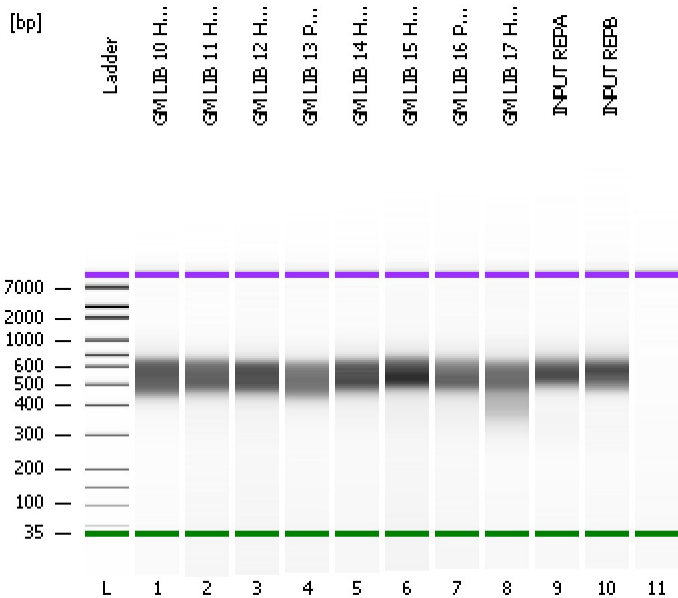


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 PM

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

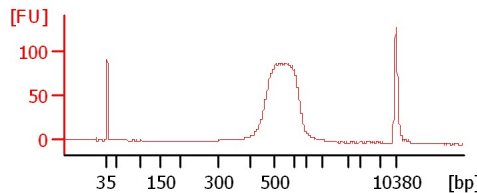
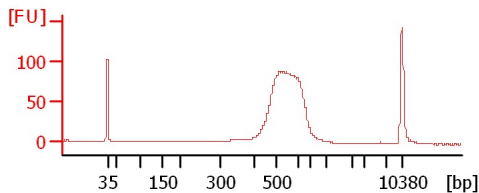
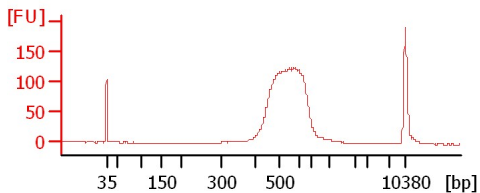
Chip Information:

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

GM LIB 10 H3K27AC-A

GM LIB 11 H3K4ME1-A

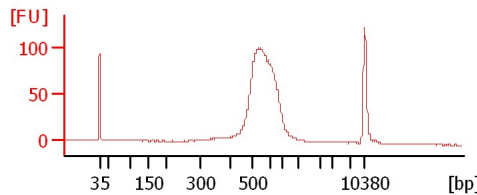
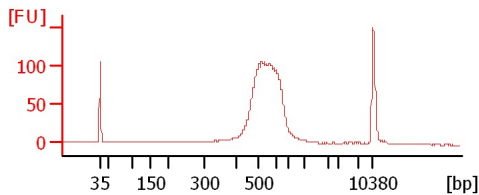
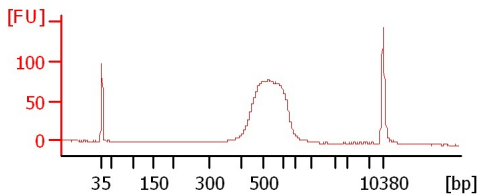
GM LIB 12 H3K4ME3-A



GM LIB 13 POL-A

GM LIB 14 H3K27AC-B

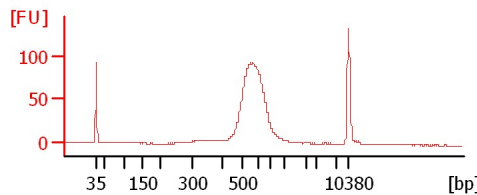
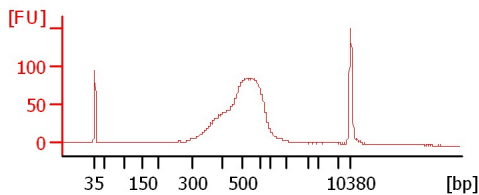
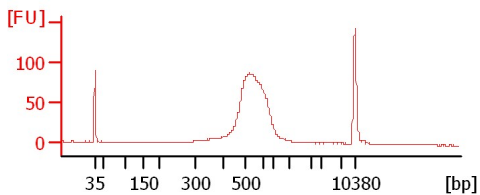
GM LIB 15 H3K4ME1-B



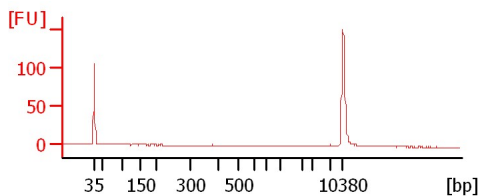
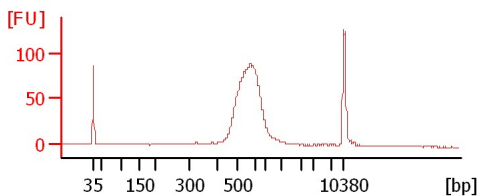
GM LIB 16 POL-B

GM LIB 17 H3K4ME3-B

INPUT REPA



INPUT REPB



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GM LIB 10 H3K27AC-A		<input type="checkbox"/>	✓			
GM LIB 11 H3K4ME1-A		<input type="checkbox"/>	✓			
GM LIB 12 H3K4ME3-A		<input type="checkbox"/>	✓			
GM LIB 13 POL-A		<input type="checkbox"/>	✓			
GM LIB 14 H3K27AC-B		<input type="checkbox"/>	✓			
GM LIB 15 H3K4ME1-B		<input type="checkbox"/>	✓			
GM LIB 16 POL-B		<input type="checkbox"/>	✓			
GM LIB 17 H3K4ME3-B		<input type="checkbox"/>	✓			
INPUT REPA		<input type="checkbox"/>	✓			
INPUT REPB		<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\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 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

