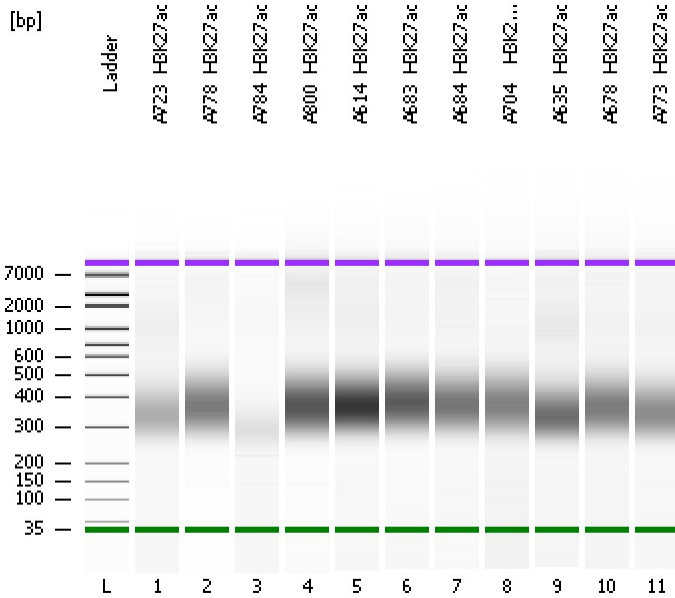


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
Modified: 11/7/2019 11:56:40 AM

Electrophoresis File Run Summary



Instrument Information:

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

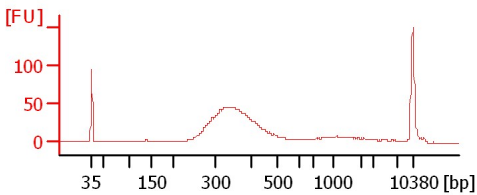
Assay Information:

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

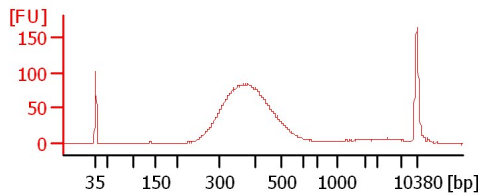
Chip Information:

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

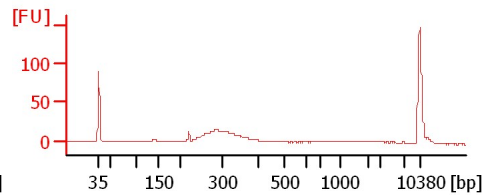
A723_H3K27ac



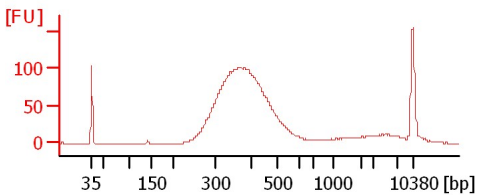
A778_H3K27ac



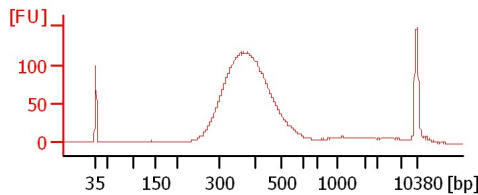
A784_H3K27ac



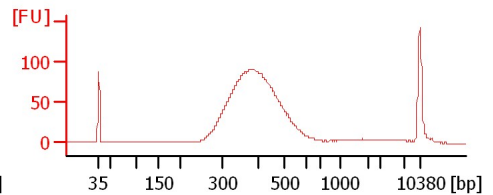
A800_H3K27ac



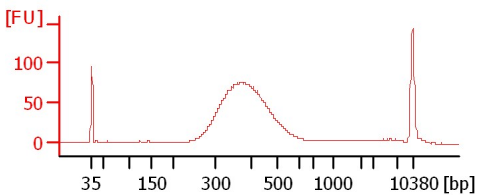
A614_H3K27ac



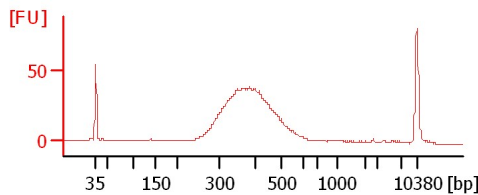
A683_H3K27ac



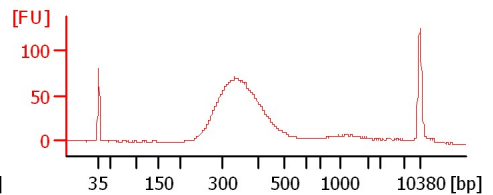
A684_H3K27ac



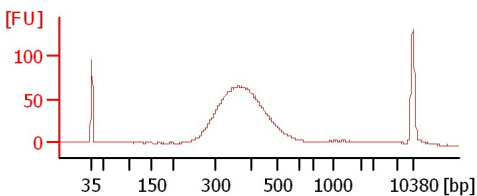
A704_H3K27ac



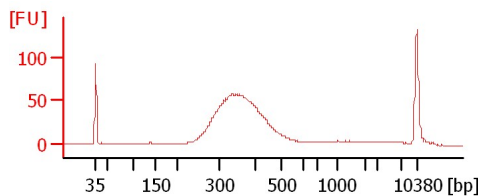
A635_H3K27ac



A678_H3K27ac



A773_H3K27ac



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A723_H3K27ac		<input type="checkbox"/>	✓			
A778_H3K27ac		<input type="checkbox"/>	✓			
A784_H3K27ac		<input type="checkbox"/>	✓			
A800_H3K27ac		<input type="checkbox"/>	✓			
A614_H3K27ac		<input type="checkbox"/>	✓			
A683_H3K27ac		<input type="checkbox"/>	✓			
A684_H3K27ac		<input type="checkbox"/>	✓			
A704_H3K27ac		<input type="checkbox"/>	✓			
A635_H3K27ac		<input type="checkbox"/>	✓			
A678_H3K27ac		<input type="checkbox"/>	✓			
A773_H3K27ac		<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\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
Modified: 11/7/2019 11:56:40 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

