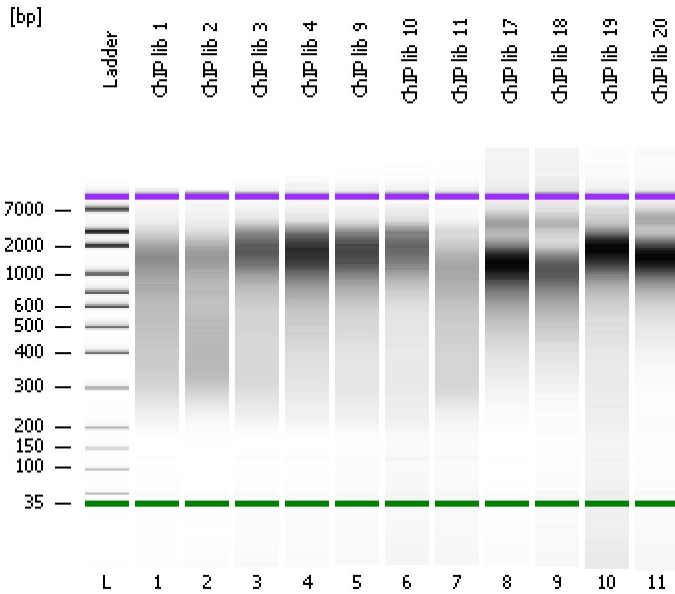


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 PM

Electrophoresis File Run Summary



Instrument Information:

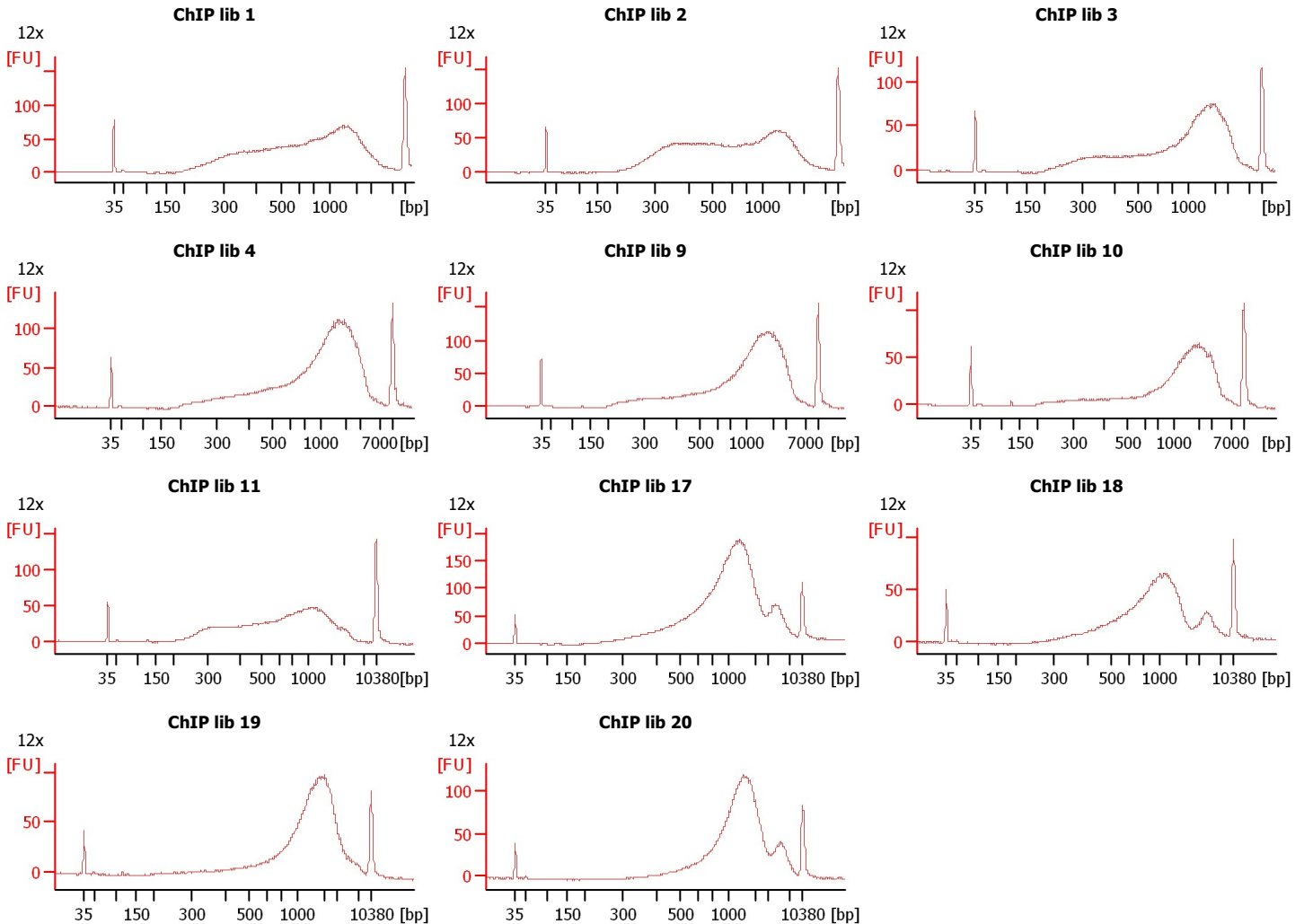
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ChIP lib 1	12x	<input type="checkbox"/>	✓			
ChIP lib 2	12x	<input type="checkbox"/>	✓			
ChIP lib 3	12x	<input type="checkbox"/>	✓			
ChIP lib 4	12x	<input type="checkbox"/>	✓			
ChIP lib 9	12x	<input type="checkbox"/>	✓			
ChIP lib 10	12x	<input type="checkbox"/>	✓			
ChIP lib 11	12x	<input type="checkbox"/>	✓			
ChIP lib 17	12x	<input type="checkbox"/>	✓			
ChIP lib 18	12x	<input type="checkbox"/>	✓			
ChIP lib 19	12x	<input type="checkbox"/>	✓			
ChIP lib 20	12x	<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\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 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

