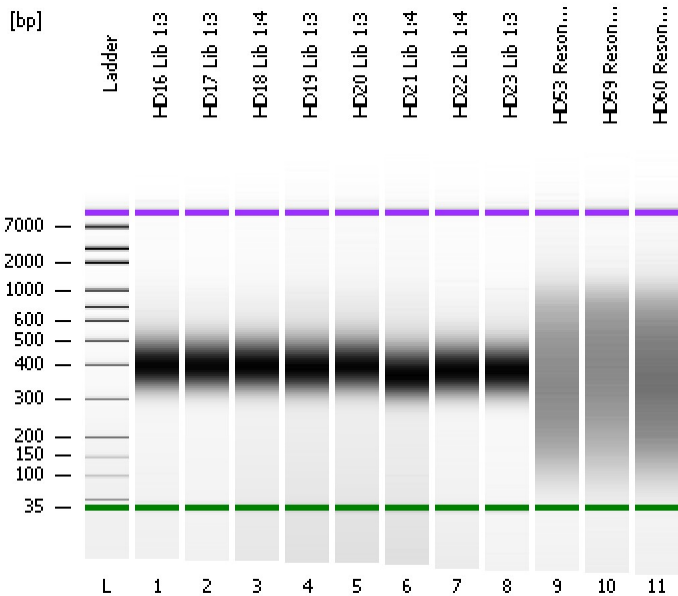


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
Modified: 1/2/2014 4:39:48 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

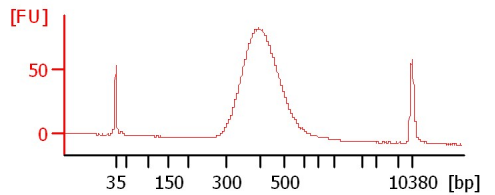
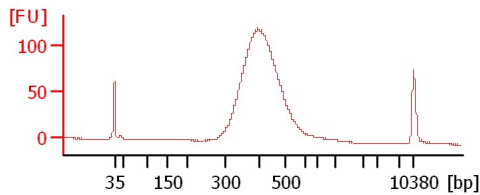
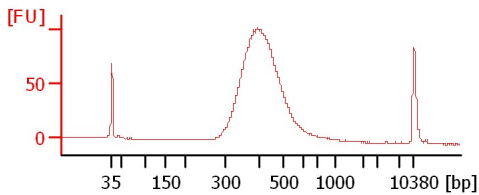
Chip Information:

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

HD16 Lib 1:3

HD17 Lib 1:3

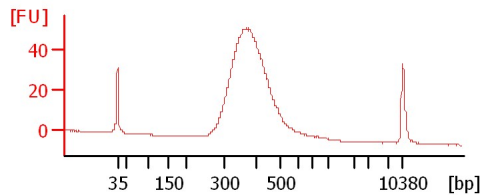
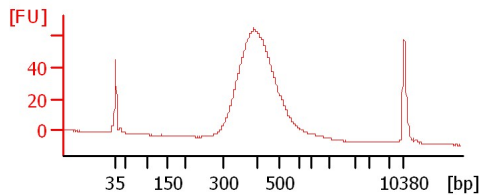
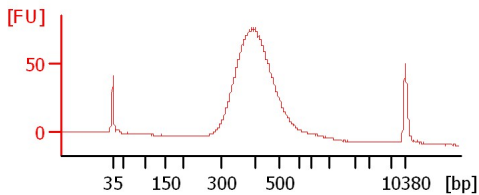
HD18 Lib 1:4



HD19 Lib 1:3

HD20 Lib 1:3

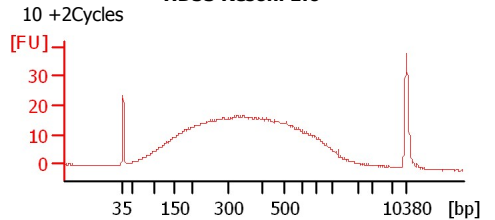
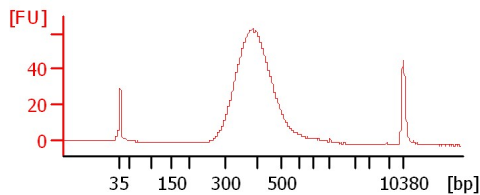
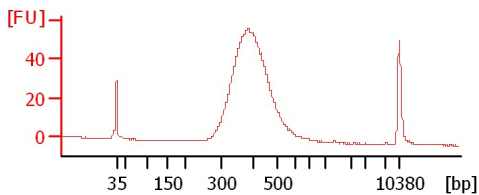
HD21 Lib 1:4



HD22 Lib 1:4

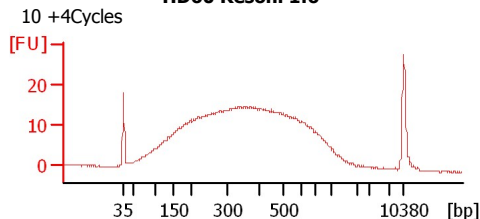
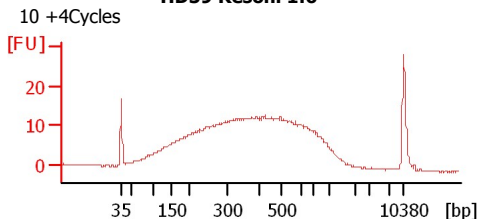
HD23 Lib 1:3