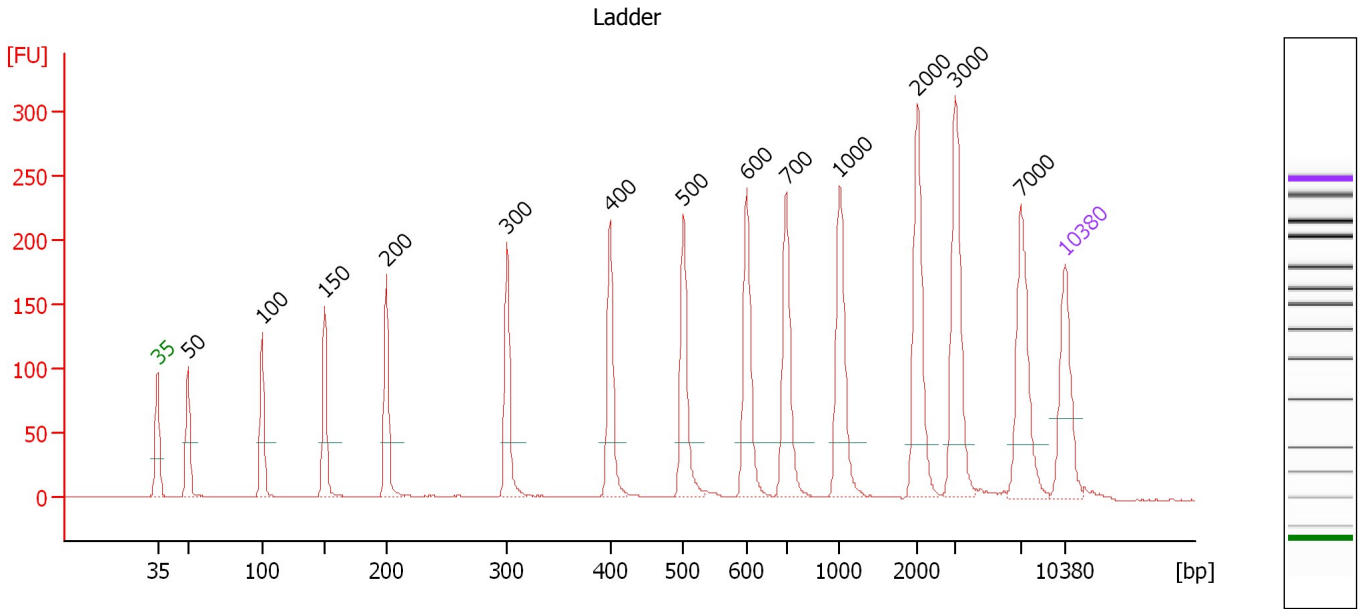
Ladder

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\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

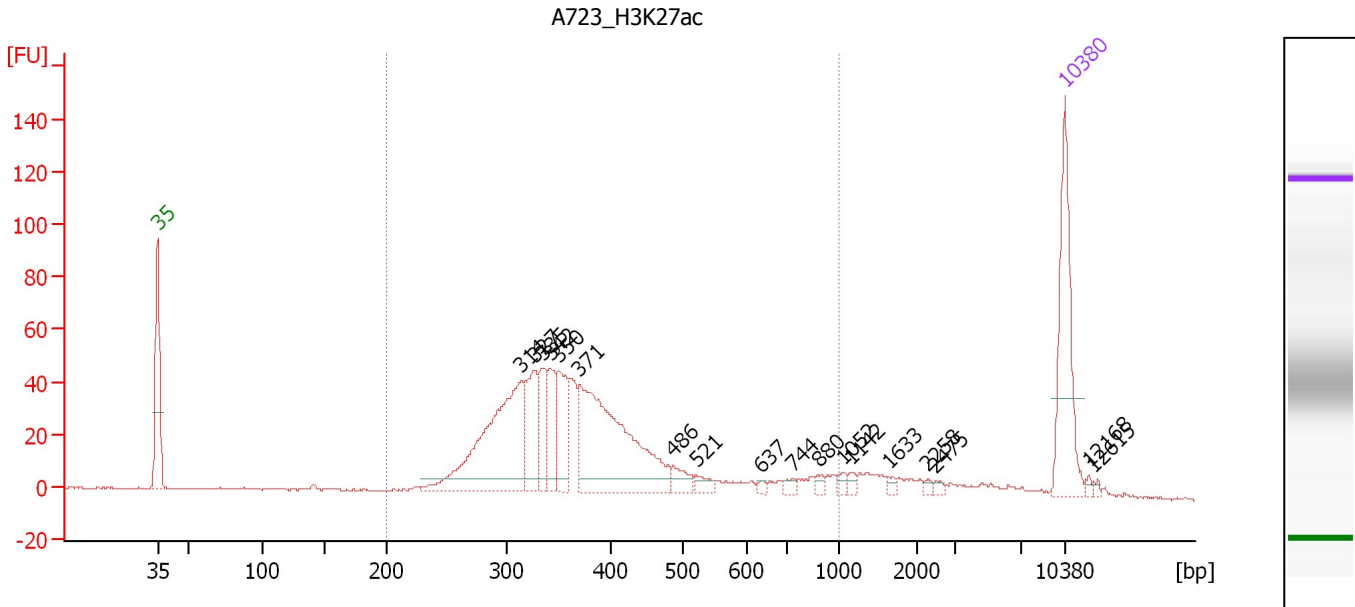
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.06
4	150	150.00	1,515.2	Ladder Peak	55.88
5	200	150.00	1,136.4	Ladder Peak	60.64
6	300	150.00	757.6	Ladder Peak	69.96
7	400	150.00	568.2	Ladder Peak	77.89
8	500	150.00	454.5	Ladder Peak	83.55
9	600	150.00	378.8	Ladder Peak	88.45
10	700	150.00	324.7	Ladder Peak	91.48
11	1,000	150.00	227.3	Ladder Peak	95.62
12	2,000	150.00	113.6	Ladder Peak	101.64
13	3,000	150.00	75.8	Ladder Peak	104.53
14	7,000	150.00	32.5	Ladder Peak	109.61
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A723 H3K27ac

Number of peaks found: 18 Corr. Area 1: 818.0
 Noise: 0.3

Peak table for sample 1 : A723 H3K27ac

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	314	191.98	925.9		71.08
3	327	58.66	272.1		72.07
4	335	39.33	177.9		72.74
5	342	41.08	181.8		73.32
6	350	51.13	221.2		73.95
7	371	201.93	825.5		75.56
8	486	14.38	44.8		82.77
9	521	8.72	25.4		84.56
10	637	3.15	7.5		89.58
11	744	4.69	9.6		92.09
12	880	4.71	8.1		93.97
13	1,052	4.12	5.9		95.94
14	1,142	4.17	5.5		96.47
15	1,633	3.51	3.3		99.43
16	2,258	2.33	1.6		102.39
17	2,475	2.51	1.5		103.01
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,168	0.00	0.0		114.79
20	12,615	0.00	0.0		115.24

