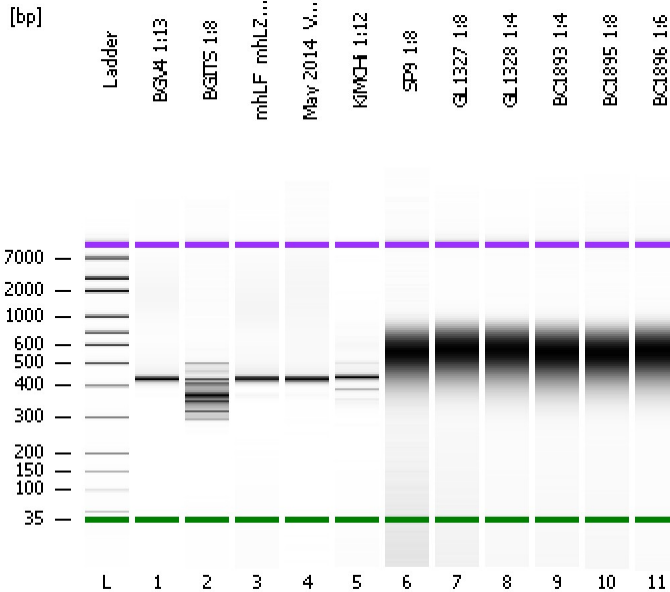


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electrophoresis File Run Summary



Instrument Information:

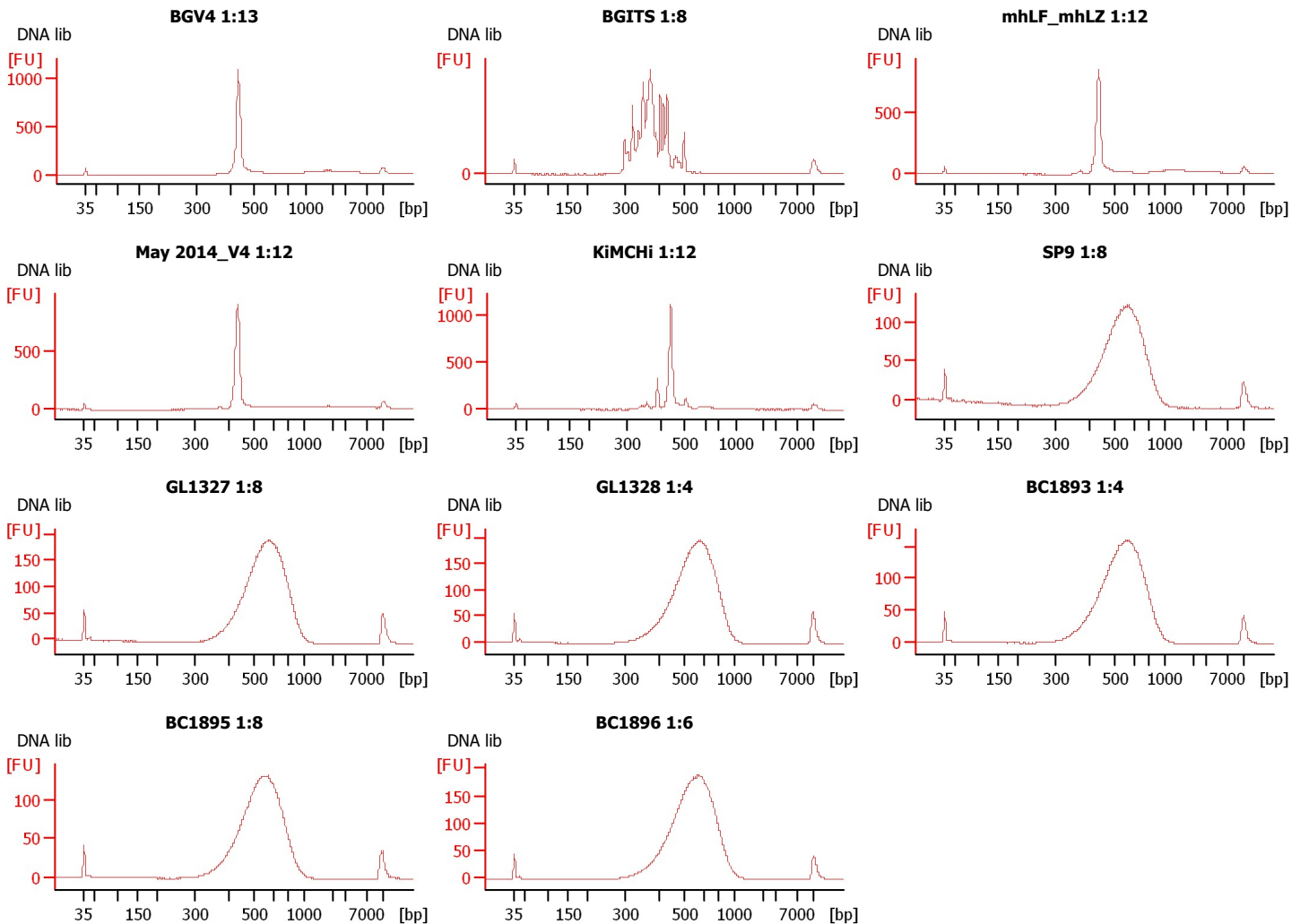
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BGV4 1:13	DNA lib	<input type="checkbox"/>	✓			
BGITS 1:8	DNA lib	<input type="checkbox"/>	✓			
mhLF_mhLZ 1:12	DNA lib	<input type="checkbox"/>	✓			
May 2014_V4 1:12	DNA lib	<input type="checkbox"/>	✓			
KimChi 1:12	DNA lib	<input type="checkbox"/>	✓			
SP9 1:8	DNA lib	<input type="checkbox"/>	✓			
GL1327 1:8	DNA lib	<input type="checkbox"/>	✓			
GL1328 1:4	DNA lib	<input type="checkbox"/>	✓			
BC1893 1:4	DNA lib	<input type="checkbox"/>	✓			
BC1895 1:8	DNA lib	<input type="checkbox"/>	✓			
BC1896 1:6	DNA 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\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
Modified: 6/19/2014 10:35:25 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

