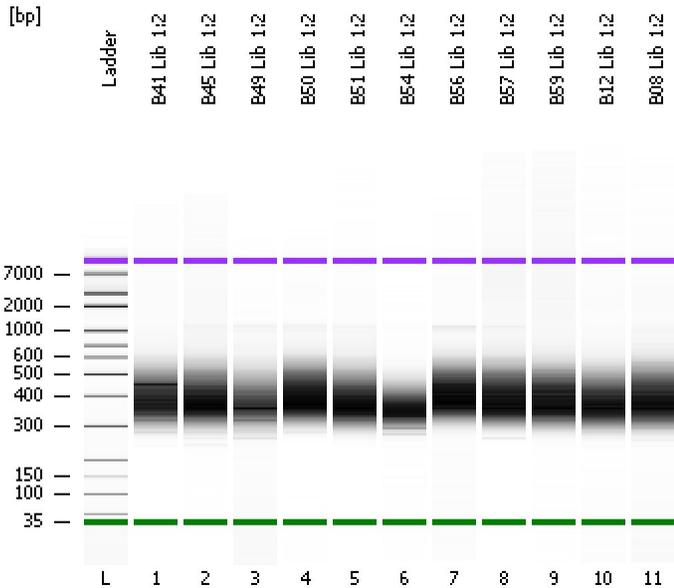


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
Modified: 7/18/2012 2:25:06 PM

Electrophoresis File Run Summary



Instrument Information:

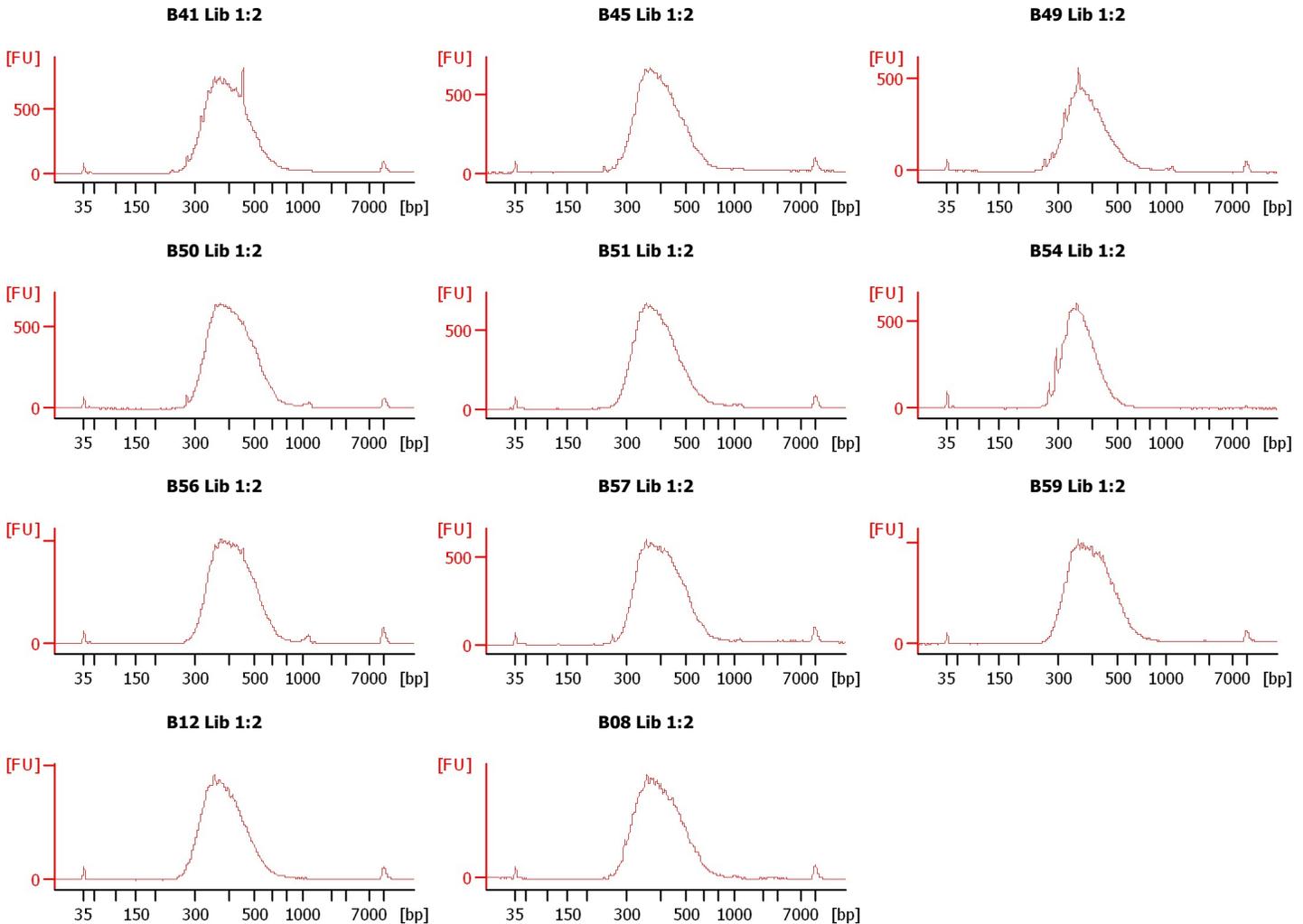
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B41 Lib 1:2		<input type="checkbox"/>	✓			
B45 Lib 1:2		<input type="checkbox"/>	✓			
B49 Lib 1:2		<input type="checkbox"/>	✓			
B50 Lib 1:2		<input type="checkbox"/>	✓			
B51 Lib 1:2		<input type="checkbox"/>	✓			
B54 Lib 1:2		<input type="checkbox"/>	✓			
B56 Lib 1:2		<input type="checkbox"/>	✓			
B57 Lib 1:2		<input type="checkbox"/>	✓			
B59 Lib 1:2		<input type="checkbox"/>	✓			
B12 Lib 1:2		<input type="checkbox"/>	✓			
B08 Lib 1:2		<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\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
Modified: 7/18/2012 2:25:06 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

