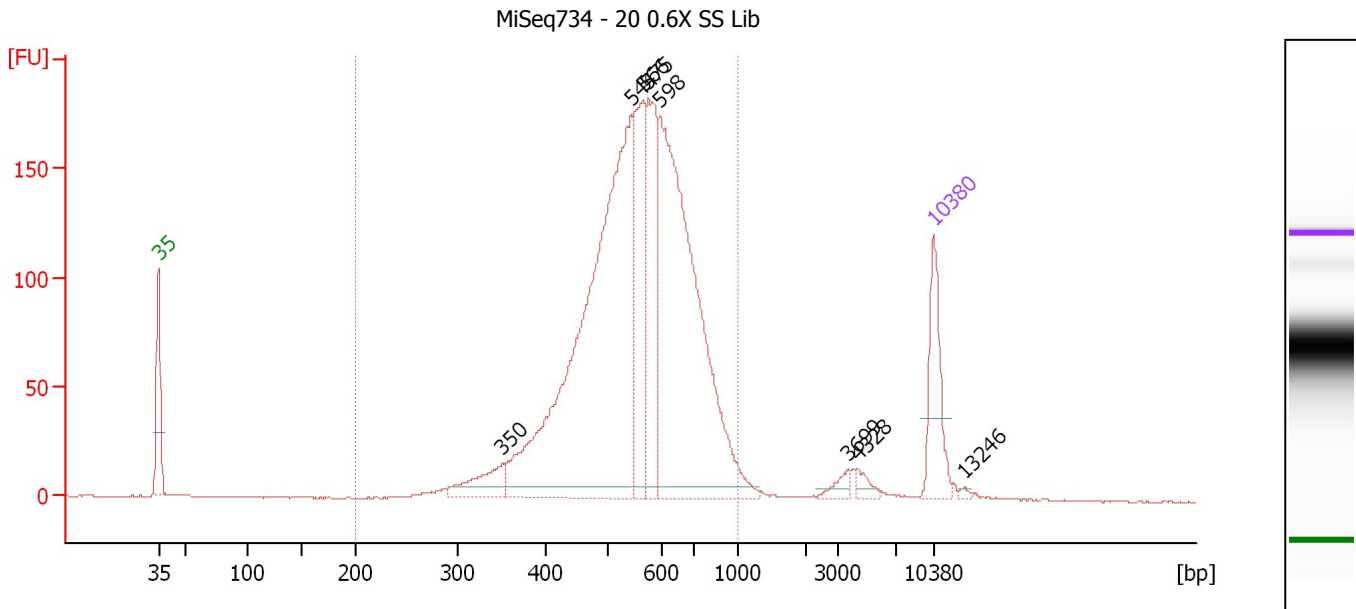
Region table for sample 8 : MiSeq734 - 19 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	590	693.84	1,080.3	1,887.8	94	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MiSeq734 - 20 0.6X SS Lib

Number of peaks found: 8 Corr. Area 1: 2,405.4
 Noise: 0.2

Peak table for sample 9 : MiSeq734 - 20 0.6X SS Lib

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	350	58.06	251.2		74.09
3	544	840.82	2,341.9		85.75
4	566	187.80	503.1		86.77
5	575	185.41	488.4		87.23
6	598	616.36	1,562.0		88.30
7	3,699	12.94	5.3		105.33
8	4,328	10.76	3.8		106.15
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,246	0.00	0.0		115.86

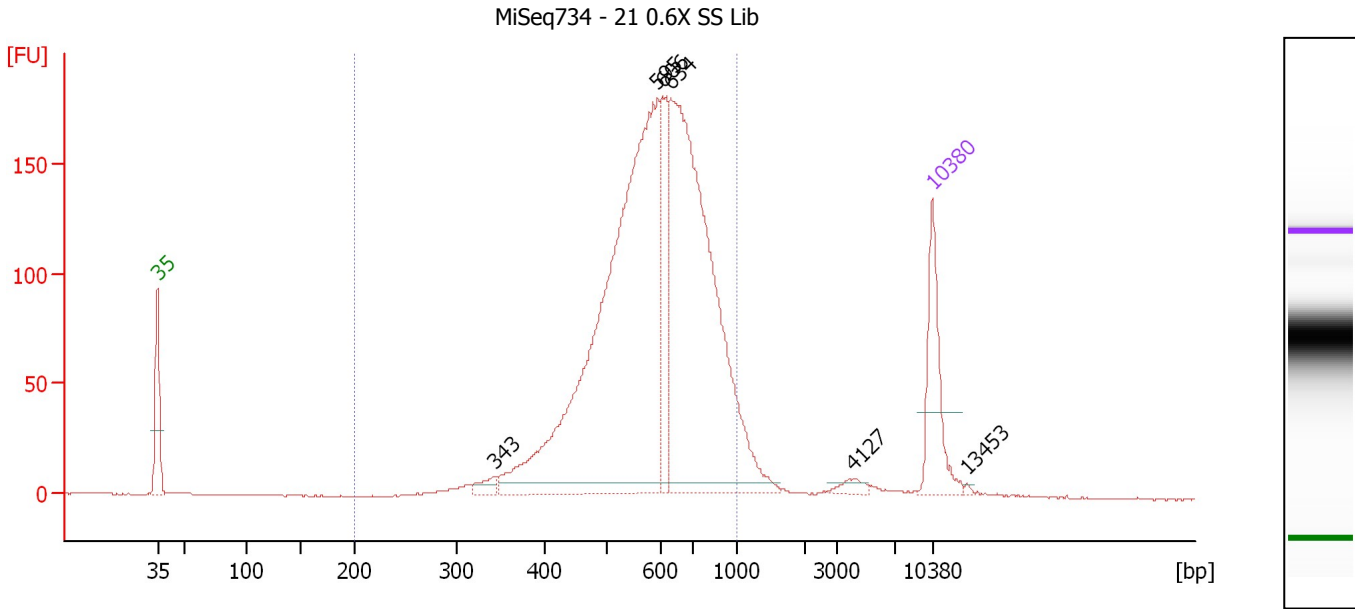
Region table for sample 9 : MiSeq734 - 20 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	564	1,969.44	2,405.4	5,641.0	96	21.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MiSeq734 - 21 0.6X SS Lib