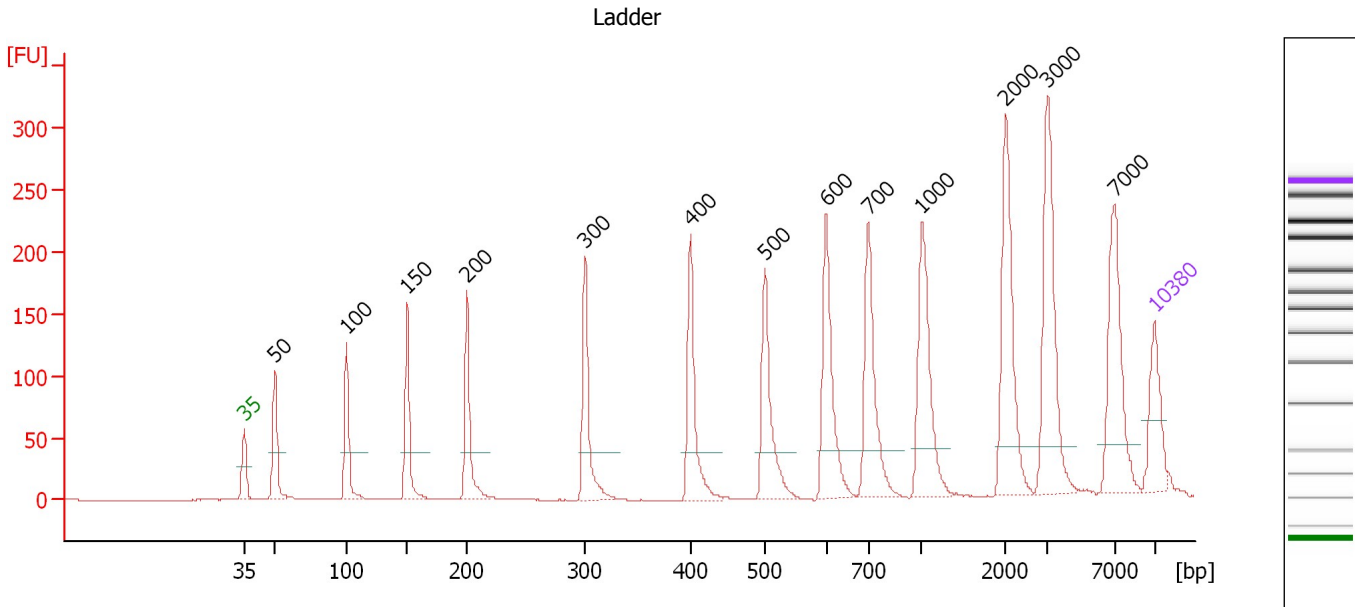
Ladder

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\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

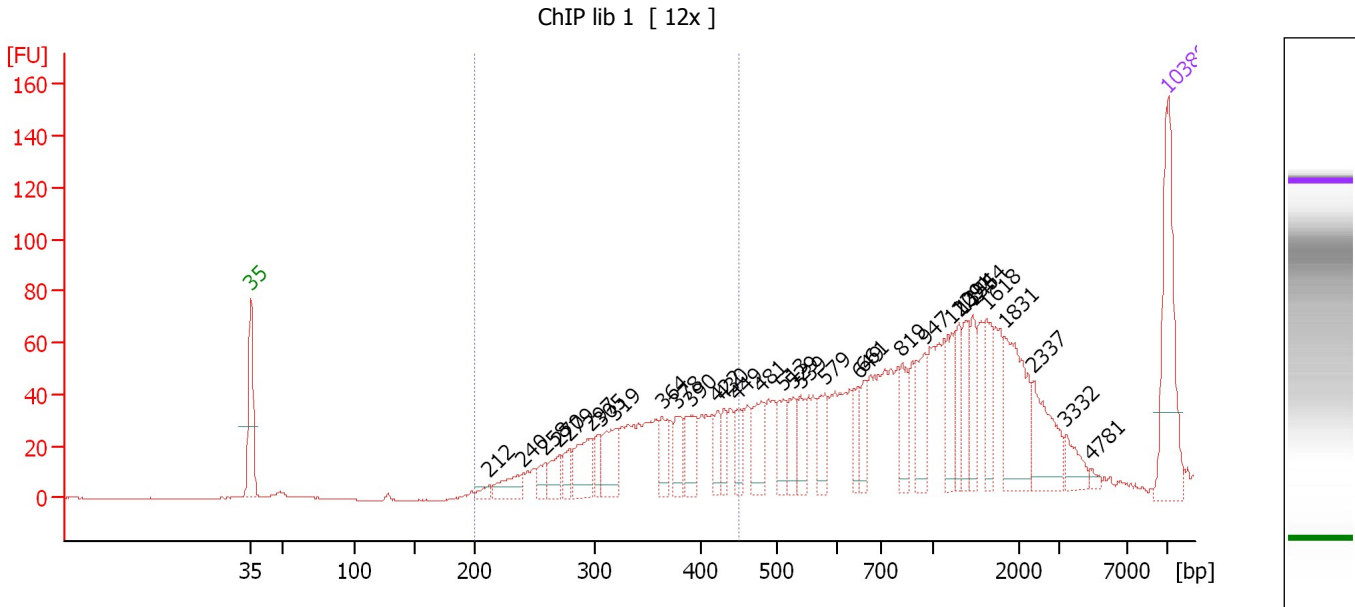
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.55
5	200	150.00	1,136.4	Ladder Peak	60.14
6	300	150.00	757.6	Ladder Peak	69.24
7	400	150.00	568.2	Ladder Peak	77.32
8	500	150.00	454.5	Ladder Peak	83.06
9	600	150.00	378.8	Ladder Peak	87.78
10	700	150.00	324.7	Ladder Peak	91.02
11	1,000	150.00	227.3	Ladder Peak	95.12
12	2,000	150.00	113.6	Ladder Peak	101.60
13	3,000	150.00	75.8	Ladder Peak	104.76
14	7,000	150.00	32.5	Ladder Peak	109.92
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ChIP lib 1

Number of peaks found: 32 Corr. Area 1: 459.3
 Noise: 0.2

Peak table for sample 1 : ChIP lib 1


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	212	7.63	54.6		61.19
3	240	26.91	170.1		63.76
4	258	15.08	88.5		65.42
5	270	22.22	124.9		66.48
6	279	17.52	95.3		67.30
7	297	44.32	225.8		69.01
8	305	15.98	79.4		69.66
9	319	39.57	188.1		70.76
10	364	21.46	89.4		74.38
11	378	26.26	105.3		75.52
12	390	33.75	131.0		76.53
13	422	16.87	60.6		78.57
14	430	16.97	59.8		79.06
15	449	22.23	74.9		80.16
16	481	36.55	115.1		81.99
17	513	25.68	75.9		83.66
18	529	25.47	73.0		84.43
19	539	22.65	63.6		84.92
20	579	28.01	73.3		86.79
21	649	18.72	43.7		89.35
22	661	18.27	41.9		89.76
23	819	26.58	49.2		92.65
24	947	32.59	52.1		94.40
25	1,209	27.14	34.0		96.48

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad


Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : ChIP lib 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,291	21.48	25.2		97.01
27	1,354	25.33	28.3		97.41
28	1,454	21.60	22.5		98.06
29	1,618	27.25	25.5		99.12
30	1,831	64.24	53.2		100.51
31	2,337	41.50	26.9		102.66
32	3,332	15.25	6.9		105.19
33	4,781	3.06	1.0		107.06
34	 10,380	75.00	10.9	Upper Marker	113.00