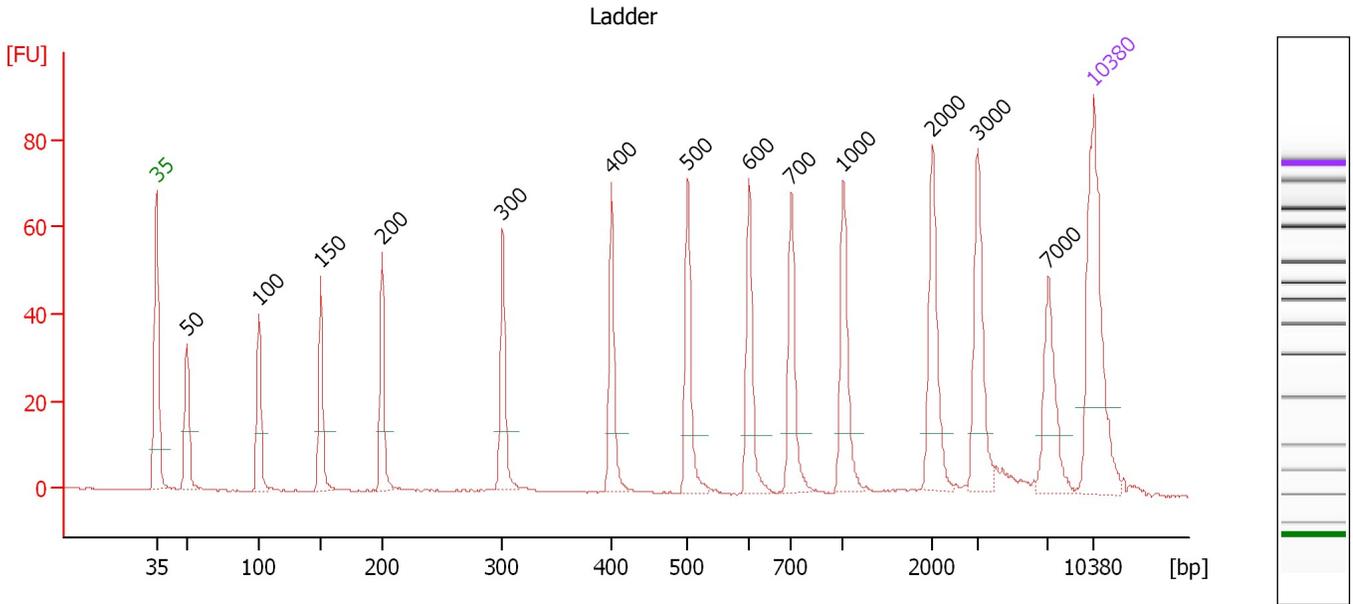
Ladder

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:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

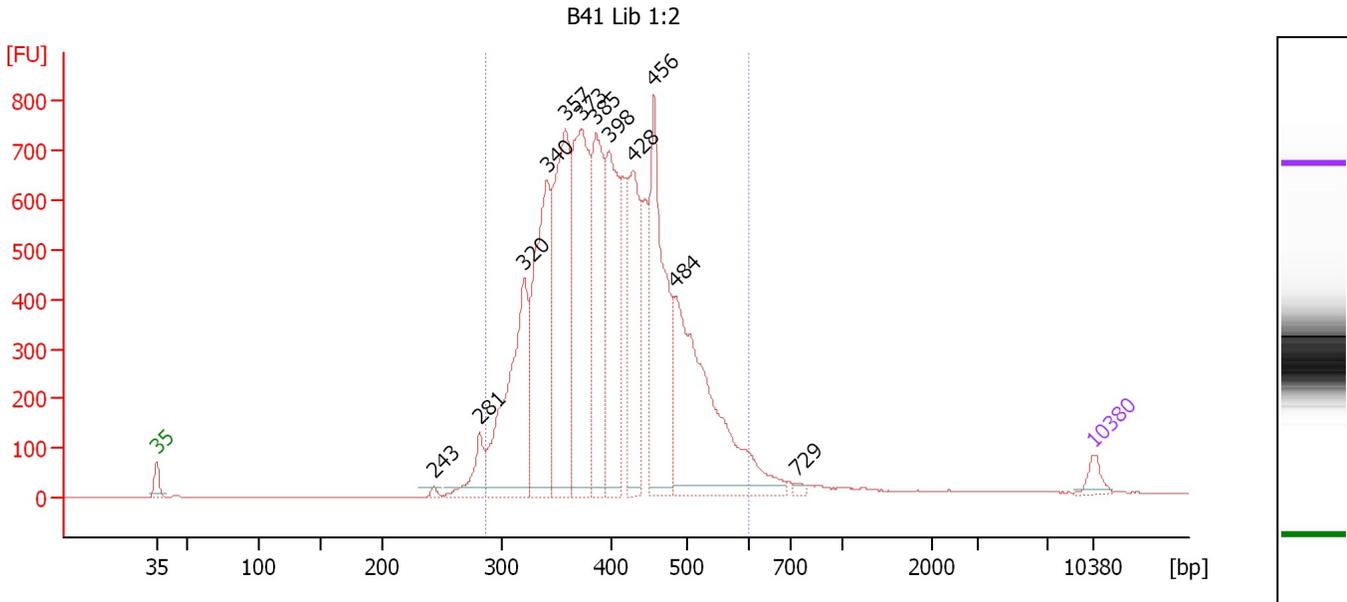
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : B41 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 1 : B41 Lib 1:2

Number of peaks found: 12 Corr. Area 1: 11,895.2
 Noise: 0.2

Peak table for sample 1 : B41 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	30.48	190.0	
3	281	290.60	1,566.0	
4	320	1,599.92	7,583.4	
5	340	1,634.59	7,274.3	
6	357	1,873.07	7,942.2	
7	373	1,890.38	7,688.9	
8	385	1,208.08	4,748.9	
9	398	1,263.14	4,810.9	
10	428	1,162.01	4,110.2	
11	456	1,577.49	5,243.6	
12	484	2,122.83	6,644.3	
13	729	30.15	62.6	
14	10,380	75.00	10.9	Upper Marker

