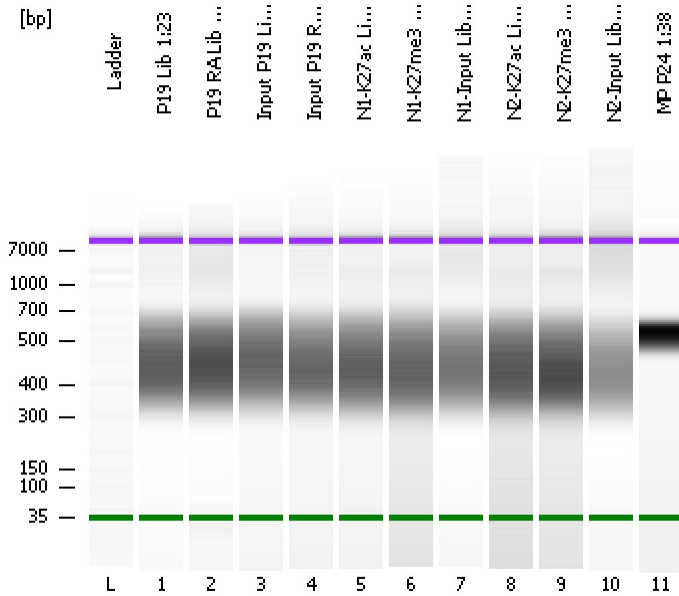


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
Modified: 2/5/2014 9:38:39 AM

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

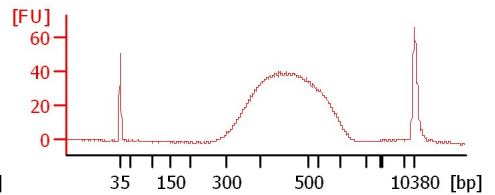
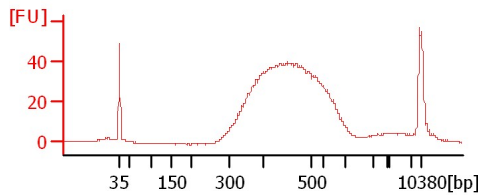
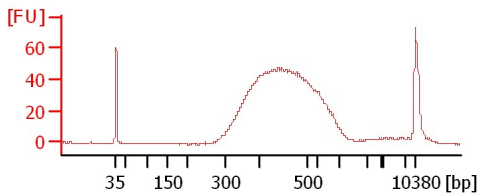
Chip Information:

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

P19 Lib 1:23

P19 RA Lib 1:24

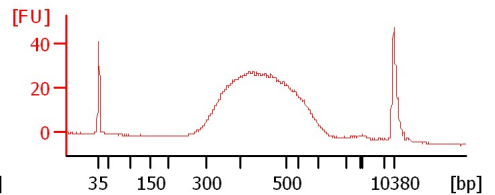
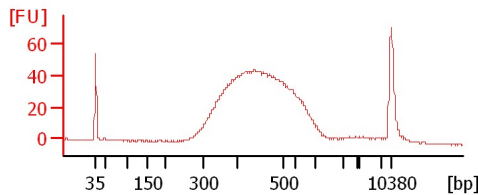
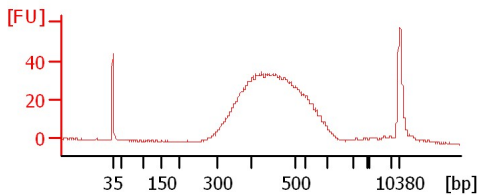
Input P19 Lib 1:20



Input P19 RA Lib 1:20

N1-K27ac Lib 1:25

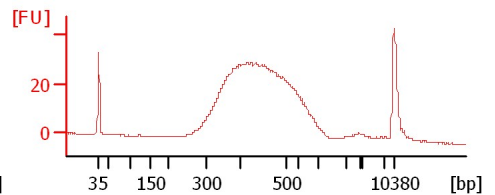
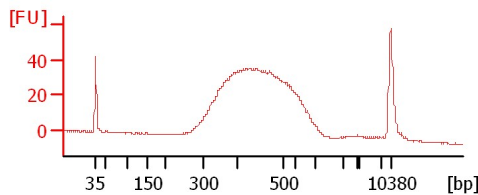
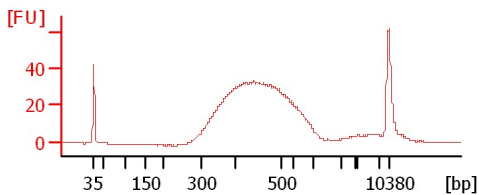
N1-K27me3 Lib 1:16



N1-Input Lib 1:27

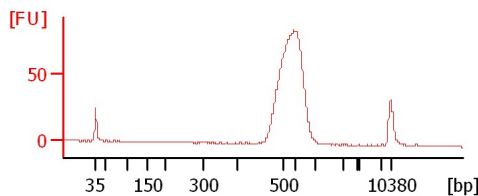
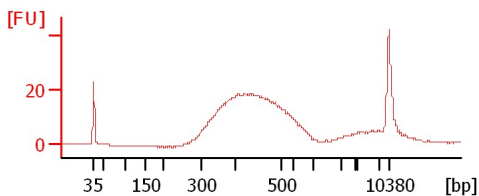
N2-K27ac Lib 1:18

N2-K27me3 Lib 1:16



N2-Input Lib 1:27

MP P24 1:38



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
Modified: 2/5/2014 9:38:39 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P19 Lib 1:23		<input type="checkbox"/>	✓			
P19 RA Lib 1:24		<input type="checkbox"/>	✓			
Input P19 Lib 1:20		<input type="checkbox"/>	✓			
Input P19 RA Lib 1:20		<input type="checkbox"/>	✓			
N1-K27ac Lib 1:25		<input type="checkbox"/>	✓			
N1-K27me3 Lib 1:16		<input type="checkbox"/>	✓			
N1-Input Lib 1:27		<input type="checkbox"/>	✓			
N2-K27ac Lib 1:18		<input type="checkbox"/>	✓			
N2-K27me3 Lib 1:16		<input type="checkbox"/>	✓			
N2-Input Lib 1:27		<input type="checkbox"/>	✓			
MP P24 1:38		<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\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
Modified: 2/5/2014 9:38:39 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