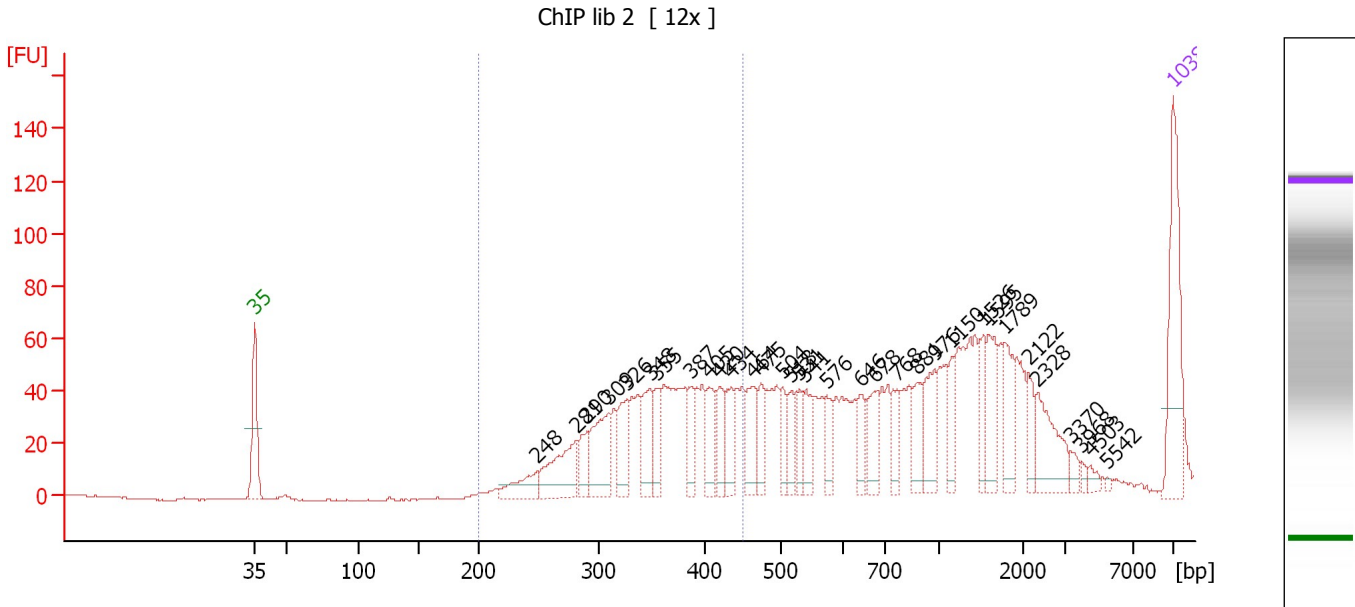
Region table for sample 1 : ChIP lib 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	451	353	459.3	1,652.7	 370.56	30	15.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ChIP lib 2

Number of peaks found: 33 Corr. Area 1: 563.5
 Noise: 0.3

Peak table for sample 2 : ChIP lib 2


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	248	33.61	205.0		64.54
3	281	71.35	384.1		67.55
4	290	29.54	154.4		68.33
5	309	66.88	327.7		69.99
6	326	44.75	207.7		71.37
7	348	47.35	206.2		73.12
8	355	32.64	139.5		73.65
9	387	26.58	104.1		76.25
10	405	33.05	123.5		77.63
11	420	30.75	111.0		78.45
12	434	30.24	105.5		79.30
13	464	40.95	133.7		81.01
14	475	27.93	89.1		81.62
15	504	22.96	69.0		83.24
16	518	21.92	64.0		83.93
17	531	23.36	66.6		84.54
18	541	28.85	80.8		84.99
19	576	24.72	65.0		86.66
20	646	22.62	53.1		89.26
21	678	35.11	78.4		90.32
22	768	23.25	45.9		91.94
23	881	30.13	51.8		93.49
24	976	38.21	59.3		94.79
25	1,150	20.69	27.3		96.09

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad


Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : ChIP lib 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,526	24.06	23.9		98.53
27	1,595	37.26	35.4		98.98
28	1,789	33.28	28.2		100.24
29	2,122	16.61	11.9		101.98
30	2,328	44.71	29.1		102.63
31	3,370	7.29	3.3		105.24
32	3,968	3.56	1.4		106.01
33	4,503	4.87	1.6		106.70
34	5,542	1.84	0.5		108.04
35	 10,380	75.00	10.9	Upper Marker	113.00

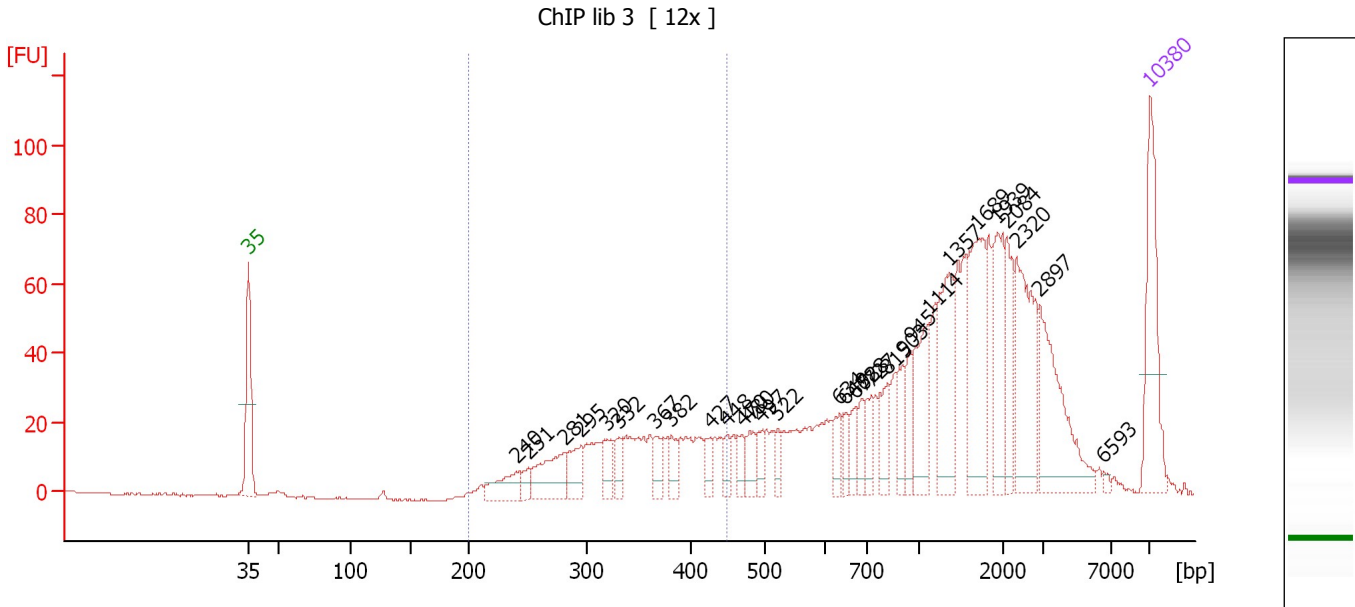
Region table for sample 2 : ChIP lib 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	451	359	563.5	2,281.1	 526.02	38	14.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ChIP lib 3

Number of peaks found: 30 Corr. Area 1: 325.2
 Noise: 0.3

Peak table for sample 3 : ChIP lib 3


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	240	37.35	235.3		63.82
3	251	12.78	77.2		64.77
4	281	60.61	326.9		67.51
5	295	34.85	178.7		68.83
6	320	23.61	111.8		70.86
7	332	19.92	91.0		71.81
8	367	20.69	85.5		74.63
9	382	17.45	69.2		75.87
10	427	13.27	47.1		78.89
11	448	13.41	45.3		80.09
12	470	17.21	55.5		81.33
13	480	19.99	63.1		81.91
14	497	14.97	45.7		82.86
15	522	13.47	39.1		84.11
16	634	17.79	42.5		88.87
17	649	15.02	35.1		89.36
18	672	18.36	41.4		90.11
19	688	17.20	37.9		90.65
20	727	20.25	42.2		91.39
21	815	29.44	54.7		92.59
22	903	27.09	45.5		93.79
23	945	22.09	35.4		94.37
24	1,114	58.75	79.9		95.86
25	1,357	76.70	85.6		97.44

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad


Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : ChIP lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,689	93.81	84.1		99.59
27	1,939	60.87	47.6		101.20
28	2,084	40.41	29.4		101.86
29	2,320	89.55	58.5		102.61
30	2,897	89.94	47.0		104.43
31	6,593	2.45	0.6		109.40
32	 10,380	75.00	10.9	Upper Marker	113.00