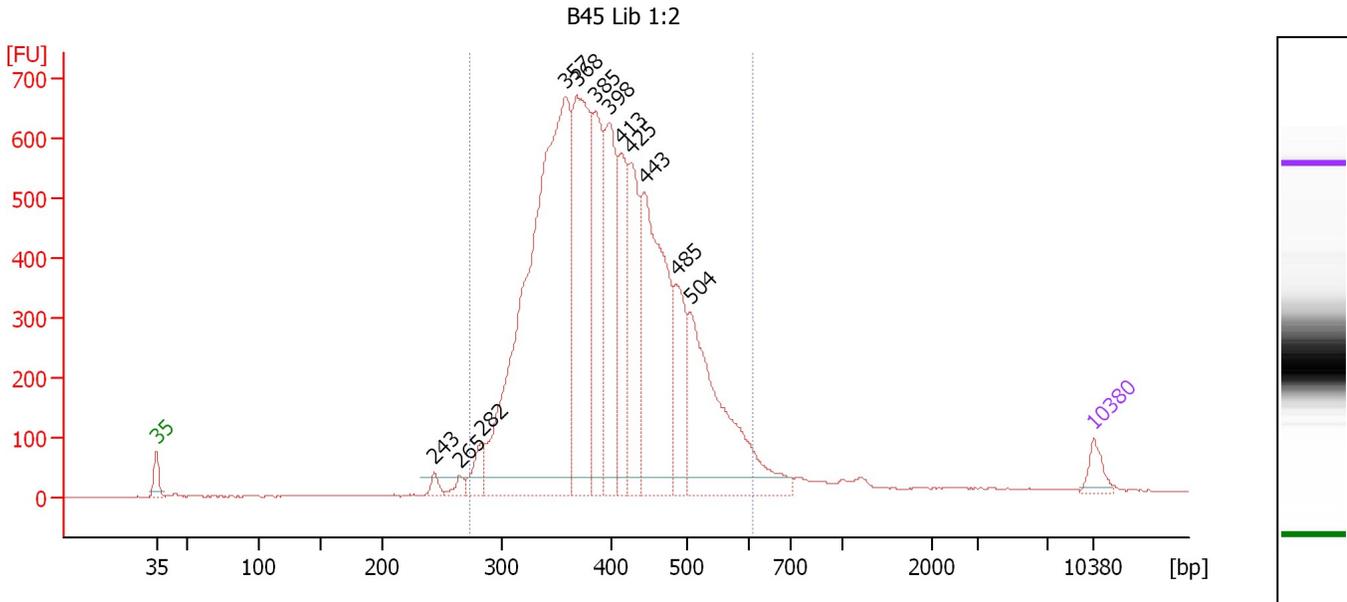
Region table for sample 1 : B41 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	599	404	58,007.8	14,990.13	11,895.2	95	16.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : B45 Lib 1:2

Height Threshold [FU] : 30

Overall Results for sample 2 : B45 Lib 1:2

Number of peaks found: 12 Corr. Area 1: 10,611.5
 Noise: 1.0

Peak table for sample 2 : B45 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	58.35	363.4	
3	265	57.43	328.7	
4	282	155.49	835.6	
5	357	3,905.43	16,559.7	
6	368	1,547.21	6,365.2	
7	385	823.40	3,240.3	
8	398	887.21	3,379.9	
9	413	595.05	2,181.4	
10	425	698.09	2,489.3	
11	443	1,434.98	4,906.4	
12	485	479.19	1,495.8	
13	504	1,258.21	3,778.8	
14	10,380	75.00	10.9	Upper Marker

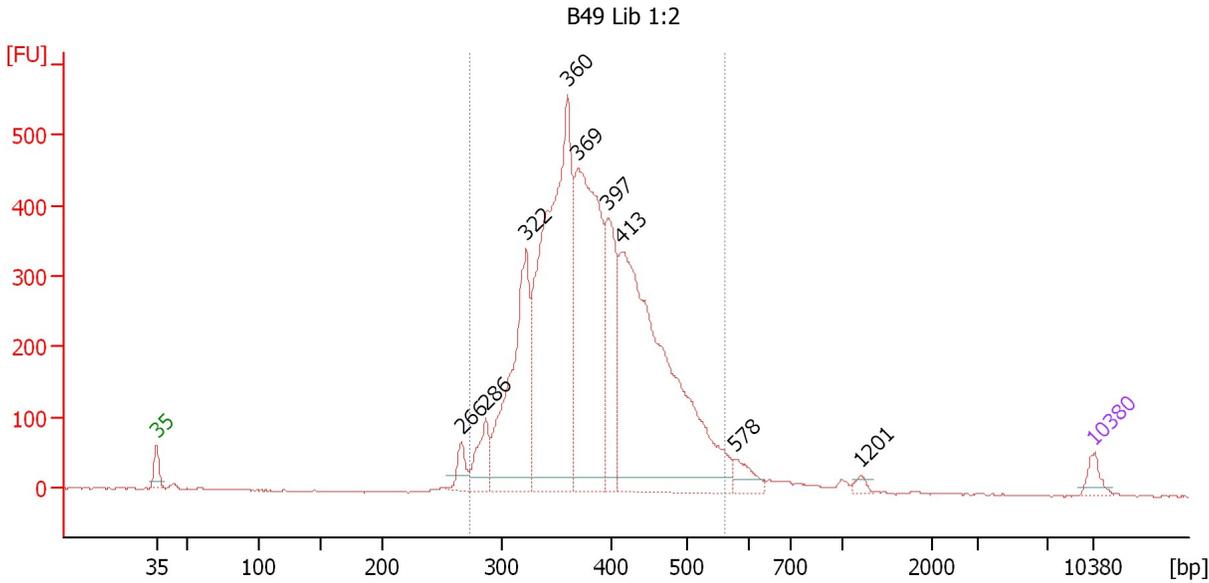
Region table for sample 2 : B45 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
272	607	403	45,538.1	11,686.58	10,611.5	94	17.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : B49 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 3 : B49 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 6,561.4
 Noise: 1.0