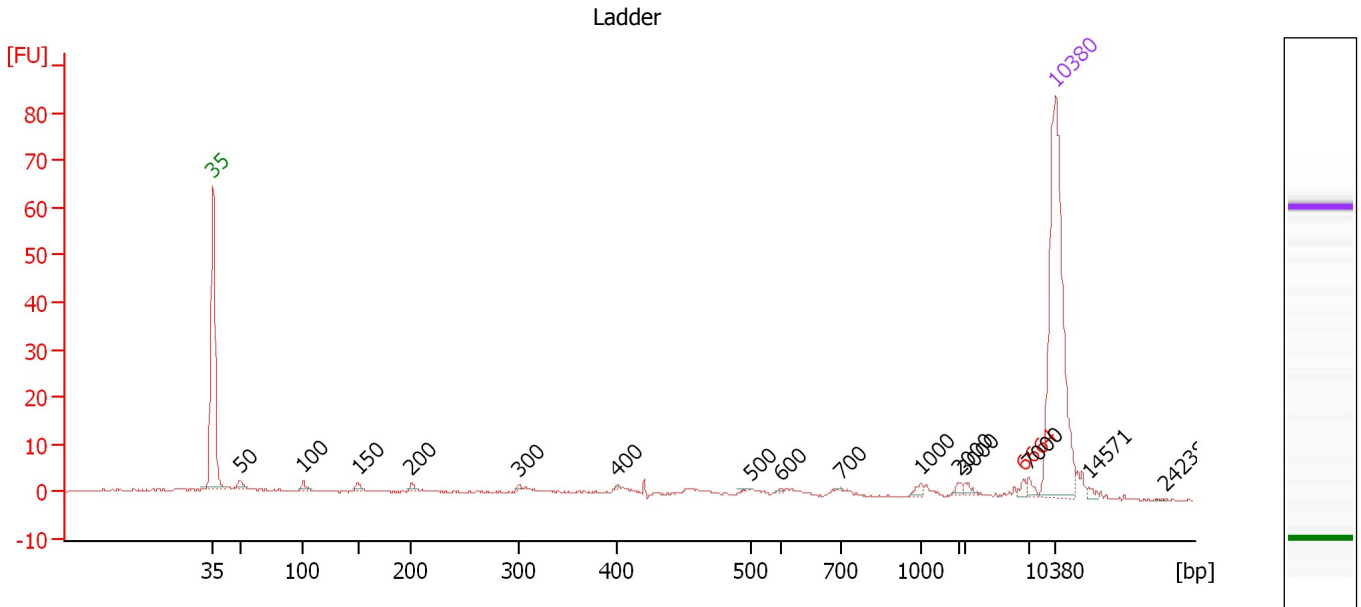
Ladder

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:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

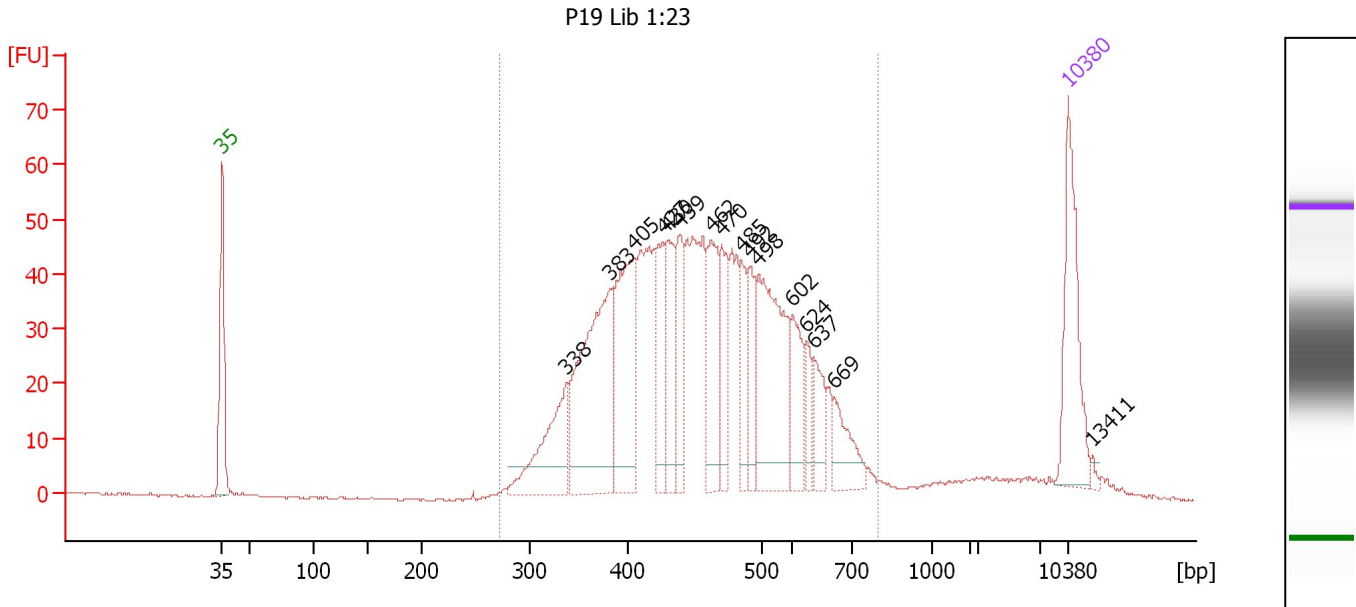
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.26	50	150.00	4,545.5	Ladder Peak
3	50.49	100	150.00	2,272.7	Ladder Peak
4	55.05	150	150.00	1,515.2	Ladder Peak
5	59.48	200	150.00	1,136.4	Ladder Peak
6	68.43	300	150.00	757.6	Ladder Peak
7	76.54	400	150.00	568.2	Ladder Peak
8	87.66	500	150.00	454.5	Ladder Peak
9	90.14	600	150.00	378.8	Ladder Peak
10	95.19	700	150.00	324.7	Ladder Peak
11	101.79	1,000	150.00	227.3	Ladder Peak
12	104.98	2,000	150.00	113.6	Ladder Peak
13	105.51	3,000	150.00	75.8	Ladder Peak
14	110.34	6,664	0.00	0.0	excluded peak
15	110.78	7,000	150.00	32.5	Ladder Peak
16	113.00	10,380	75.00	10.9	Upper Marker
17	115.75	14,571	0.00	0.0	
18	122.08	24,238	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