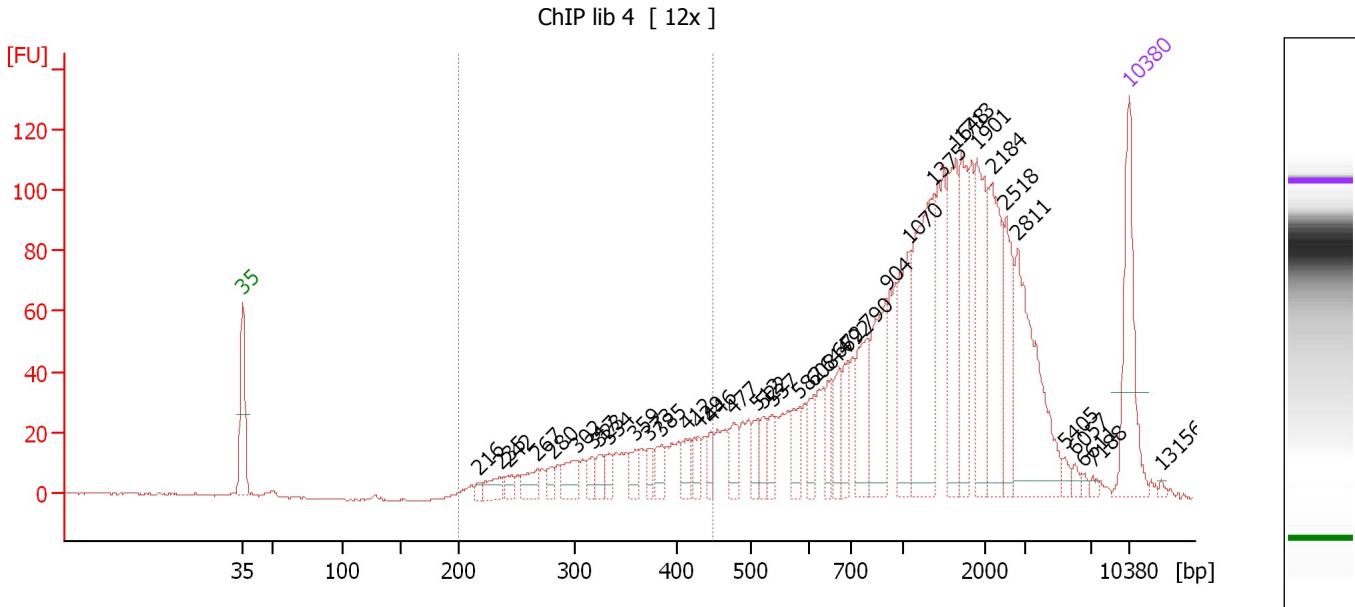
Region table for sample 3 : ChIP lib 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	448	342	325.2	1,802.6	 389.16	22	17.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ChIP lib 4

Number of peaks found: 39 Corr. Area 1: 323.6
 Noise: 0.3

Peak table for sample 4 : ChIP lib 4


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	216	5.91	41.4		61.60
3	235	20.86	134.2		63.37
4	242	11.22	70.3		63.96
5	267	23.83	135.0		66.28
6	280	12.18	65.9		67.41
7	302	30.53	153.2		69.39
8	317	16.07	76.8		70.61
9	323	15.98	74.9		71.12
10	334	13.13	59.7		71.96
11	359	16.15	68.1		74.02
12	373	12.59	51.2		75.12
13	385	20.59	81.1		76.08
14	412	18.80	69.1		78.02
15	429	19.35	68.3		78.99
16	446	14.78	50.2		79.96
17	477	26.10	82.8		81.77
18	512	19.28	57.1		83.62
19	522	18.14	52.7		84.08
20	537	16.85	47.6		84.80
21	582	25.15	65.4		86.94
22	608	25.93	64.6		88.04
23	644	21.69	51.0		89.22
24	672	32.55	73.4		90.10
25	692	25.24	55.2		90.78

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad


Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : ChIP lib 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	790	54.76	105.0		92.25
27	904	78.58	131.7		93.81
28	1,070	75.49	106.9		95.57
29	1,375	136.13	150.0		97.55
30	1,648	85.01	78.2		99.32
31	1,713	60.52	53.5		99.74
32	1,901	79.92	63.7		100.96
33	2,184	86.88	60.3		102.18
34	2,518	54.57	32.8		103.23
35	2,811	121.27	65.4		104.16
36	5,405	5.98	1.7		107.86
37	6,057	4.61	1.2		108.71
38	6,611	2.70	0.6		109.42
39	7,188	3.06	0.6		110.10
40	 10,380	75.00	10.9	Upper Marker	113.00
41	13,156	0.00	0.0		115.53

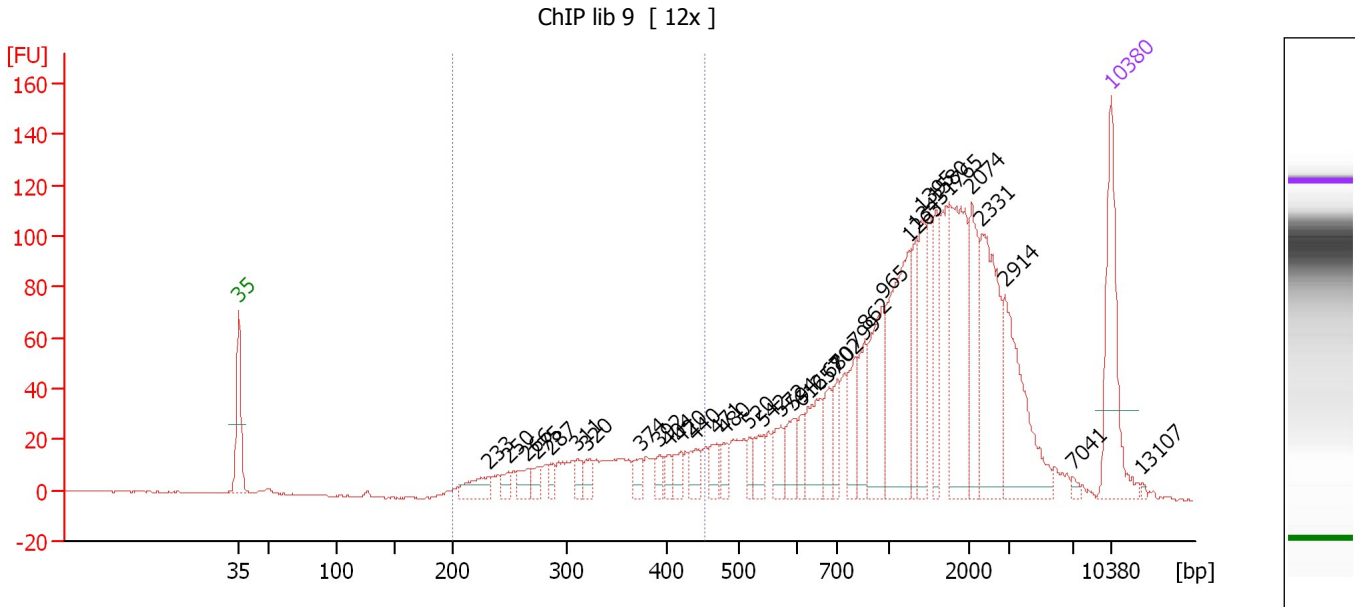
Region table for sample 4 : ChIP lib 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	450	346	323.6	1,587.2	 343.64	16	18.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ChIP lib 9

