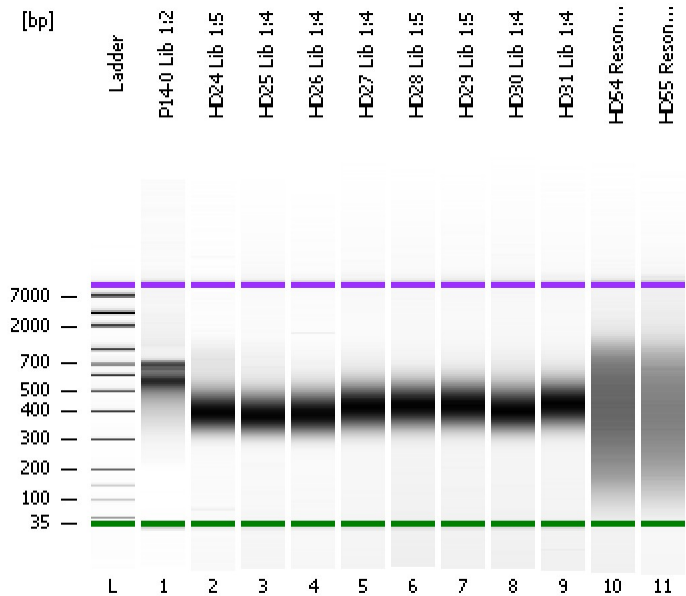


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
Modified: 1/6/2014 5:35:43 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

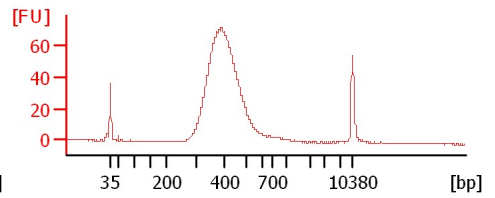
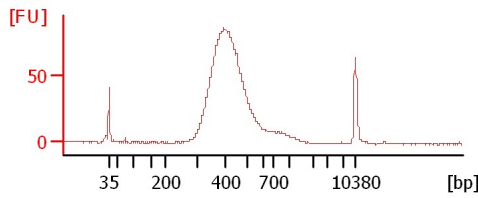
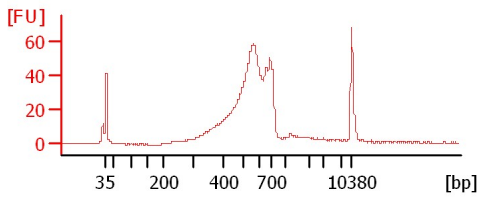
Chip Information:

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

**P14-0 Lib 1:2**

**HD24 Lib 1:5**

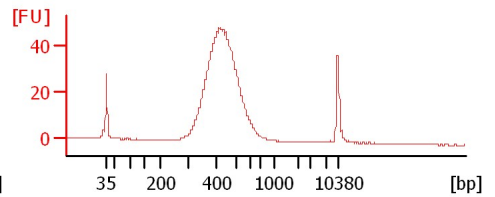
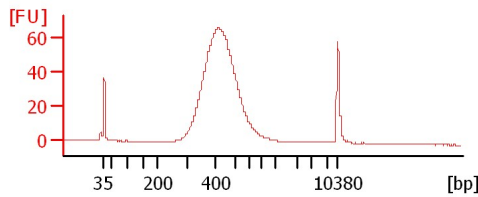
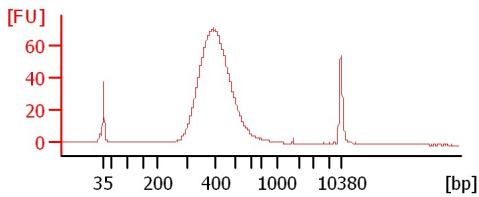
**HD25 Lib 1:4**



**HD26 Lib 1:4**

**HD27 Lib 1:4**

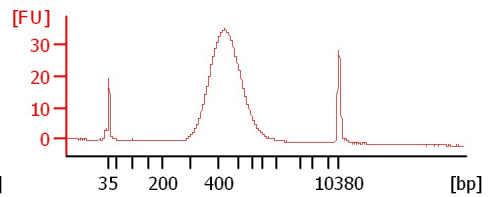
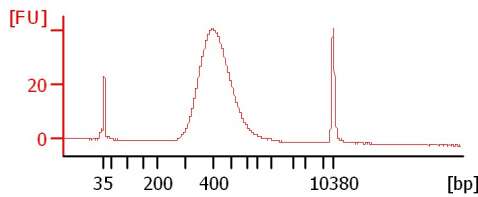
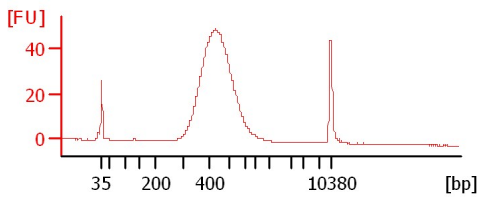
**HD28 Lib 1:5**



**HD29 Lib 1:5**

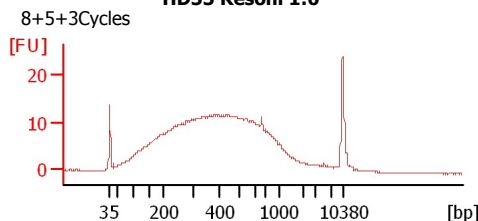
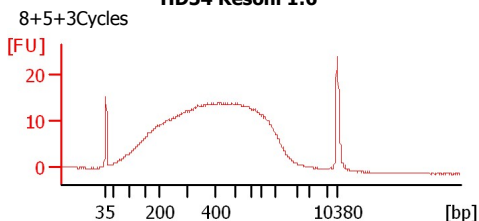
**HD30 Lib 1:4**