HD53 Resoni 1:6



HD59 Resoni 1:6

HD60 Resoni 1:6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HD16 Lib 1:3		<input type="checkbox"/>	✓			
HD17 Lib 1:3		<input type="checkbox"/>	✓			
HD18 Lib 1:4		<input type="checkbox"/>	✓			
HD19 Lib 1:3		<input type="checkbox"/>	✓			
HD20 Lib 1:3		<input type="checkbox"/>	✓			
HD21 Lib 1:4		<input type="checkbox"/>	✓			
HD22 Lib 1:4		<input type="checkbox"/>	✓			
HD23 Lib 1:3		<input type="checkbox"/>	✓			
HD53 Resoni 1:6	10 +2Cycles	<input type="checkbox"/>	✓			
HD59 Resoni 1:6	10 +4Cycles	<input type="checkbox"/>	✓			
HD60 Resoni 1:6	10 +4Cycles	<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\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
Modified: 1/2/2014 4:39:48 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

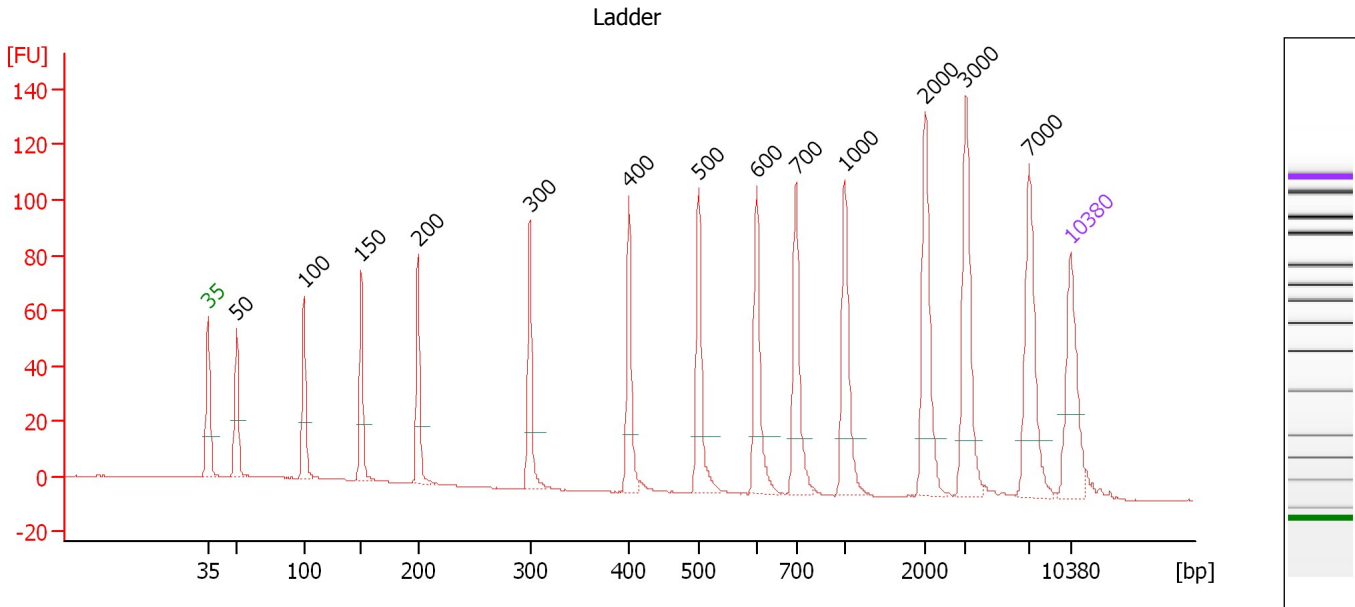
**Ladder**

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\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