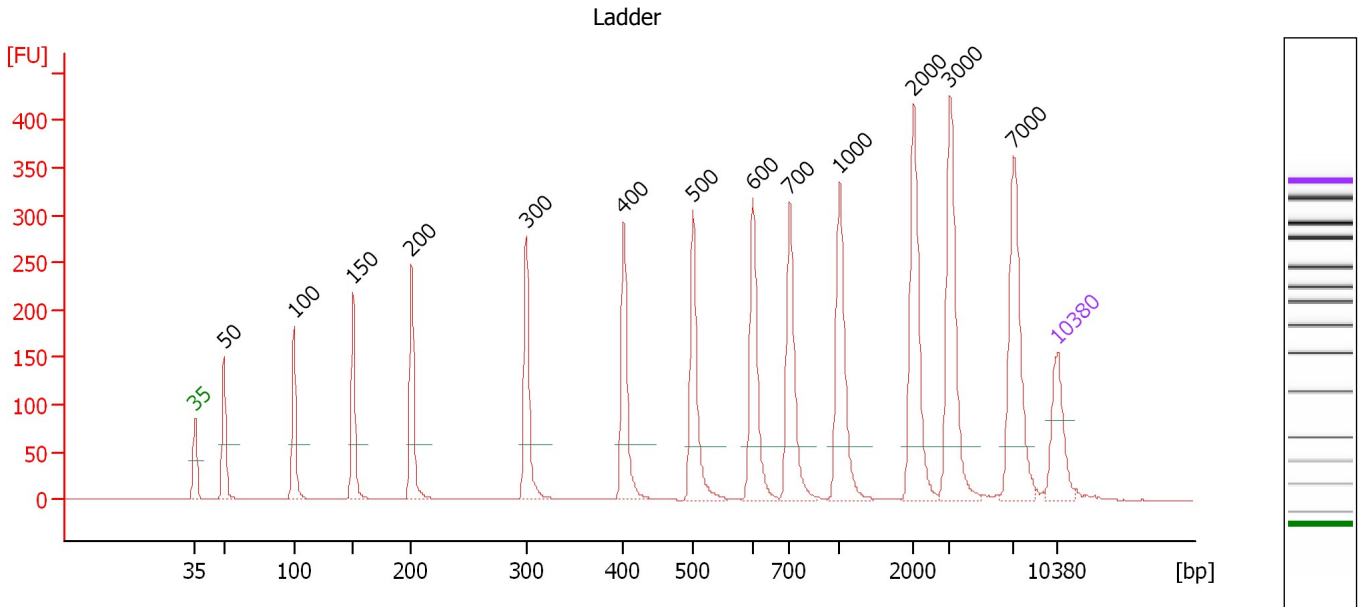
Ladder

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:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

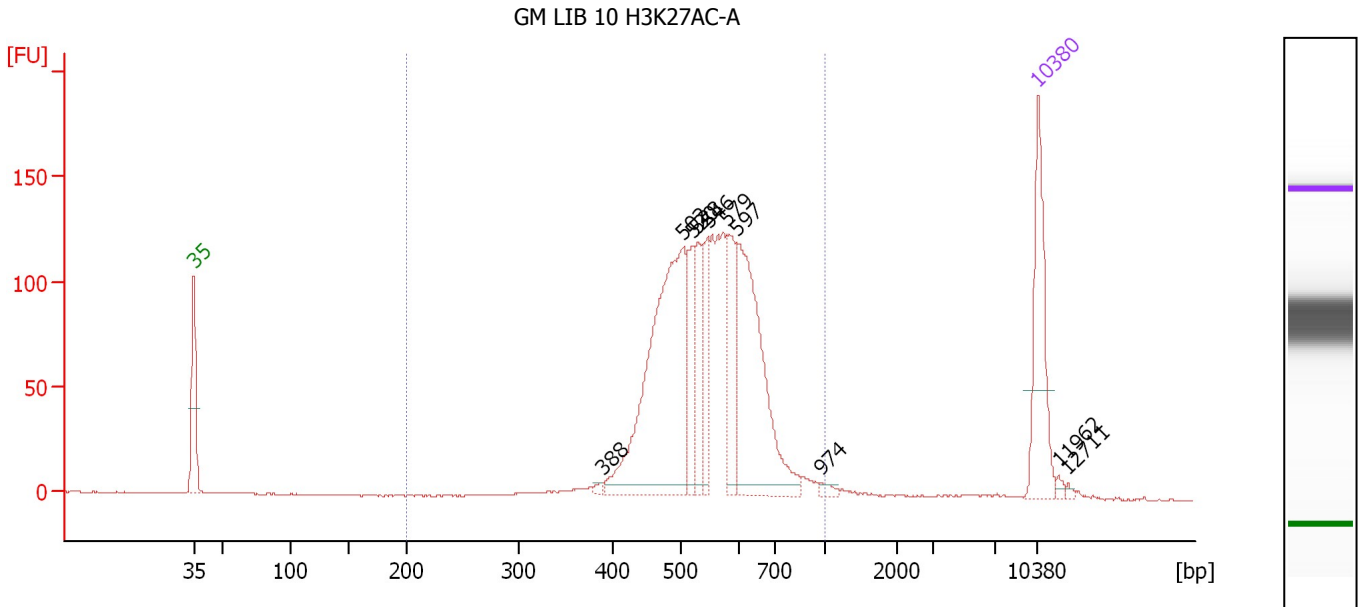
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.85
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.87
7	400	150.00	568.2	Ladder Peak	77.78
8	500	150.00	454.5	Ladder Peak	83.41
9	600	150.00	378.8	Ladder Peak	88.25
10	700	150.00	324.7	Ladder Peak	91.24
11	1,000	150.00	227.3	Ladder Peak	95.31
12	2,000	150.00	113.6	Ladder Peak	101.32
13	3,000	150.00	75.8	Ladder Peak	104.26
14	7,000	150.00	32.5	Ladder Peak	109.41
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GM LIB 10 H3K27AC-A