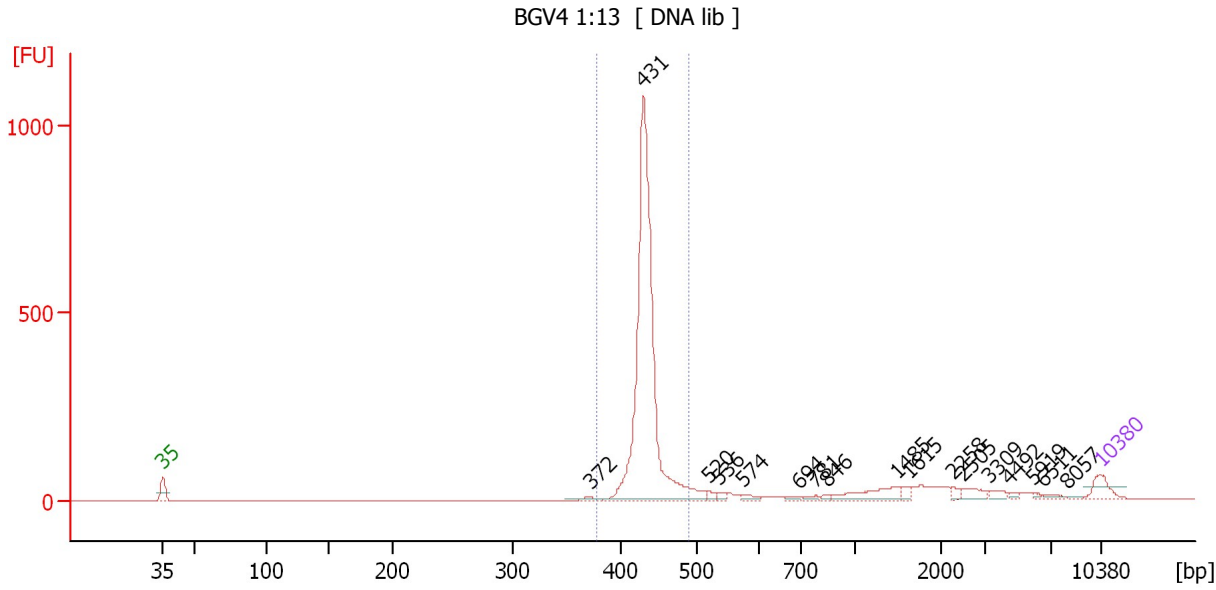
Ladder

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\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
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Electropherogram Summary



Overall Results for sample 1 : BGV4 1:13

Number of peaks found: 17 Corr. Area 1: 1,795.3
 Noise: 0.2

Peak table for sample 1 : BGV4 1:13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	372	24.85	101.3	
3	431	2,272.30	7,995.0	
4	520	23.97	69.8	
5	536	20.47	57.9	
6	574	26.26	69.4	
7	694	15.84	34.6	
8	781	17.86	34.7	
9	846	10.72	19.2	
10	1,485	120.89	123.4	
11	1,615	27.24	25.6	
12	2,258	20.52	13.8	
13	2,505	48.30	29.2	
14	3,309	28.82	13.2	
15	4,492	14.47	4.9	
16	5,919	8.87	2.3	
17	6,511	17.37	4.0	
18	8,057	7.28	1.4	
19	10,380	75.00	10.9	Upper Marker