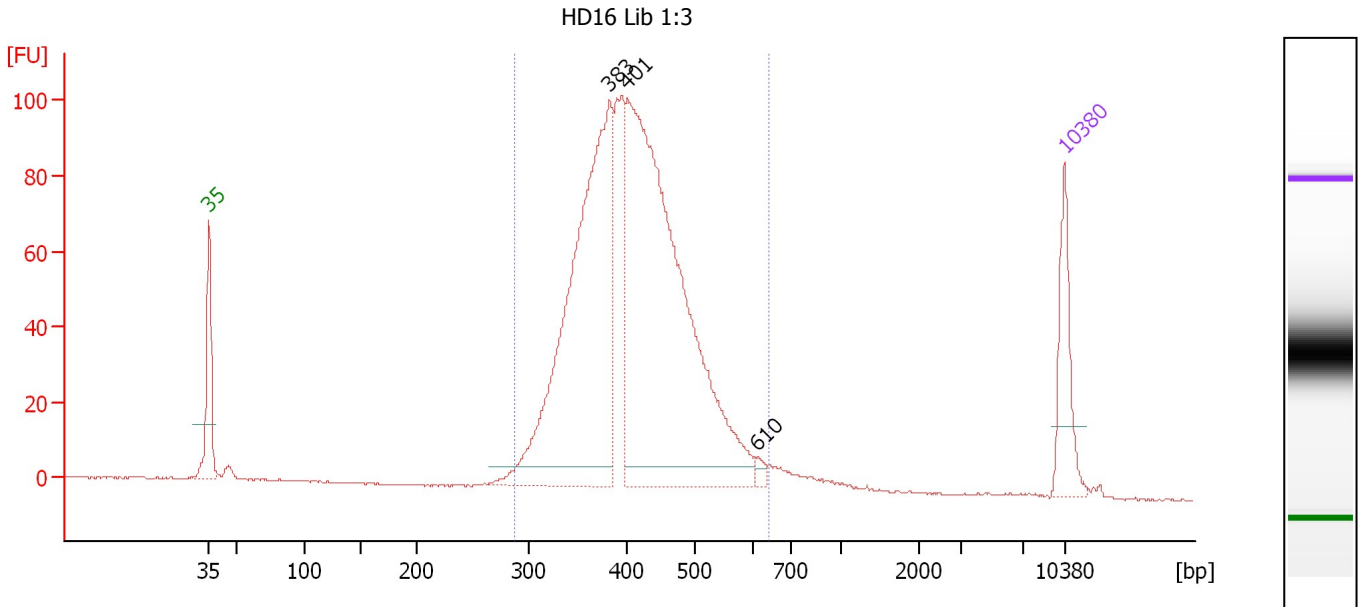
**Peak table for Ladder**

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	45.29	50	150.00	4,545.5	Ladder Peak
3	50.75	100	150.00	2,272.7	Ladder Peak
4	55.42	150	150.00	1,515.2	Ladder Peak
5	60.01	200	150.00	1,136.4	Ladder Peak
6	69.10	300	150.00	757.6	Ladder Peak
7	77.16	400	150.00	568.2	Ladder Peak
8	82.83	500	150.00	454.5	Ladder Peak
9	87.50	600	150.00	378.8	Ladder Peak
10	90.71	700	150.00	324.7	Ladder Peak
11	94.69	1,000	150.00	227.3	Ladder Peak
12	101.18	2,000	150.00	113.6	Ladder Peak
13	104.52	3,000	150.00	75.8	Ladder Peak
14	109.62	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\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HD16 Lib 1:3**

Number of peaks found: 3                      Corr. Area 1: 1,424.9  
 Noise: 0.2

**Peak table for sample 1 : HD16 Lib 1:3**

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	75.77	383	728.19	2,881.9	
3	77.21	401	939.04	3,547.8	
4	87.82	610	9.92	24.6	
5	113.00	10,380	75.00	10.9	Upper Marker

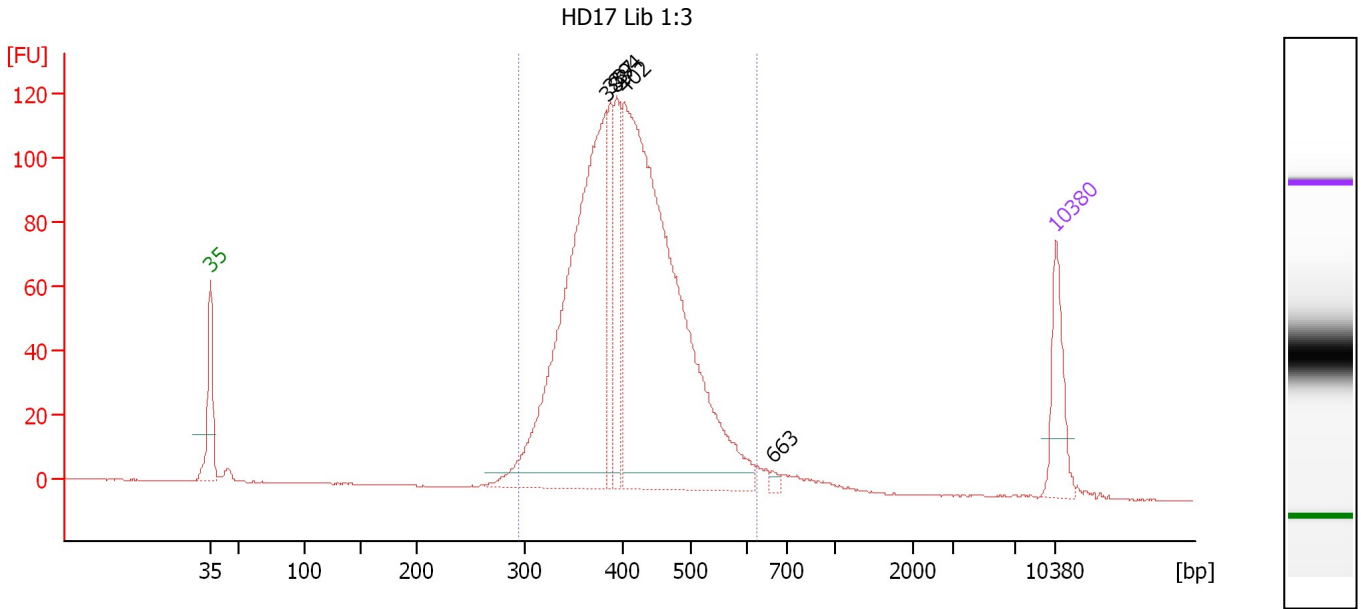
**Region table for sample 1 : HD16 Lib 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	642	416	7,015.6	1,871.30	1,424.9	95	15.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HD17 Lib 1:3**

Number of peaks found: 5                      Corr. Area 1: 1,624.6  
 Noise: 0.2

**Peak table for sample 2 : HD17 Lib 1:3**

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	75.77	383	834.31	3,302.4	
3	76.08	387	127.08	498.0	
4	76.65	394	146.09	562.2	
5	77.27	402	1,110.74	4,186.0	
6	89.50	663	7.38	16.9	
7	113.00	10,380	75.00	10.9	Upper Marker