Number of peaks found: 10 Corr. Area 1: 1,546.7
 Noise: 0.3

Peak table for sample 1 : GM LIB 10 H3K27AC-A

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	388	3.36	13.1		76.87
3	502	313.87	947.3		83.51
4	520	57.95	168.8		84.39
5	528	50.22	144.0		84.79
6	546	53.35	148.1		85.63
7	579	66.34	173.7		87.22
8	597	194.11	492.7		88.10
9	974	5.11	7.9		94.96
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,962	0.00	0.0		114.68
12	12,711	0.00	0.0		115.48

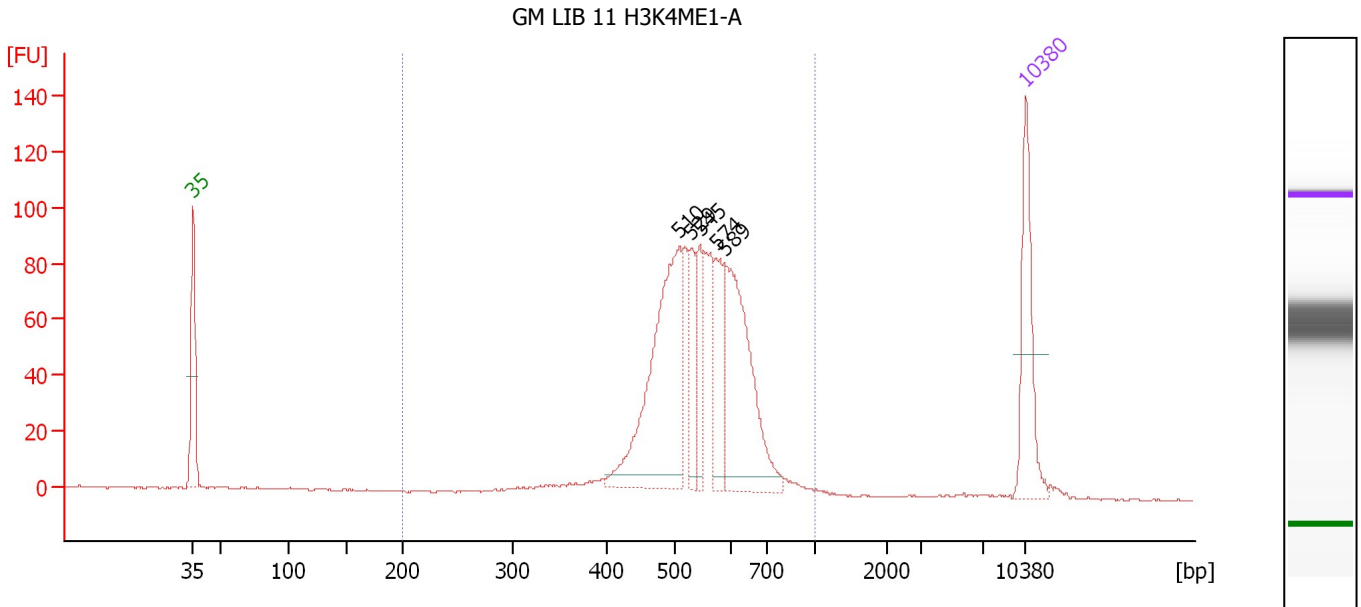
Region table for sample 1 : GM LIB 10 H3K27AC-A

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	910.46	1,546.7	2,588.1	97	16.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GM LIB 11 H3K4ME1-A

Number of peaks found: 5 Corr. Area 1: 998.5
 Noise: 0.2

Peak table for sample 2 : GM LIB 11 H3K4ME1-A

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	510	270.25	802.7		83.90
3	529	54.82	157.1		84.79
4	545	49.69	138.1		85.60
5	574	66.59	175.8		86.99
6	589	193.19	497.2		87.71
7	10,380	75.00	10.9	Upper Marker	113.00

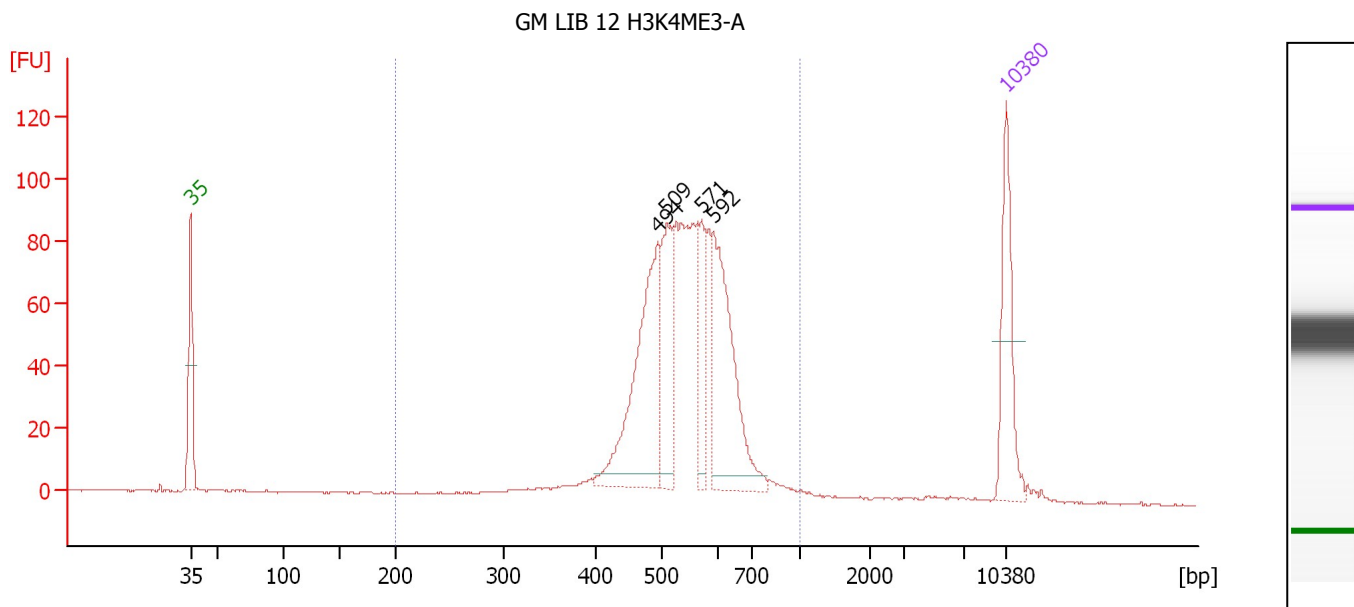
Region table for sample 2 : GM LIB 11 H3K4ME1-A