Number of peaks found: 35 Corr. Area 1: 340.0
 Noise: 0.3

Peak table for sample 5 : ChIP lib 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	233	27.13	176.7		63.11
3	250	9.66	58.7		64.65
4	266	16.54	94.2		66.15
5	275	12.70	70.0		66.96
6	287	10.56	55.8		68.03
7	311	11.03	53.6		70.17
8	320	14.02	66.4		70.85
9	374	14.70	59.5		75.26
10	392	9.42	36.4		76.72
11	404	10.92	40.9		77.57
12	420	14.21	51.3		78.47
13	440	16.61	57.2		79.63
14	471	18.13	58.4		81.38
15	480	14.90	47.0		81.94
16	520	12.84	37.4		83.99
17	542	19.36	54.1		85.06
18	572	22.65	60.0		86.47
19	594	26.35	67.2		87.50
20	612	14.62	36.2		88.18
21	657	43.64	100.6		89.64
22	680	26.26	58.5		90.37
23	702	20.35	43.9		91.05
24	799	36.34	68.9		92.38
25	862	35.46	62.3		93.23

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad


Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : ChIP lib 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	965	66.19	103.9		94.64
27	1,263	113.42	136.0		96.83
28	1,343	35.64	40.2		97.34
29	1,395	52.33	56.8		97.68
30	1,580	38.17	36.6		98.88
31	1,765	103.42	88.8		100.08
32	2,074	52.81	38.6		101.83
33	2,331	97.04	63.1		102.65
34	2,914	85.23	44.3		104.49
35	7,041	3.08	0.7		109.96
36	 10,380	75.00	10.9	Upper Marker	113.00
37	13,107	0.00	0.0		115.48

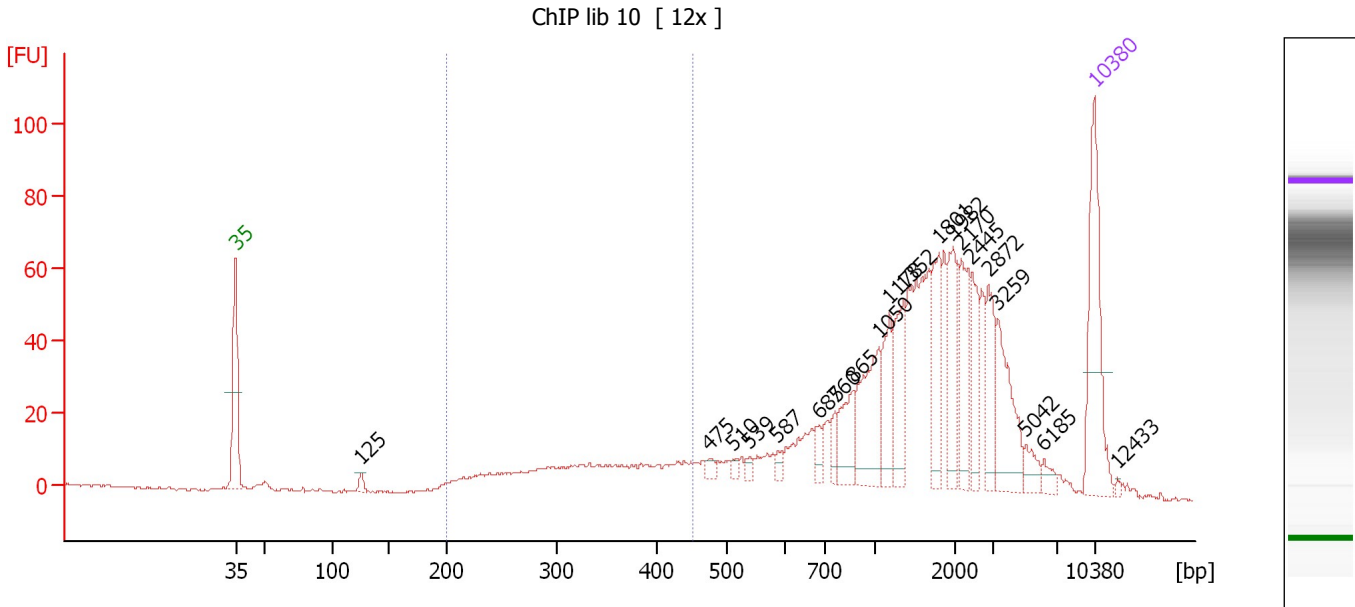
Region table for sample 5 : ChIP lib 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	454	339	340.0	1,349.4	 284.99	16	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ChIP lib 10

Number of peaks found: 20 Corr. Area 1: 177.1
 Noise: 0.3

Peak table for sample 6 : ChIP lib 10

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	125	6.98	84.3		53.25
3	475	5.47	17.5		81.63
4	510	4.53	13.4		83.54
5	539	4.66	13.1		84.89
6	587	5.91	15.2		87.19
7	685	11.17	24.7		90.54
8	760	11.39	22.7		91.84
9	865	30.74	53.9		93.27
10	1,050	62.74	90.5		95.45
11	1,178	34.96	45.0		96.27
12	1,352	42.08	47.2		97.40
13	1,801	39.23	33.0		100.31
14	1,982	45.33	34.6		101.49
15	2,170	43.01	30.0		102.14
16	2,445	30.13	18.7		103.01
17	2,872	34.34	18.1		104.35
18	3,259	51.49	23.9		105.09
19	5,042	11.01	3.3		107.39
20	6,185	6.69	1.6		108.87
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,433	0.00	0.0		114.87


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

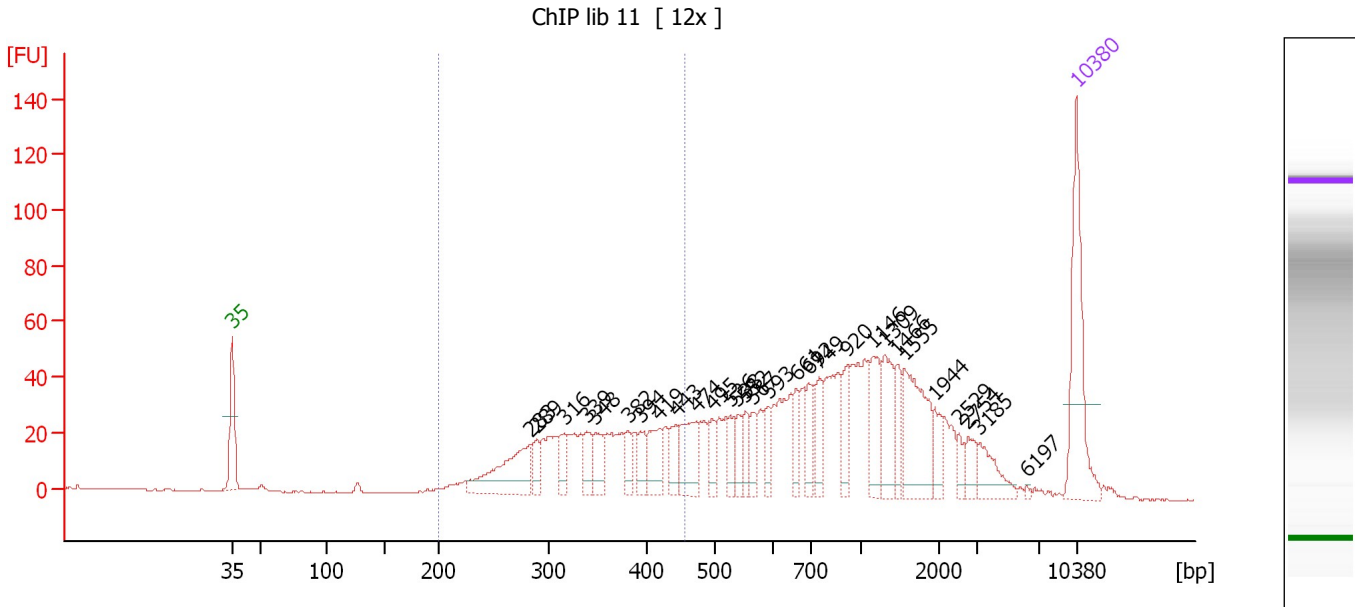
ChIP lib 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	451	333	177.1	978.7	 202.59	15	19.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ChIP lib 11