Peak table for sample 3 : B49 Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	161.96	923.9	
3	286	331.28	1,756.1	
4	322	1,616.96	7,609.8	
5	360	3,397.83	14,318.6	
6	369	2,488.91	10,221.1	
7	397	880.68	3,364.8	
8	413	3,543.07	13,004.8	
9	578	150.21	393.8	
10	1,201	39.60	50.0	
11	10,380	75.00	10.9	Upper Marker

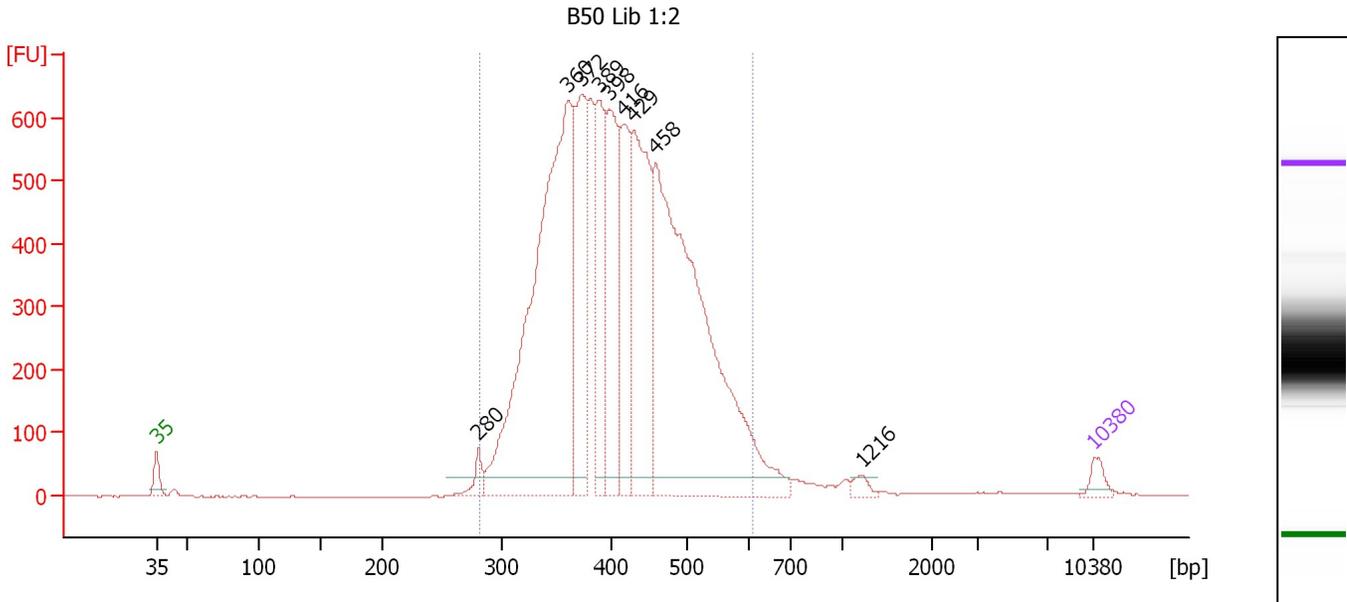
Region table for sample 3 : B49 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
273	562	387	48,846.1	12,133.17	6,561.4	94	15.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : B50 Lib 1:2

Height Threshold [FU] : 30

Overall Results for sample 4 : B50 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 10,362.0
 Noise: 0.7

Peak table for sample 4 : B50 Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	137.81	745.6	
3	360	4,685.05	19,700.0	
4	372	1,306.57	5,315.2	
5	389	993.55	3,871.8	
6	398	1,241.28	4,726.7	
7	416	959.29	3,492.9	
8	429	1,686.08	5,952.6	
9	458	4,566.17	15,109.5	
10	1,216	62.09	77.4	
11	10,380	75.00	10.9	Upper Marker

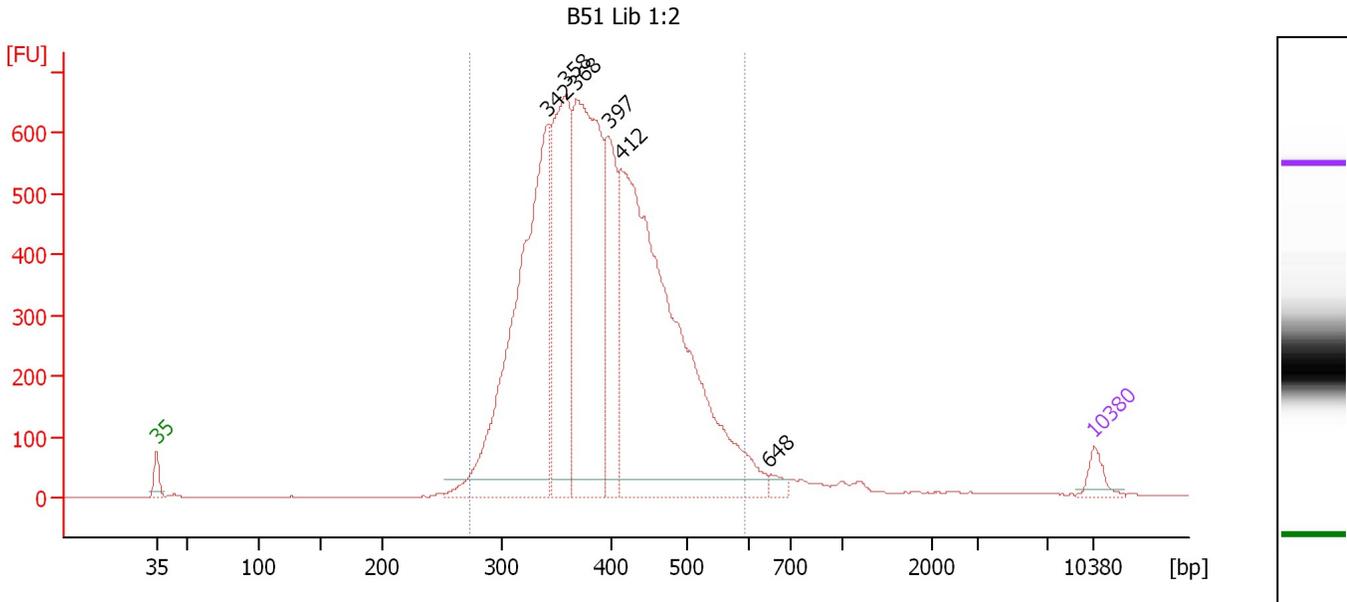
Region table for sample 4 : B50 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
282	609	416	60,319.9	15,973.46	10,362.0	96	16.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : B51 Lib 1:2