Number of peaks found: 6 Corr. Area 1: 2,334.3
 Noise: 0.3

Peak table for sample 10 : MiSeq734 - 21 0.6X SS Lib

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	343	15.62	68.9		73.55
3	595	806.29	2,052.0		88.18
4	606	120.20	300.4		88.59
5	634	624.71	1,493.1		89.41
6	4,127	9.13	3.4		105.89
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,453	0.00	0.0		116.07

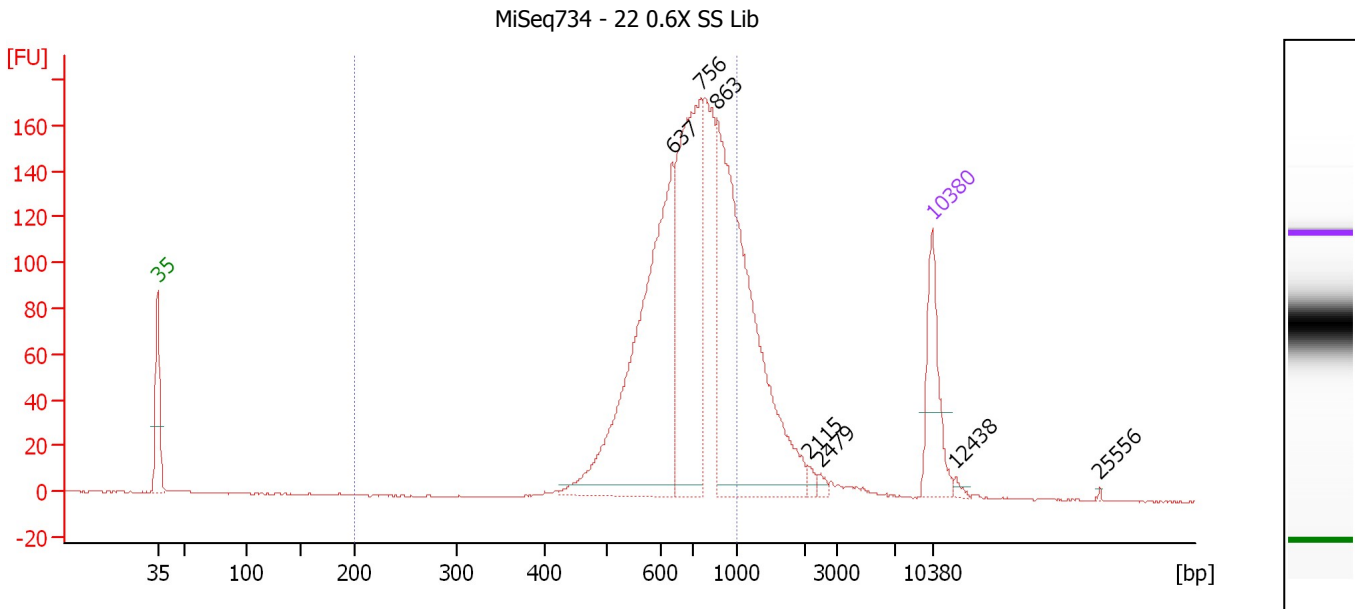
Region table for sample 10 : MiSeq734 - 21 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	608	1,638.91	2,334.3	4,370.6	94	22.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
 Modified: 11/30/2018 11:51:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MiSeq734 - 22 0.6X SS Lib

Number of peaks found: 7 Corr. Area 1: 1,618.0
 Noise: 0.3

Peak table for sample 11 : MiSeq734 - 22 0.6X SS Lib

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	637	476.11	1,131.8		89.51
3	756	356.06	713.2		92.13
4	863	488.84	858.6		93.57
5	2,115	6.67	4.8		101.80
6	2,479	5.06	3.1		102.88
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,438	0.00	0.0		115.06
9	25,556	0.00	0.0		128.16

Region table for sample 11 : MiSeq734 - 22 0.6X SS Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	709	1,246.78	1,618.0	2,785.5	79	19.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-30\2018-11-30_001.xad

Created: 11/30/2018 11:10:34 AM
Modified: 11/30/2018 11:51:52 AM

Gel Image