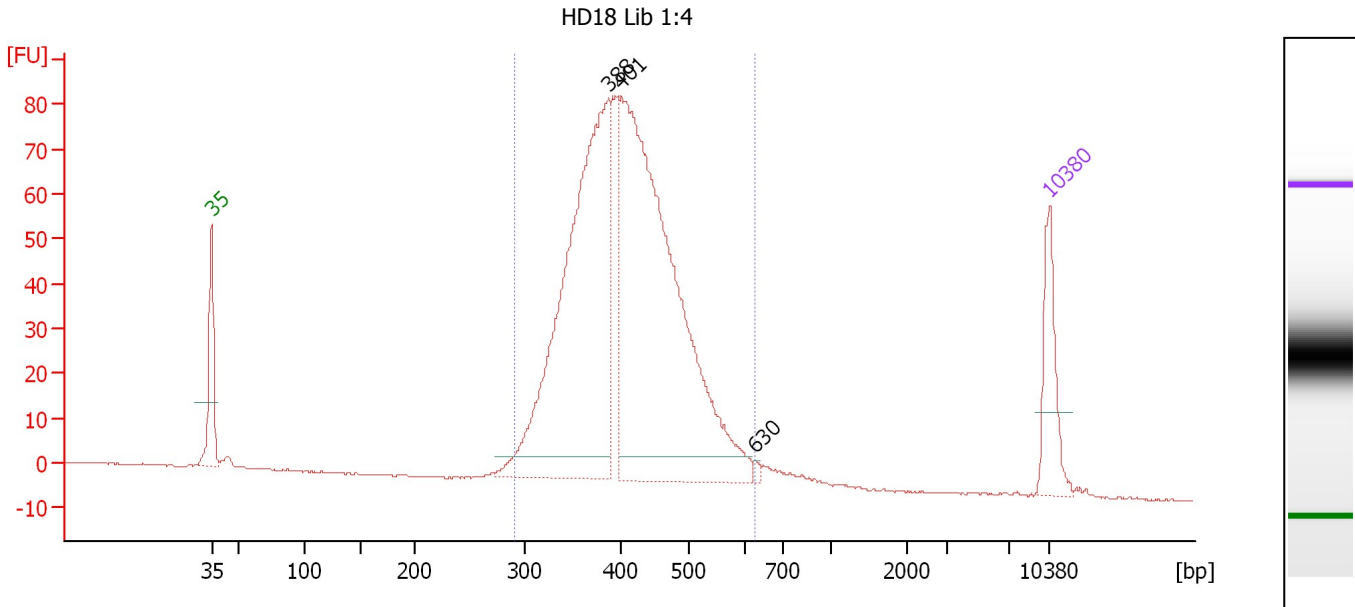
**Region table for sample 2 : HD17 Lib 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
294	622	413	8,385.5	2,227.68	1,624.6	95	15.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HD18 Lib 1:4**

Number of peaks found: 3                      Corr. Area 1: 1,166.4  
 Noise: 0.2

**Peak table for sample 3 : HD18 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	76.15	388	776.26	3,035.1	
3	77.22	401	950.12	3,588.8	
4	88.45	630	4.96	11.9	
5	113.00	10,380	75.00	10.9	Upper Marker

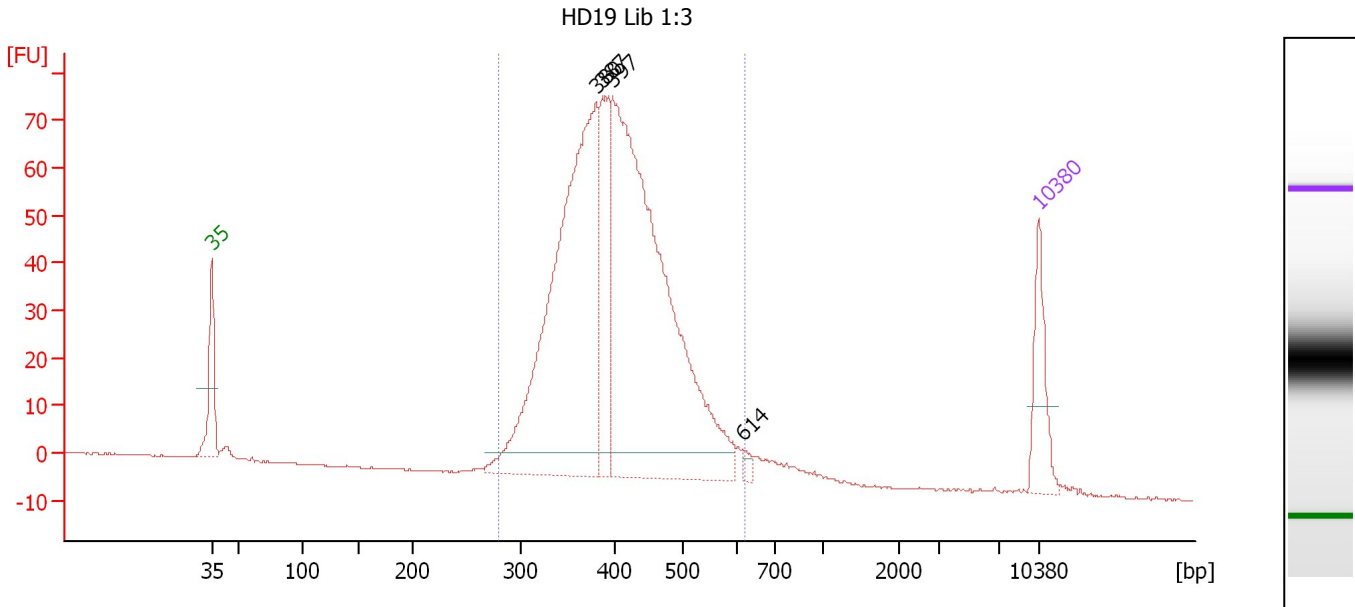
**Region table for sample 3 : HD18 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
292	628	414	7,085.6	1,884.34	1,166.4	97	15.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HD19 Lib 1:3**