Height Threshold [FU] : 30

Overall Results for sample 5 : B51 Lib 1:2

Number of peaks found: 6 Corr. Area 1: 10,094.7
 Noise: 0.7

Peak table for sample 5 : B51 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	342	2,846.73	12,611.2	
3	358	1,557.62	6,583.5	
4	368	2,290.24	9,439.2	
5	397	836.72	3,189.4	
6	412	3,786.87	13,920.8	
7	648	56.53	132.2	
8	10,380	75.00	10.9	Upper Marker

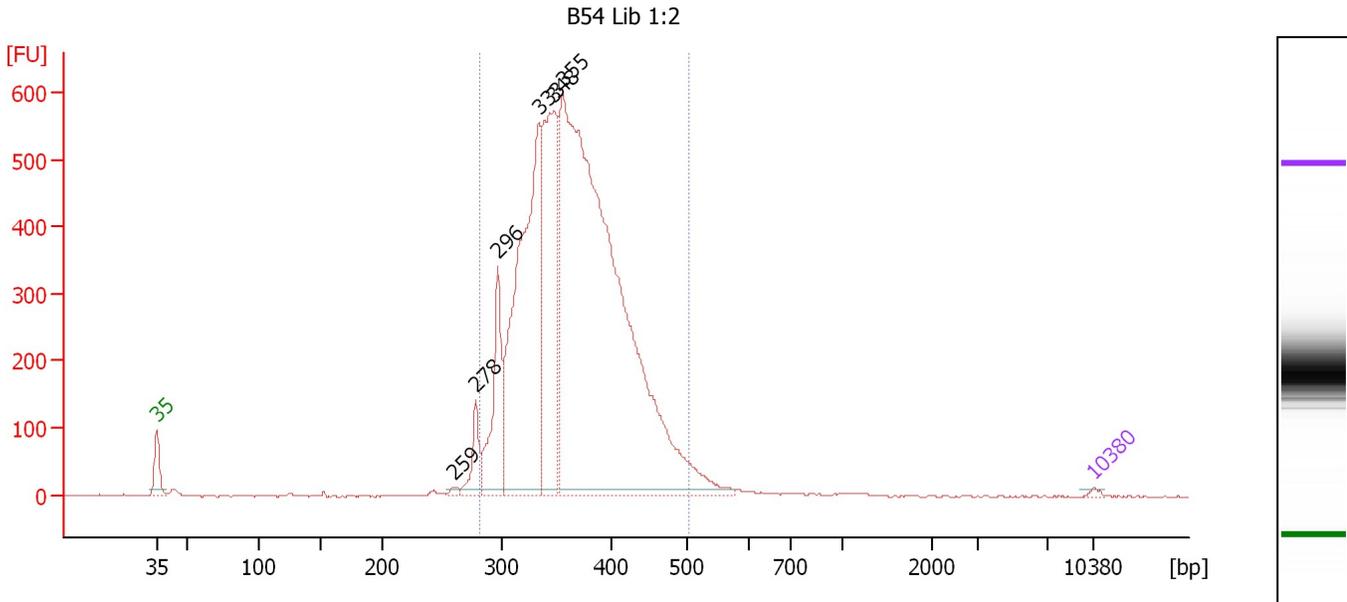
Region table for sample 5 : B51 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
273	592	395	44,016.8	11,097.01	10,094.7	95	16.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : B54 Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 6 : B54 Lib 1:2

Number of peaks found: 6 Corr. Area 1: 6,856.1
 Noise: 0.9

Peak table for sample 6 : B54 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	156.66	915.6	
3	278	1,451.66	7,917.2	
4	296	4,268.55	21,864.8	
5	333	15,439.95	70,201.0	
6	348	9,511.65	41,469.0	
7	355	41,563.32	177,403.7	
8	10,380	75.00	10.9	Upper Marker

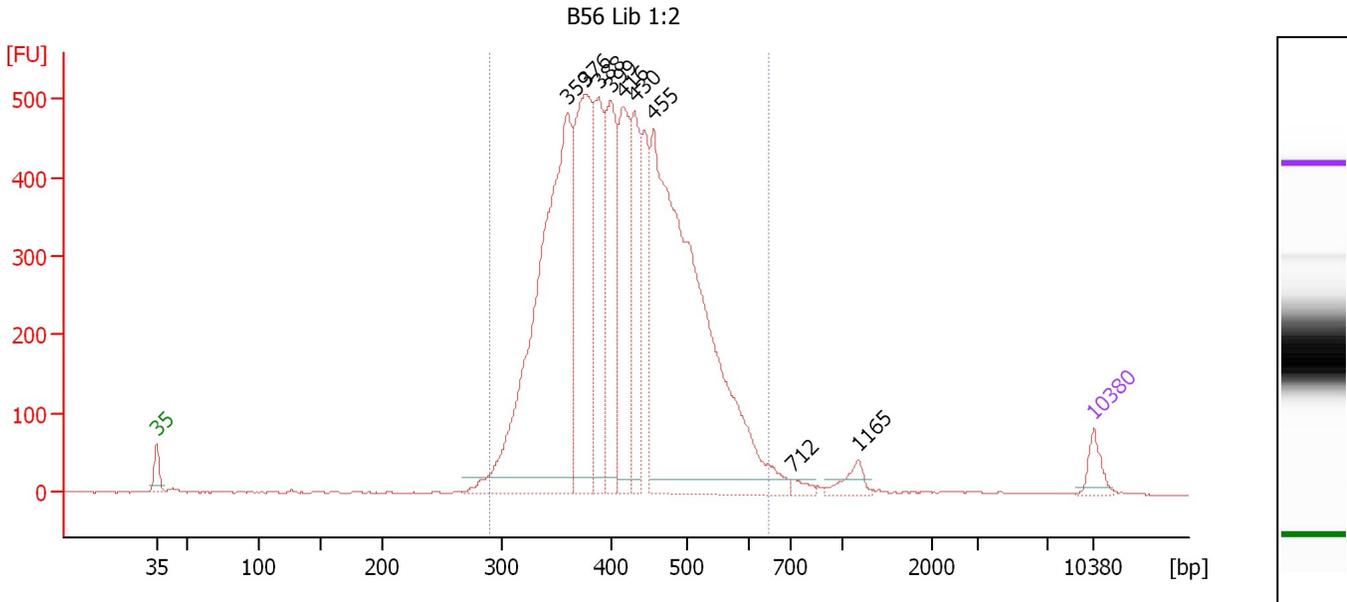
Region table for sample 6 : B54 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
281	502	366	286,304.9	68,038.98	6,856.1	95	12.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : B56 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 7 : B56 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 8,061.5
 Noise: 0.7