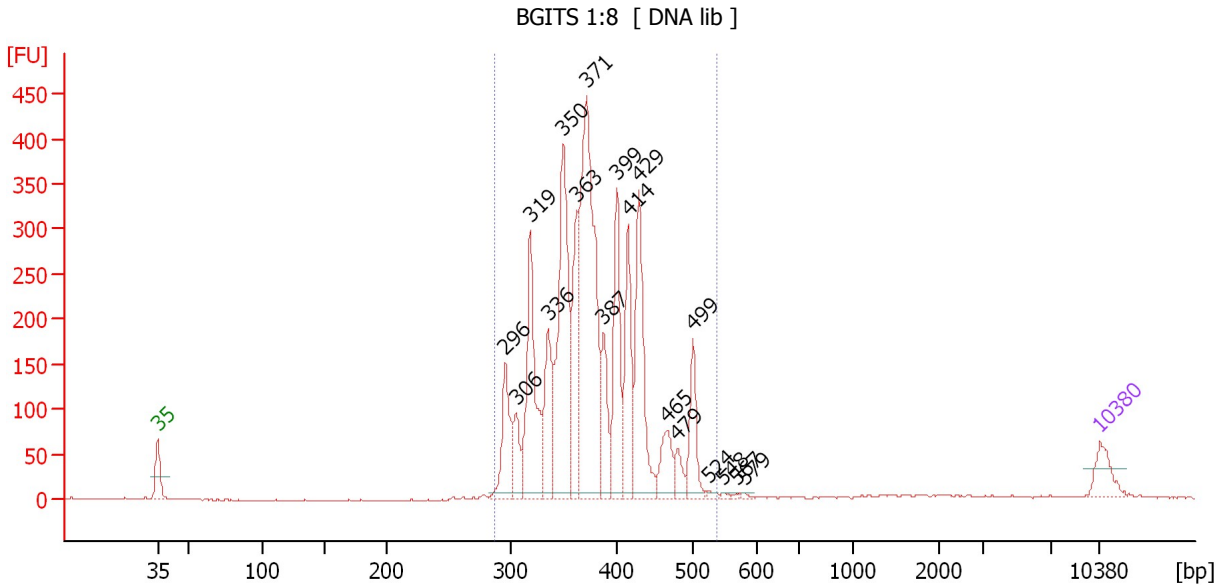
Region table for sample 1 : BGV4 1:13

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
378	491	434	7,618.3	2,181.73	1,795.3	74	3.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BGITS 1:8

Number of peaks found: 18 Corr. Area 1: 3,380.2
 Noise: 0.9

Peak table for sample 2 : BGITS 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	296	241.25	1,233.4	
3	306	125.86	623.7	
4	319	475.60	2,258.9	
5	336	264.77	1,193.7	
6	350	712.85	3,087.3	
7	363	320.43	1,339.2	
8	371	1,054.83	4,304.0	
9	387	195.17	763.5	
10	399	350.06	1,327.9	
11	414	286.84	1,049.9	
12	429	435.72	1,539.9	
13	465	130.06	423.6	
14	479	62.99	199.2	
15	499	168.68	511.7	
16	524	10.76	31.1	
17	548	6.22	17.2	
18	567	4.22	11.3	
19	579	5.76	15.1	
20	10,380	75.00	10.9	Upper Marker

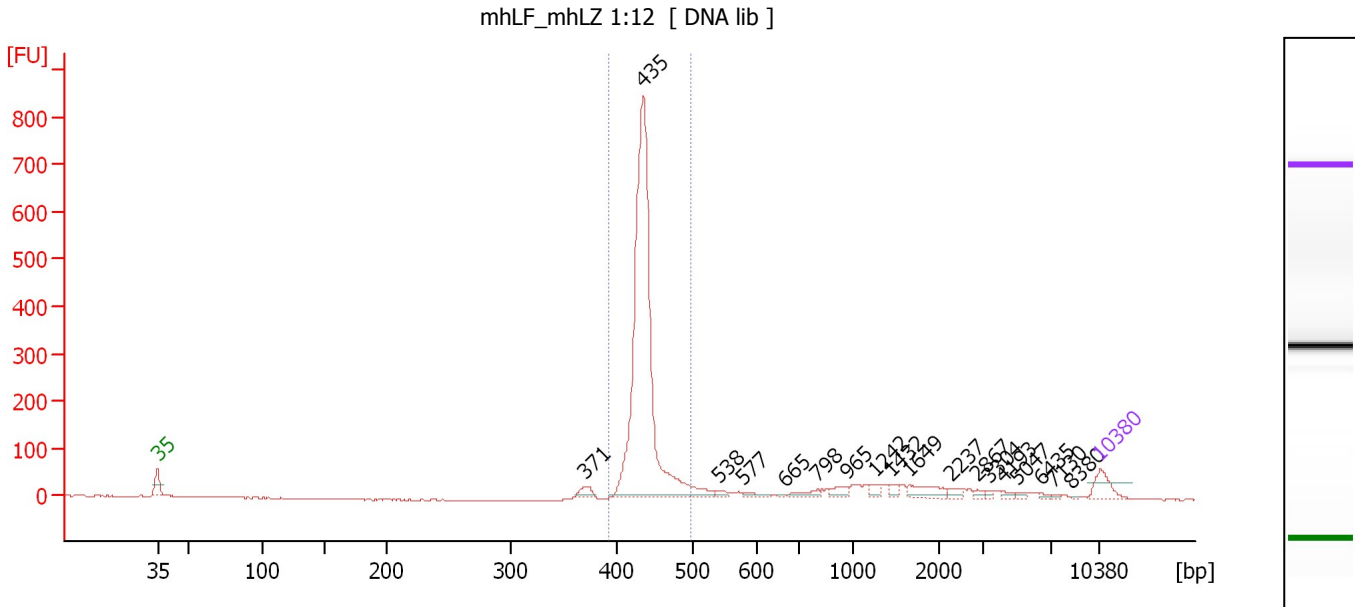
Region table for sample 2 : BGITS 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
288	537	379	19,628.1	4,819.47	3,380.2	98	12.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : mhLF_mhLZ 1:12

Number of peaks found: 18 Corr. Area 1: 1,504.4
 Noise: 0.9

Peak table for sample 3 : mhLF_mhLZ 1:12

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	371	45.66	186.7	
3	435	2,258.41	7,874.5	
4	538	20.19	56.8	
5	577	26.13	68.6	
6	665	6.49	14.8	
7	798	42.70	81.0	
8	965	42.63	66.9	
9	1,242	31.77	38.7	
10	1,432	25.11	26.6	
11	1,649	80.43	73.9	
12	2,237	23.72	16.1	
13	2,867	15.09	8.0	
14	3,304	9.39	4.3	
15	4,193	12.87	4.7	
16	5,047	12.63	3.8	
17	6,435	8.45	2.0	
18	7,130	5.54	1.2	
19	8,380	2.58	0.5	
20	10,380	75.00	10.9	Upper Marker

