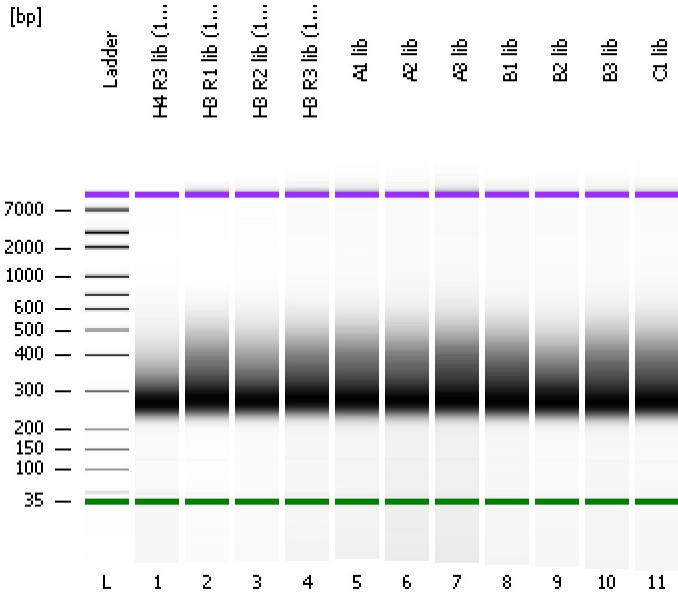


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
Modified: 2/23/2012 2:46:11 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

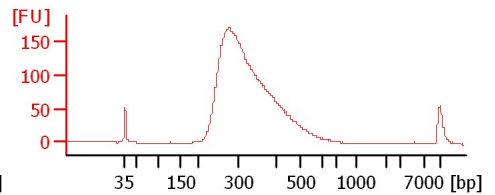
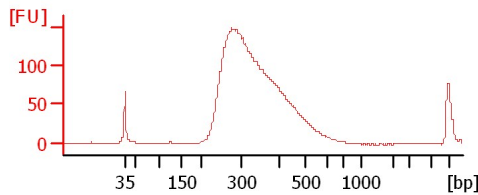
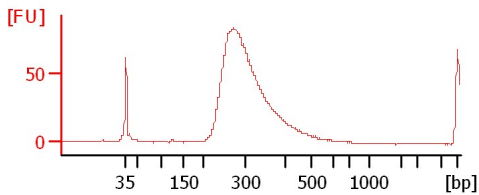
Chip Information:

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

H4 R3 lib (10cycles)

H3 R1 lib (10cycles)

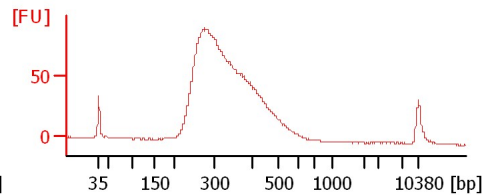
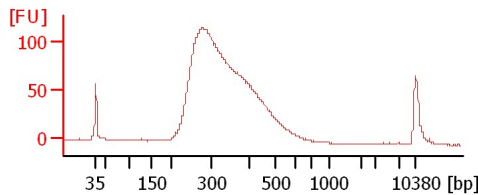
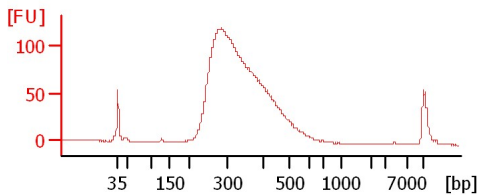
H3 R2 lib (10cycles)



H3 R3 lib (10cycles)

A1 lib

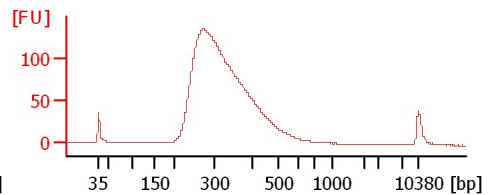
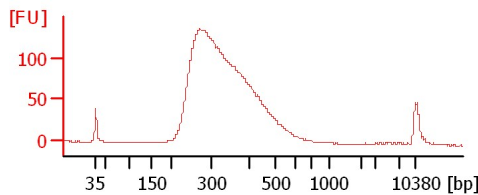
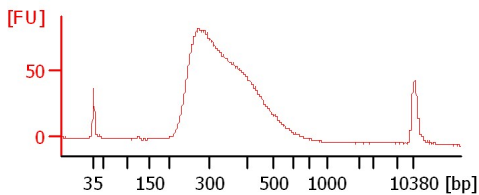
A2 lib



A3 lib

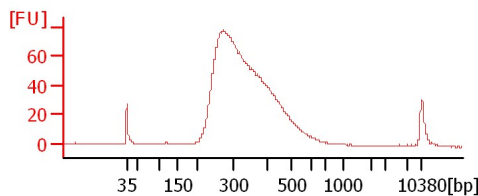
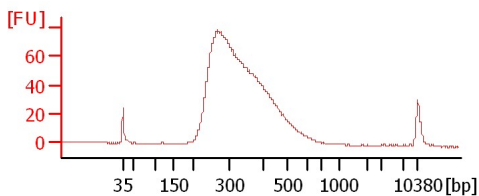
B1 lib

B2 lib



B3 lib

C1 lib



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
Modified: 2/23/2012 2:46:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H4 R3 lib (10cycles)		<input type="checkbox"/>	✓			
H3 R1 lib (10cycles)		<input type="checkbox"/>	✓			
H3 R2 lib (10cycles)		<input type="checkbox"/>	✓			
H3 R3 lib (10cycles)		<input type="checkbox"/>	✓			
A1 lib		<input type="checkbox"/>	✓			
A2 lib		<input type="checkbox"/>	✓			
A3 lib		<input type="checkbox"/>	✓			
B1 lib		<input type="checkbox"/>	✓			
B2 lib		<input type="checkbox"/>	✓			
B3 lib		<input type="checkbox"/>	✓			
C1 lib		<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\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
Modified: 2/23/2012 2:46:11 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