**HD31 Lib 1:4**



**HD54 Resoni 1:6**

**HD55 Resoni 1:6**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
Modified: 1/6/2014 5:35:43 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P14-0 Lib 1:2		<input type="checkbox"/>	✓			
HD24 Lib 1:5		<input type="checkbox"/>	✓			
HD25 Lib 1:4		<input type="checkbox"/>	✓			
HD26 Lib 1:4		<input type="checkbox"/>	✓			
HD27 Lib 1:4		<input type="checkbox"/>	✓			
HD28 Lib 1:5		<input type="checkbox"/>	✓			
HD29 Lib 1:5		<input type="checkbox"/>	✓			
HD30 Lib 1:4		<input type="checkbox"/>	✓			
HD31 Lib 1:4		<input type="checkbox"/>	✓			
HD54 Resoni 1:6	8+5+3Cycles	<input type="checkbox"/>	✓			
HD55 Resoni 1:6	8+5+3Cycles	<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\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
Modified: 1/6/2014 5:35:43 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

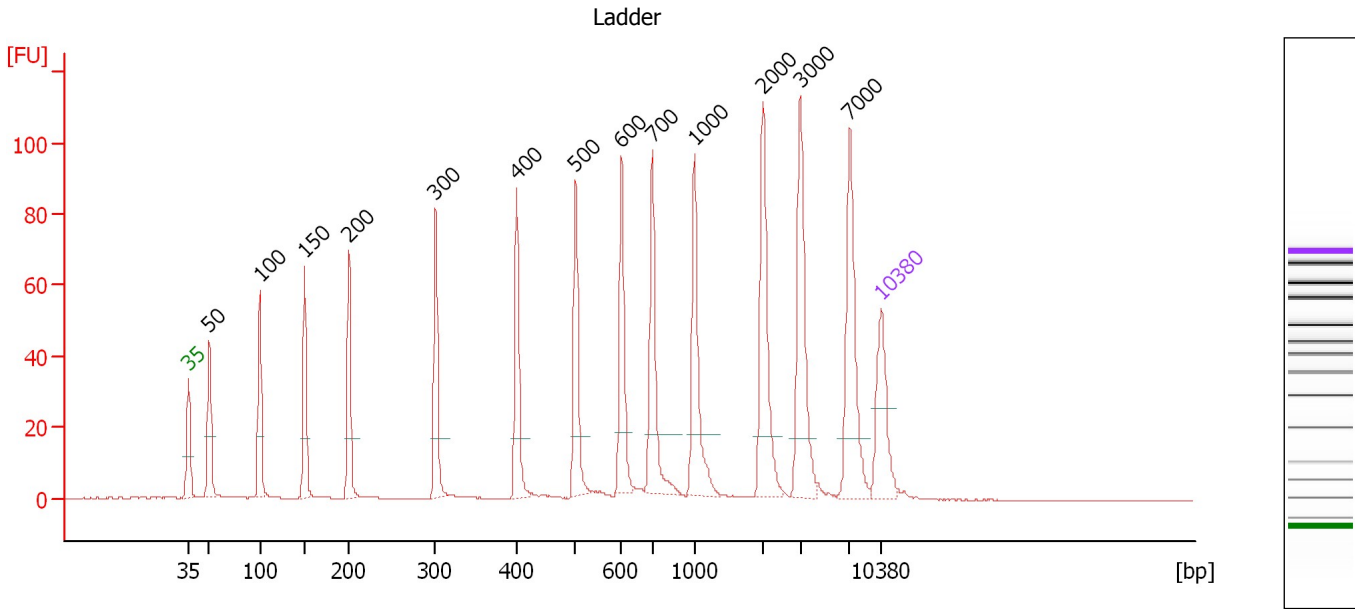
**Ladder**

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\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