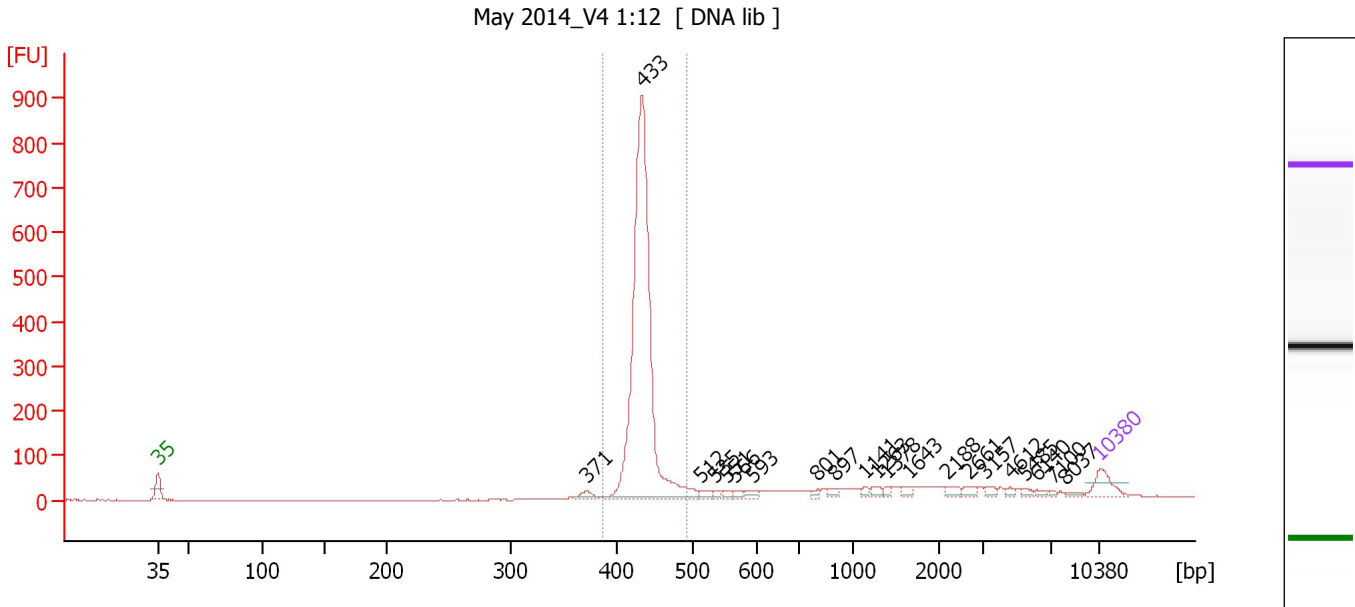
Region table for sample 3 : mhLF_mhLZ 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
392	496	435	7,654.7	2,197.49	1,504.4	74	3.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : May 2014 V4 1:12

Number of peaks found: 21 Corr. Area 1: 1,637.5
 Noise: 0.9

Peak table for sample 4 : May 2014 V4 1:12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	371	30.72	125.3	
3	433	2,046.28	7,167.8	
4	512	24.58	72.7	
5	535	15.73	44.6	
6	551	15.47	42.5	
7	566	17.42	46.7	
8	593	21.82	55.8	
9	801	14.92	28.2	
10	897	17.99	30.4	
11	1,141	14.19	18.8	
12	1,263	22.03	26.4	
13	1,378	14.41	15.8	
14	1,643	19.27	17.8	
15	2,188	26.88	18.6	
16	2,661	23.53	13.4	
17	3,157	18.20	8.7	
18	4,612	11.43	3.8	
19	5,485	14.32	4.0	
20	6,140	13.40	3.3	
21	7,100	7.19	1.5	
22	8,037	12.04	2.3	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...