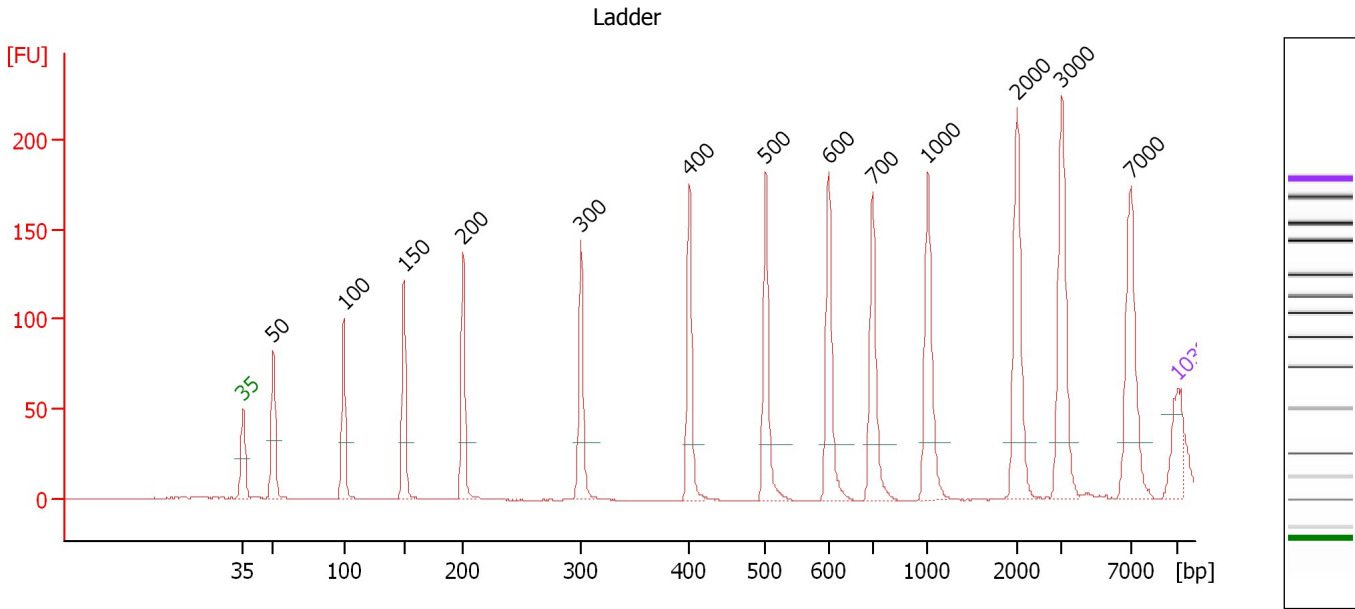
Ladder

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\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

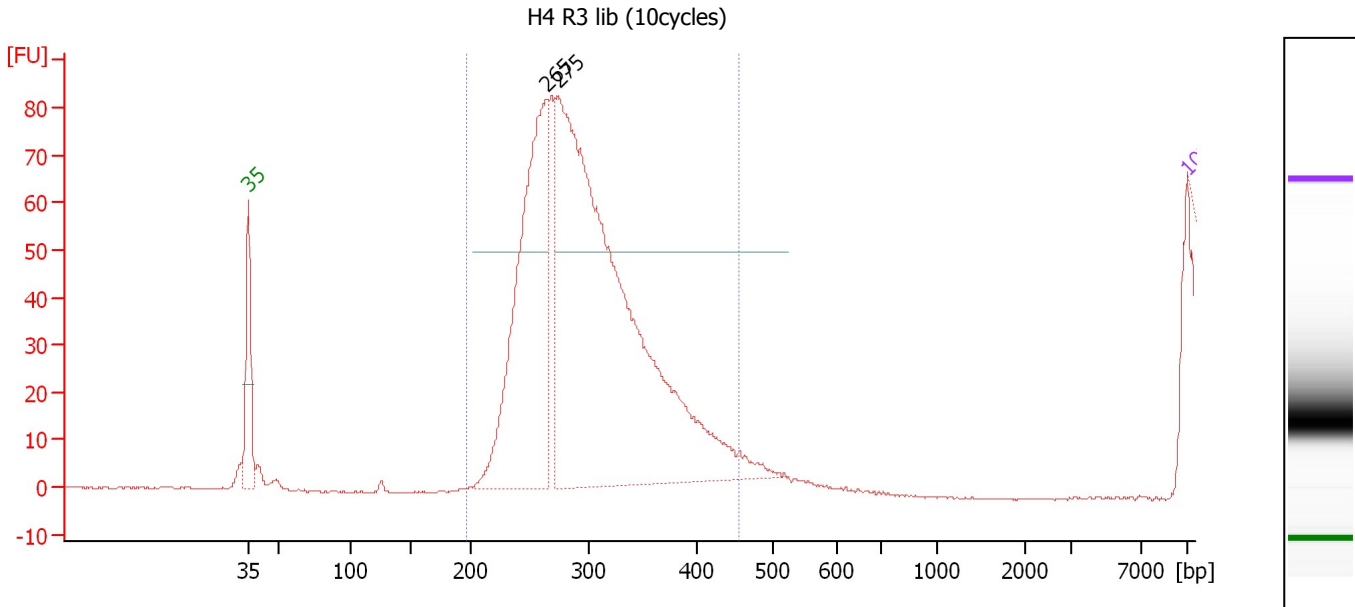
Peak table for Ladder

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\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : H4 R3 lib (10cycles)

Height Threshold [FU] : 50

Overall Results for sample 1 : H4 R3 lib (10cycles)

Number of peaks found: 2 Corr. Area 1: 495.7
 Noise: 0.2

Peak table for sample 1 : H4 R3 lib (10cycles)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	0.00	0.0	
3	275	0.00	0.0	
4	10,380	75.00	10.9	Upper Marker