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 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P19 Lib 1:23

Number of peaks found: 16 Corr. Area 1: 1,145.6
 Noise: 0.2

Peak table for sample 1 : P19 Lib 1:23

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.51	338	96.33	431.8	
3	75.13	383	204.57	810.0	
4	77.07	405	140.45	525.7	
5	79.50	427	59.53	211.4	
6	79.85	430	66.82	235.5	
7	80.91	439	59.38	204.8	
8	83.47	462	76.09	249.3	
9	84.36	470	54.06	174.2	
10	85.94	485	41.10	128.5	
11	86.74	492	42.54	131.1	
12	87.40	498	160.74	489.3	
13	90.23	602	47.57	119.8	
14	91.37	624	22.34	54.2	
15	91.99	637	33.17	78.9	
16	93.62	669	39.41	89.2	
17	113.00	10,380	75.00	10.9	Upper Marker
18	114.99	13,411	0.00	0.0	

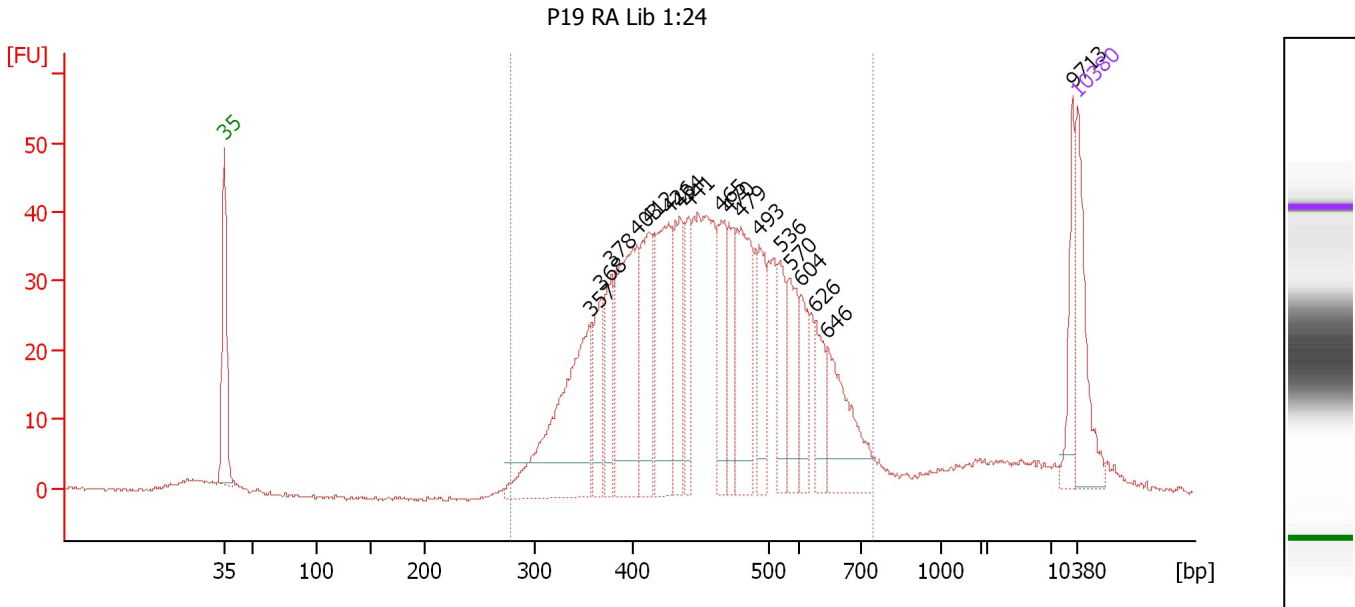
Region table for sample 1 : P19 Lib 1:23

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
272	795	466	5,352.7	1,561.74	1,145.6	95	20.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P19 RA Lib 1:24

Number of peaks found: 18 Corr. Area 1: 972.5
 Noise: 0.3

Peak table for sample 2 : P19 RA Lib 1:24

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	73.08	357	285.41	1,210.1	
3	73.91	368	84.99	350.3	
4	74.74	378	79.85	320.2	
5	76.84	403	227.81	857.1	
6	77.85	412	116.77	429.7	
7	79.42	426	174.63	621.2	
8	80.34	434	104.00	362.9	
9	81.08	441	67.34	231.4	
10	83.79	465	93.62	304.9	
11	84.36	470	67.66	217.9	
12	85.37	479	156.68	495.2	
13	86.85	493	88.62	272.5	
14	88.56	536	63.28	178.8	
15	89.39	570	76.02	202.1	
16	90.35	604	49.51	124.2	
17	91.44	626	52.71	127.6	
18	92.45	646	117.72	276.2	
19	112.56	9,713	49.02	7.6	
20	113.00	10,380	75.00	10.9	Upper Marker