Number of peaks found: 29 Corr. Area 1: 463.4
 Noise: 0.3

Peak table for sample 7 : ChIP lib 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	283	81.68	437.7		67.67
3	289	17.18	90.1		68.25
4	316	20.85	100.1		70.50
5	339	20.32	91.0		72.36
6	348	27.00	117.6		73.11
7	382	17.70	70.2		75.86
8	394	19.31	74.2		76.87
9	419	32.22	116.5		78.42
10	443	22.84	78.1		79.79
11	474	45.44	145.3		81.56
12	495	17.60	53.8		82.80
13	526	16.40	47.2		84.30
14	538	16.40	46.2		84.88
15	552	17.82	48.9		85.54
16	567	17.47	46.6		86.25
17	593	16.66	42.6		87.44
18	661	19.83	45.5		89.74
19	692	20.97	45.9		90.76
20	749	27.69	56.0		91.69
21	920	24.50	40.3		94.03
22	1,146	36.04	47.7		96.06
23	1,309	35.97	41.6		97.13
24	1,466	20.33	21.0		98.14
25	1,555	69.49	67.7		98.72

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : ChIP lib 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,944	16.45	12.8		101.24
27	2,529	8.19	4.9		103.27
28	2,754	14.24	7.8		103.98
29	3,185	23.20	11.0		105.00
30	6,197	1.39	0.3		108.89
31	10,380	75.00	10.9	Upper Marker	113.00

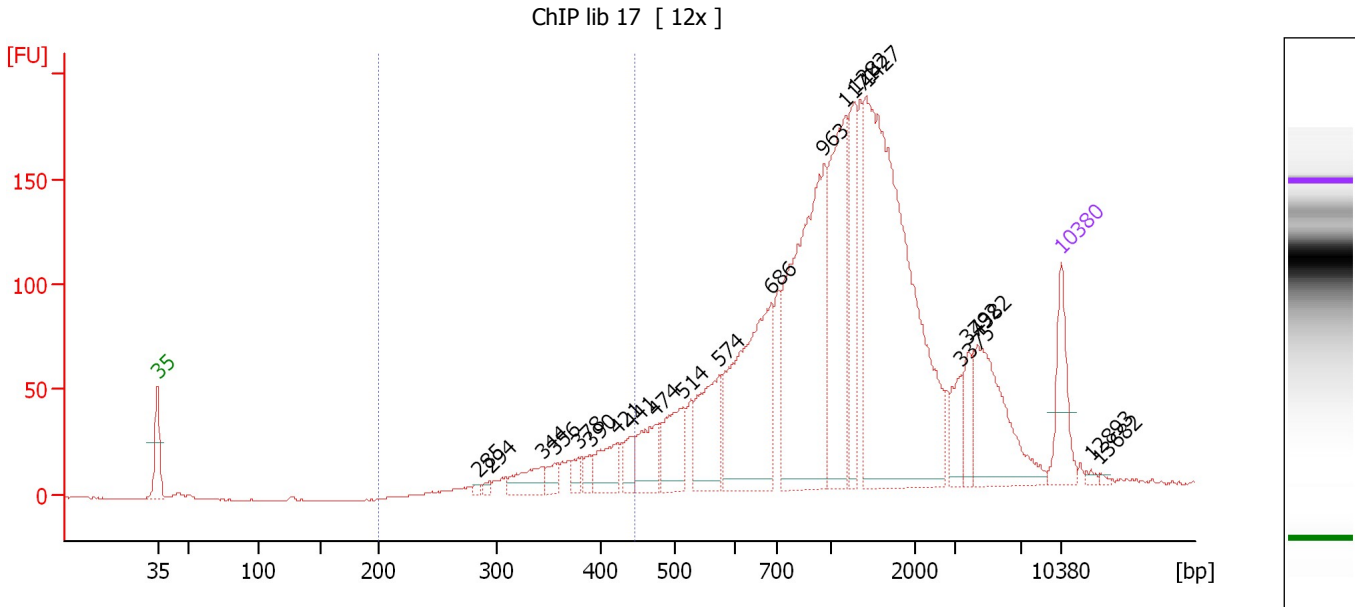
Region table for sample 7 : ChIP lib 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	454	346	463.4	1,978.2	431.49	32	17.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ChIP lib 17

Number of peaks found: 21 Corr. Area 1: 209.5
 Noise: 0.2

Peak table for sample 8 : ChIP lib 17

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	285	6.73	35.8		67.89
3	294	8.77	45.1		68.74
4	344	55.70	245.2		72.82
5	356	22.90	97.5		73.76
6	378	20.36	81.6		75.56
7	390	23.83	92.5		76.54
8	421	60.65	218.4		78.52
9	441	31.31	107.5		79.68
10	474	81.75	261.4		81.57
11	514	91.53	269.9		83.72
12	574	137.17	362.2		86.54
13	686	357.13	788.3		90.58
14	963	483.87	761.3		94.61
15	1,171	267.43	346.0		96.23
16	1,282	130.16	153.9		96.95
17	1,427	728.93	773.9		97.89
18	3,375	43.39	19.5		105.24
19	3,792	41.49	16.6		105.78
20	4,382	168.48	58.3		106.54
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,893	0.00	0.0		115.29
23	13,682	0.00	0.0		116.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Region table for sample 8 :