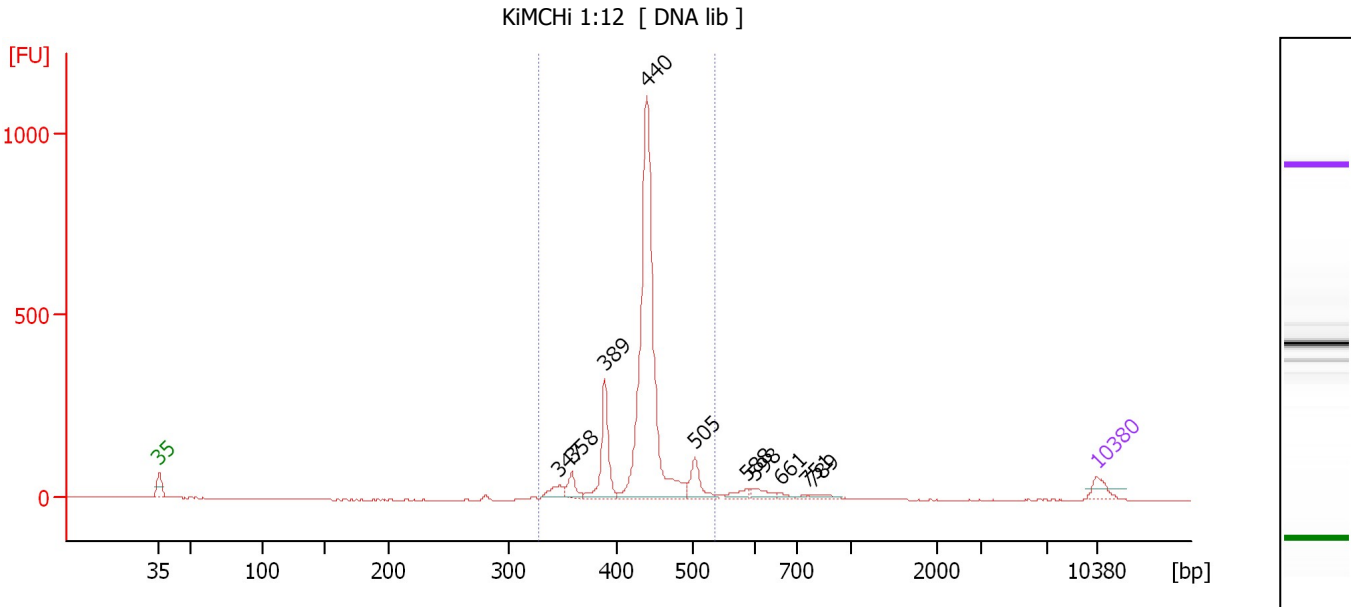
... Region table for sample 4 : May 2014 V4 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
387	491	433	7,055.2	2,016.26	1,637.5	73	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KiMCHi 1:12

Number of peaks found: 10 Corr. Area 1: 2,075.5
 Noise: 1.3

Peak table for sample 5 : KiMCHi 1:12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	347	90.22	394.4	
3	358	105.61	446.6	
4	389	409.19	1,592.4	
5	440	2,347.49	8,078.0	
6	505	178.99	537.4	
7	588	54.26	139.9	
8	598	66.46	168.3	
9	661	21.20	48.6	
10	751	10.40	21.0	
11	789	32.30	62.0	
12	10,380	75.00	10.9	Upper Marker

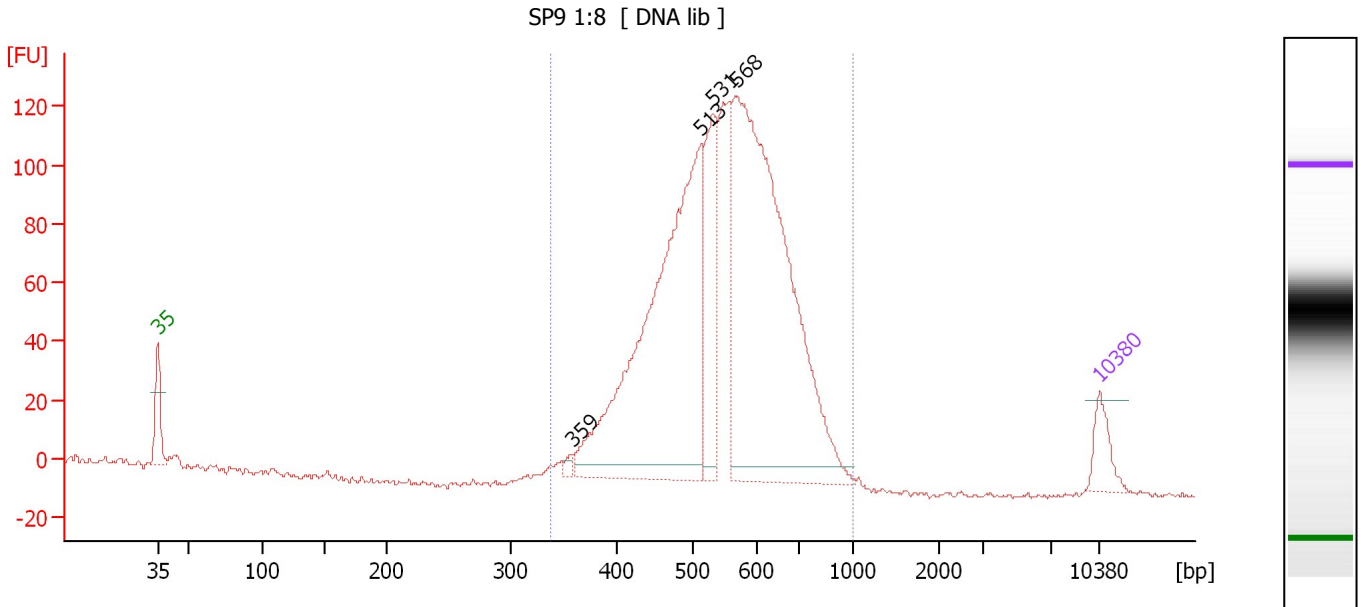
Region table for sample 5 : KiMCHi 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
328	536	434	10,953.3	3,116.37	2,075.5	93	7.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SP9 1:8

Number of peaks found: 4 Corr. Area 1: 1,662.4
 Noise: 0.8

Peak table for sample 6 : SP9 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	359	19.76	83.4	
3	513	1,601.81	4,730.1	
4	531	403.41	1,150.9	
5	568	1,787.04	4,766.2	
6	10,380	75.00	10.9	Upper Marker