Number of peaks found: 4                      Corr. Area 1: 1,102.2  
 Noise: 0.2

**Peak table for sample 4 : HD19 Lib 1:3**

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	75.54	380	901.35	3,594.5	
3	76.08	387	197.87	775.4	
4	76.94	397	1,079.80	4,117.8	
5	87.95	614	10.87	26.8	
6	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : HD19 Lib 1:3**

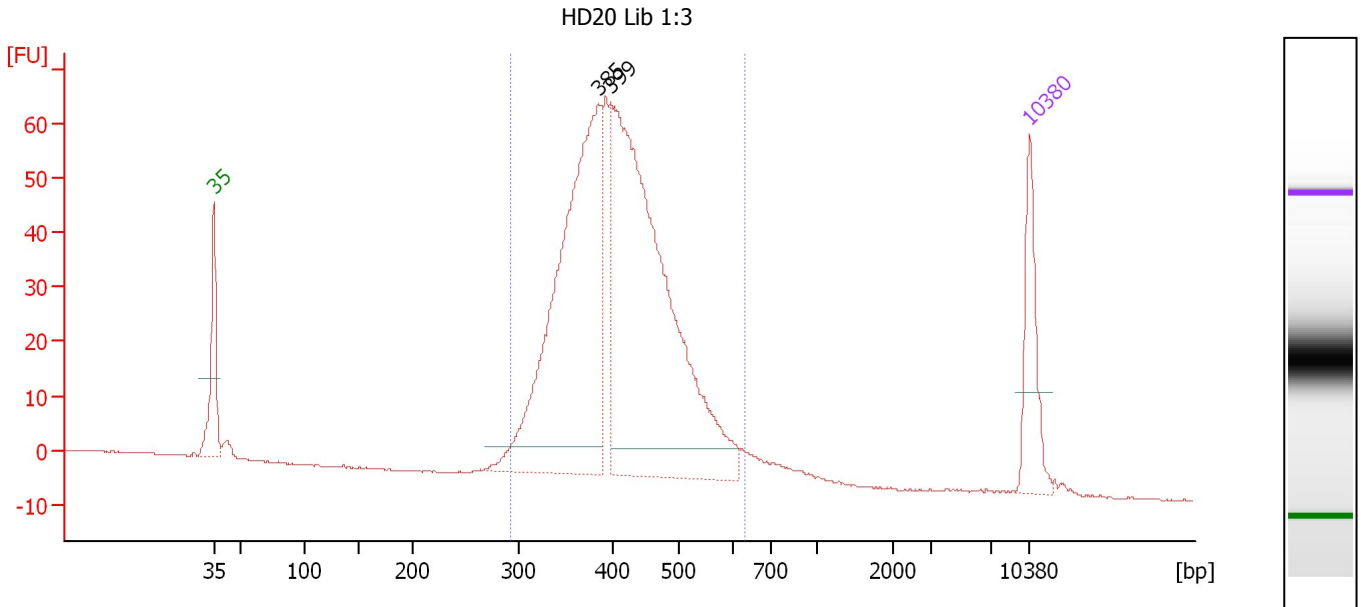
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	621	408	8,320.0	2,177.66	1,102.2	96	15.7	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HD20 Lib 1:3**

Number of peaks found: 2      Corr. Area 1: 922.2  
 Noise: 0.1

**Peak table for sample 5 : HD20 Lib 1:3**

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	75.97	385	645.45	2,538.7	
3	77.06	399	803.30	3,051.6	
4	113.00	10,380	75.00	10.9	Upper Marker

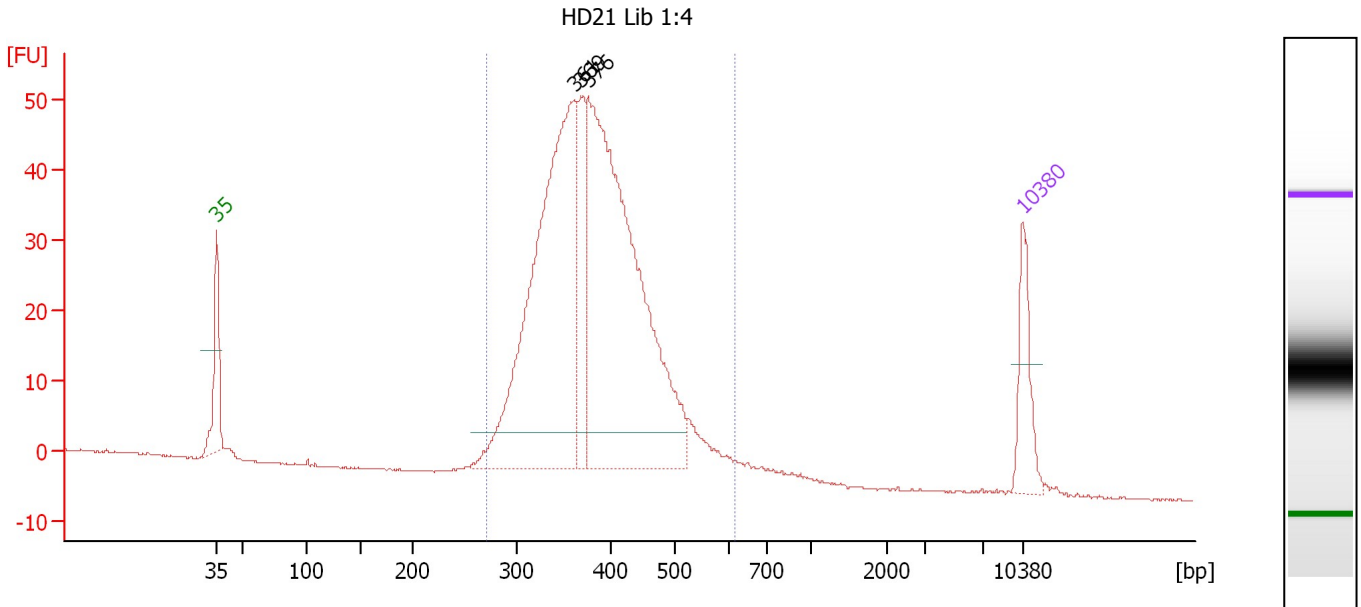
**Region table for sample 5 : HD20 Lib 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
292	634	416	5,768.5	1,537.42	922.2	95	15.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HD21 Lib 1:4**