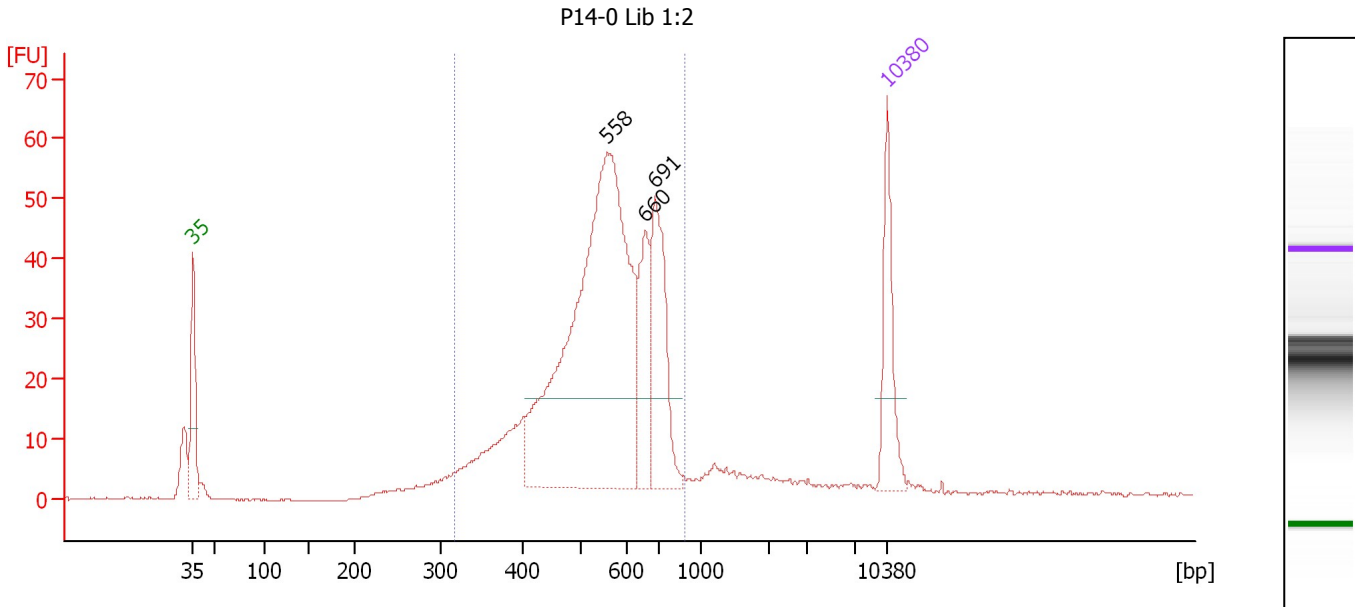
**Peak table for Ladder**

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	45.10	50	150.00	4,545.5	Ladder Peak
3	50.17	100	150.00	2,272.7	Ladder Peak
4	54.75	150	150.00	1,515.2	Ladder Peak
5	59.22	200	150.00	1,136.4	Ladder Peak
6	67.95	300	150.00	757.6	Ladder Peak
7	76.19	400	150.00	568.2	Ladder Peak
8	82.12	500	150.00	454.5	Ladder Peak
9	86.76	600	150.00	378.8	Ladder Peak
10	89.88	700	150.00	324.7	Ladder Peak
11	94.14	1,000	150.00	227.3	Ladder Peak
12	101.04	2,000	150.00	113.6	Ladder Peak
13	104.86	3,000	150.00	75.8	Ladder Peak
14	109.82	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : P14-0 Lib 1:2**

Height Threshold [FU] : 15

**Overall Results for sample 1 : P14-0 Lib 1:2**

Number of peaks found: 3                      Corr. Area 1: 667.7  
 Noise: 0.1

**Peak table for sample 1 : P14-0 Lib 1:2**

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	84.83	558	733.73	1,991.0	
3	88.65	660	101.73	233.4	
4	89.61	691	156.80	343.6	
5	113.00	10,380	75.00	10.9	Upper Marker

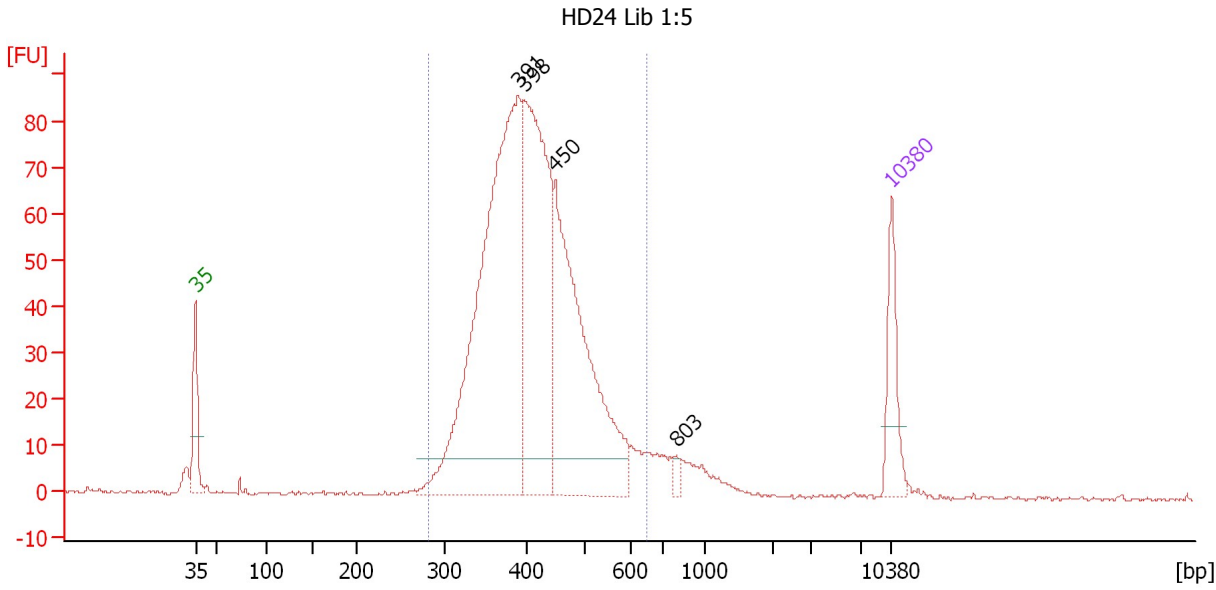
**Region table for sample 1 : P14-0 Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
318	885	554	3,534.1	1,220.84	667.7	86	19.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : HD24 Lib 1:5**

Height Threshold [FU] : 8

**Overall Results for sample 2 : HD24 Lib 1:5**

Number of peaks found: 4                      Corr. Area 1: 1,108.9  
 Noise: 0.3

**Peak table for sample 2 : HD24 Lib 1:5**

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	75.43	391	925.77	3,590.3	
3	76.07	398	562.47	2,138.6	
4	79.18	450	539.91	1,816.5	
5	91.35	803	10.13	19.1	
6	113.00	10,380	75.00	10.9	Upper Marker