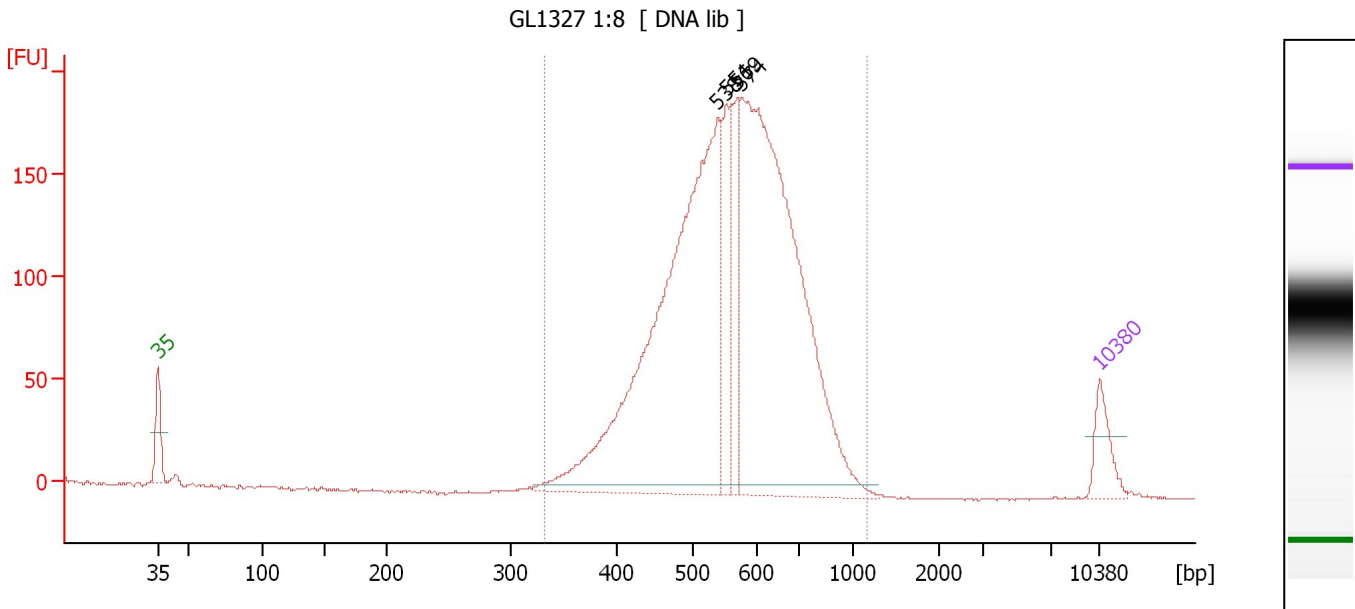
Region table for sample 6 : SP9 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
338	1,000	553	12,032.1	4,215.31	1,662.4	98	18.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GL1327 1:8

Number of peaks found: 4 Corr. Area 1: 2,521.5
 Noise: 0.3

Peak table for sample 7 : GL1327 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	538	1,684.51	4,744.7	
3	551	207.20	569.6	
4	569	238.46	635.5	
5	574	1,629.22	4,303.2	
6	10,380	75.00	10.9	Upper Marker

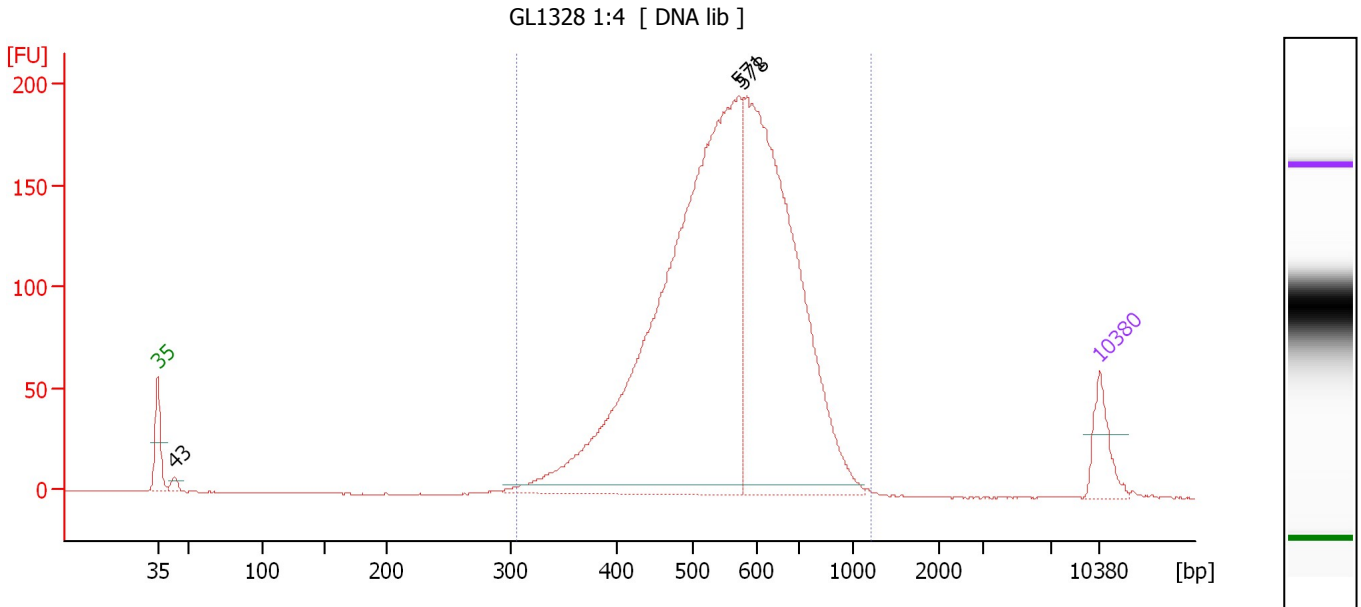
Region table for sample 7 : GL1327 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
333	1,158	571	10,499.0	3,767.62	2,521.5	99	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : GL1328 1:4