Number of peaks found: 3                      Corr. Area 1: 737.4  
 Noise: 0.1

**Peak table for sample 6 : HD21 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	74.04	361	857.78	3,597.3	
3	74.64	369	149.63	614.8	
4	75.24	376	989.59	3,985.0	
5	113.00	10,380	75.00	10.9	Upper Marker

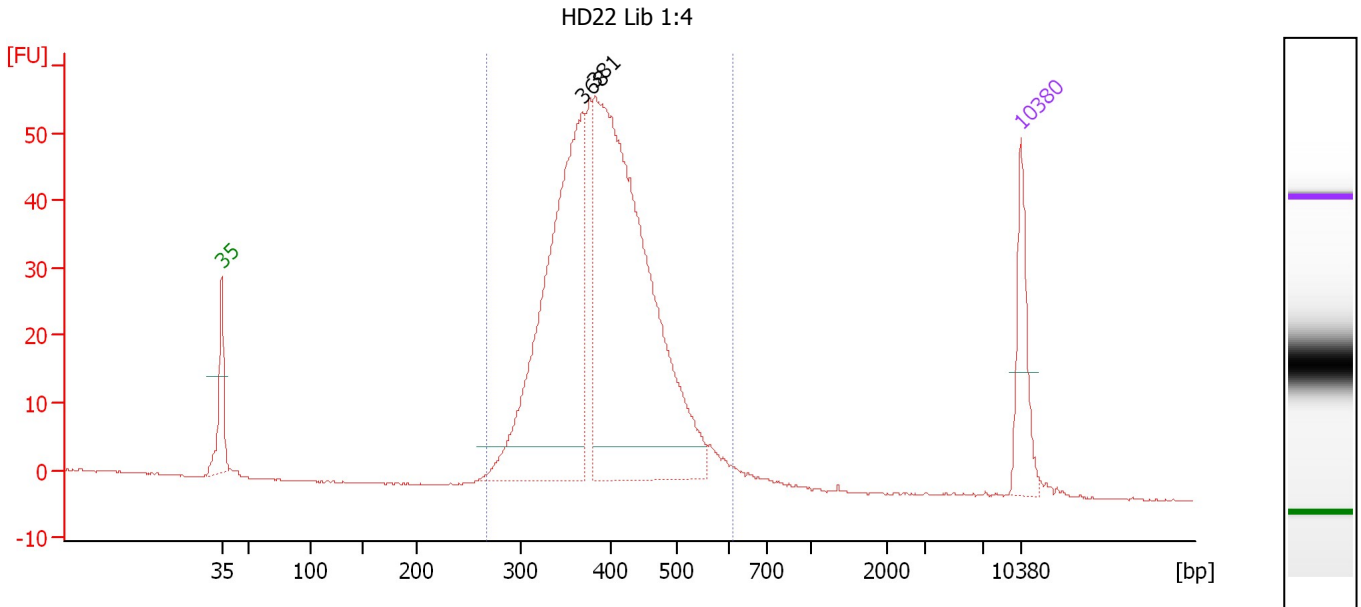
**Region table for sample 6 : HD21 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
270	615	387	8,489.4	2,107.80	737.4	97	15.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HD22 Lib 1:4**

Number of peaks found: 2                      Corr. Area 1: 763.1  
 Noise: 0.1

**Peak table for sample 7 : HD22 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	74.61	368	677.69	2,786.9	
3	75.64	381	947.88	3,767.6	
4	113.00	10,380	75.00	10.9	Upper Marker