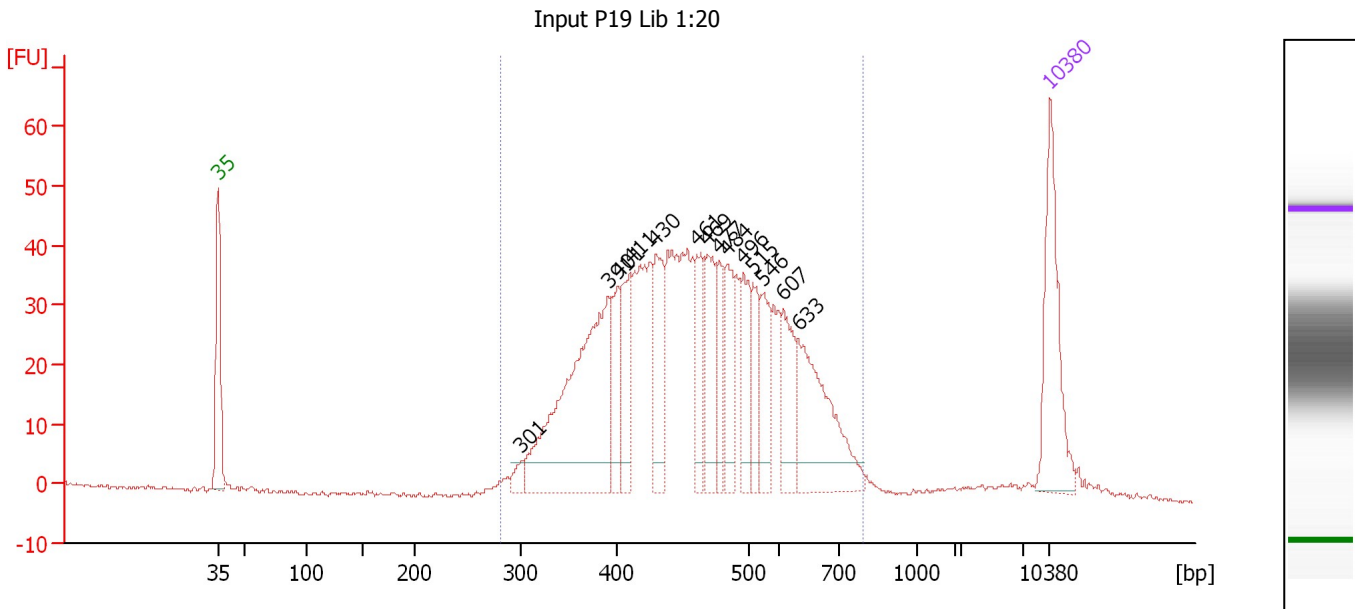
Region table for sample 2 : P19 RA Lib 1:24

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
278	745	465	7,880.8	2,295.72	972.5	90	19.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Input P19 Lib 1:20

Number of peaks found: 14 Corr. Area 1: 980.2
 Noise: 0.3

Peak table for sample 3 : Input P19 Lib 1:20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.50	301	11.54	58.1	
3	75.82	391	258.03	999.5	
4	76.63	401	44.50	168.2	
5	77.71	411	55.08	203.3	
6	79.82	430	65.00	229.3	
7	83.32	461	47.75	156.9	
8	84.17	469	67.52	218.3	
9	85.12	477	36.75	116.7	
10	85.88	484	49.31	154.4	
11	87.18	496	53.53	163.6	
12	88.04	515	35.81	105.3	
13	88.80	546	48.19	133.7	
14	90.50	607	51.95	129.6	
15	91.81	633	118.20	282.9	
16	113.00	10,380	75.00	10.9	Upper Marker

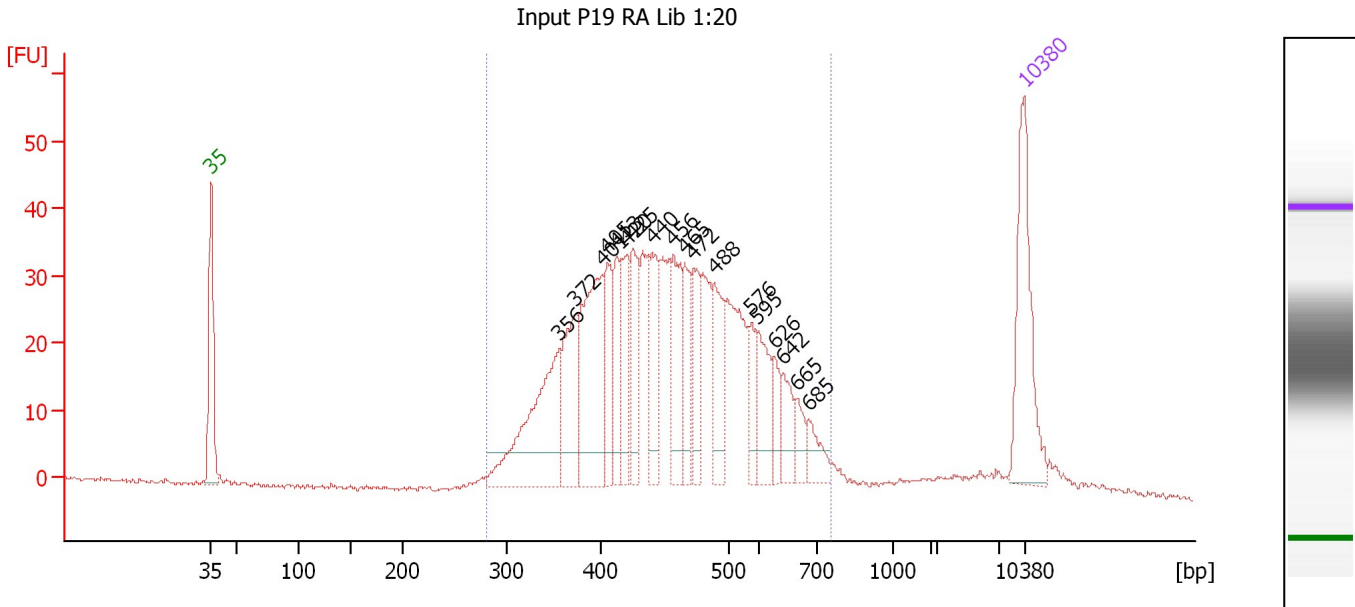
Region table for sample 3 : Input P19 Lib 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	794	476	4,554.3	1,352.49	980.2	97	20.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Input P19 RA Lib 1:20

Number of peaks found: 18 Corr. Area 1: 822.8
 Noise: 0.3

Peak table for sample 4 : Input P19 RA Lib 1:20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	72.97	356	137.91	586.9	
3	74.26	372	75.57	307.9	
4	76.65	401	124.45	470.3	
5	77.10	405	49.80	186.3	
6	77.93	413	38.72	142.2	
7	78.80	420	54.02	194.7	
8	79.35	425	53.94	192.1	
9	80.96	440	52.57	181.1	
10	82.80	456	63.77	211.8	
11	83.81	465	34.76	113.2	
12	84.54	472	41.85	134.3	
13	86.33	488	50.56	156.9	
14	89.54	576	23.66	62.2	
15	90.00	595	42.26	107.7	
16	91.47	626	19.90	48.1	
17	92.25	642	26.00	61.4	
18	93.45	665	16.44	37.4	
19	94.46	685	20.26	44.8	
20	113.00	10,380	75.00	10.9	Upper Marker