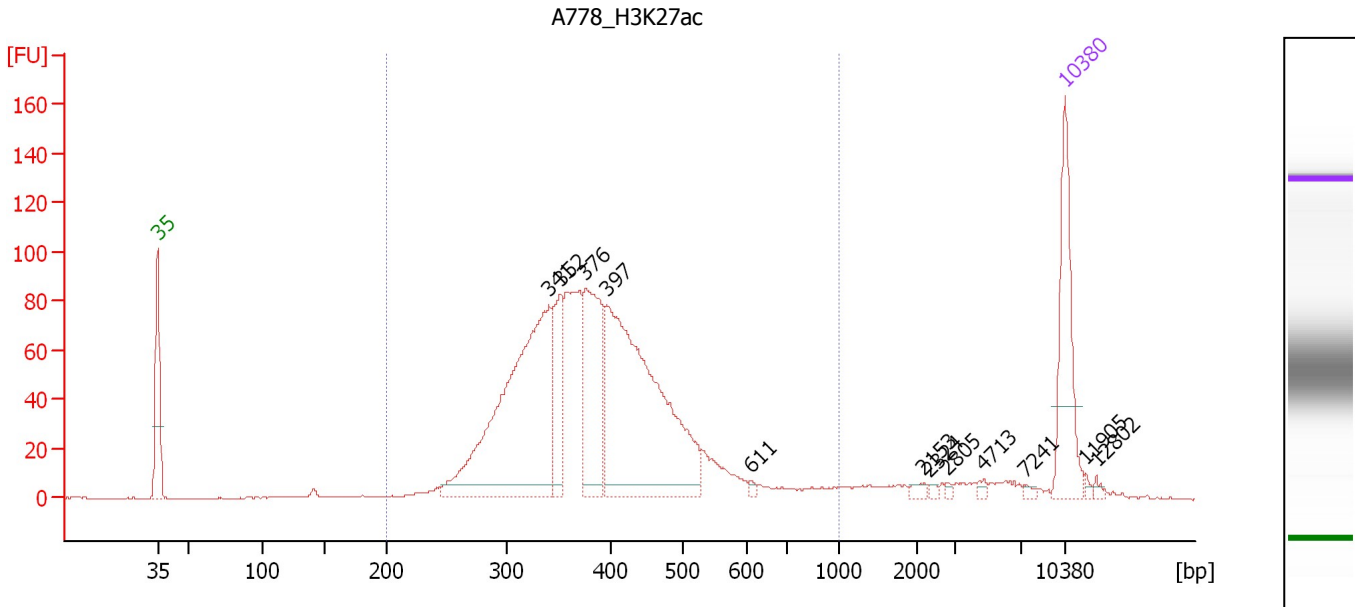
Region table for sample 1 : A723 H3K27ac

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	393	700.68	818.0	2,981.7	89	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A778 H3K27ac

Number of peaks found: 12 Corr. Area 1: 1,538.5
 Noise: 0.3

Peak table for sample 2 : A778 H3K27ac

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	341	360.86	1,604.4		73.19
3	352	70.05	301.9		74.05
4	376	136.15	547.9		76.02
5	397	351.73	1,340.9		77.69
6	611	2.99	7.4		88.78
7	2,153	3.91	2.8		102.08
8	2,324	2.34	1.5		102.58
9	2,805	1.83	1.0		103.97
10	4,713	3.10	1.0		106.71
11	7,241	2.48	0.5		109.85
12	10,380	75.00	10.9	Upper Marker	113.00
13	11,905	0.00	0.0		114.53
14	12,802	0.00	0.0		115.43

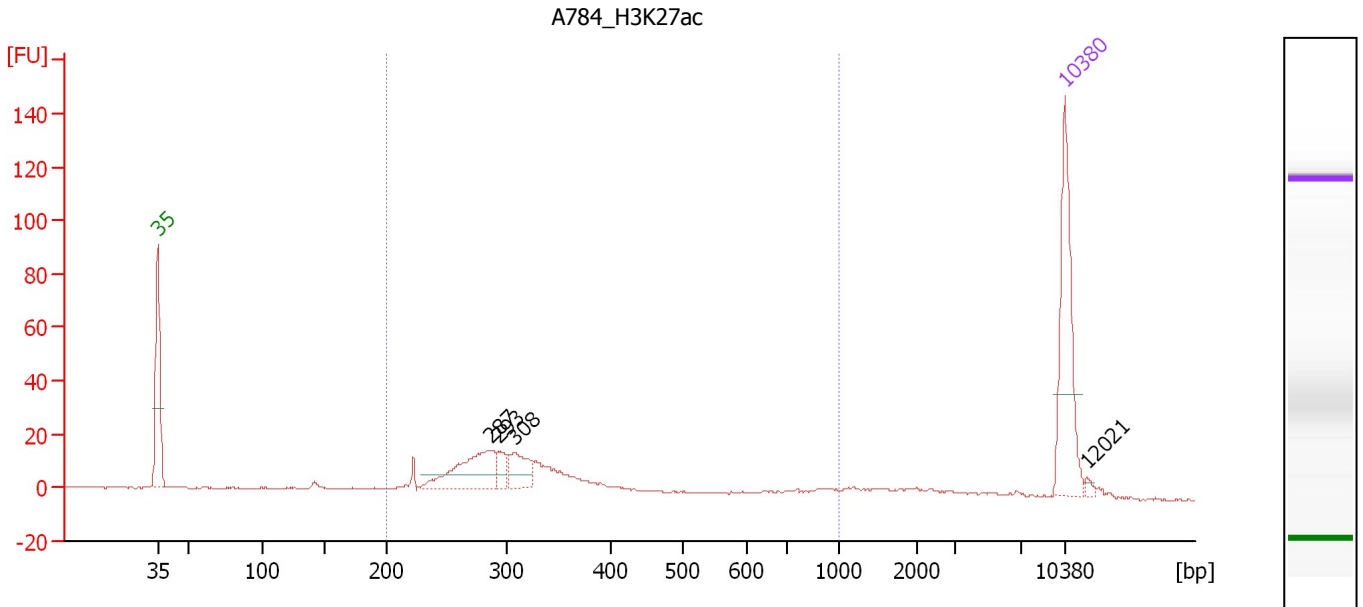
Region table for sample 2 : A778 H3K27ac