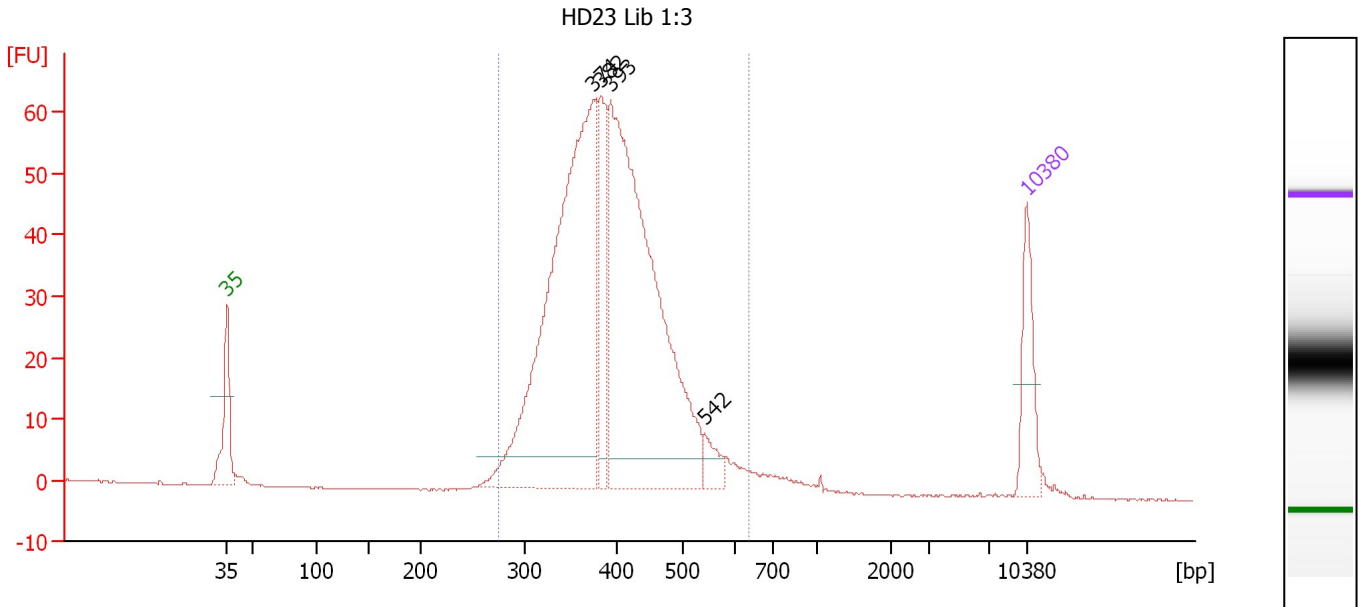
**Region table for sample 7 : HD22 Lib 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
268	607	397	6,989.4	1,782.95	763.1	98	15.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HD23 Lib 1:3**

Number of peaks found: 4      Corr. Area 1: 859.6  
 Noise: 0.1

**Peak table for sample 8 : HD23 Lib 1:3**

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	75.06	374	911.07	3,691.2	
3	75.71	382	154.77	613.8	
4	76.60	393	875.79	3,375.6	
5	84.81	542	32.92	91.9	
6	113.00	10,380	75.00	10.9	Upper Marker

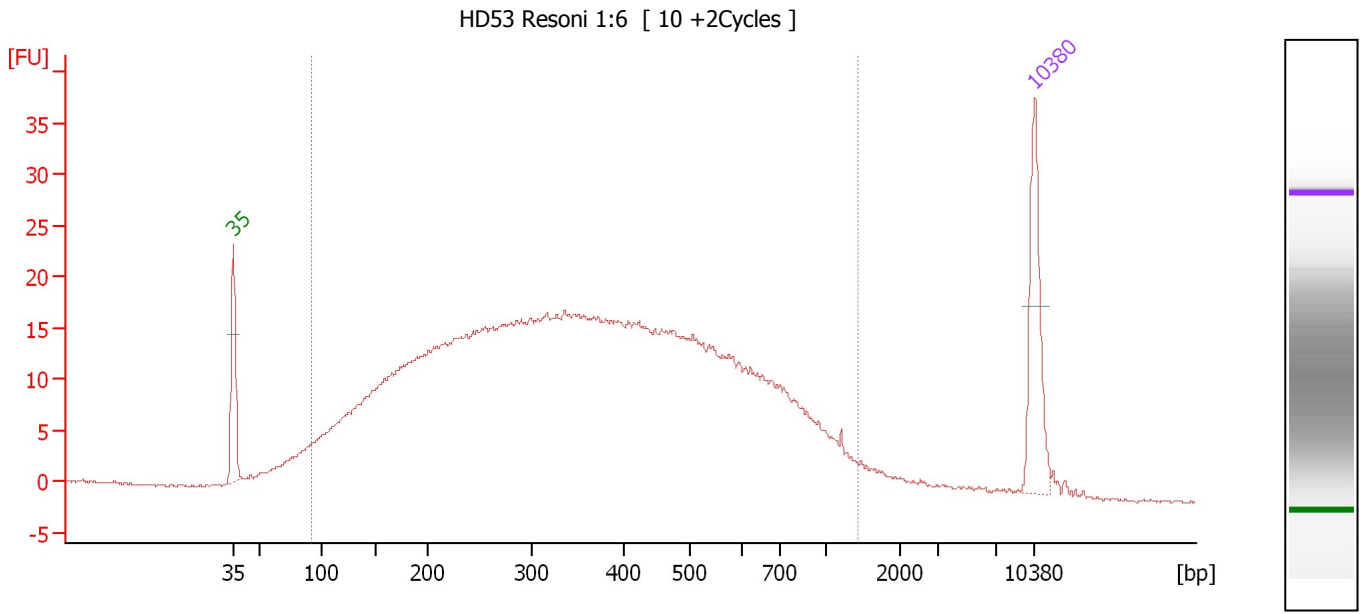
**Region table for sample 8 : HD23 Lib 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
274	635	398	8,091.3	2,060.65	859.6	97	16.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HD53 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 829.1  
 Noise: 0.1