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	548	817.58	998.5	2,328.7	98	15.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : GM LIB 12 H3K4ME3-A

Number of peaks found: 4 Corr. Area 1: 1,010.2
Noise: 0.2

Peak table for sample 3 : GM LIB 12 H3K4ME3-A

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	494	219.90	674.3		83.08
3	509	104.97	312.3		83.86
4	571	57.25	152.0		86.83
5	592	180.07	460.6		87.88
6	10,380	75.00	10.9	Upper Marker	113.00

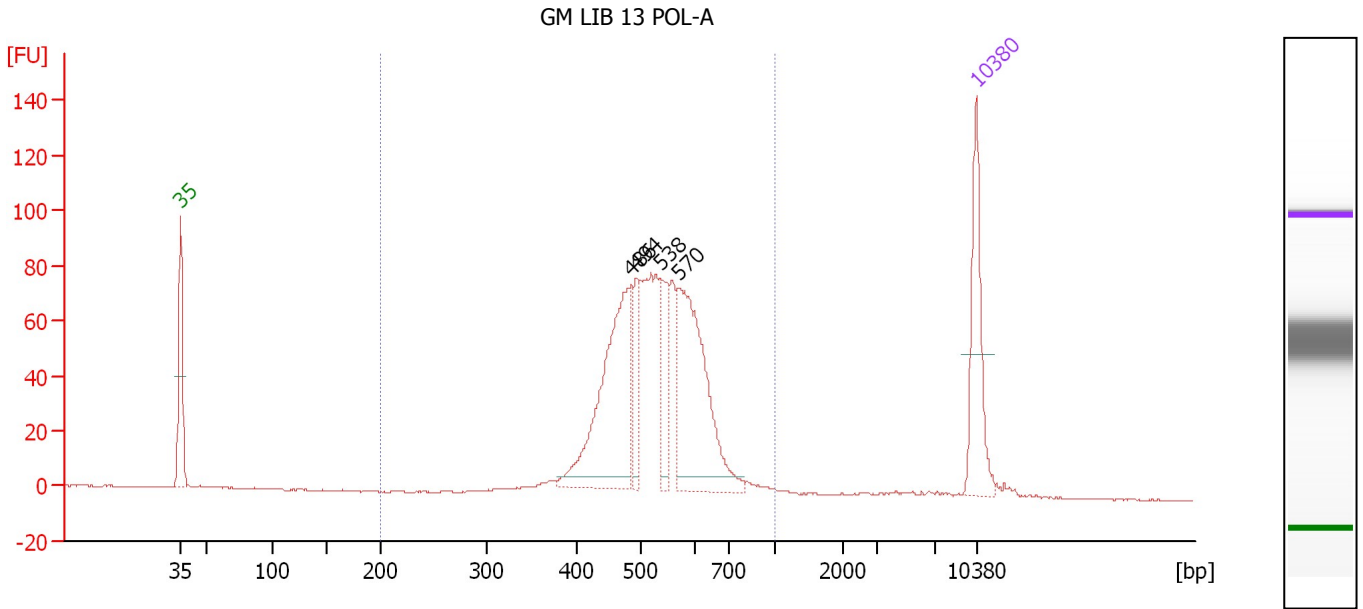
Region table for sample 3 : GM LIB 12 H3K4ME3-A

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	541	921.59	1,010.2	2,689.5	94	16.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : **GM LIB 13 POL-A**

Number of peaks found: 4 Corr. Area 1: 950.2
Noise: 0.2

Peak table for sample 4 : **GM LIB 13 POL-A**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	486	232.32	723.6		82.64
3	494	49.02	150.4		83.07
4	538	63.83	179.9		85.23
5	570	212.60	564.7		86.82
6	10,380	75.00	10.9	Upper Marker	113.00

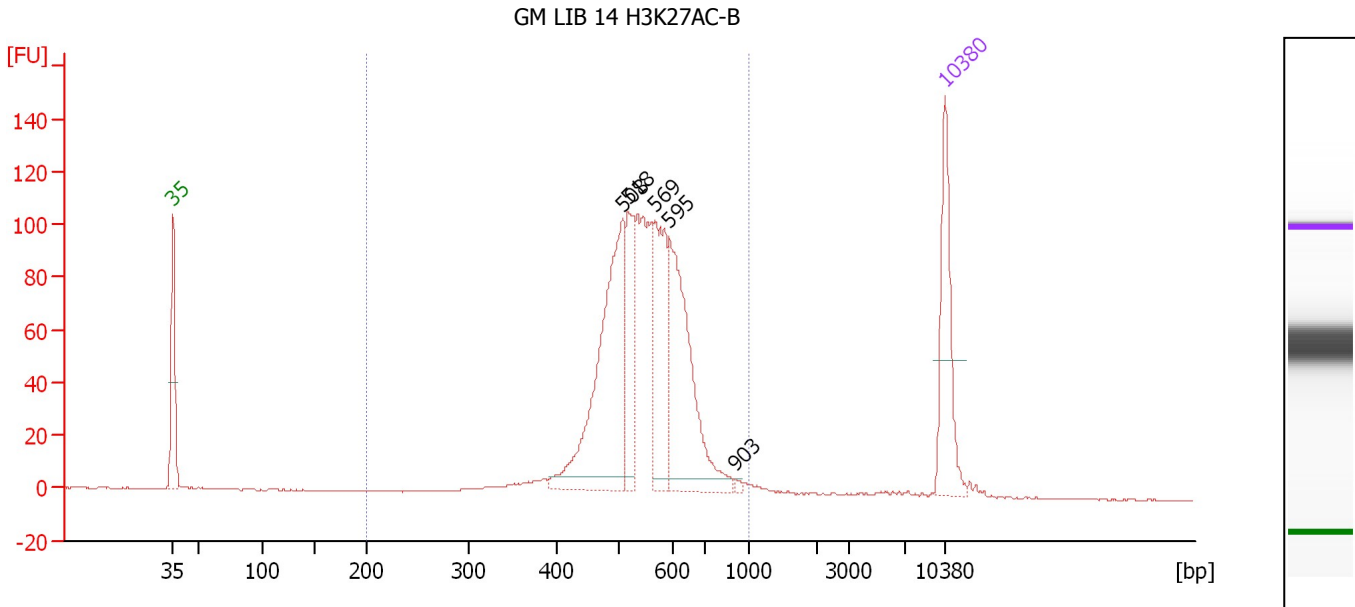
Region table for sample 4 : **GM LIB 13 POL-A**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	531	785.99	950.2	2,305.5	97	15.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : GM LIB 14 H3K27AC-B

