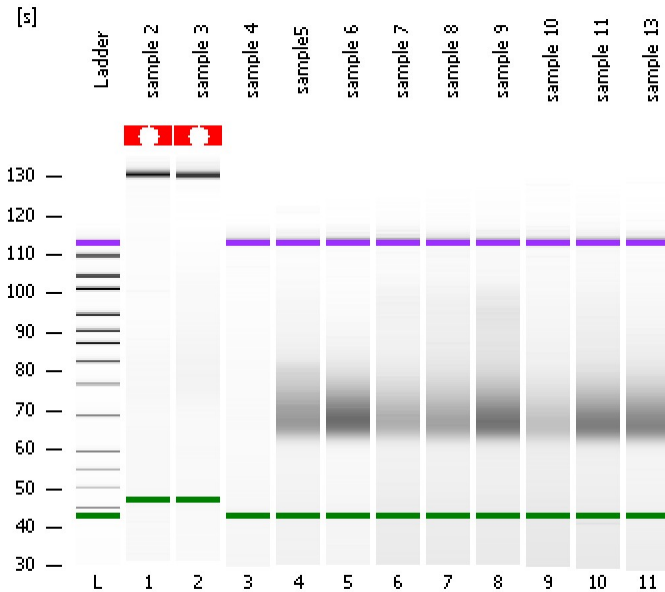


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
Modified: 10/30/2013 2:47:39 PM

**Electrophoresis File Run Summary**



Instrument Information:

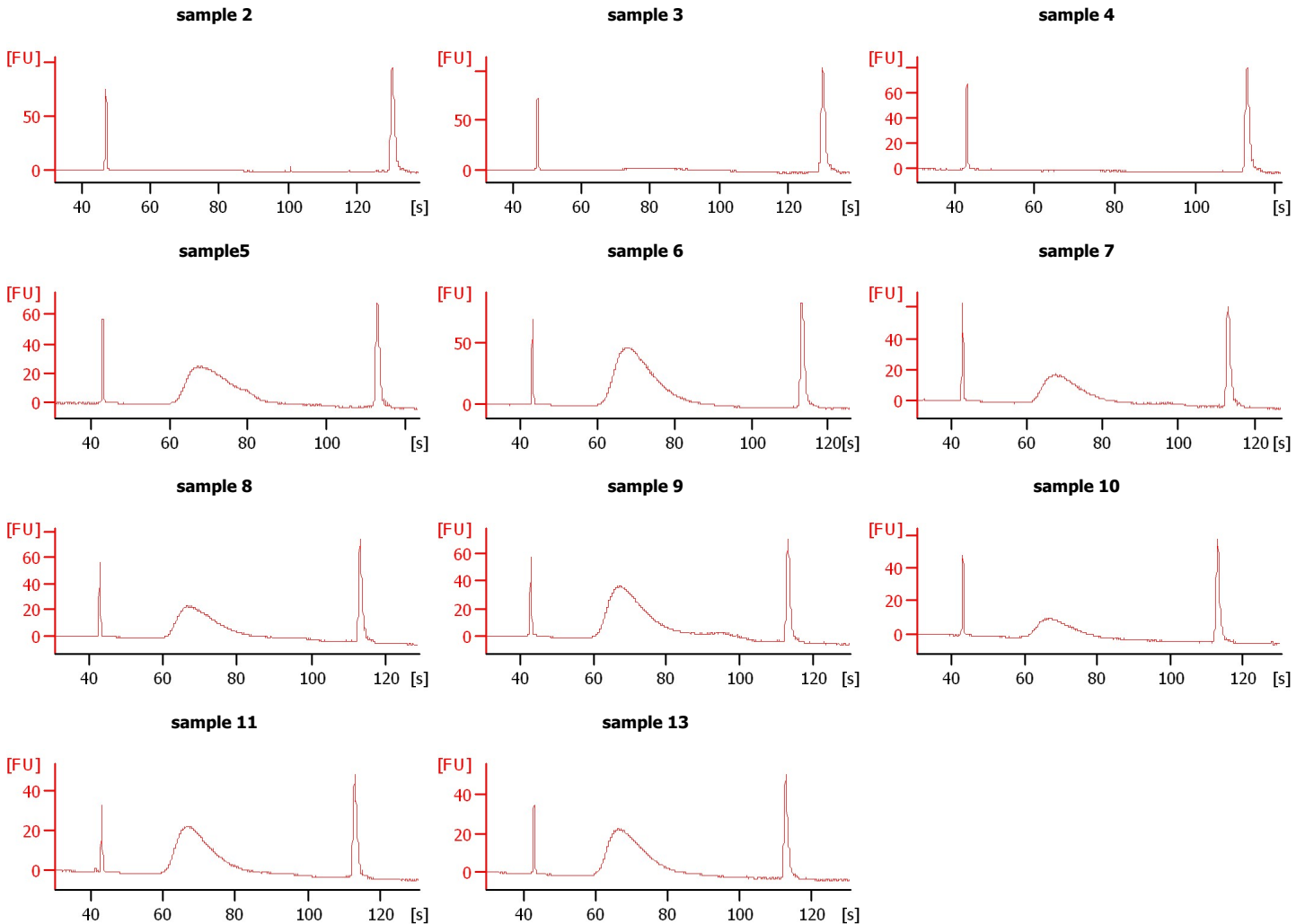
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
sample 13		<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\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
Modified: 10/30/2013 2:47:39 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