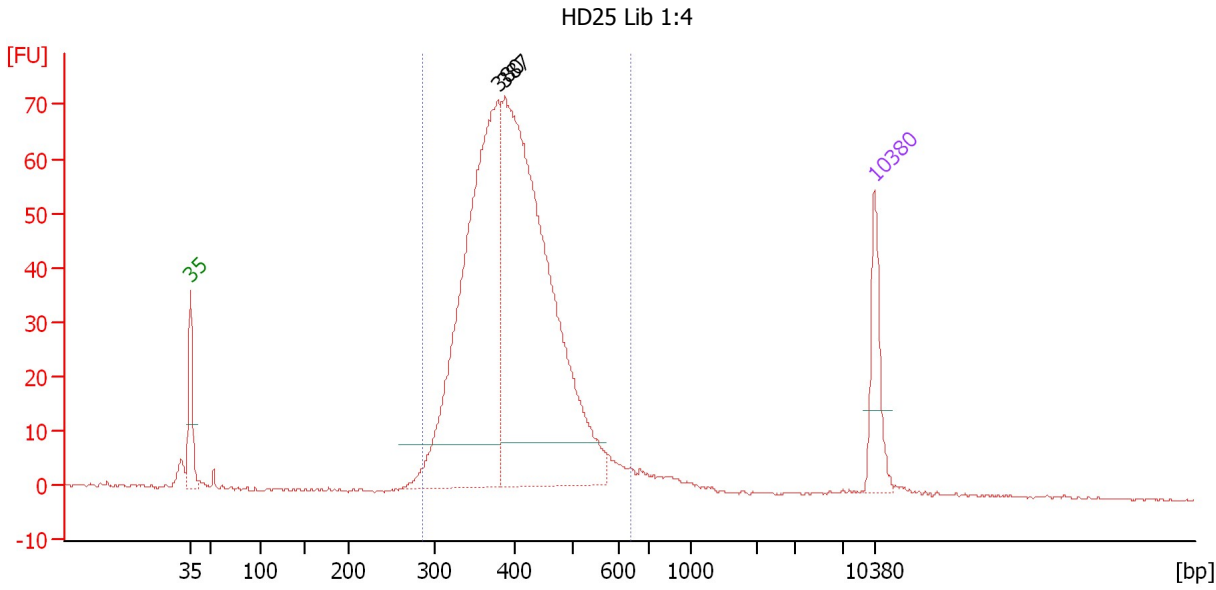
**Region table for sample 2 : HD24 Lib 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
283	651	418	7,689.4	2,056.45	1,108.9	94	16.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : HD25 Lib 1:4**

Height Threshold [FU] : 8

**Overall Results for sample 3 : HD25 Lib 1:4**

Number of peaks found: 2                      Corr. Area 1: 917.4  
 Noise: 0.2

**Peak table for sample 3 : HD25 Lib 1:4**

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	74.51	380	846.18	3,378.3	
3	75.11	387	1,056.54	4,138.7	
4	113.00	10,380	75.00	10.9	Upper Marker

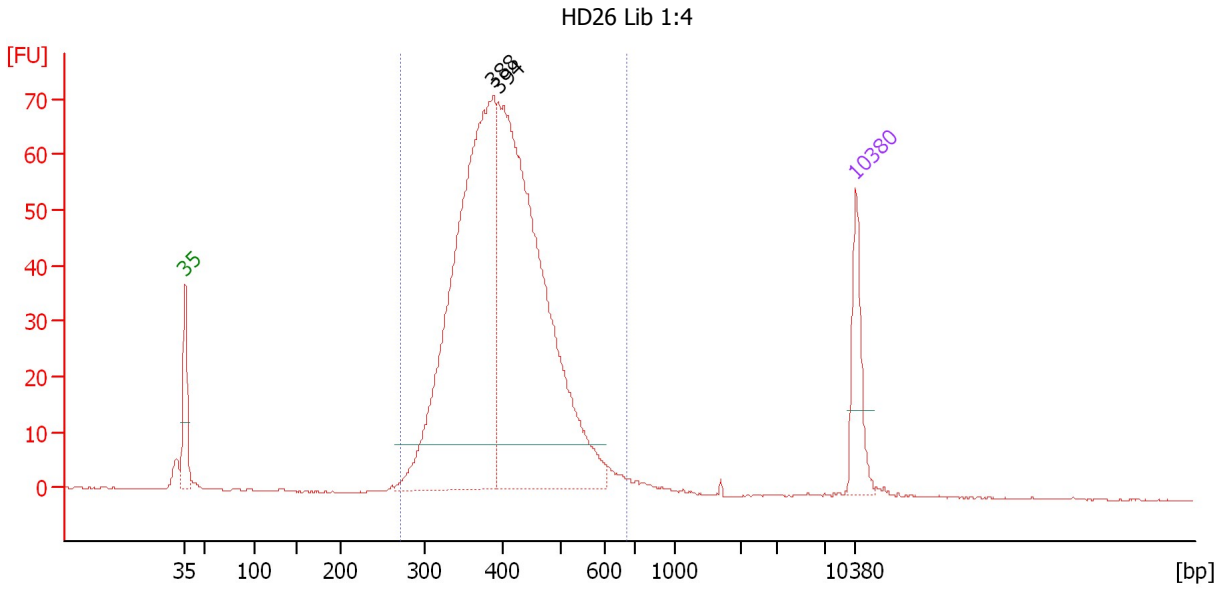
**Region table for sample 3 : HD25 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	643	404	7,570.0	1,965.03	917.4	95	15.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : HD26 Lib 1:4**