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	395	1,168.53	1,538.5	4,778.8	92	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A784_H3K27ac

Number of peaks found: 4 Corr. Area 1: 233.0
 Noise: 0.3

Peak table for sample 3 : A784_H3K27ac

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	287	69.47	367.3		68.71
3	293	15.52	80.2		69.30
4	308	30.09	147.8		70.63
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,021	0.00	0.0		114.64

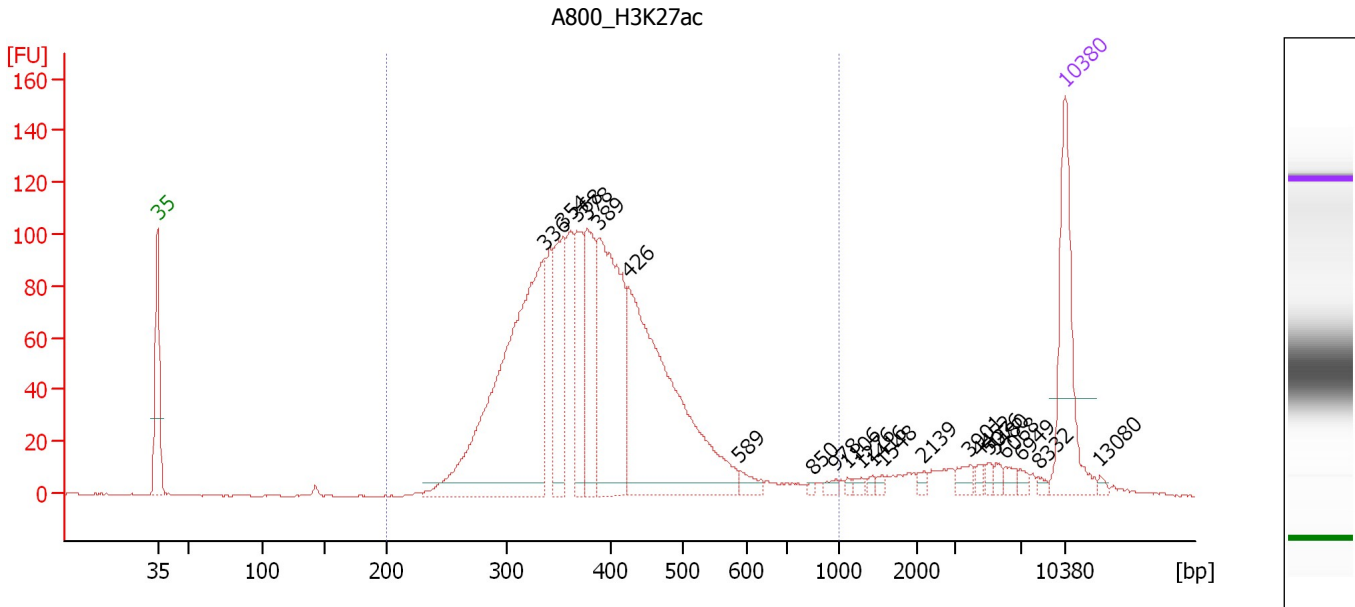
Region table for sample 3 : A784_H3K27ac

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	345	215.15	233.0	1,060.2	77	40.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A800 H3K27ac

Number of peaks found: 22 Corr. Area 1: 1,850.2
 Noise: 0.3

Peak table for sample 4 : A800 H3K27ac

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	336	378.25	1,703.5		72.85
3	354	92.62	396.3		74.25
4	368	69.64	287.1		75.32
5	378	85.68	343.3		76.16
6	389	198.45	772.2		77.04
7	426	301.64	1,072.1		79.38
8	589	10.34	26.6		87.91
9	850	2.38	4.2		93.55
10	978	4.08	6.3		95.33
11	1,106	2.34	3.2		96.26
12	1,276	3.42	4.1		97.28
13	1,416	3.01	3.2		98.12
14	1,548	3.07	3.0		98.92
15	2,139	3.63	2.6		102.04
16	3,901	7.67	3.0		105.68
17	4,452	3.83	1.3		106.38
18	5,076	4.20	1.3		107.17
19	5,480	4.35	1.2		107.68
20	6,068	5.35	1.3		108.43
21	6,949	4.03	0.9		109.55
22	8,332	2.66	0.5		110.95
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,080	0.00	0.0		115.70

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...

... Region table for sample 4 :