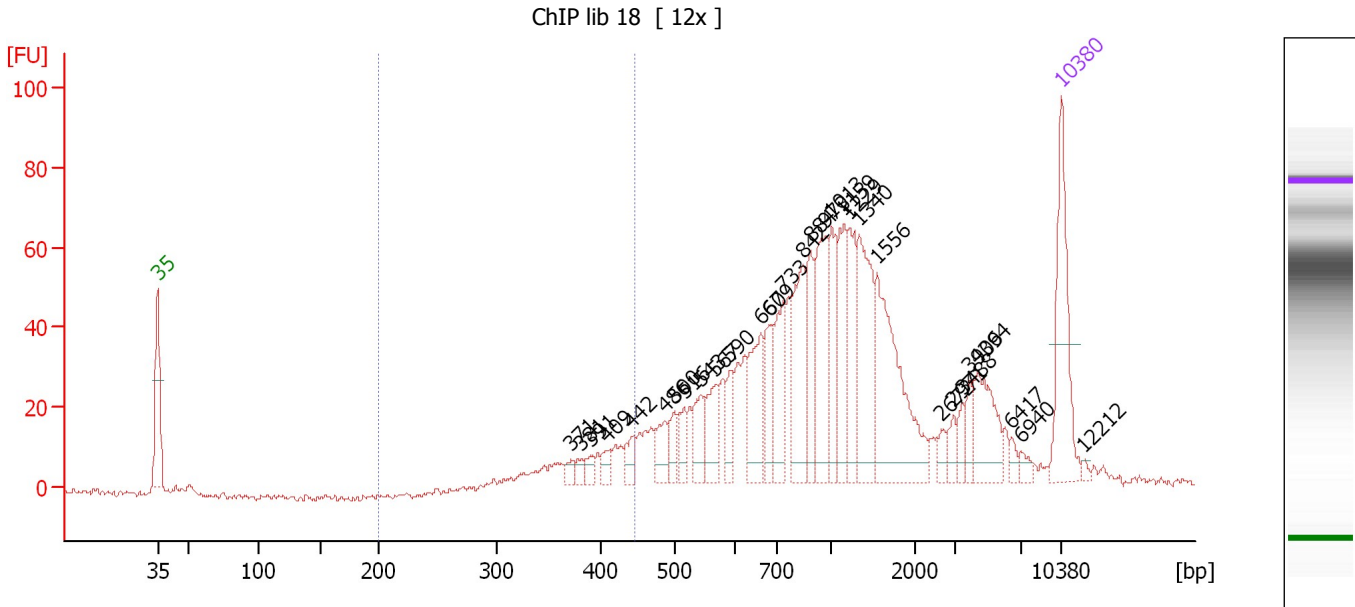
ChIP lib 17

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	446	379	209.5	1,068.9	■ 262.42	7	11.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

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 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : ChIP lib 18

Number of peaks found: 30 Corr. Area 1: 83.5
 Noise: 0.7

Peak table for sample 9 : ChIP lib 18

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	371	7.61	31.1		74.98
3	381	7.63	30.3		75.79
4	391	8.82	34.2		76.56
5	409	10.55	39.1		77.82
6	442	14.99	51.4		79.71
7	486	23.08	71.9		82.28
8	500	16.78	50.9		83.05
9	516	18.64	54.8		83.81
10	543	27.60	77.1		85.07
11	567	36.99	98.8		86.24
12	590	23.72	60.9		87.32
13	660	58.78	135.0		89.71
14	679	33.24	74.2		90.34
15	733	51.26	106.0		91.47
16	842	71.73	129.1		92.95
17	884	46.33	79.4		93.54
18	973	72.12	112.3		94.76
19	1,013	44.74	66.9		95.21
20	1,159	56.51	73.9		96.15
21	1,229	52.00	64.1		96.60
22	1,340	82.26	93.0		97.32
23	1,556	121.45	118.3		98.72
24	2,672	8.33	4.7		103.72
25	2,971	9.81	5.0		104.67

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : ChIP lib 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,488	10.46	4.5		105.39
27	3,906	13.34	5.2		105.93
28	4,394	46.61	16.1		106.56
29	6,417	5.24	1.2		109.17
30	6,940	6.31	1.4		109.85
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,212	0.00	0.0		114.67

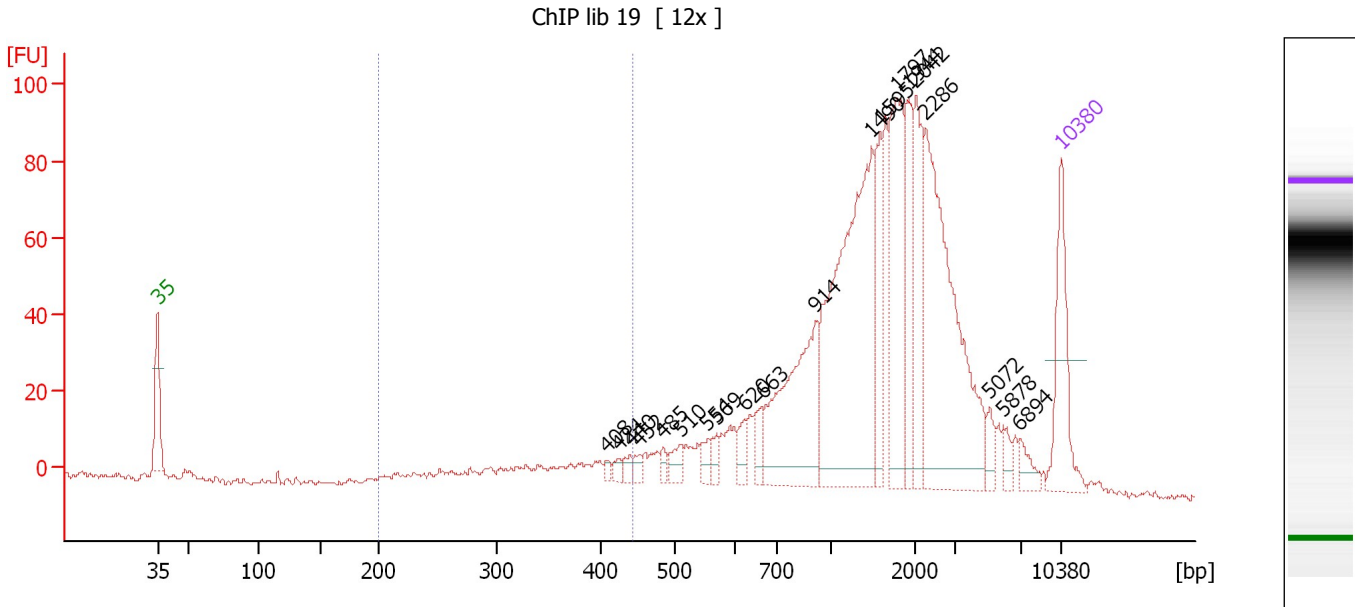
Region table for sample 9 : ChIP lib 18

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	447	388	83.5	443.9	112.27	8	9.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : ChIP lib 19

Number of peaks found: 20 Corr. Area 1: 87.7
 Noise: 0.6

Peak table for sample 10 : ChIP lib 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	408	5.52	20.5		77.80
3	424	7.73	27.6		78.70
4	440	9.57	33.0		79.61
5	452	8.23	27.6		80.33
6	485	8.36	26.1		82.19
7	510	17.38	51.6		83.54
8	554	14.15	38.7		85.62
9	569	11.11	29.6		86.30
10	620	15.86	38.8		88.43
11	663	20.81	47.5		89.83
12	914	165.20	273.7		93.95
13	1,490	320.71	326.2		98.29
14	1,595	59.19	56.2		98.97
15	1,797	134.39	113.3		100.29
16	1,944	66.17	51.6		101.24
17	2,042	81.73	60.6		101.73
18	2,286	256.14	169.8		102.50
19	5,072	13.92	4.2		107.43
20	5,878	11.45	3.0		108.48
21	6,894	14.08	3.1		109.79
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 PM