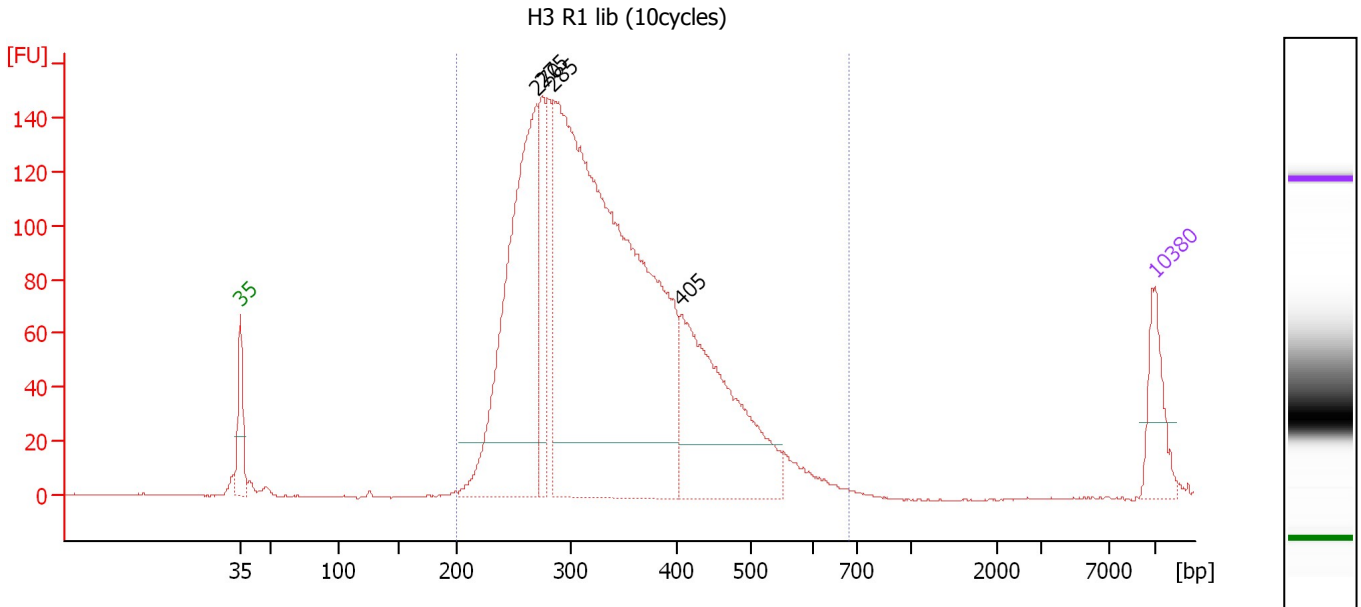
Region table for sample 1 : H4 R3 lib (10cycles)

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
197	0.0	279	0.00	456	495.7	100	8.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : H3 R1 lib (10cycles)

Height Threshold [FU] : 20

Overall Results for sample 2 : H3 R1 lib (10cycles)

Number of peaks found: 4 Corr. Area 1: 2,769.2
 Noise: 0.2

Peak table for sample 2 : H3 R1 lib (10cycles)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	826.39	4,640.6	
3	275	175.65	966.5	
4	285	2,080.57	11,075.8	
5	405	496.01	1,855.1	
6	10,380	75.00	10.9	Upper Marker

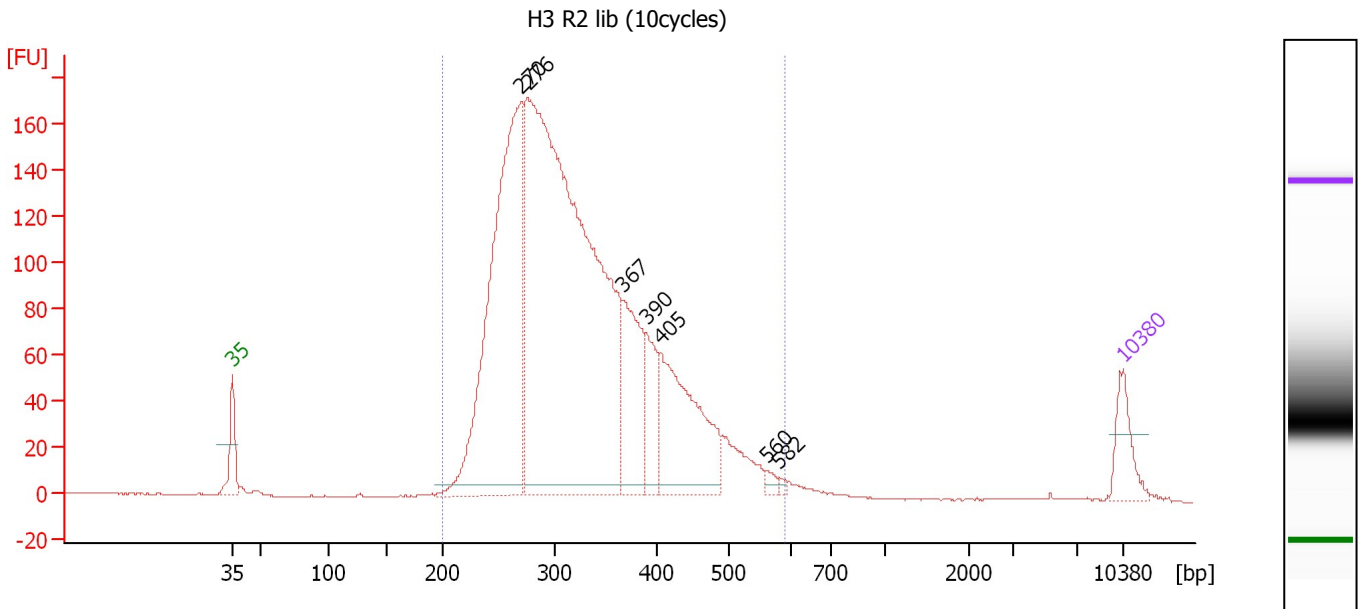
Region table for sample 2 : H3 R1 lib (10cycles)

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	16,527.0	336	3,436.90	682	2,769.2	99	22.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : H3 R2 lib (10cycles)

Number of peaks found: 7 Corr. Area 1: 2,998.6
 Noise: 0.3

Peak table for sample 3 : H3 R2 lib (10cycles)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	1,369.02	7,675.7	
3	276	2,703.49	14,818.9	
4	367	311.07	1,282.6	
5	390	151.57	589.3	
6	405	436.49	1,632.1	
7	560	17.67	47.8	
8	582	8.05	21.0	
9	10,380	75.00	10.9	Upper Marker