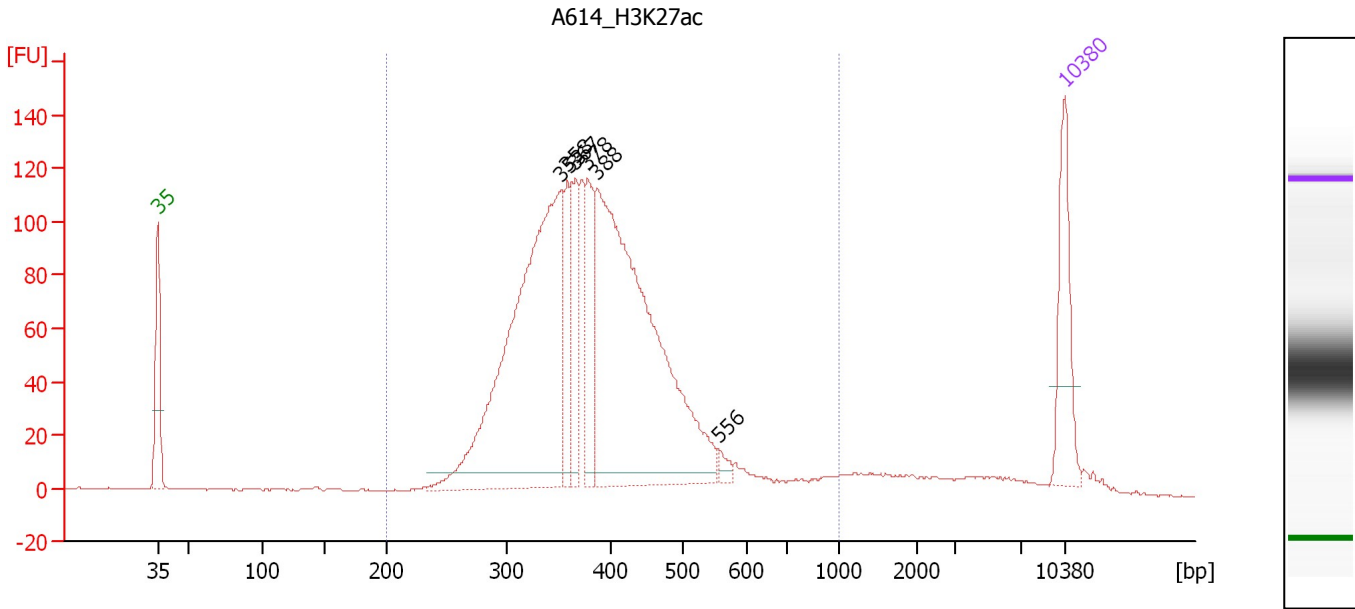
A800_H3K27ac

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	396	1,324.66	1,850.2	5,405.1	 91	24.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A614 H3K27ac

Number of peaks found: 6 Corr. Area 1: 1,990.9
 Noise: 0.3

Peak table for sample 5 : A614 H3K27ac

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	353	590.53	2,534.9		74.16
3	358	81.83	346.0		74.59
4	367	81.20	335.4		75.26
5	378	90.41	362.2		76.16
6	388	620.64	2,424.4		76.93
7	556	9.77	26.6		86.28
8	10,380	75.00	10.9	Upper Marker	113.00

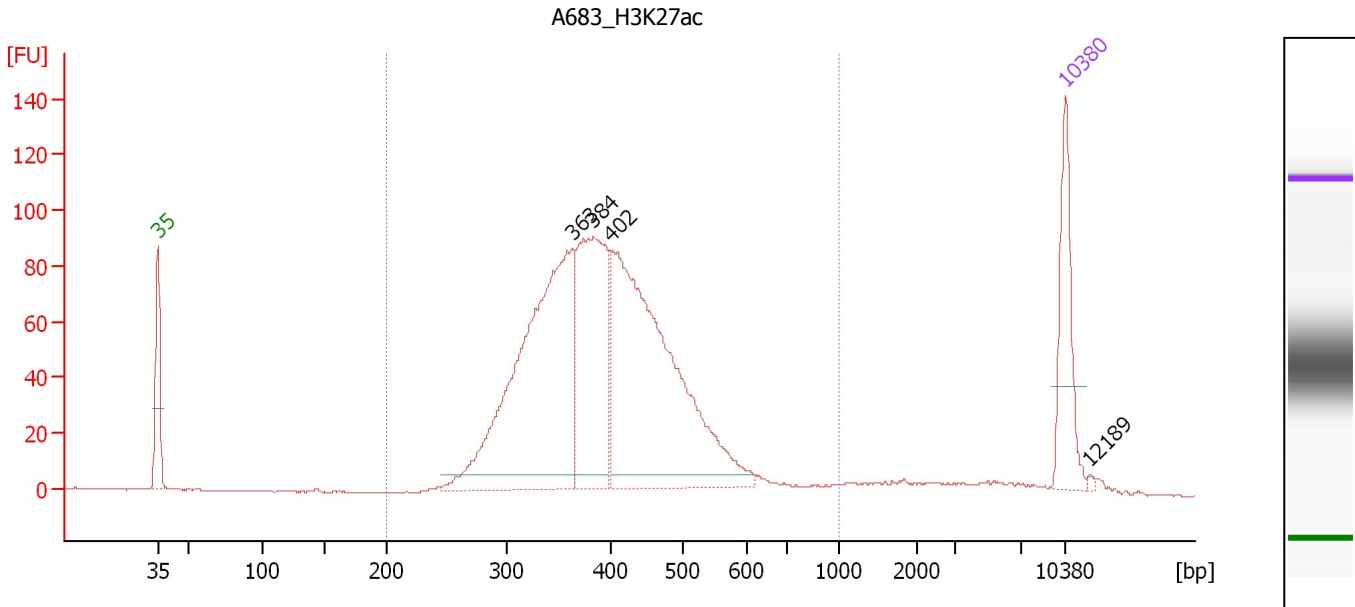
Region table for sample 5 : A614 H3K27ac

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	397	1,670.01	1,990.9	6,777.8	92	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A683_H3K27ac

Number of peaks found: 4 Corr. Area 1: 1,574.1
 Noise: 0.2

Peak table for sample 6 : A683_H3K27ac

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	363	492.99	2,055.3		74.99
3	384	261.51	1,032.4		76.60
4	402	495.84	1,871.0		77.98
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,189	0.00	0.0		114.81

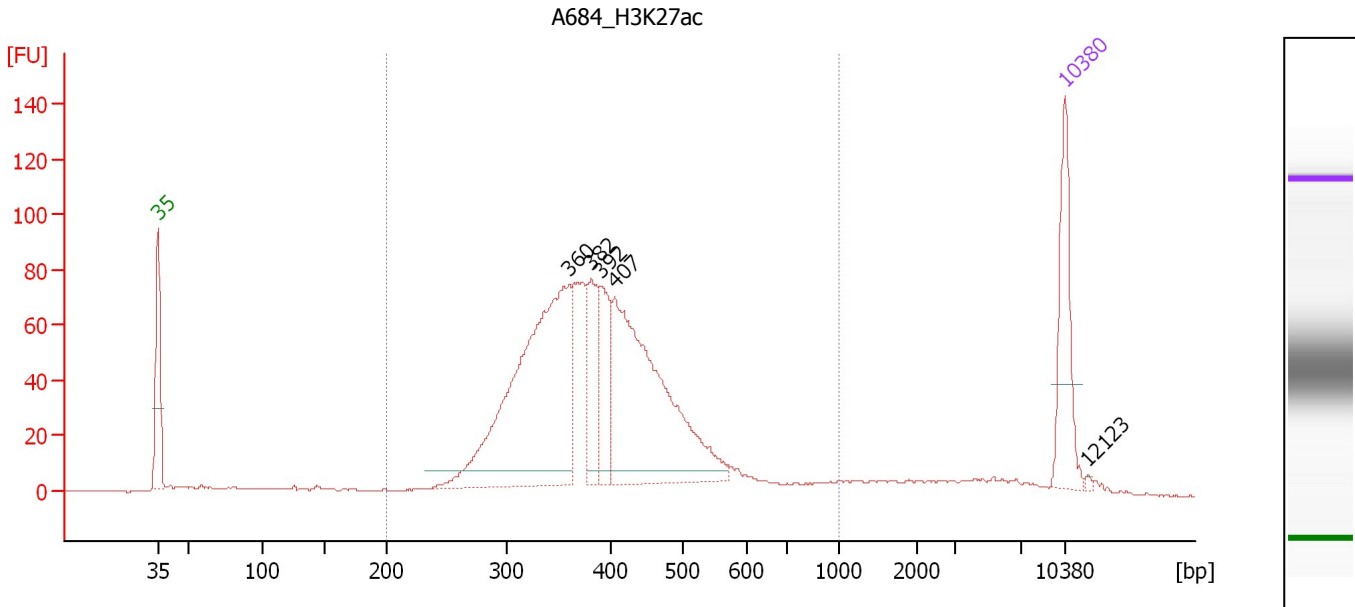
Region table for sample 6 : A683_H3K27ac