Height Threshold [FU] : 8

**Overall Results for sample 4 : HD26 Lib 1:4**

Number of peaks found: 2                      Corr. Area 1: 946.5  
 Noise: 0.1

**Peak table for sample 4 : HD26 Lib 1:4**

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	75.22	388	925.69	3,613.5	
3	75.66	394	972.21	3,743.0	
4	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : HD26 Lib 1:4**

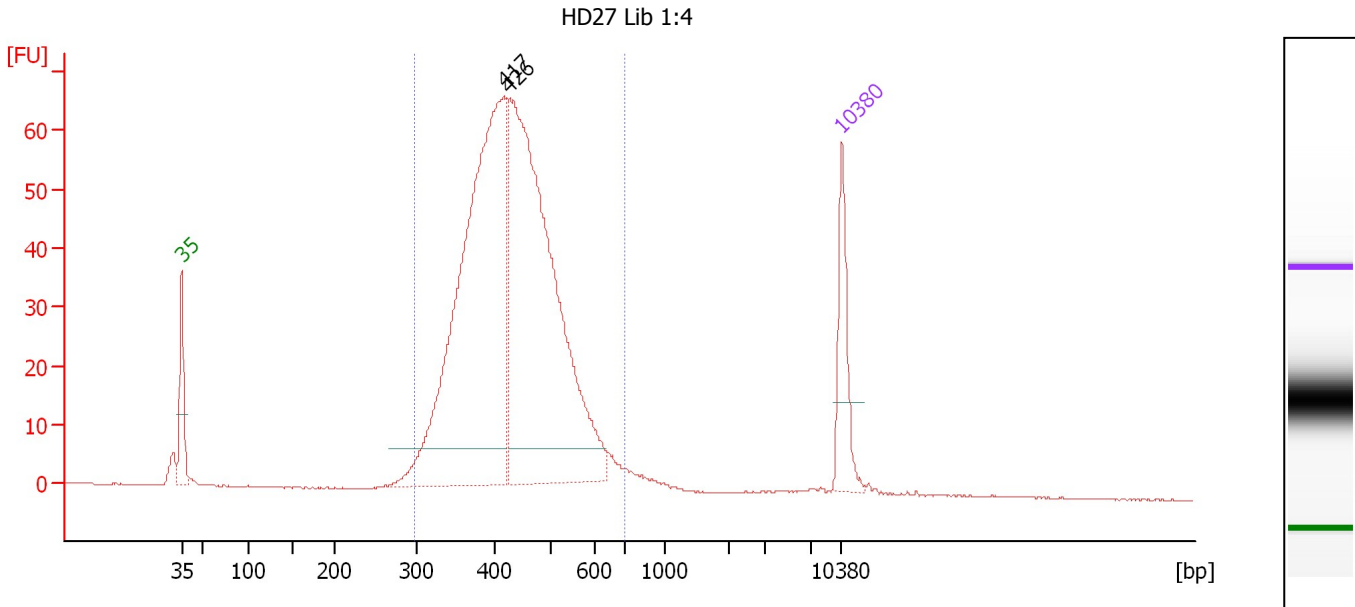
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
272	678	408	7,576.9	1,977.97	946.5	97	16.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : HD27 Lib 1:4**

Height Threshold [FU] : 6

**Overall Results for sample 5 : HD27 Lib 1:4**

Number of peaks found: 2                      Corr. Area 1: 906.8  
 Noise: 0.1

**Peak table for sample 5 : HD27 Lib 1:4**

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	77.21	417	864.58	3,140.6	
3	77.72	426	834.55	2,970.4	
4	113.00	10,380	75.00	10.9	Upper Marker

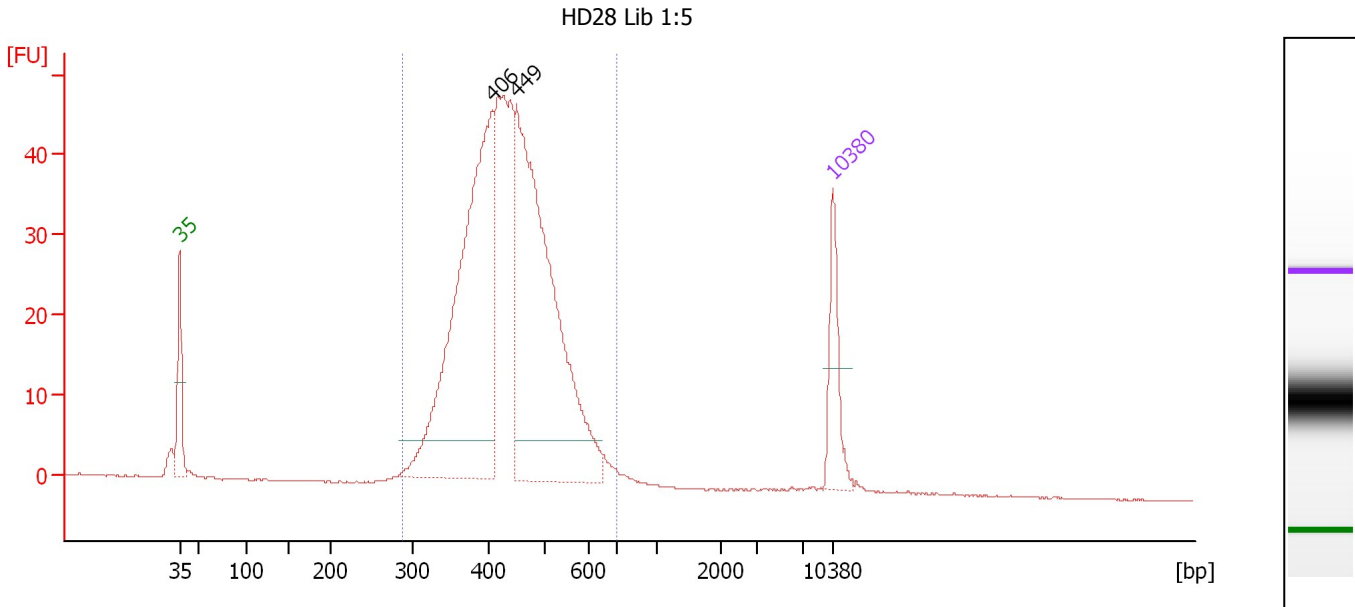
**Region table for sample 5 : HD27 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	707	435	6,460.2	1,795.80	906.8	95	16.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HD28 Lib 1:5**