Peak table for sample 7 : B56 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	359	2,626.26	11,078.5	
3	376	1,310.19	5,285.7	
4	388	682.46	2,663.9	
5	399	777.32	2,952.7	
6	416	718.54	2,619.6	
7	430	620.24	2,185.1	
8	455	3,211.65	10,684.8	
9	712	40.48	86.2	
10	1,165	79.51	103.4	
11	10,380	75.00	10.9	Upper Marker

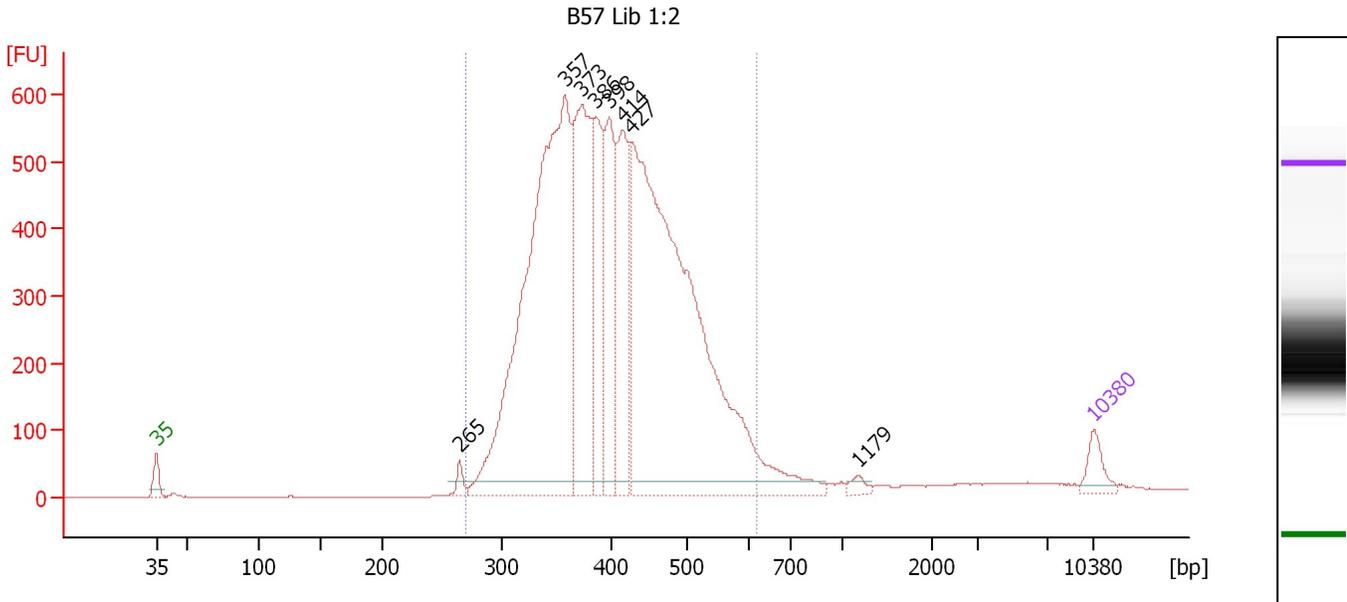
Region table for sample 7 : B56 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
289	646	422	38,234.1	10,279.52	8,061.5	96	16.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : B57 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 8 : B57 Lib 1:2

Number of peaks found: 8 Corr. Area 1: 9,587.9
 Noise: 0.6

Peak table for sample 8 : B57 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	44.17	252.8	
3	357	3,027.79	12,847.6	
4	373	1,091.87	4,435.4	
5	386	536.85	2,108.9	
6	398	616.06	2,346.5	
7	414	625.48	2,288.0	
8	427	3,391.49	12,034.3	
9	1,179	30.25	38.9	
10	10,380	75.00	10.9	Upper Marker

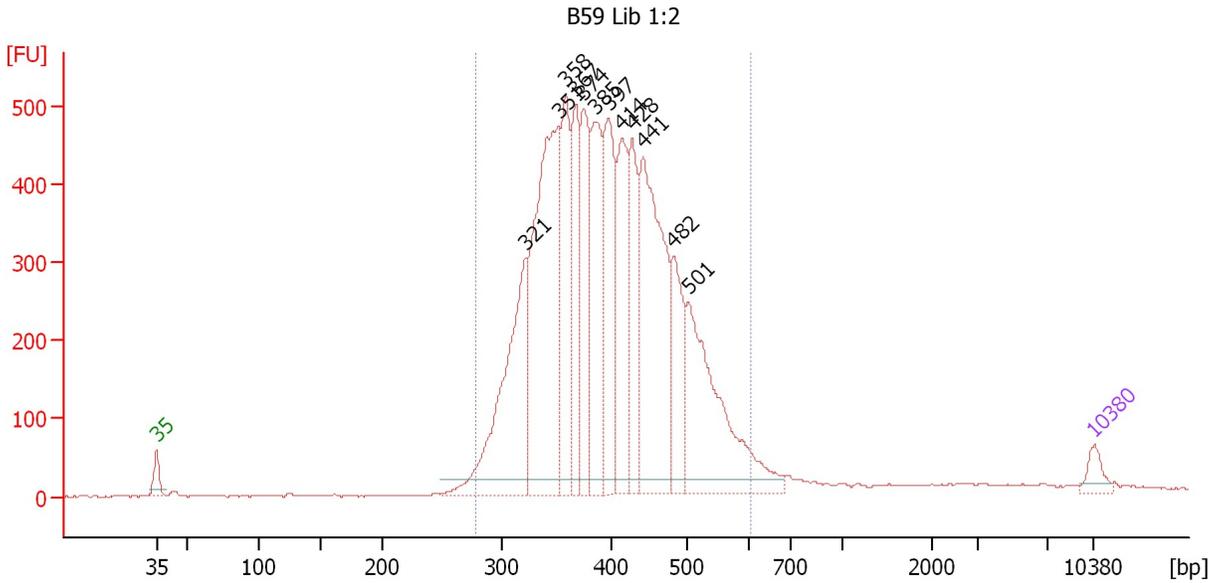
Region table for sample 8 : B57 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
269	616	409	35,289.4	9,180.67	9,587.9	94	17.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : B59 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 9 : B59 Lib 1:2