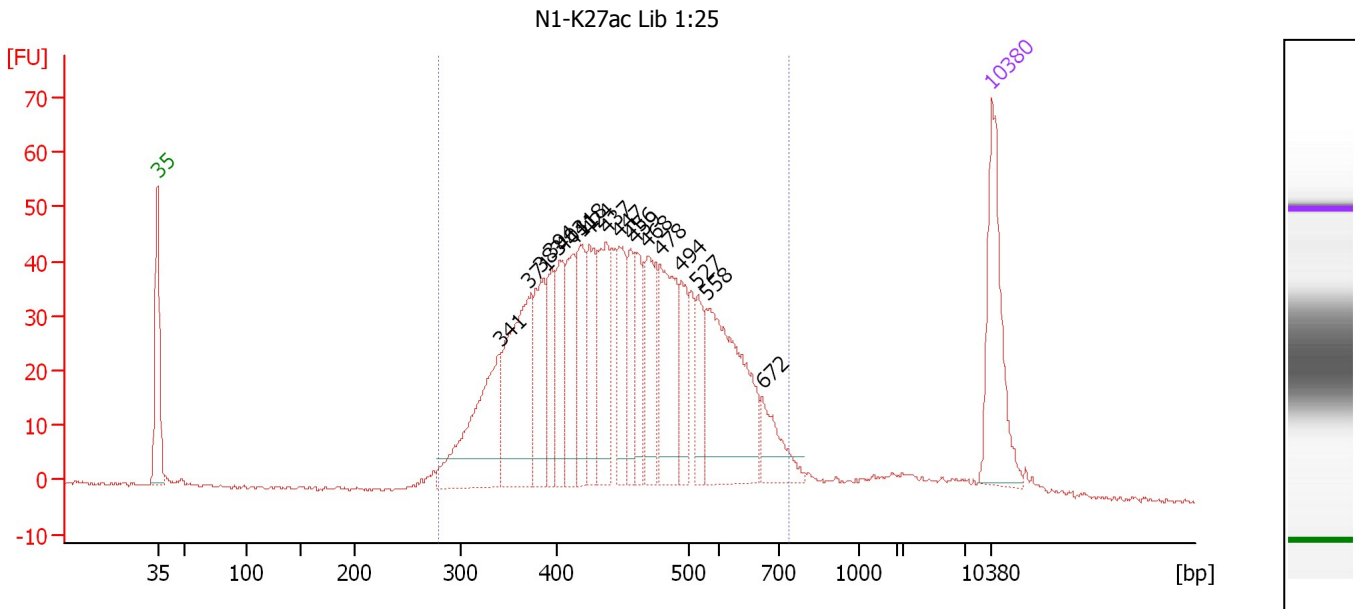
Region table for sample 4 : Input P19 RA Lib 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
282	750	464	4,251.2	1,236.31	822.8	94	19.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : N1-K27ac Lib 1:25

Number of peaks found: 18 Corr. Area 1: 1,111.8
 Noise: 0.4

Peak table for sample 5 : N1-K27ac Lib 1:25

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.73	341	127.55	567.3	
3	74.18	371	134.62	549.9	
4	75.17	383	67.69	267.7	
5	76.07	394	45.69	175.6	
6	76.92	403	53.12	199.5	
7	77.76	411	60.22	222.0	
8	78.52	418	58.48	212.1	
9	79.23	424	57.78	206.4	
10	80.64	437	76.11	263.9	
11	81.73	447	58.83	199.6	
12	82.72	456	39.35	130.9	
13	83.05	459	47.39	156.6	
14	84.13	468	68.63	222.1	
15	85.17	478	89.91	285.2	
16	86.96	494	36.71	112.7	
17	88.33	527	34.45	99.0	
18	89.08	558	151.37	411.4	
19	93.75	672	37.34	84.3	
20	113.00	10,380	75.00	10.9	Upper Marker

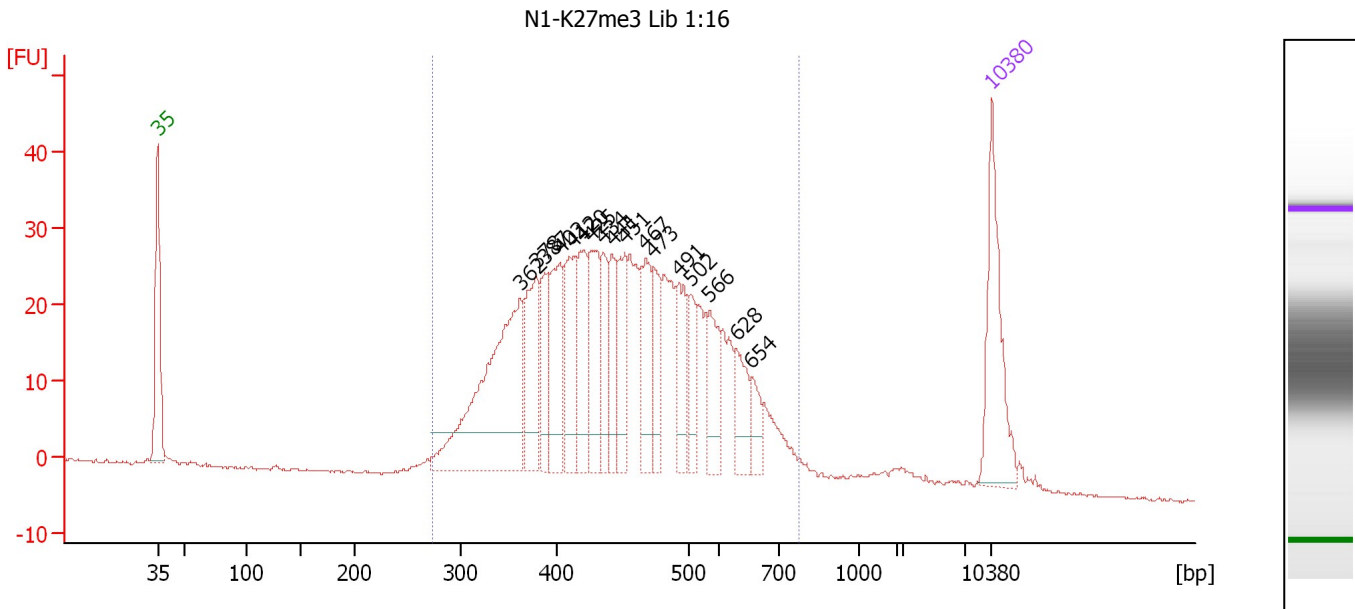
Region table for sample 5 : N1-K27ac Lib 1:25