Number of peaks found: 2      Corr. Area 1: 634.7  
 Noise: 0.1

**Peak table for sample 6 : HD28 Lib 1:5**

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	76.54	406	724.87	2,706.0	
3	79.11	449	757.24	2,553.9	
4	113.00	10,380	75.00	10.9	Upper Marker

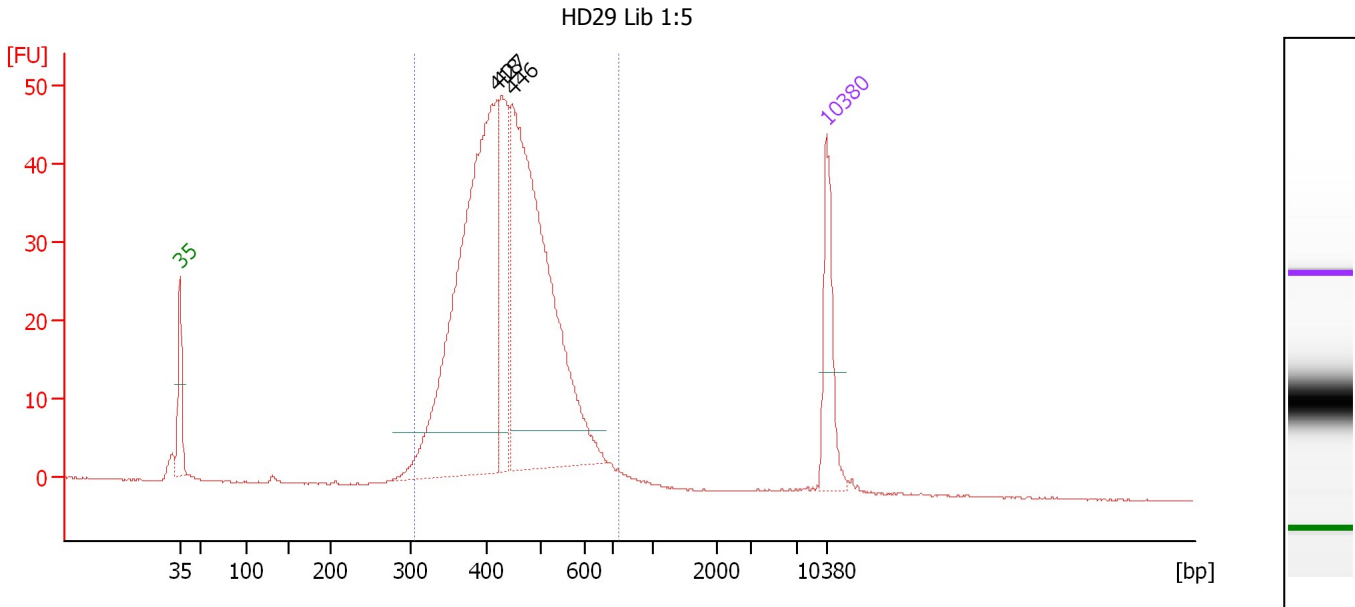
**Region table for sample 6 : HD28 Lib 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
289	698	439	6,839.4	1,919.35	634.7	97	16.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HD29 Lib 1:5**

Number of peaks found: 3                      Corr. Area 1: 656.6  
 Noise: 0.1

**Peak table for sample 7 : HD29 Lib 1:5**

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	77.28	418	680.59	2,465.3	
3	77.80	427	160.83	570.6	
4	78.89	446	634.92	2,159.1	
5	113.00	10,380	75.00	10.9	Upper Marker