Number of peaks found: 12 Corr. Area 1: 7,996.6
 Noise: 1.1

Peak table for sample 9 : B59 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	321	1,474.07	6,954.4	
3	351	2,086.92	9,001.9	
4	358	862.53	3,653.9	
5	367	682.57	2,815.9	
6	374	716.94	2,902.0	
7	385	880.70	3,469.8	
8	397	887.12	3,382.5	
9	414	794.78	2,910.7	
10	428	643.10	2,279.2	
11	441	1,643.12	5,641.2	
12	482	551.11	1,733.1	
13	501	1,322.89	3,997.6	
14	10,380	75.00	10.9	Upper Marker

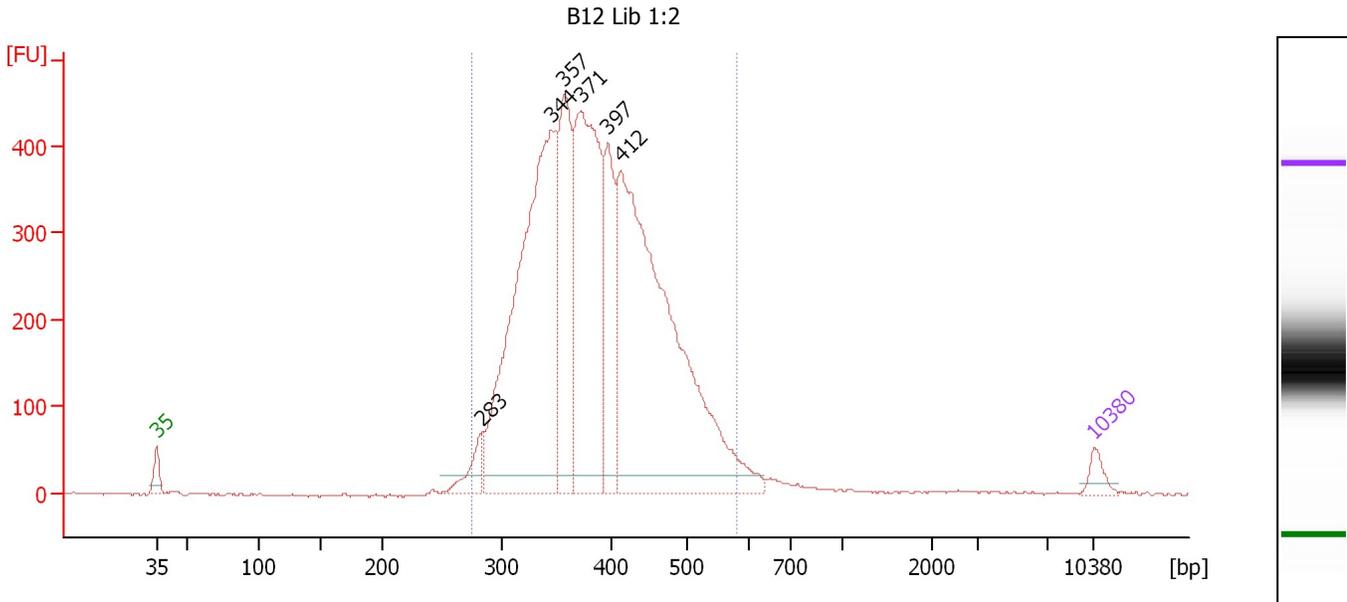
Region table for sample 9 : B59 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
278	605	403	47,950.2	12,327.53	7,996.6	94	16.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : B12 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 10 : B12 Lib 1:2

Number of peaks found: 6 Corr. Area 1: 6,665.9
 Noise: 1.2

Peak table for sample 10 : B12 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	233.25	1,249.2	
3	344	3,816.72	16,793.7	
4	357	1,368.29	5,813.5	
5	371	2,376.27	9,692.8	
6	397	858.10	3,278.1	
7	412	4,221.31	15,530.4	
8	10,380	75.00	10.9	Upper Marker