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	738	460	4,833.9	1,388.72	1,111.8	94	20.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : N1-K27me3 Lib 1:16

Number of peaks found: 17 Corr. Area 1: 749.1
 Noise: 0.2

Peak table for sample 6 : N1-K27me3 Lib 1:16

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	73.48	362	238.33	996.7	
3	74.78	378	80.53	322.6	
4	75.50	387	45.26	177.1	
5	76.75	402	87.68	330.6	
6	77.90	412	70.16	257.8	
7	78.72	420	64.85	234.1	
8	79.35	425	74.59	265.8	
9	80.36	434	45.97	160.4	
10	81.13	441	42.03	144.3	
11	82.18	451	57.50	193.3	
12	83.96	467	66.64	216.3	
13	84.63	473	40.50	129.8	
14	86.70	491	52.03	160.4	
15	87.71	502	34.00	102.6	
16	89.30	566	49.39	132.2	
17	91.56	628	37.17	89.7	
18	92.86	654	22.26	51.6	
19	113.00	10,380	75.00	10.9	Upper Marker

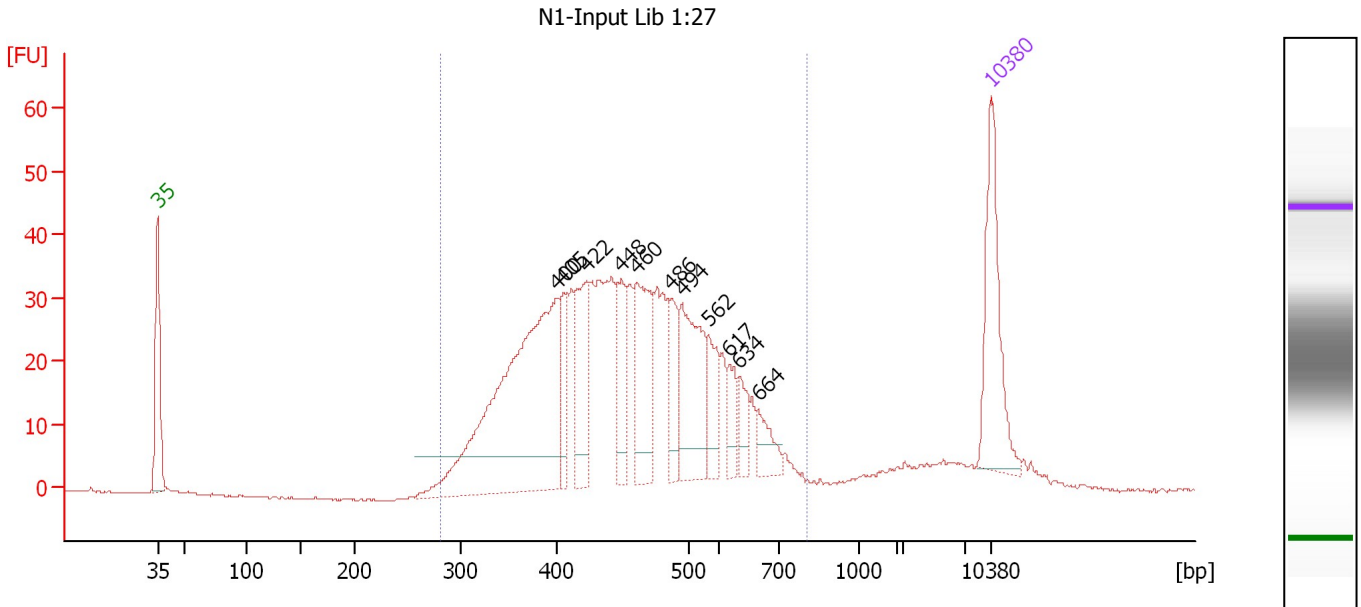
Region table for sample 6 : N1-K27me3 Lib 1:16

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
273	771	459	5,119.2	1,463.00	749.1	95	21.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : N1-Input Lib 1:27

Number of peaks found: 11 Corr. Area 1: 793.6
 Noise: 0.1

Peak table for sample 7 : N1-Input Lib 1:27

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.50	400	344.44	1,306.1	
3	77.04	405	39.26	147.0	
4	79.01	422	76.56	274.8	
5	81.90	448	47.38	160.2	
6	83.18	460	92.67	305.4	
7	86.07	486	44.94	140.2	
8	87.00	494	102.70	314.9	
9	89.21	562	33.85	91.2	
10	90.97	617	23.44	57.6	
11	91.86	634	21.90	52.3	
12	93.38	664	22.46	51.2	
13	113.00	10,380	75.00	10.9	Upper Marker

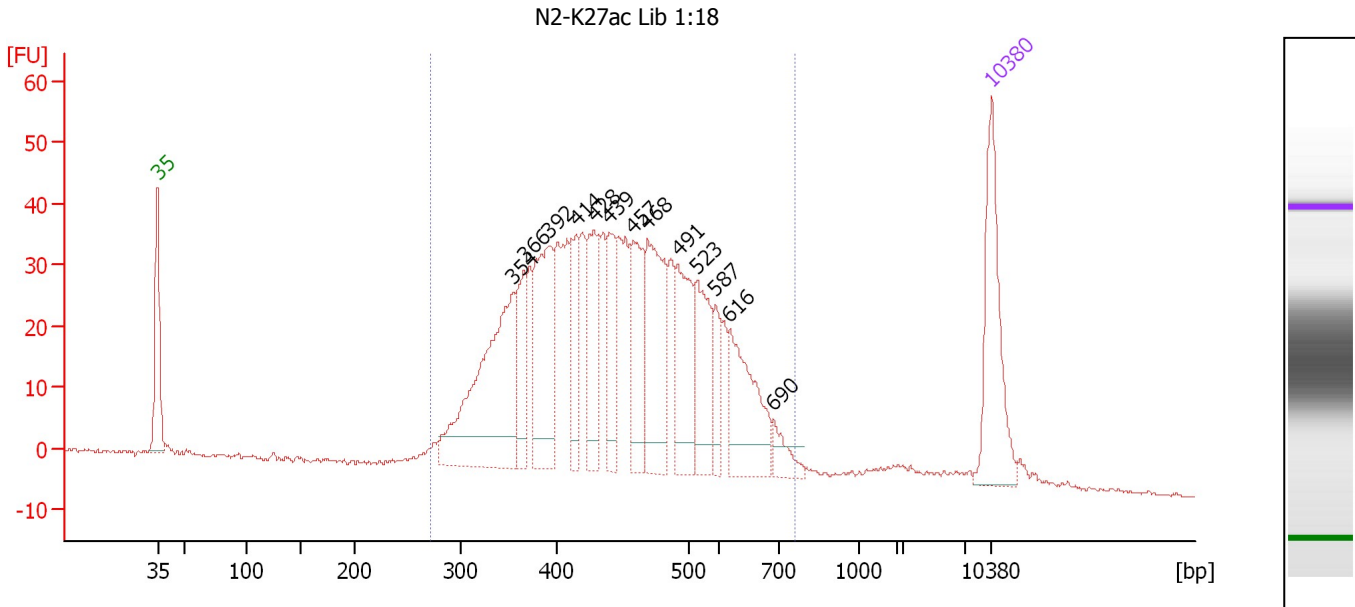
Region table for sample 7 : N1-Input Lib 1:27