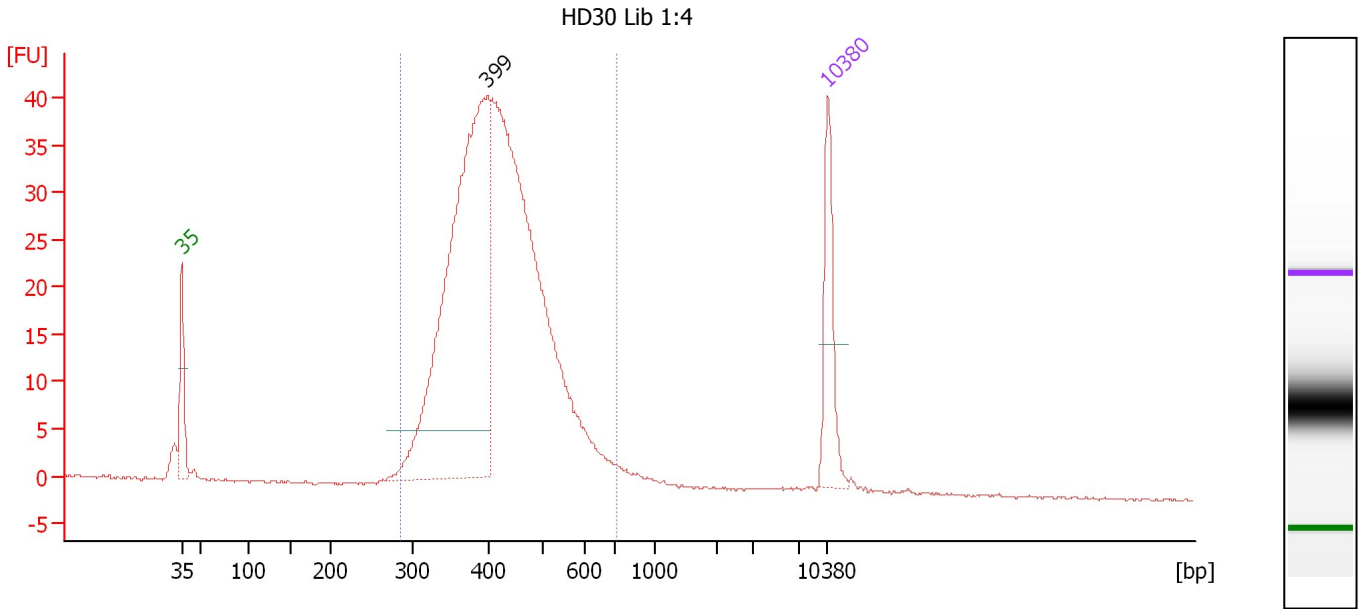
**Region table for sample 7 : HD29 Lib 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
306	746	443	5,779.3	1,636.44	656.6	96	16.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HD30 Lib 1:4**

Number of peaks found: 1      Corr. Area 1: 554.2  
 Noise: 0.1

**Peak table for sample 8 : HD30 Lib 1:4**

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	76.09	399	690.22	2,622.5	
3	113.00	10,380	75.00	10.9	Upper Marker

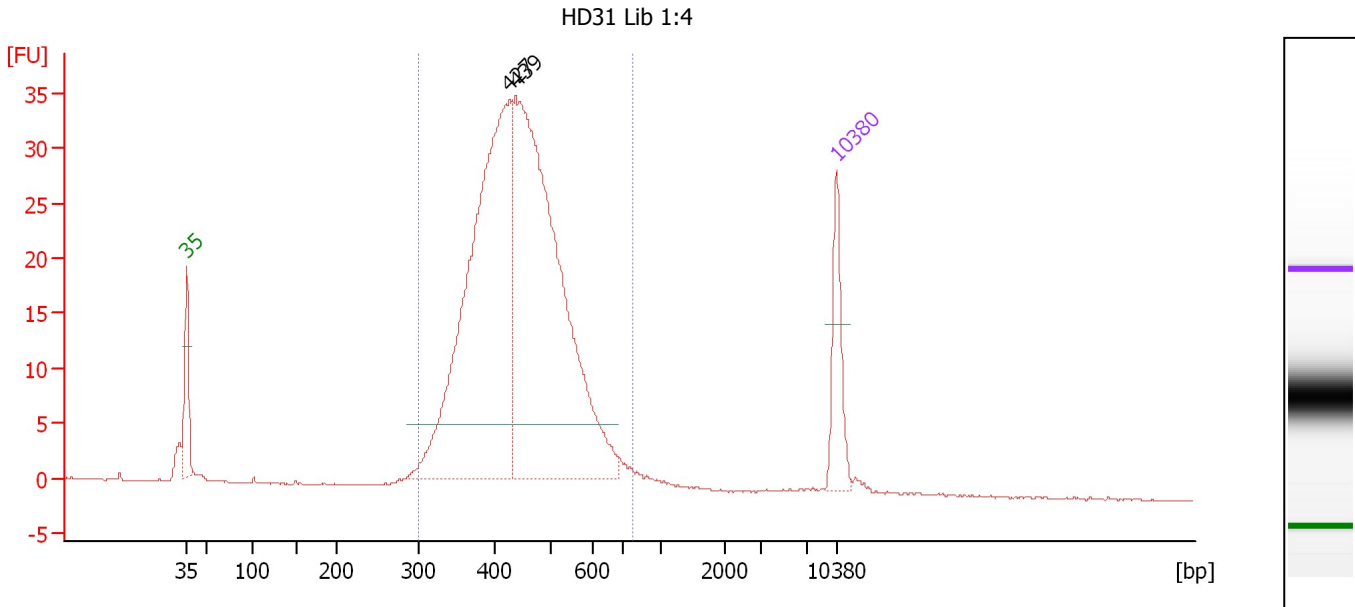
**Region table for sample 8 : HD30 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	716	426	5,626.1	1,527.14	554.2	96	17.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HD31 Lib 1:4**

Number of peaks found: 2                      Corr. Area 1: 471.3  
 Noise: 0.1

**Peak table for sample 9 : HD31 Lib 1:4**

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	77.80	427	854.60	3,032.0	
3	78.49	439	942.01	3,253.5	
4	113.00	10,380	75.00	10.9	Upper Marker