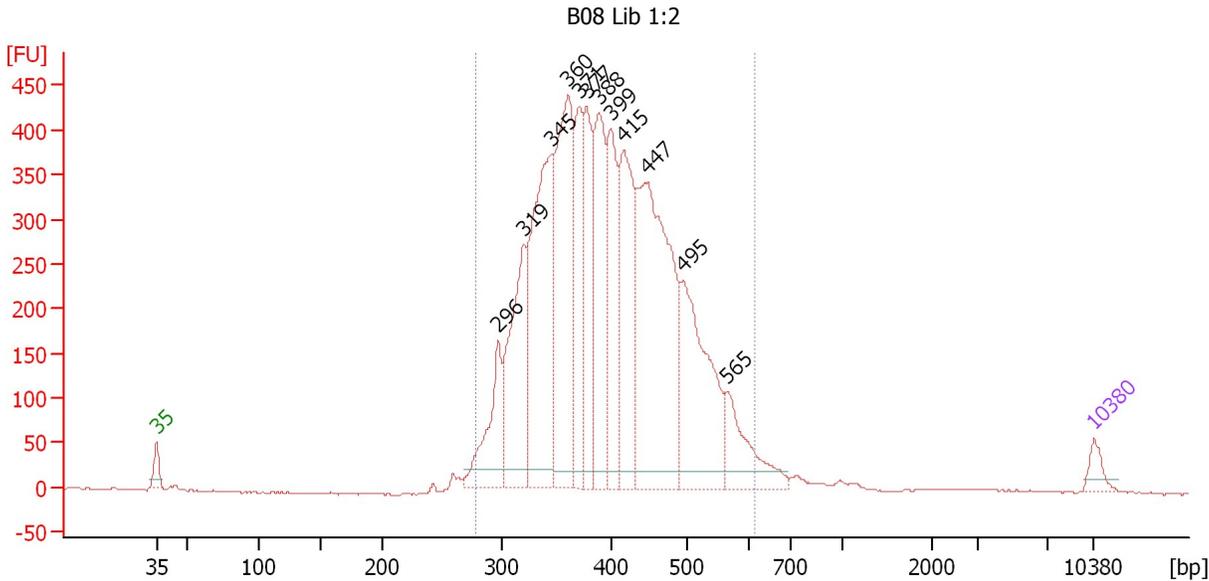
Region table for sample 10 : B12 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
275	581	391	50,709.0	12,676.48	6,665.9	95	16.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
 Modified: 7/18/2012 2:25:06 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : B08 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 11 : B08 Lib 1:2

Number of peaks found: 12 Corr. Area 1: 6,954.5
 Noise: 0.7

Peak table for sample 11 : B08 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	296	623.31	3,188.6	
3	319	1,118.20	5,307.1	
4	345	1,872.53	8,216.3	
5	360	1,628.31	6,847.5	
6	371	755.69	3,088.5	
7	377	791.08	3,177.3	
8	388	1,025.87	4,002.8	
9	399	849.64	3,228.5	
10	415	1,109.36	4,049.8	
11	447	2,327.89	7,892.8	
12	495	1,275.71	3,907.8	
13	565	457.24	1,226.1	
14	10,380	75.00	10.9	Upper Marker

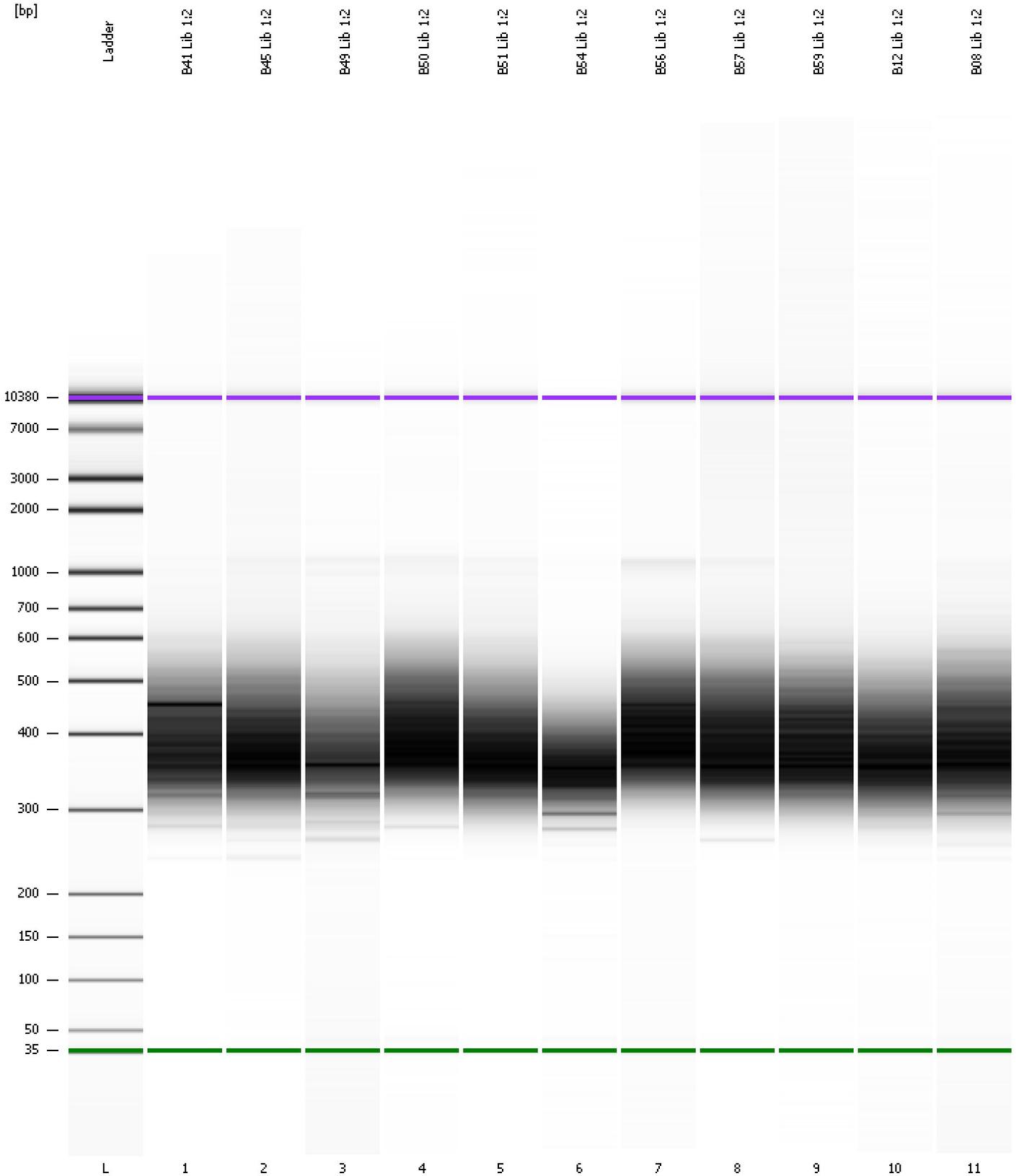
Region table for sample 11 : B08 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
278	611	404	53,650.5	13,775.88	6,954.5	96	17.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
Modified: 7/18/2012 2:25:06 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_004.xad

Created: 7/18/2012 1:36:16 PM
Modified: 7/18/2012 2:25:06 PM

Curves

Standard Curve