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
281	806	463	4,286.5	1,240.75	793.6	93	20.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : N2-K27ac Lib 1:18

Number of peaks found: 13 Corr. Area 1: 970.8
 Noise: 0.4

Peak table for sample 8 : N2-K27ac Lib 1:18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	72.81	354	200.66	858.7	
3	73.76	366	53.13	220.1	
4	75.91	392	114.79	443.5	
5	78.15	414	46.56	170.2	
6	79.65	428	62.93	222.8	
7	80.89	439	58.73	202.6	
8	82.89	457	73.42	243.4	
9	84.13	468	111.11	359.5	
10	86.68	491	81.75	252.2	
11	88.22	523	69.41	201.2	
12	89.82	587	26.10	67.4	
13	90.96	616	82.63	203.1	
14	94.70	690	18.44	40.5	
15	113.00	10,380	75.00	10.9	Upper Marker

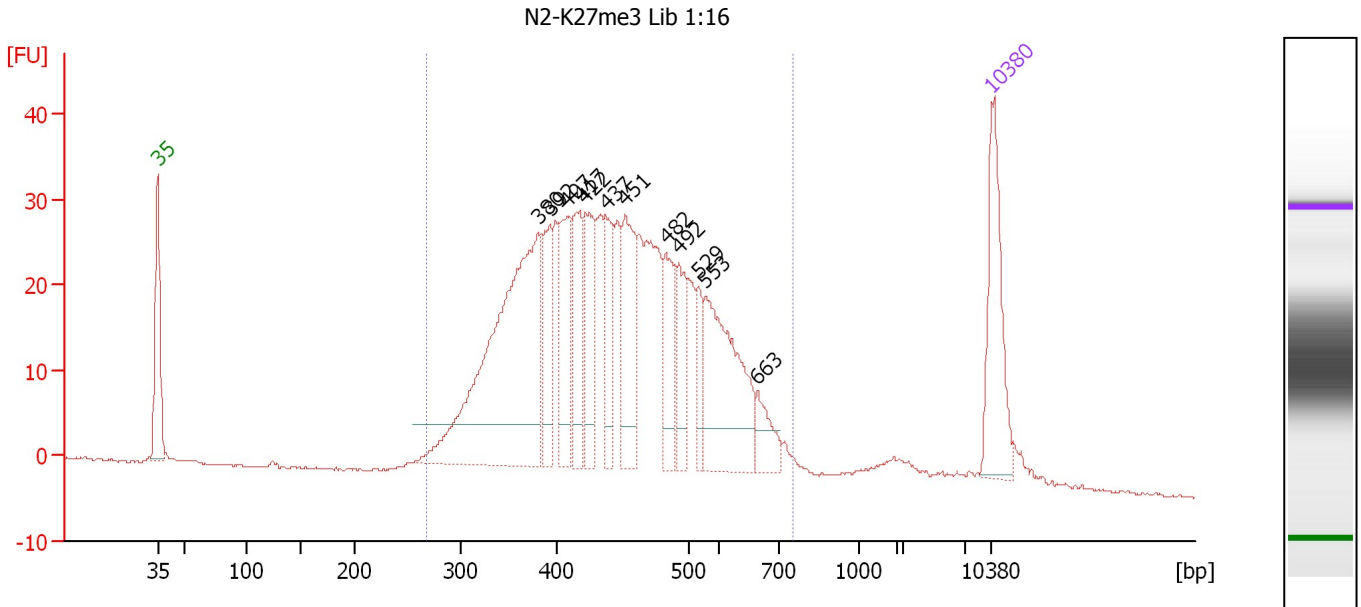
Region table for sample 8 : N2-K27ac Lib 1:18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
271	757	455	4,794.7	1,360.16	970.8	95	20.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

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 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : N2-K27me3 Lib 1:16

Number of peaks found: 12 Corr. Area 1: 740.1
 Noise: 0.1

Peak table for sample 9 : N2-K27me3 Lib 1:16

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.91	380	362.81	1,446.9	
3	75.91	392	64.71	249.9	
4	77.37	407	77.58	288.5	
5	78.43	417	70.41	255.8	
6	78.93	422	69.55	250.0	
7	80.64	437	48.31	167.6	
8	82.20	451	92.85	312.0	
9	85.66	482	59.42	186.8	
10	86.72	492	52.86	162.9	
11	88.38	529	30.87	88.4	
12	88.98	553	146.17	400.3	
13	93.30	663	29.86	68.3	
14	113.00	10,380	75.00	10.9	Upper Marker