Number of peaks found: 5 Corr. Area 1: 1,142.9
 Noise: 0.2

Peak table for sample 5 : GM LIB 14 H3K27AC-B

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	508	254.29	758.9		83.78
3	518	81.96	239.9		84.26
4	569	107.64	286.8		86.73
5	595	182.89	466.1		87.99
6	903	2.67	4.5		93.99
7	10,380	75.00	10.9	Upper Marker	113.00

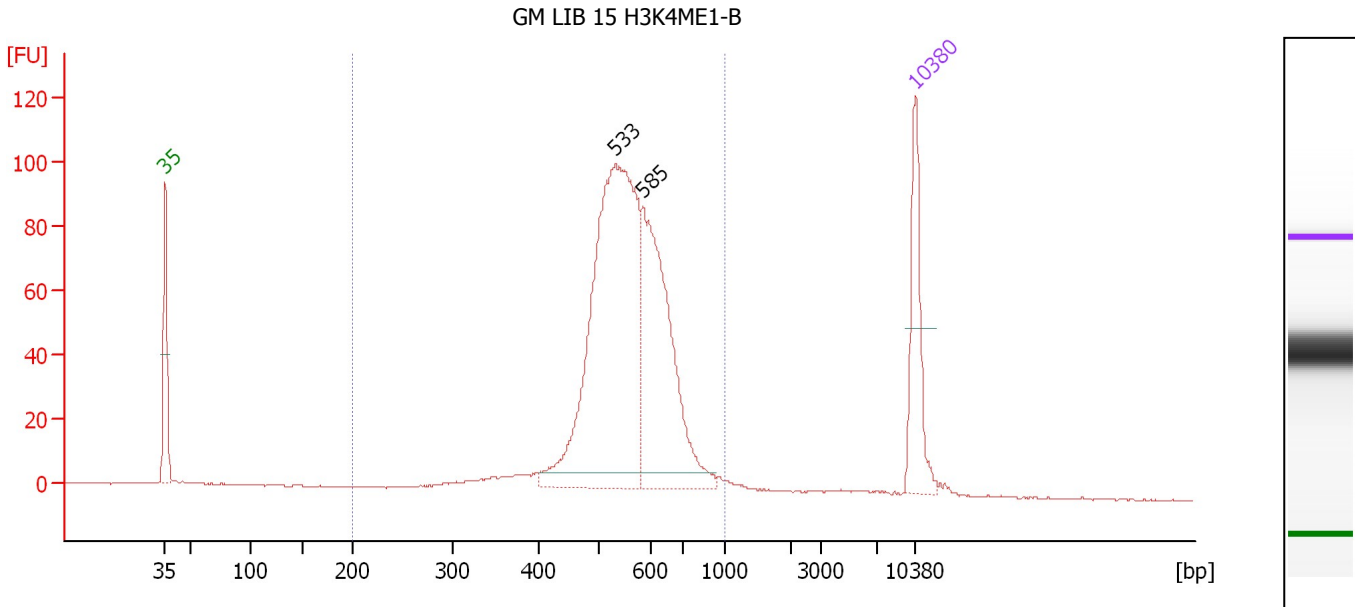
Region table for sample 5 : GM LIB 14 H3K27AC-B

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	551	830.04	1,142.9	2,358.0	97	15.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : GM LIB 15 H3K4ME1-B

Number of peaks found: 2 Corr. Area 1: 998.5
 Noise: 0.2

Peak table for sample 6 : GM LIB 15 H3K4ME1-B

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	533	542.42	1,542.9		84.99
3	585	269.08	696.9		87.53
4	10,380	75.00	10.9	Upper Marker	113.00