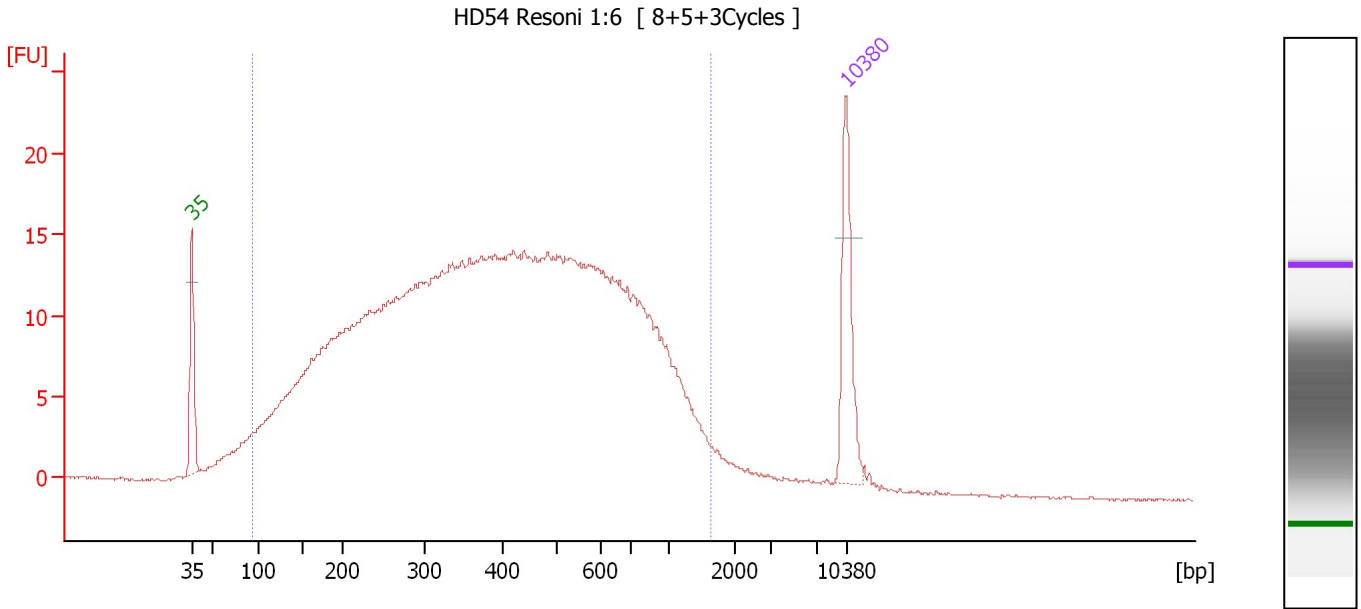
**Region table for sample 9 : HD31 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
302	784	449	6,621.0	1,894.57	471.3	95	17.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HD54 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 648.4  
 Noise: 0.1

**Peak table for sample 10 : HD54 Resoni 1:6**

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	113.00	10,380	75.00	10.9	Upper Marker

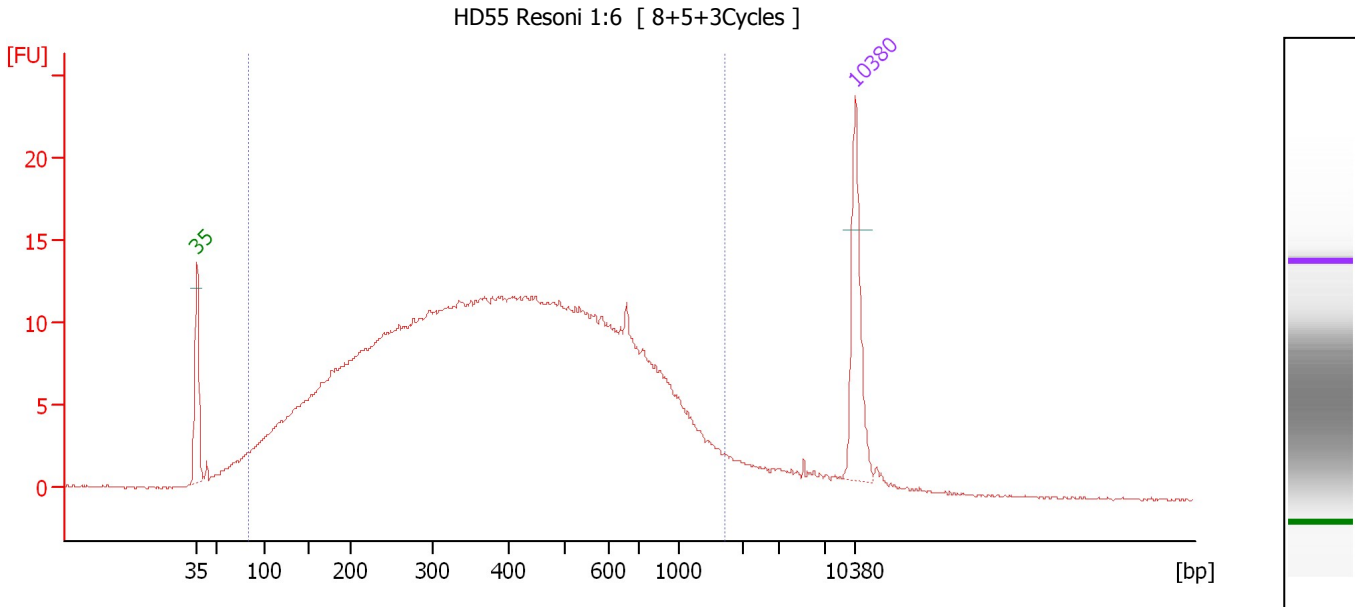
**Region table for sample 10 : HD54 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
93	1,641	455	16,692.5	3,206.51	648.4	95	57.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
 Modified: 1/6/2014 5:35:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HD55 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 536.4  
 Noise: 0.1

**Peak table for sample 11 : HD55 Resoni 1:6**

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	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : HD55 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
83	1,735	445	15,783.7	2,907.32	536.4	94	60.2	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-06\2014-01-06\_005.xad

Created: 1/6/2014 4:53:43 PM  
Modified: 1/6/2014 5:35:43 PM

**Gel Image**