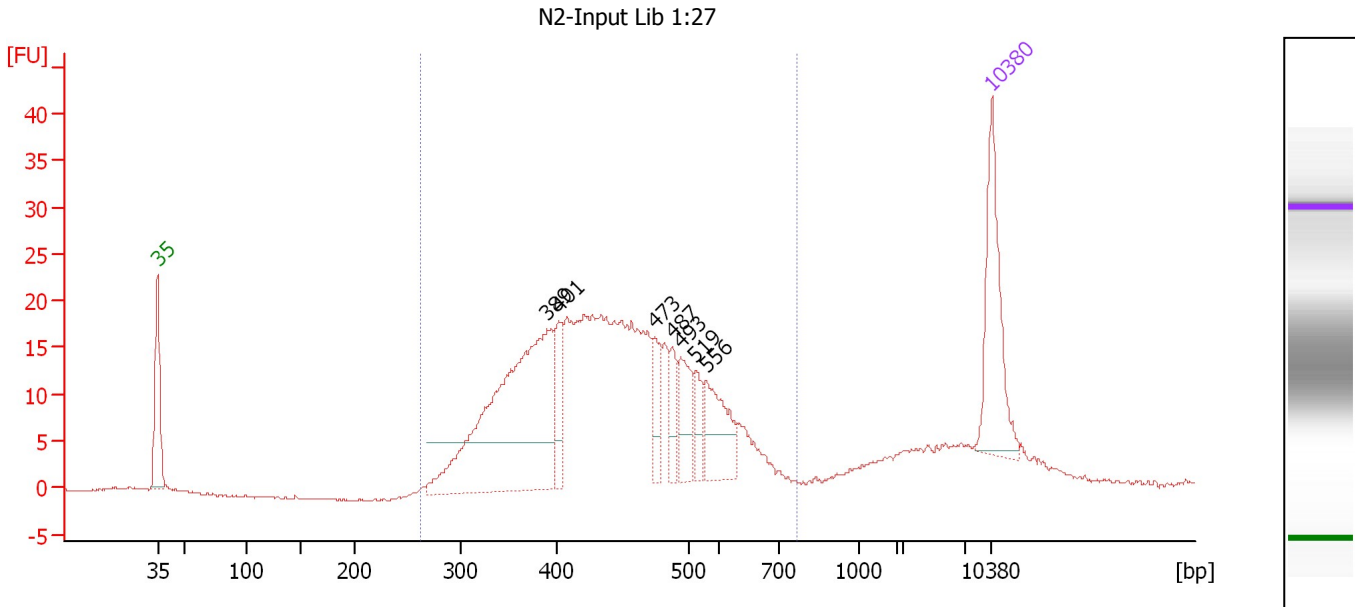
Region table for sample 9 : N2-K27me3 Lib 1:16

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
267	751	451	5,550.0	1,563.67	740.1	94	20.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

Created: 2/4/2014 4:43:19 PM
 Modified: 2/5/2014 9:38:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : N2-Input Lib 1:27

Number of peaks found: 7 Corr. Area 1: 414.2
 Noise: 0.1

Peak table for sample 10 : N2-Input Lib 1:27

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.68	389	320.83	1,248.3	
3	76.69	401	38.83	146.6	
4	84.71	473	28.43	91.0	
5	86.22	487	25.29	78.7	
6	86.93	493	42.16	129.5	
7	88.14	519	21.20	61.9	
8	89.04	556	56.70	154.6	
9	113.00	10,380	75.00	10.9	Upper Marker

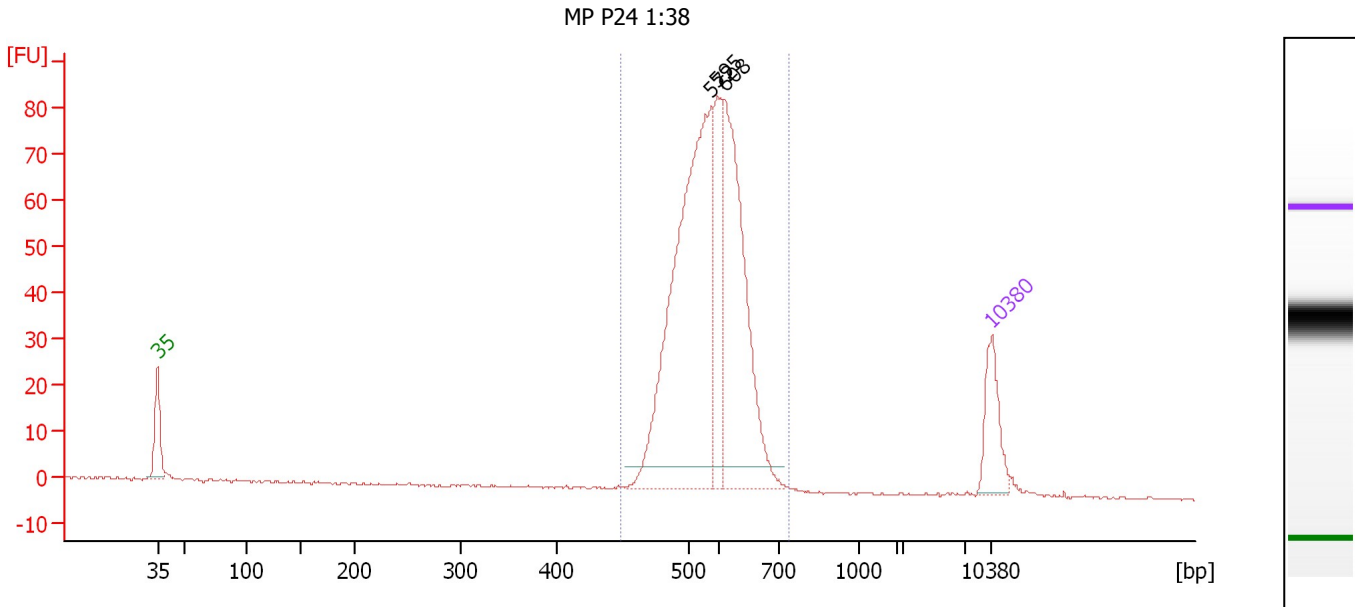
Region table for sample 10 : N2-Input Lib 1:27

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
263	764	445	3,691.6	1,033.93	414.2	88	19.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : MP P24 1:38

Number of peaks found: 3 Corr. Area 1: 599.8
 Noise: 0.3

Peak table for sample 11 : MP P24 1:38

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	89.45	572	785.95	2,081.4	
3	90.00	595	154.84	394.6	
4	90.56	608	482.43	1,201.6	
5	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : MP P24 1:38

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
448	738	564	4,100.8	1,501.71	599.8	97	10.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04_008.xad

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Gel Image