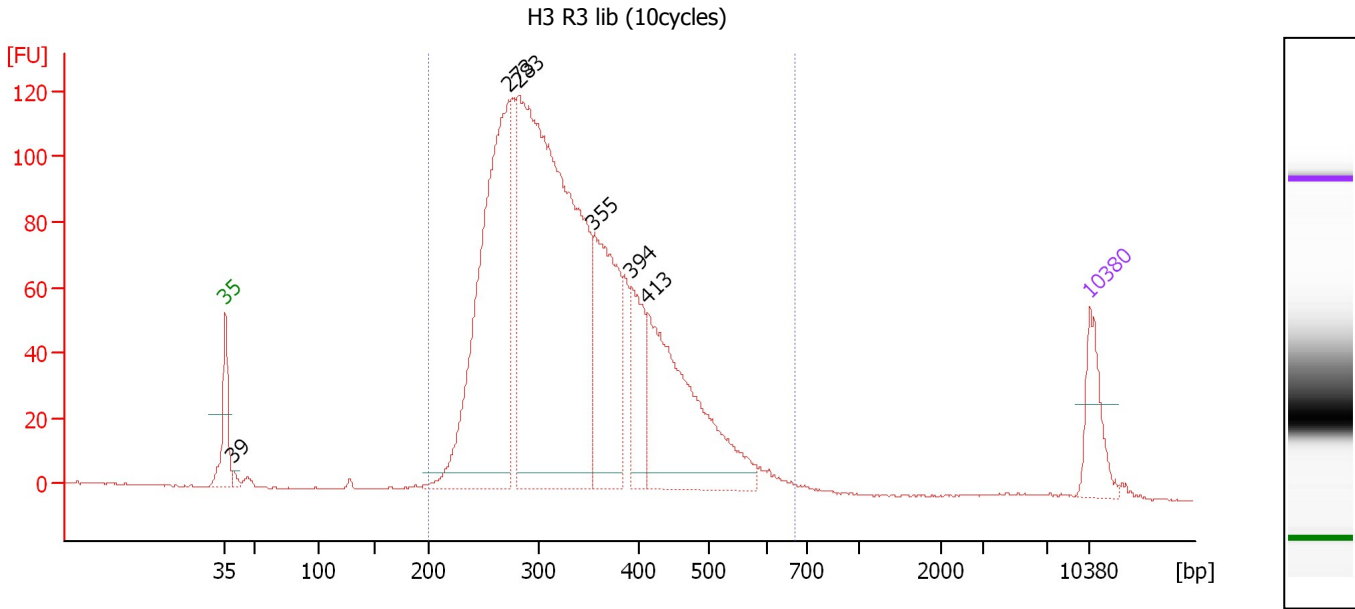
Region table for sample 3 : H3 R2 lib (10cycles)

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	24,513.2	328	4,998.97	592	2,998.6	98	22.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : H3 R3 lib (10cycles)

Number of peaks found: 6 Corr. Area 1: 2,309.3
 Noise: 0.3

Peak table for sample 4 : H3 R3 lib (10cycles)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	11.73	456.0	
3	273	897.67	4,973.9	
4	283	1,598.20	8,564.2	
5	355	379.71	1,619.4	
6	394	150.12	577.9	
7	413	474.40	1,740.9	
8	10,380	75.00	10.9	Upper Marker

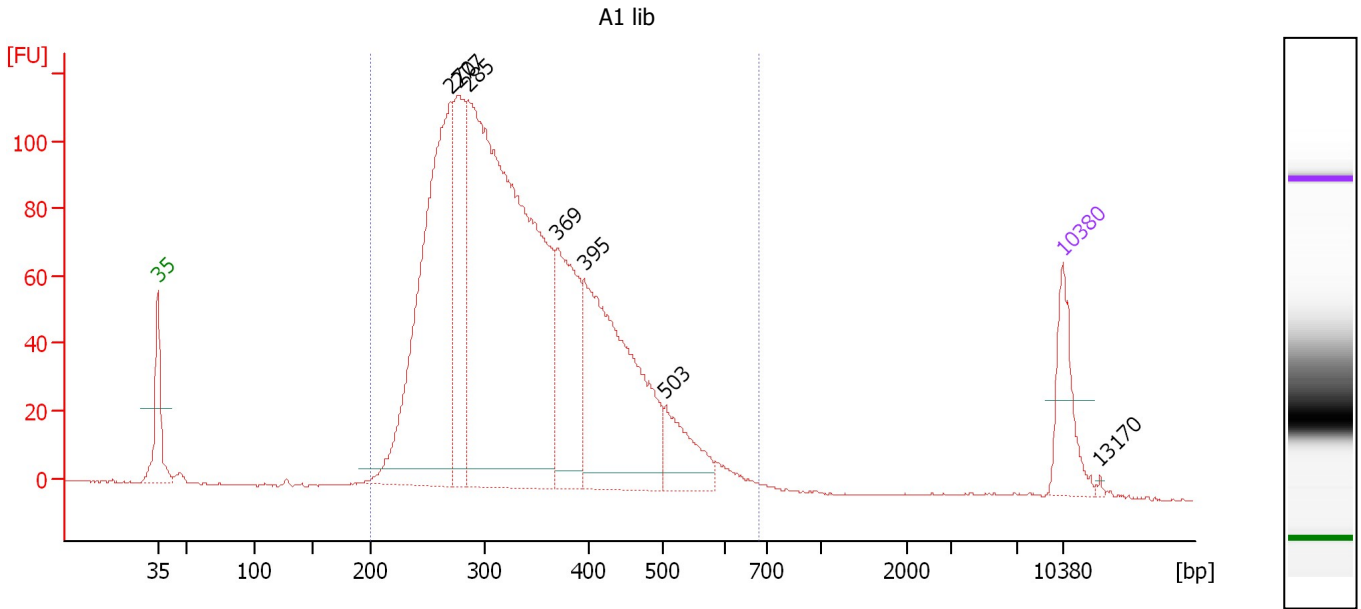
Region table for sample 4 : H3 R3 lib (10cycles)

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	17,471.6	340	3,668.33	666	2,309.3	98	23.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A1 lib

Number of peaks found: 7 Corr. Area 1: 2,282.7
 Noise: 0.2

Peak table for sample 5 : A1 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	723.66	4,060.1	
3	277	248.25	1,360.2	
4	285	1,341.77	7,133.4	
5	369	245.49	1,007.1	
6	395	465.02	1,784.7	
7	503	100.24	301.8	
8	10,380	75.00	10.9	Upper Marker
9	13,170	0.00	0.0	