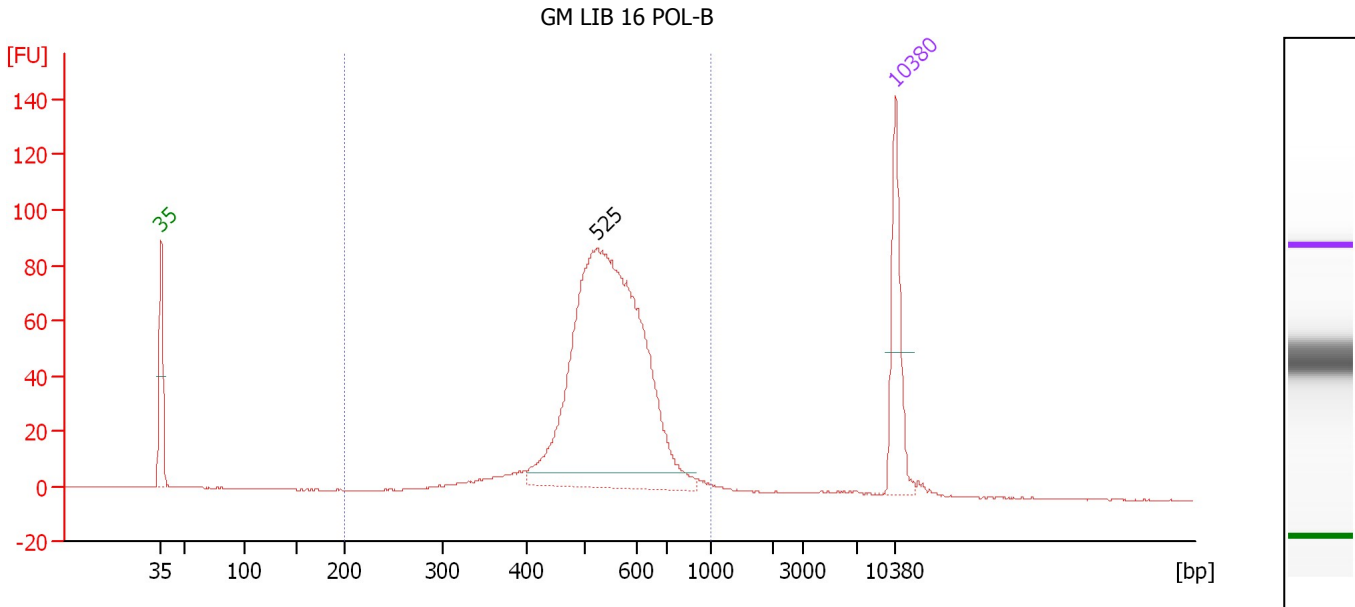
Region table for sample 6 : GM LIB 15 H3K4ME1-B

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	560	878.05	998.5	2,466.3	96	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GM LIB 16 POL-B

Number of peaks found: 1 Corr. Area 1: 931.2
 Noise: 0.2

Peak table for sample 7 : GM LIB 16 POL-B

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	525	688.06	1,987.0		84.60
3	10,380	75.00	10.9	Upper Marker	113.00

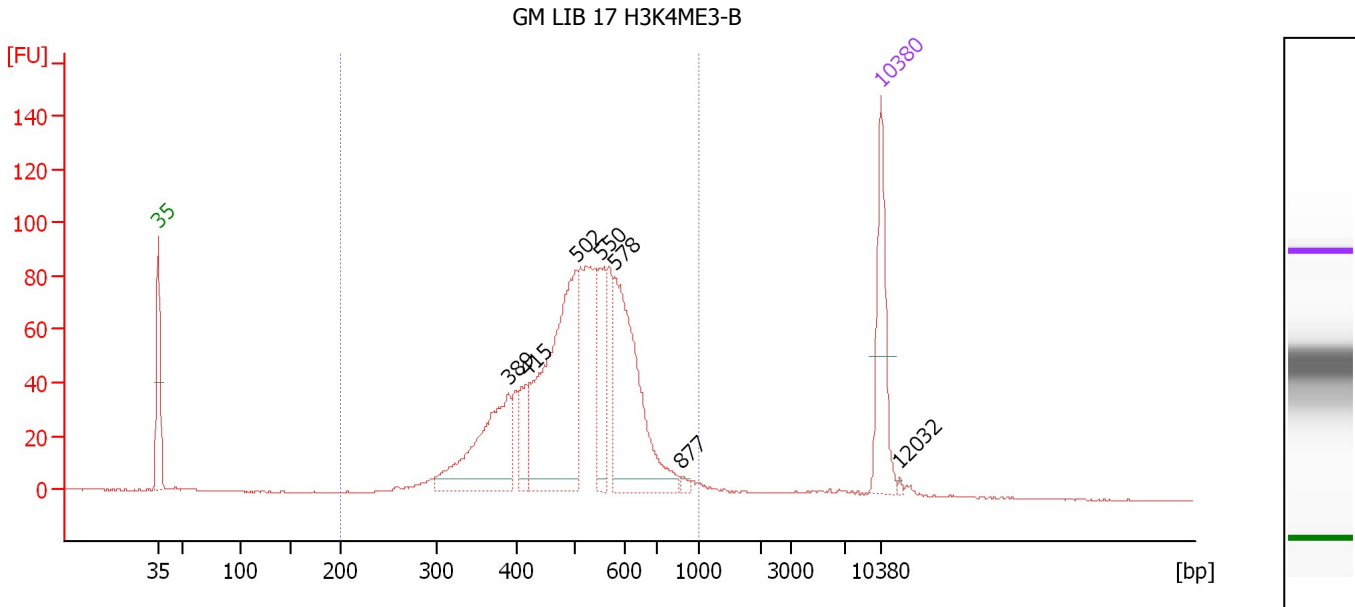
Region table for sample 7 : GM LIB 16 POL-B

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	547	759.10	931.2	2,193.2	96	17.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GM LIB 17 H3K4ME3-B

Number of peaks found: 7 Corr. Area 1: 1,278.8
 Noise: 0.2

Peak table for sample 8 : GM LIB 17 H3K4ME3-B

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	154.99	603.6		76.92
3	415	42.85	156.5		78.62
4	502	273.57	825.0		83.52
5	550	63.66	175.3		85.85
6	578	199.41	522.7		87.19
7	877	3.87	6.7		93.64
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,032	0.00	0.0		114.76