**Peak table for sample 9 : HD53 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

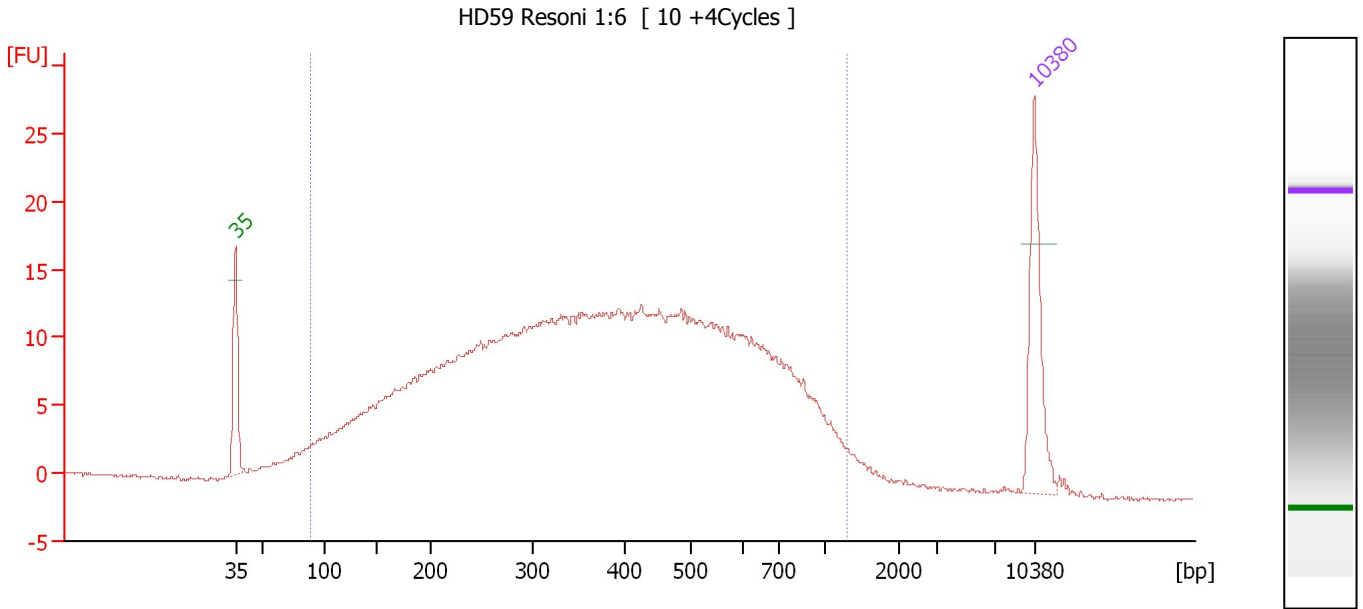
**Region table for sample 9 : HD53 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
92	1,450	399	15,857.3	2,760.86	829.1	94	55.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HD59 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 593.4  
 Noise: 0.1

**Peak table for sample 10 : HD59 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

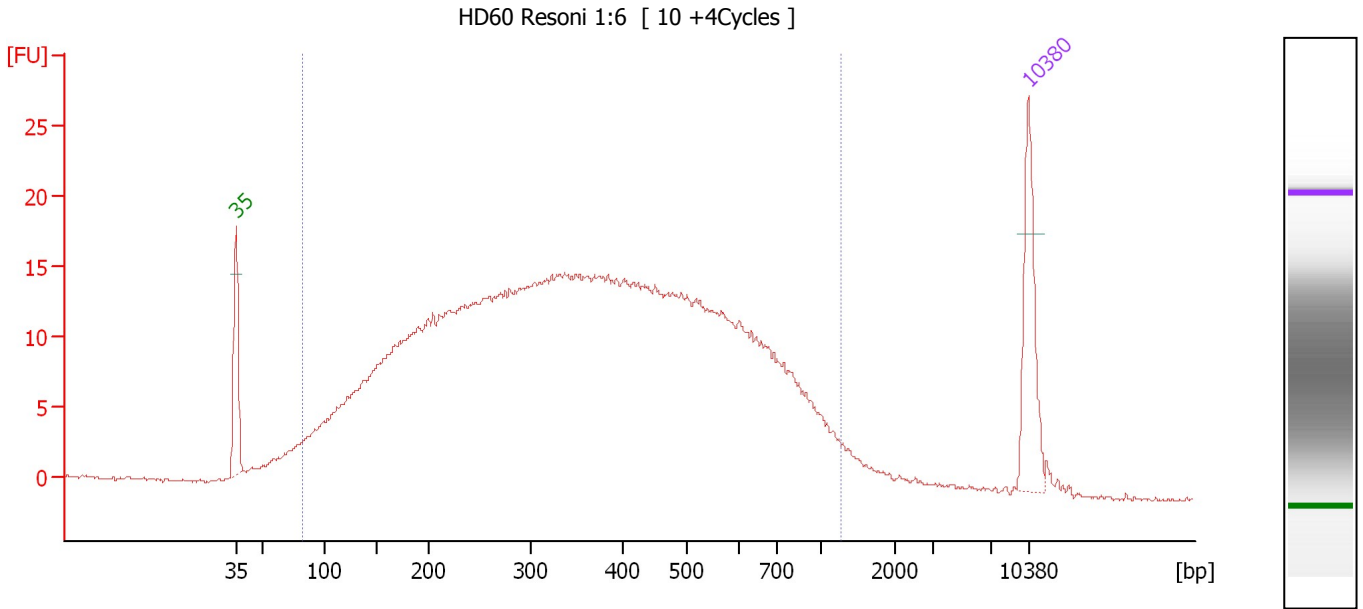
**Region table for sample 10 : HD59 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
90	1,282	416	13,834.8	2,541.89	593.4	95	50.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
 Modified: 1/2/2014 4:39:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HD60 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 714.7  
 Noise: 0.1

**Peak table for sample 11 : HD60 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 : HD60 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	1,283	393	18,650.8	3,196.99	714.7	96	51.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-02\2014-01-02\_002.xad

Created: 1/2/2014 3:57:19 PM  
Modified: 1/2/2014 4:39:48 PM

**Gel Image**