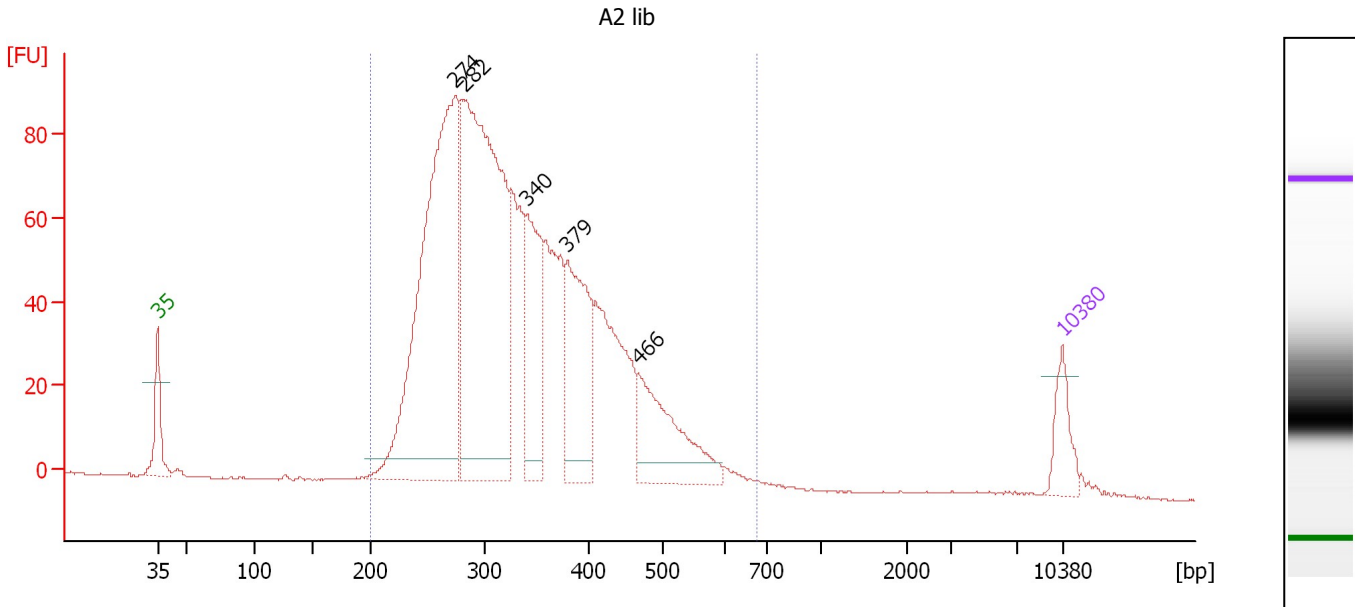
Region table for sample 5 : A1 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	14,780.6	342	3,099.53	681	2,282.7	99	24.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A2 lib

Number of peaks found: 5 Corr. Area 1: 1,755.2
 Noise: 0.2

Peak table for sample 6 : A2 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	1,378.06	7,615.3	
3	282	1,434.31	7,714.3	
4	340	343.78	1,533.5	
5	379	383.12	1,531.6	
6	466	301.34	978.9	
7	10,380	75.00	10.9	Upper Marker

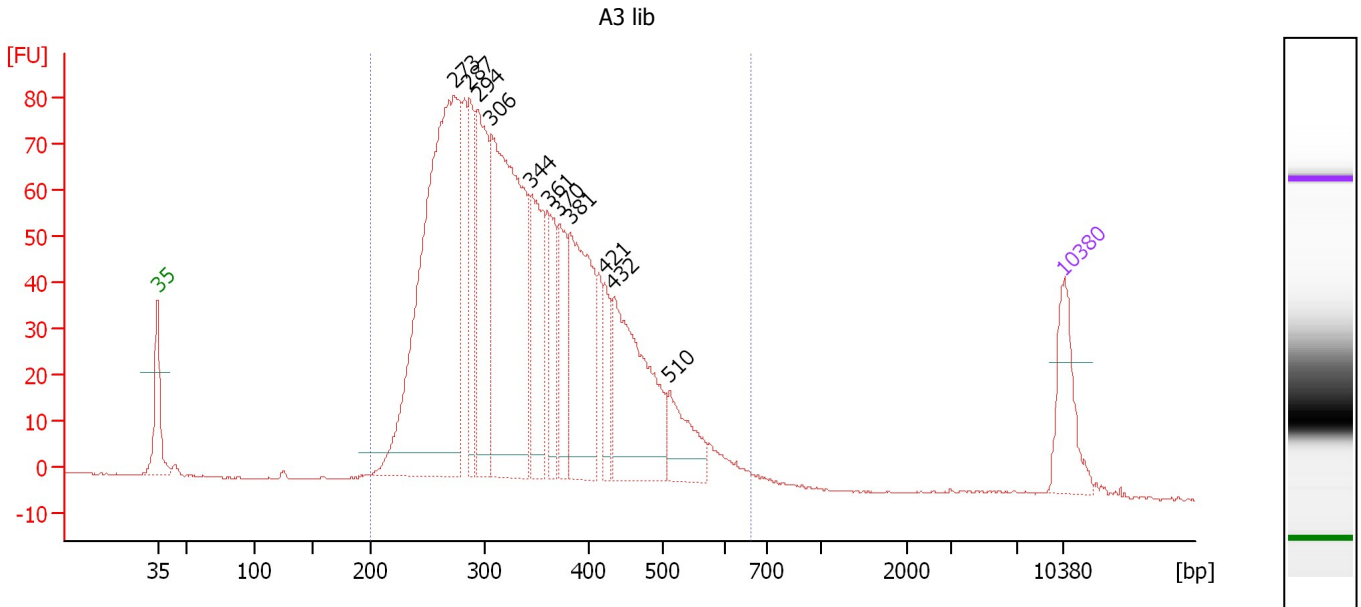
Region table for sample 6 : A2 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	24,019.9	340	5,022.91	674	1,755.2	99	23.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : A3 lib

Number of peaks found: 11 Corr. Area 1: 1,714.1
 Noise: 0.2

Peak table for sample 7 : A3 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	855.65	4,749.4	
3	287	136.23	720.1	
4	294	234.39	1,206.9	
5	306	559.43	2,766.3	
6	344	181.35	797.7	
7	361	97.98	411.2	
8	370	97.71	399.7	
9	381	250.25	994.1	
10	421	52.02	187.4	
11	432	262.41	919.7	
12	510	86.35	256.6	
13	10,380	75.00	10.9	Upper Marker