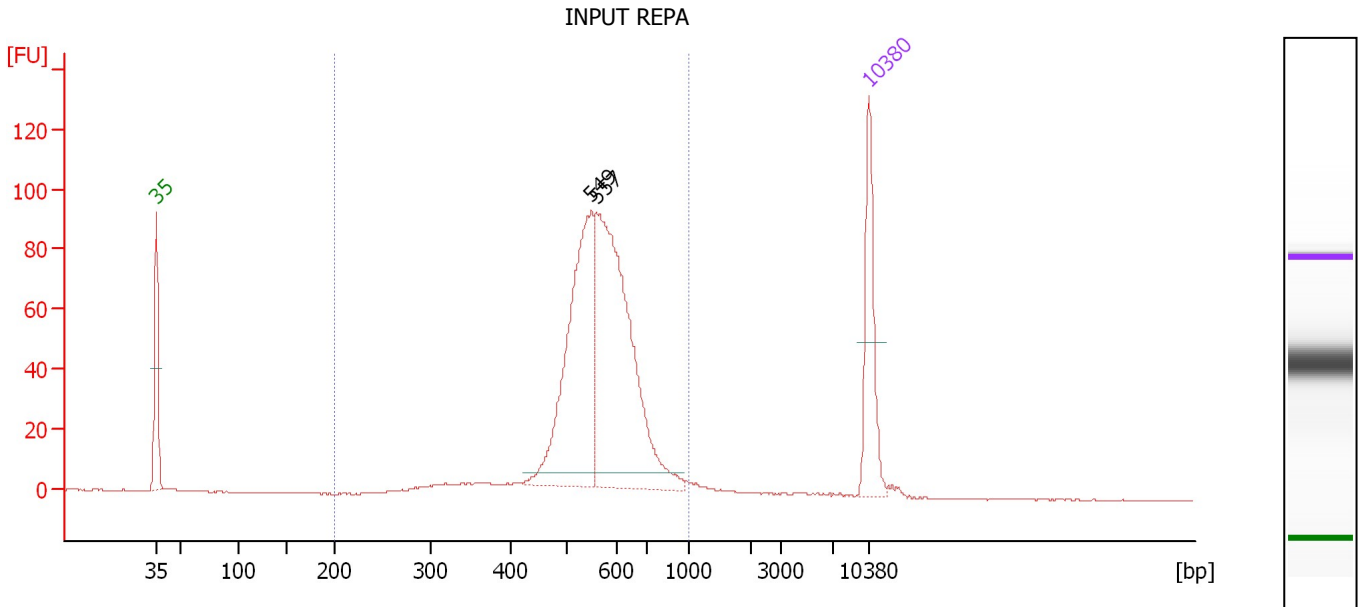
Region table for sample 8 : GM LIB 17 H3K4ME3-B

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	507	1,034.91	1,278.8	3,296.1	96	21.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : INPUT REPA

Number of peaks found: 2 Corr. Area 1: 835.4
 Noise: 0.2

Peak table for sample 9 : INPUT REPA

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	549	275.17	759.6		85.77
3	557	371.25	1,009.0		86.19
4	10,380	75.00	10.9	Upper Marker	113.00

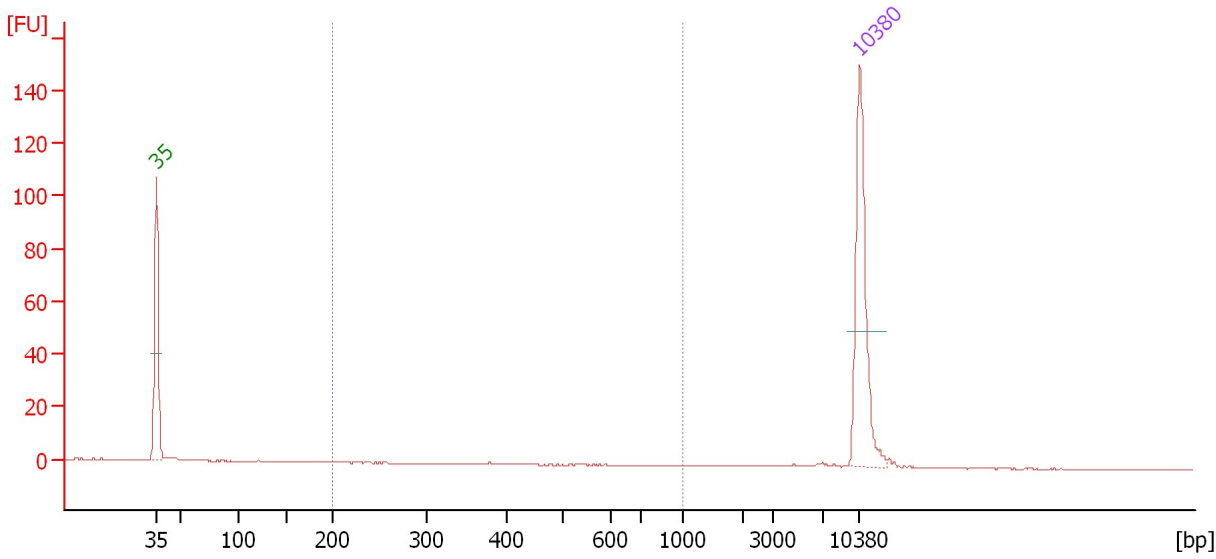
Region table for sample 9 : INPUT REPA

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	568	728.40	835.4	2,027.0	96	16.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 :

Number of peaks found: 0 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for 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	10,380	75.00	10.9	Upper Marker	113.00