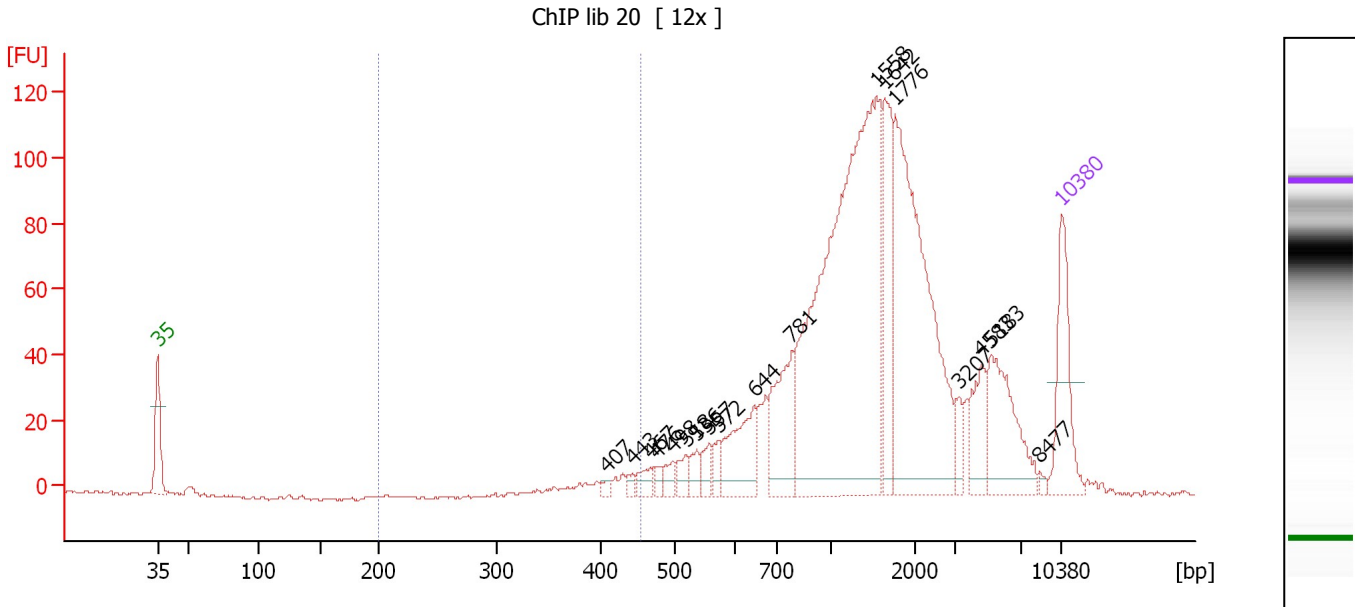
Electropherogram Summary Continued ...**... Region table for sample 10 : ChIP lib 19**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	444	349	87.7	614.5	■ 134.46	7	17.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : ChIP lib 20

Number of peaks found: 18 Corr. Area 1: 22.1
 Noise: 0.5

Peak table for sample 11 : ChIP lib 20

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	407	6.27	23.3		77.73
3	443	6.80	23.3		79.78
4	467	16.58	53.7		81.19
5	476	9.81	31.2		81.69
6	498	13.97	42.6		82.92
7	518	18.25	53.4		83.92
8	536	16.68	47.2		84.74
9	557	17.23	46.9		85.75
10	572	14.62	38.7		86.48
11	644	78.74	185.2		89.21
12	781	95.30	184.9		92.13
13	1,558	589.78	573.6		98.74
14	1,642	102.79	94.8		99.28
15	1,776	330.40	281.9		100.15
16	3,207	16.98	8.0		105.02
17	4,583	46.01	15.2		106.80
18	5,183	93.89	27.4		107.58
19	8,477	3.57	0.6		111.27
20	10,380	75.00	10.9	Upper Marker	113.00

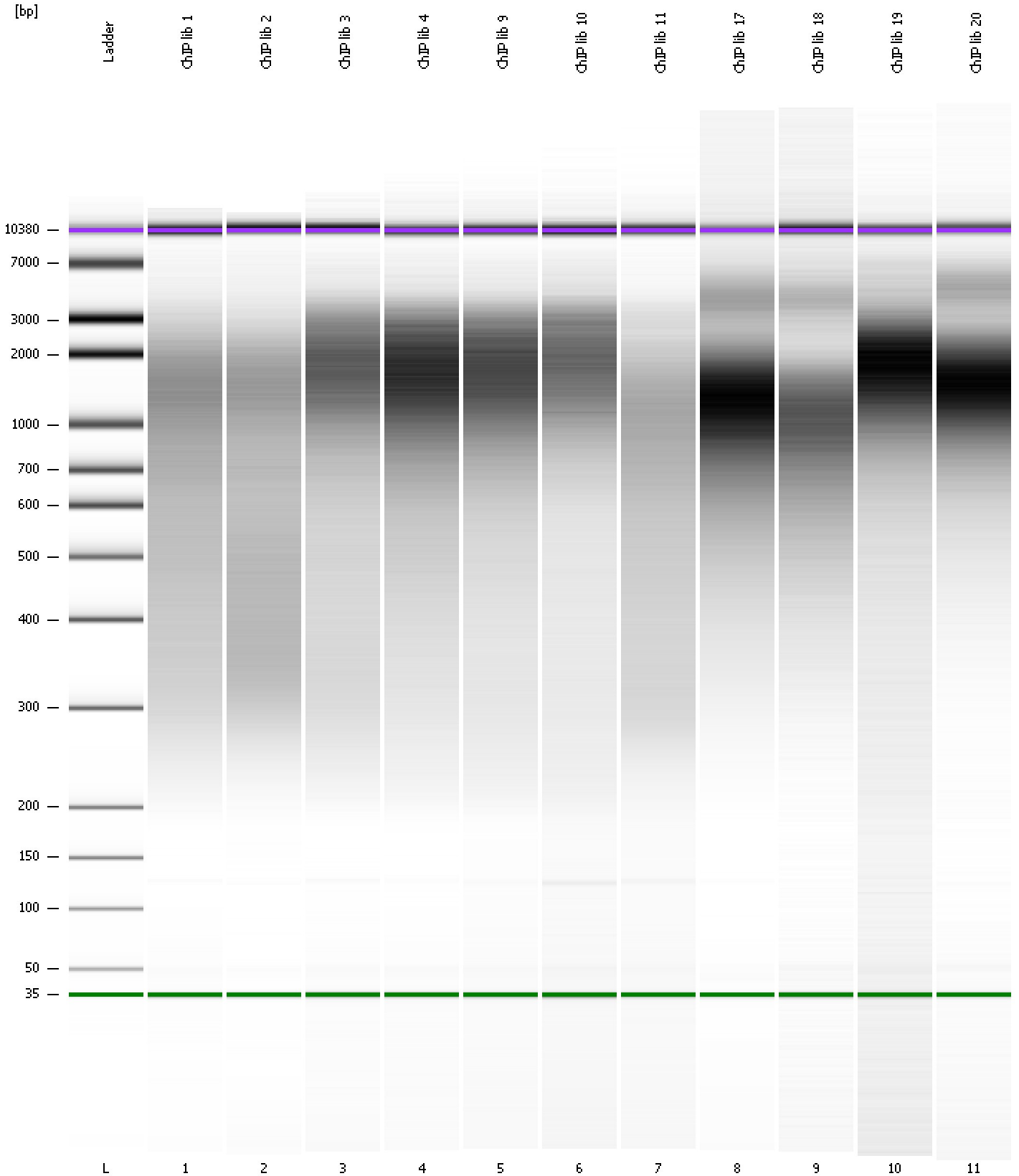
Region table for sample 11 : ChIP lib 20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	455	416	22.1	106.2	29.06	2	6.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
Modified: 10/10/2016 2:29:53 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-10\2016-10-10_001.xad

Created: 10/10/2016 12:52:03 PM
 Modified: 10/10/2016 2:29:53 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		10/10/2016 1:33:21 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\2016-10-10\2016-10-10_001.xad)		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/10/2016 12:52:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1