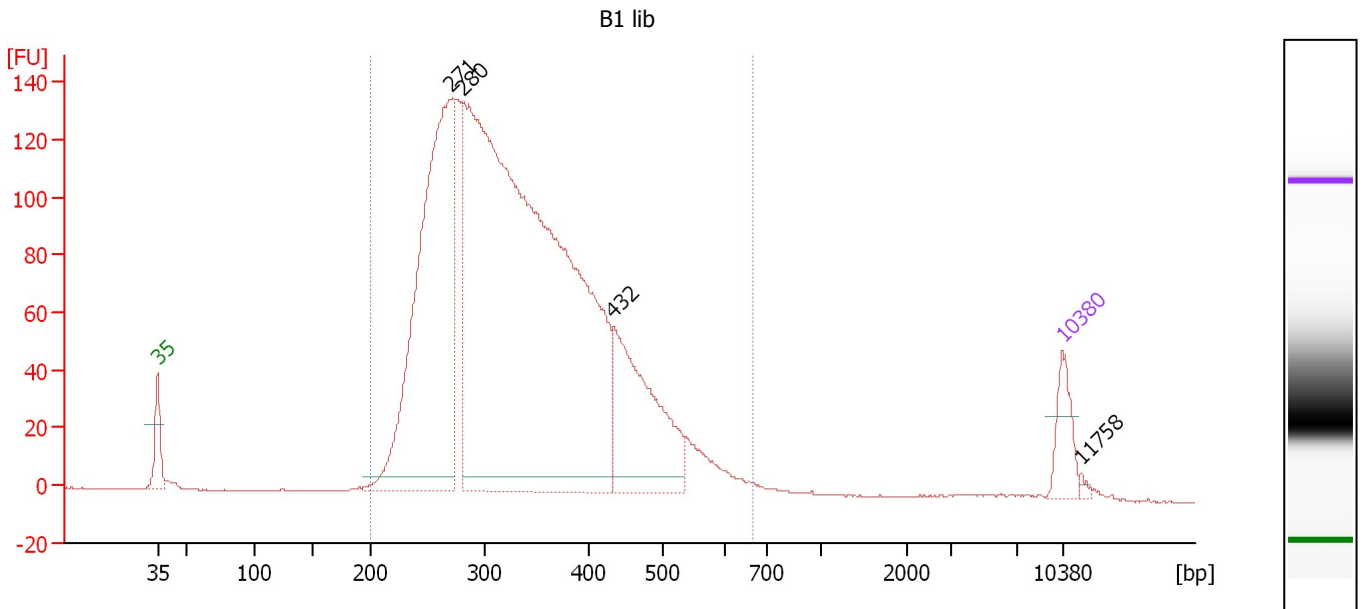
Region table for sample 7 : A3 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	14,824.9	346	3,142.53	662	1,714.1	99	24.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : B1 lib

Number of peaks found: 4 Corr. Area 1: 2,717.1
 Noise: 0.2

Peak table for sample 8 : B1 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	1,360.54	7,613.4	
3	280	3,485.91	18,836.2	
4	432	470.60	1,649.3	
5	10,380	75.00	10.9	Upper Marker
6	11,758	0.00	0.0	

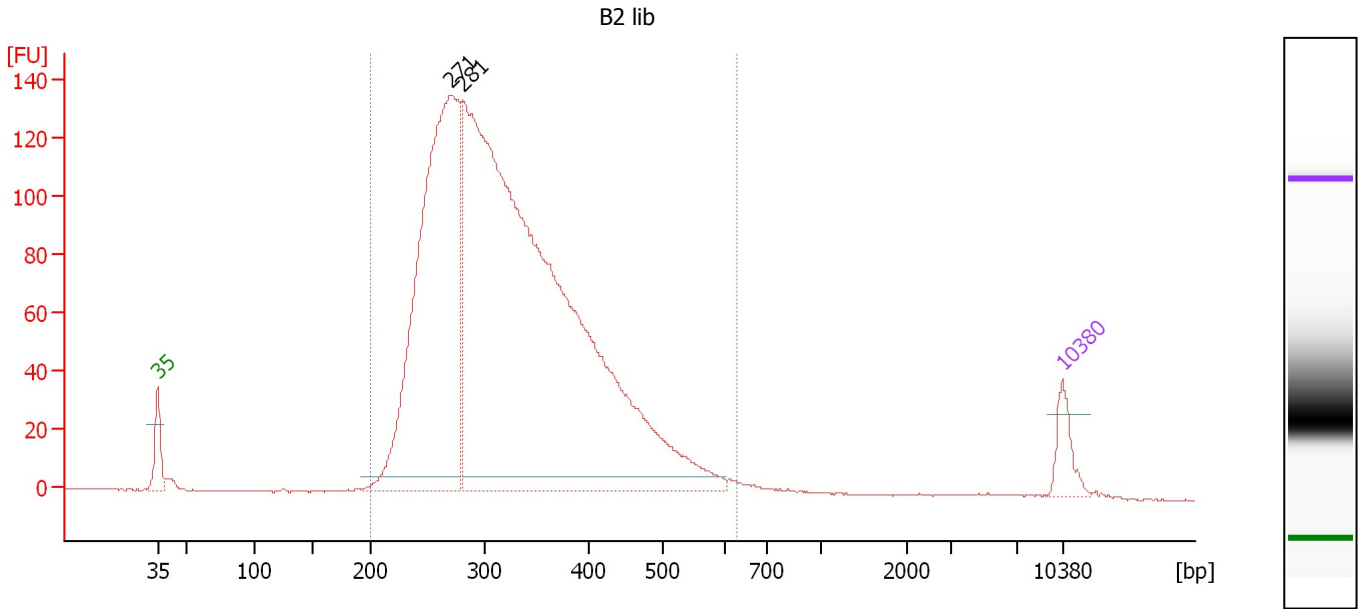
Region table for sample 8 : B1 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	25,382.8	340	5,301.19	665	2,717.1	98	24.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : B2 lib

Number of peaks found: 2 Corr. Area 1: 2,421.1
 Noise: 0.1

Peak table for sample 9 : B2 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	2,080.01	11,647.0	
3	281	4,716.96	25,457.1	
4	10,380	75.00	10.9	Upper Marker