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	406	1,332.86	1,574.1	5,258.9	94	22.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : A684 H3K27ac

Number of peaks found: 5 Corr. Area 1: 1,343.7
 Noise: 0.2

Peak table for sample 7 : A684 H3K27ac

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	444.91	1,871.5		74.73
3	382	68.86	273.0		76.48
4	392	76.50	295.9		77.23
5	407	340.06	1,266.5		78.27
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,123	0.00	0.0		114.75

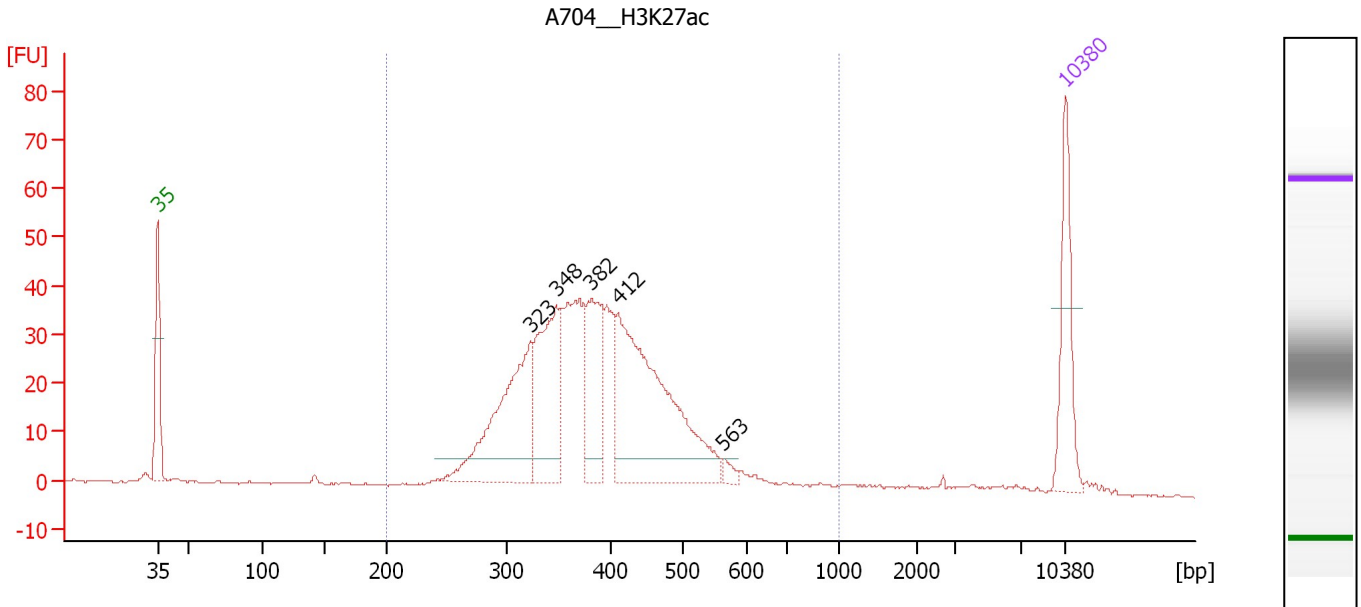
Region table for sample 7 : A684 H3K27ac

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	402	1,214.22	1,343.7	4,886.5	89	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : A704 H3K27ac

Number of peaks found: 5 Corr. Area 1: 674.1
 Noise: 0.2

Peak table for sample 8 : A704 H3K27ac

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	323	224.55	1,053.4		71.78
3	348	165.04	718.9		73.75
4	382	122.93	487.2		76.48
5	412	331.93	1,221.3		78.56
6	563	8.68	23.4		86.65
7	10,380	75.00	10.9	Upper Marker	113.00

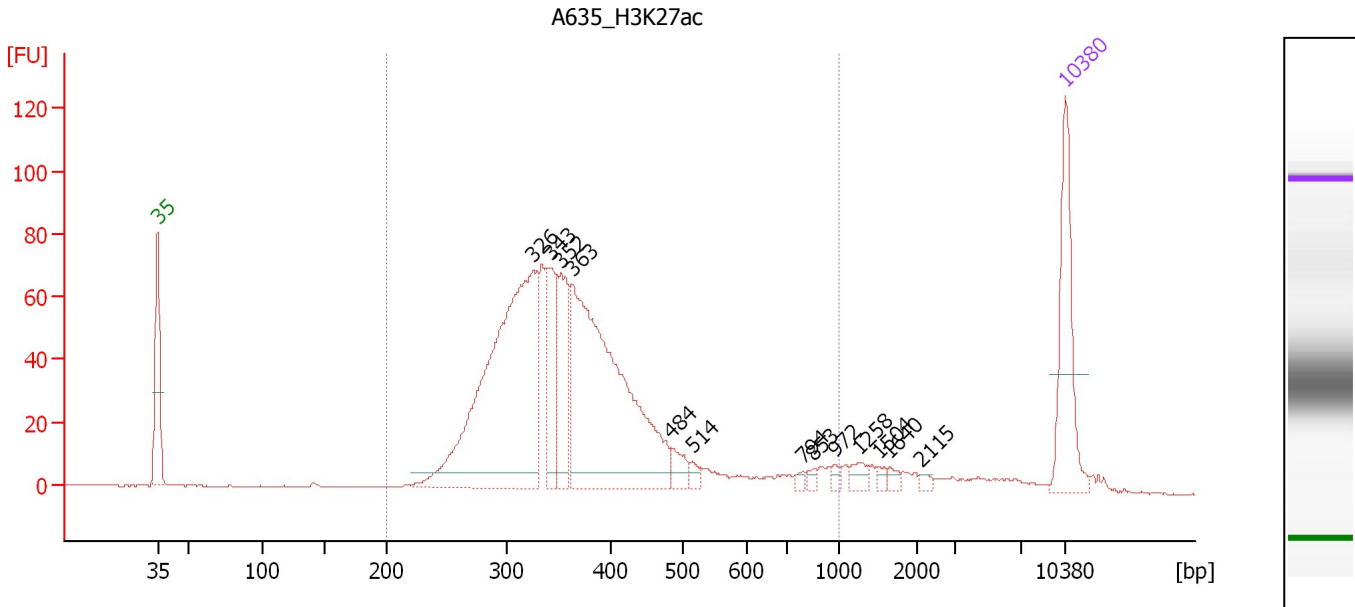
Region table for sample 8 : A704 H3K27ac