Number of peaks found: 3 Corr. Area 1: 2,648.8
 Noise: 0.2

Peak table for sample 8 : GL1328 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	22.77	798.7	
3	571	2,112.73	5,603.8	
4	578	1,420.82	3,721.6	
5	10,380	75.00	10.9	Upper Marker

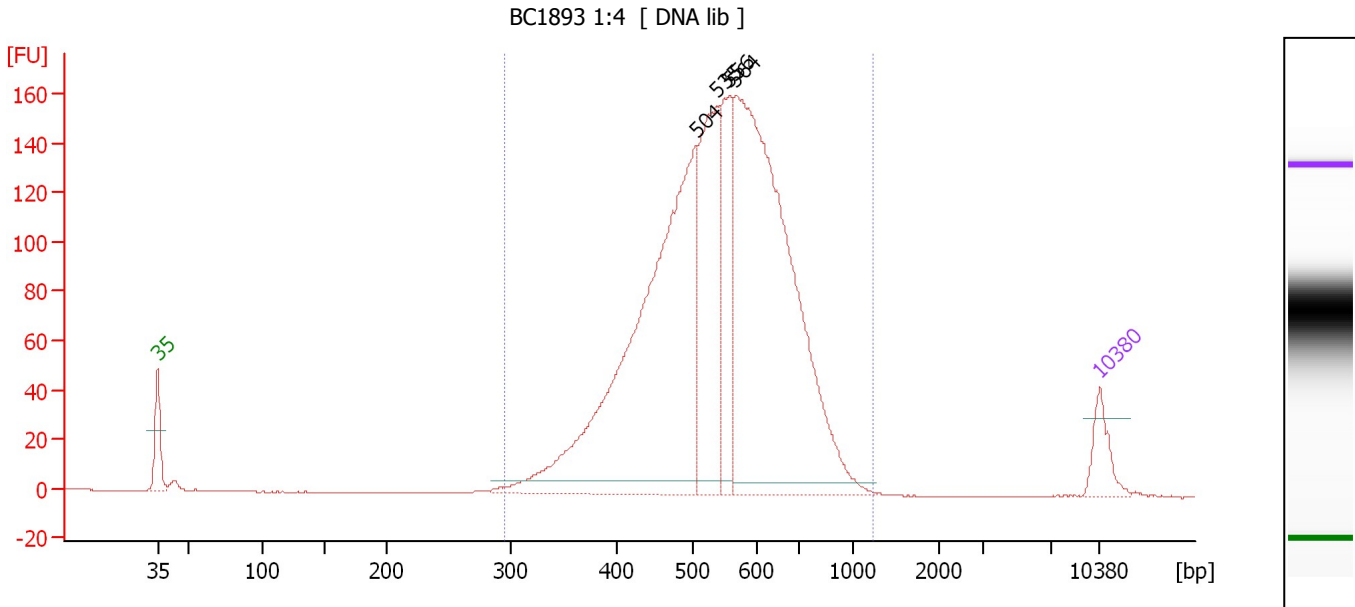
Region table for sample 8 : GL1328 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
306	1,206	564	10,610.8	3,737.33	2,648.8	99	20.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : BC1893 1:4

Number of peaks found: 4 Corr. Area 1: 2,285.9
 Noise: 0.2

Peak table for sample 9 : BC1893 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	504	1,762.08	5,297.8	
3	535	596.95	1,689.8	
4	556	342.24	932.5	
5	564	1,784.10	4,789.1	
6	10,380	75.00	10.9	Upper Marker