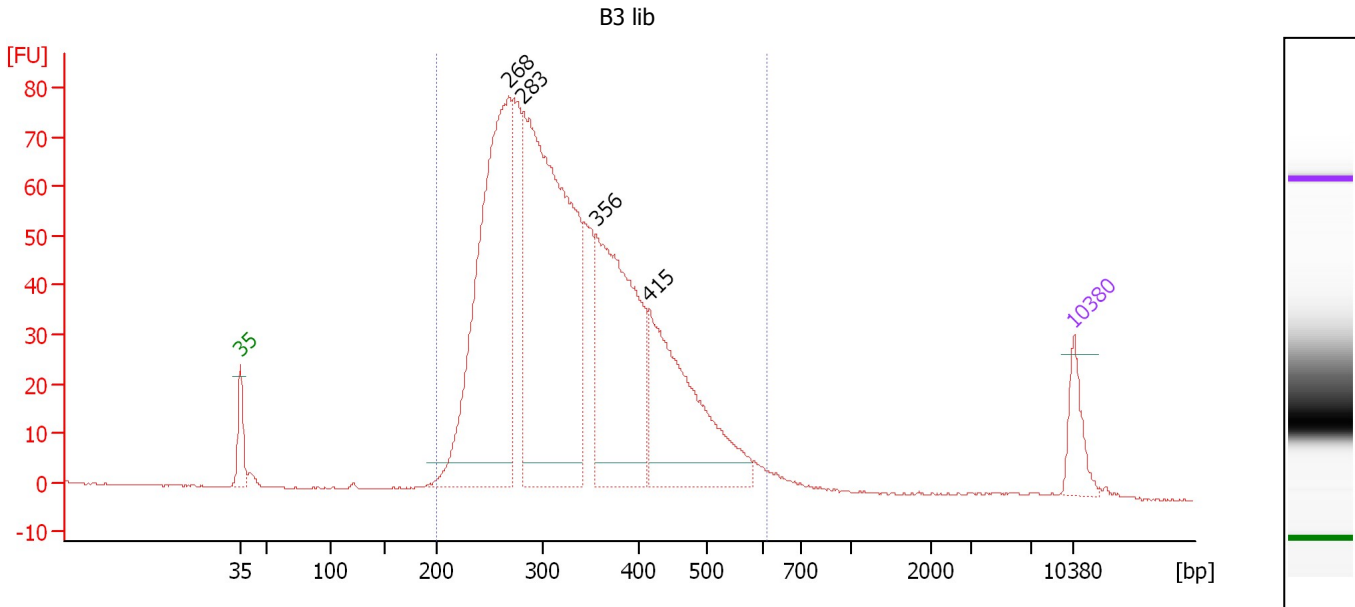
Region table for sample 9 : B2 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	31,004.5	328	6,310.87	628	2,421.1	98	22.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : B3 lib

Number of peaks found: 4 Corr. Area 1: 1,536.8
 Noise: 0.2

Peak table for sample 10 : B3 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	1,318.96	7,445.9	
3	283	1,629.69	8,737.5	
4	356	809.85	3,444.8	
5	415	613.52	2,237.4	
6	10,380	75.00	10.9	Upper Marker

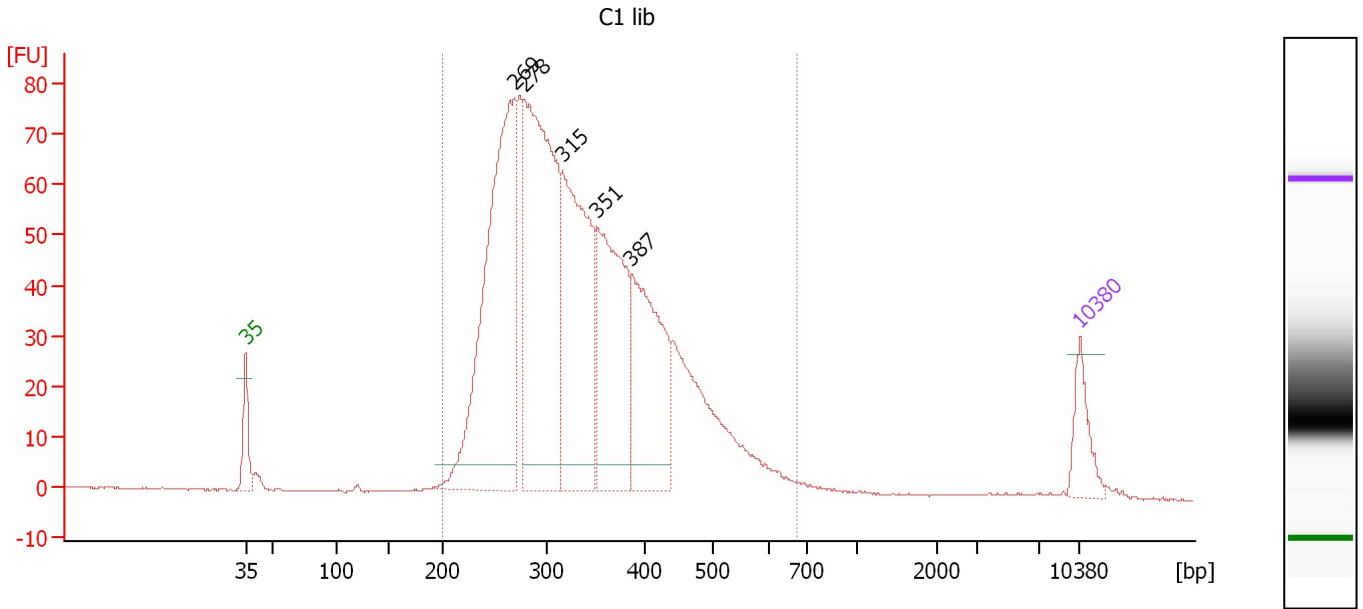
Region table for sample 10 : B3 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	24,176.9	336	4,994.96	613	1,536.8	98	23.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C1 lib

Number of peaks found: 5 Corr. Area 1: 1,506.4
 Noise: 0.1

Peak table for sample 11 : C1 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	269	1,141.81	6,441.5	
3	278	1,107.80	6,044.3	
4	315	745.45	3,580.5	
5	351	562.72	2,426.9	
6	387	472.88	1,850.5	
7	10,380	75.00	10.9	Upper Marker