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	396	1,178.58	674.1	4,764.2	95	22.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : A635 H3K27ac

Number of peaks found: 13 Corr. Area 1: 1,179.3
 Noise: 0.3

Peak table for sample 9 : A635 H3K27ac

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	326	431.48	2,006.9		72.00
3	343	81.72	361.5		73.33
4	352	81.69	352.1		74.04
5	363	378.21	1,578.2		74.96
6	484	18.07	56.6		82.62
7	514	7.02	20.7		84.25
8	794	4.28	8.2		92.78
9	853	4.67	8.3		93.60
10	972	4.64	7.2		95.23
11	1,258	9.25	11.1		97.17
12	1,504	4.21	4.2		98.65
13	1,640	4.70	4.3		99.47
14	2,115	3.78	2.7		101.97
15	10,380	75.00	10.9	Upper Marker	113.00

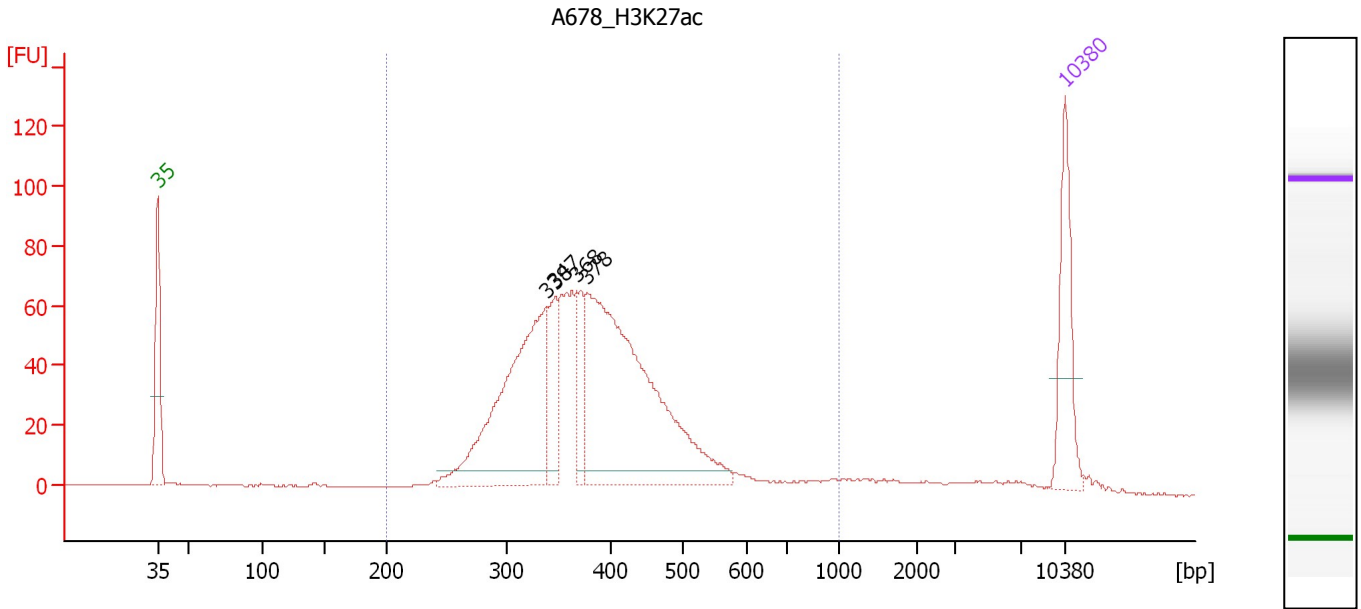
Region table for sample 9 : A635 H3K27ac

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	380	1,151.21	1,179.3	4,988.8	90	31.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : A678_H3K27ac

Number of peaks found: 4 Corr. Area 1: 1,143.1
 Noise: 0.2

Peak table for sample 10 : A678_H3K27ac

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	338	320.79	1,439.2		72.95
3	347	68.50	299.3		73.67
4	368	55.53	228.6		75.36
5	378	455.66	1,824.2		76.18
6	10,380	75.00	10.9	Upper Marker	113.00