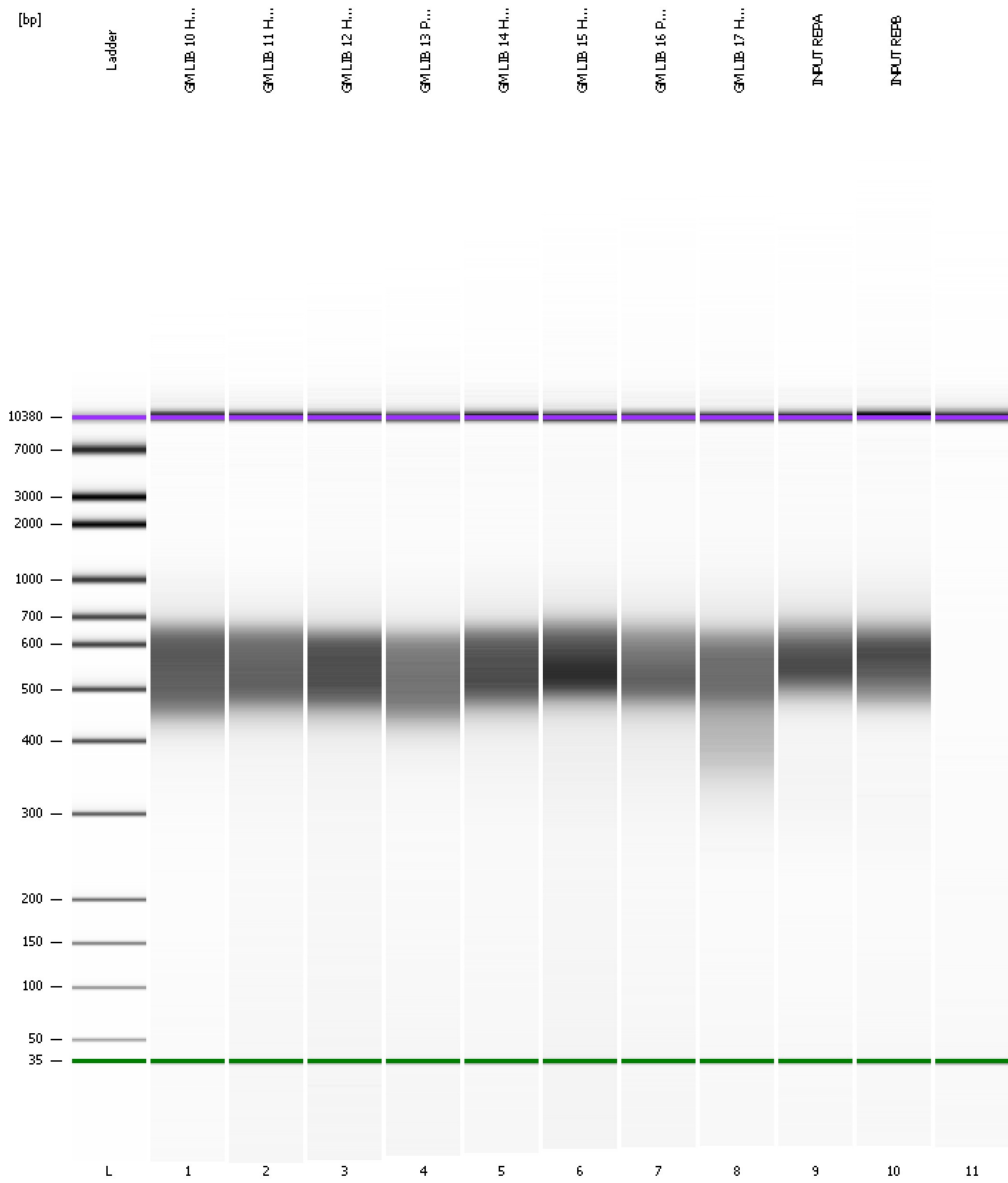
Region table for sample 11 :

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	379	0.07	0.1	0.3	1	0.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 PM

Gel Image

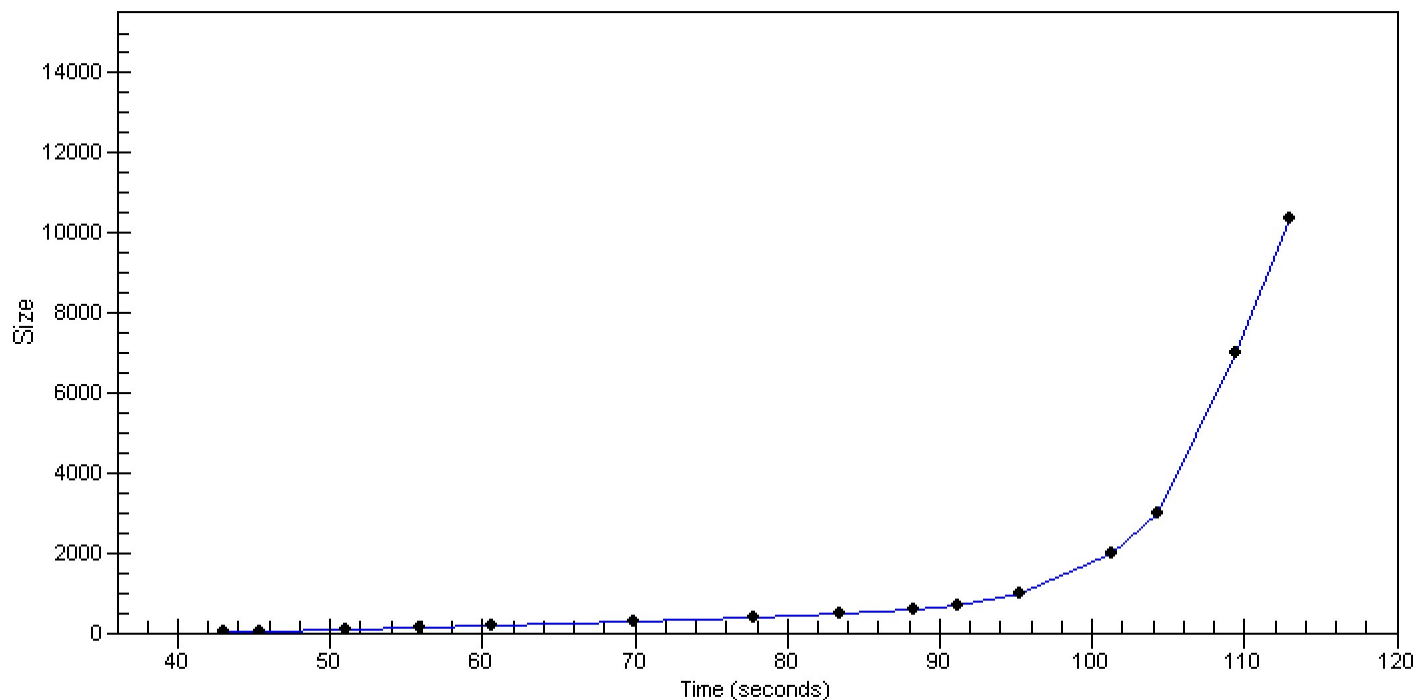


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
Modified: 6/4/2019 3:34:47 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad

Created: 6/4/2019 2:54:17 PM
 Modified: 6/4/2019 3:34:47 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		6/4/2019 3:34:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-06-04\2019-06-04_003.xad)		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/4/2019 2:54:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1