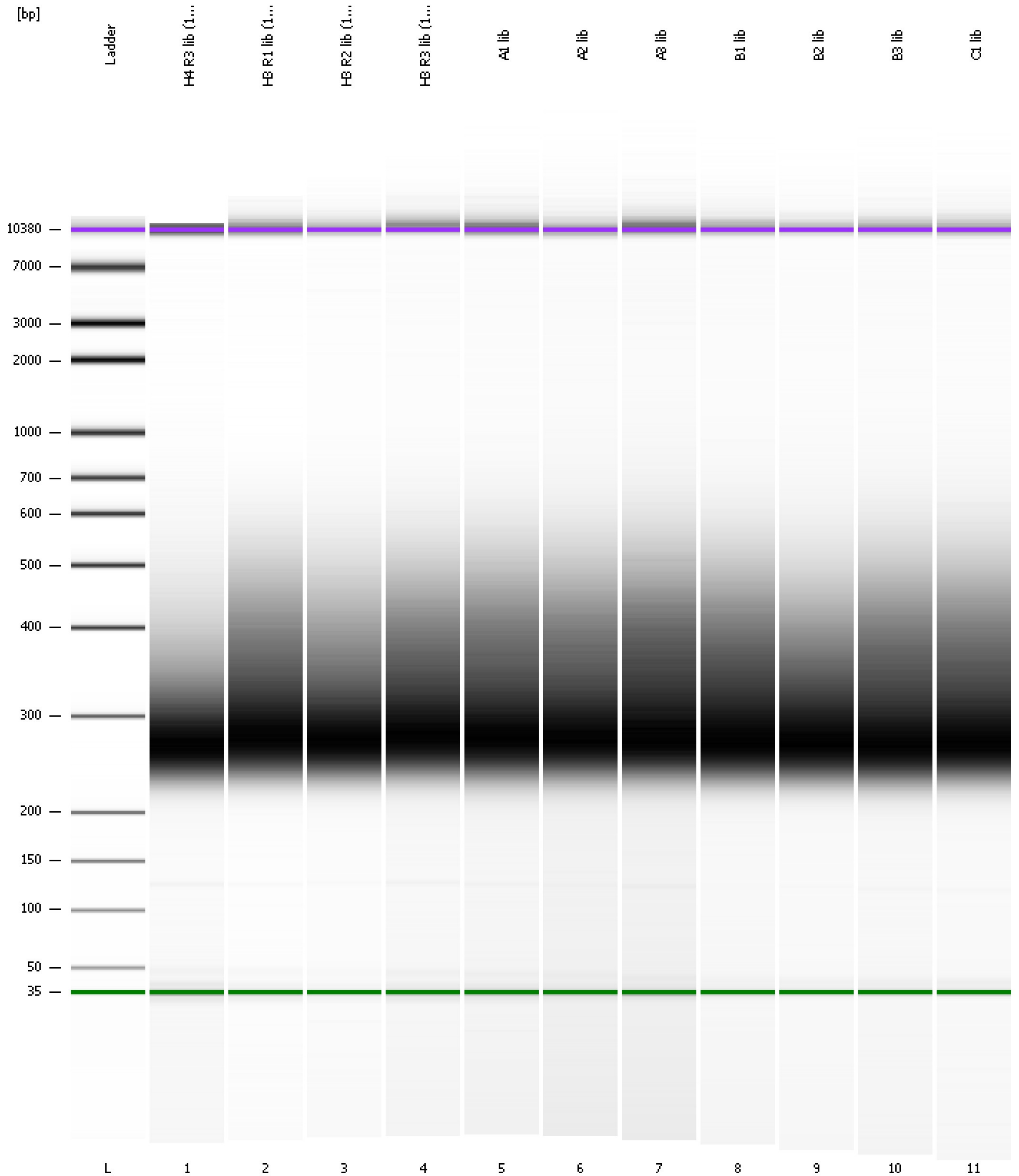
Region table for sample 11 : C1 lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	22,602.0	340	4,713.43	669	1,506.4	98	24.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
Modified: 2/23/2012 2:46:11 PM

Gel Image

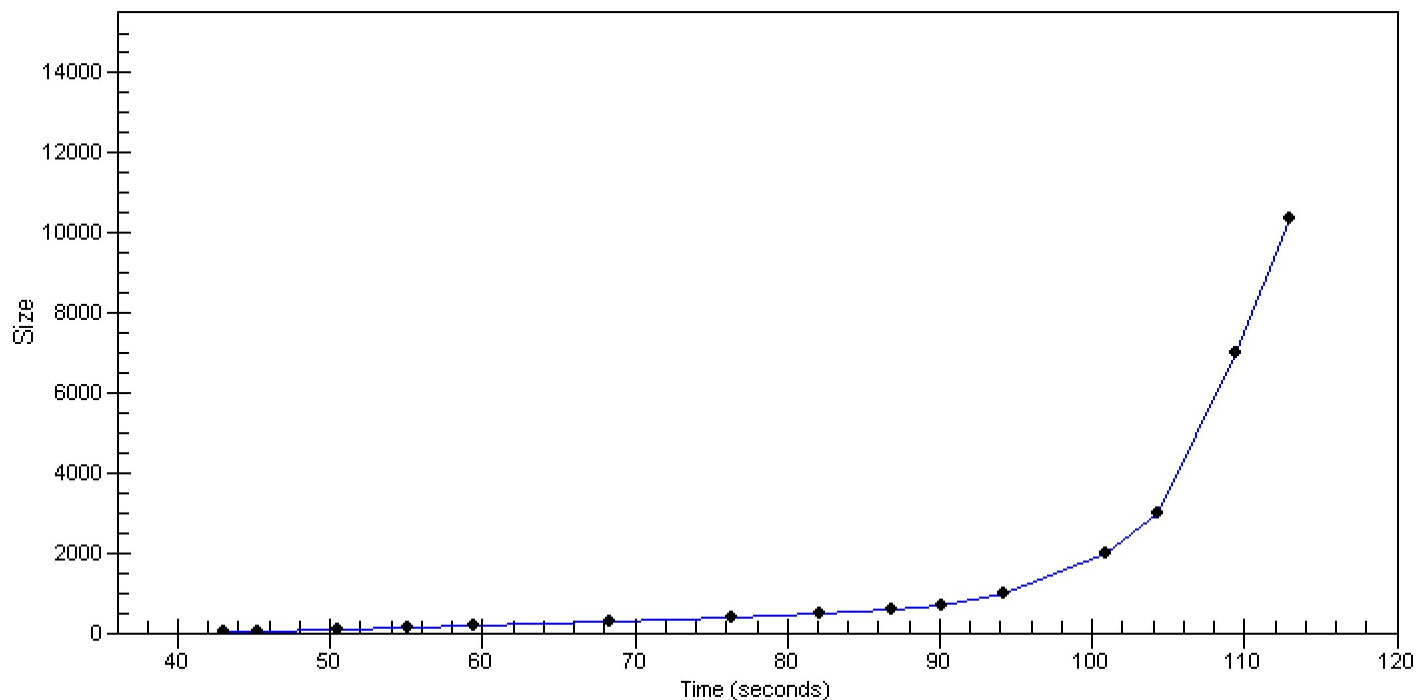


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
Modified: 2/23/2012 2:46:11 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad

Created: 2/23/2012 1:30:33 PM
 Modified: 2/23/2012 2:46:11 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		2/23/2012 2:11:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-23\2012-02-23_001.xad)		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/23/2012 1:30:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1