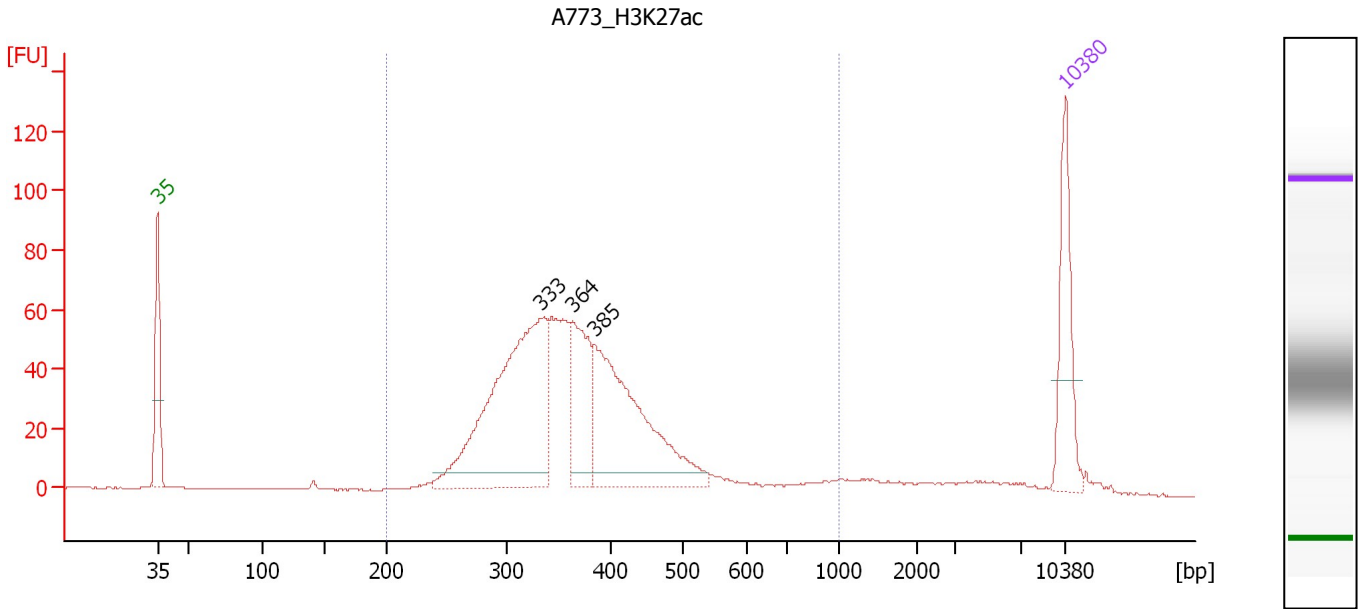
Region table for sample 10 : A678_H3K27ac

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	394	1,110.18	1,143.1	4,556.3	92	25.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
Modified: 11/7/2019 11:56:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : A773_H3K27ac

Number of peaks found: 3 Corr. Area 1: 995.0
Noise: 0.2

Peak table for sample 11 : A773_H3K27ac

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	333	374.81	1,707.0		72.55
3	364	114.51	476.7		75.03
4	385	252.99	996.2		76.68
5	10,380	75.00	10.9	Upper Marker	113.00

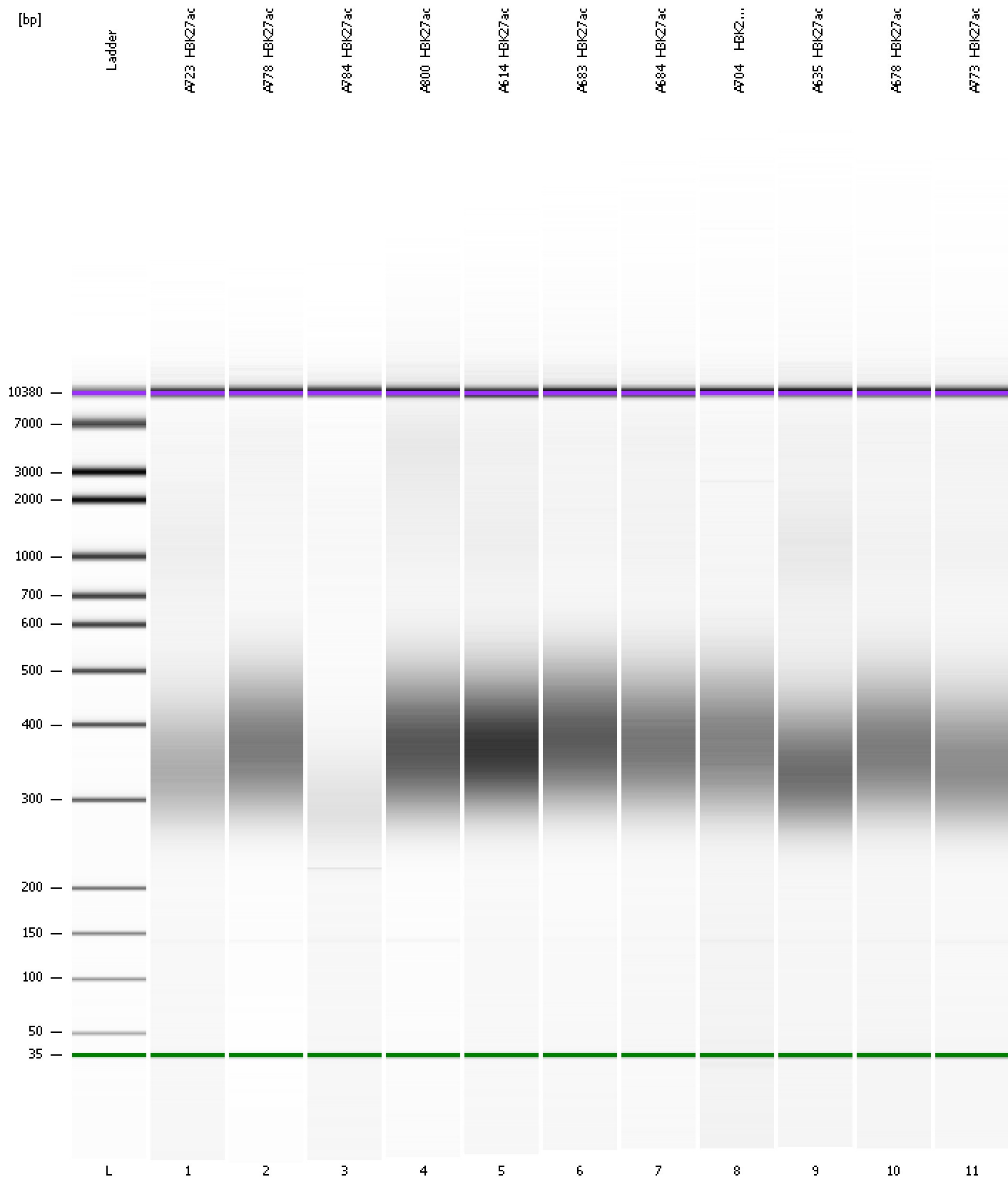
Region table for sample 11 : A773_H3K27ac

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	379	966.76	995.0	4,142.4	92	27.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
Modified: 11/7/2019 11:56:40 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad

Created: 11/7/2019 11:15:23 AM
 Modified: 11/7/2019 11:56:40 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		11/7/2019 11:56:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_002.xad)		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/7/2019 11:15:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1