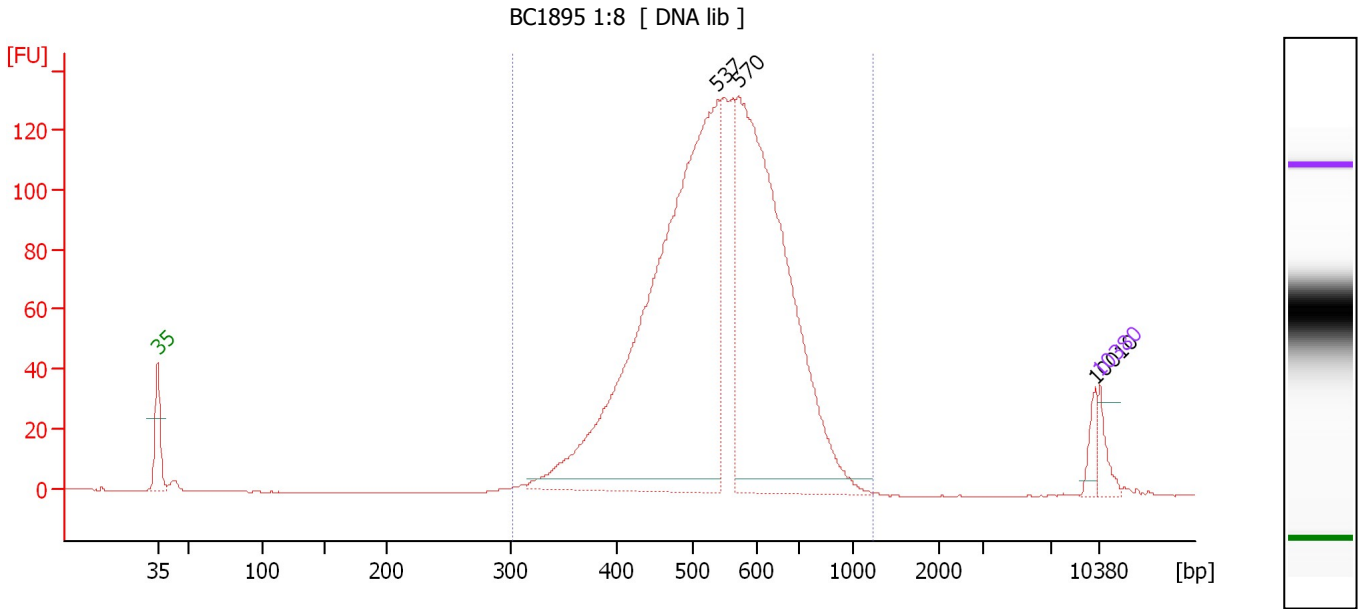
Region table for sample 9 : BC1893 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
297	1,218	549	13,278.7	4,551.41	2,285.9	99	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : BC1895 1:8

Number of peaks found: 3 Corr. Area 1: 1,794.8
 Noise: 0.2

Peak table for sample 10 : BC1895 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	537	3,728.91	10,516.0	
3	570	2,768.88	7,362.4	
4	10,010	61.16	9.3	
5	10,380	75.00	10.9	Upper Marker

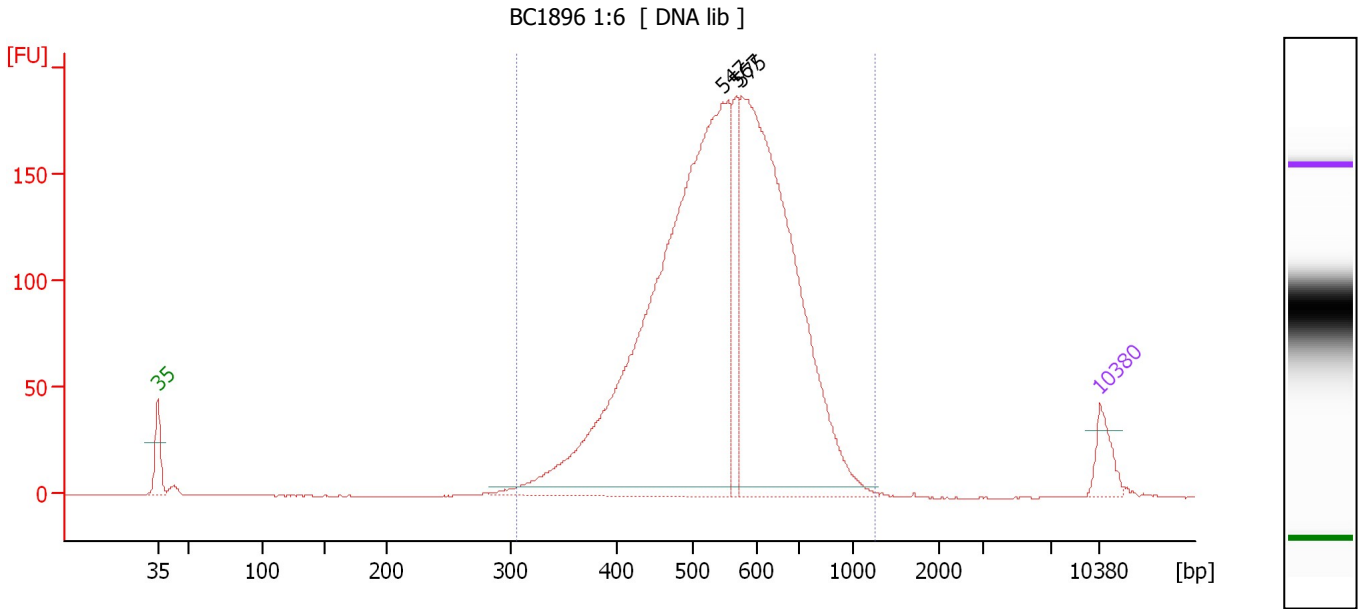
Region table for sample 10 : BC1895 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
303	1,213	547	21,743.2	7,468.08	1,794.8	97	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
 Modified: 6/19/2014 10:35:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BC1896 1:6

Number of peaks found: 3 Corr. Area 1: 2,594.2
 Noise: 0.1

Peak table for sample 11 : BC1896 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	547	2,883.73	7,994.9	
3	567	283.41	757.6	
4	575	2,028.17	5,341.1	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : BC1896 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
307	1,238	557	15,506.3	5,386.19	2,594.2	98	21.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_001.xad

Created: 6/19/2014 9:52:54 AM
Modified: 6/19/2014 10:35:25 AM

Gel Image