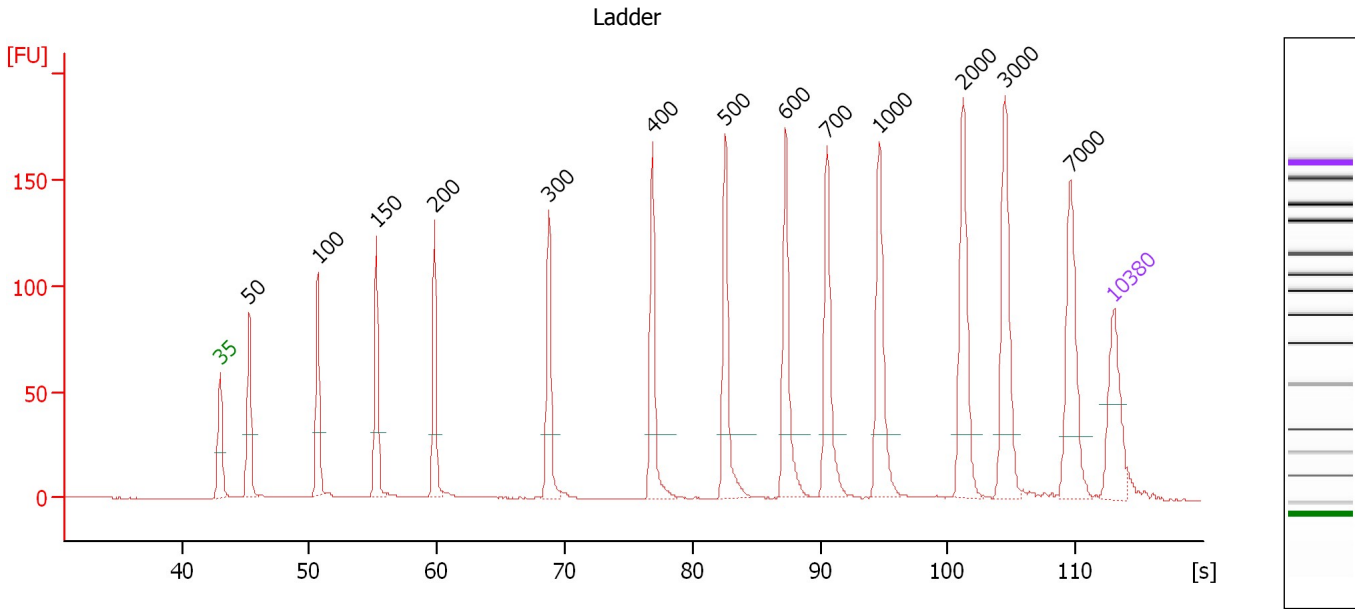
**Ladder**

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\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

**Peak table for Ladder**

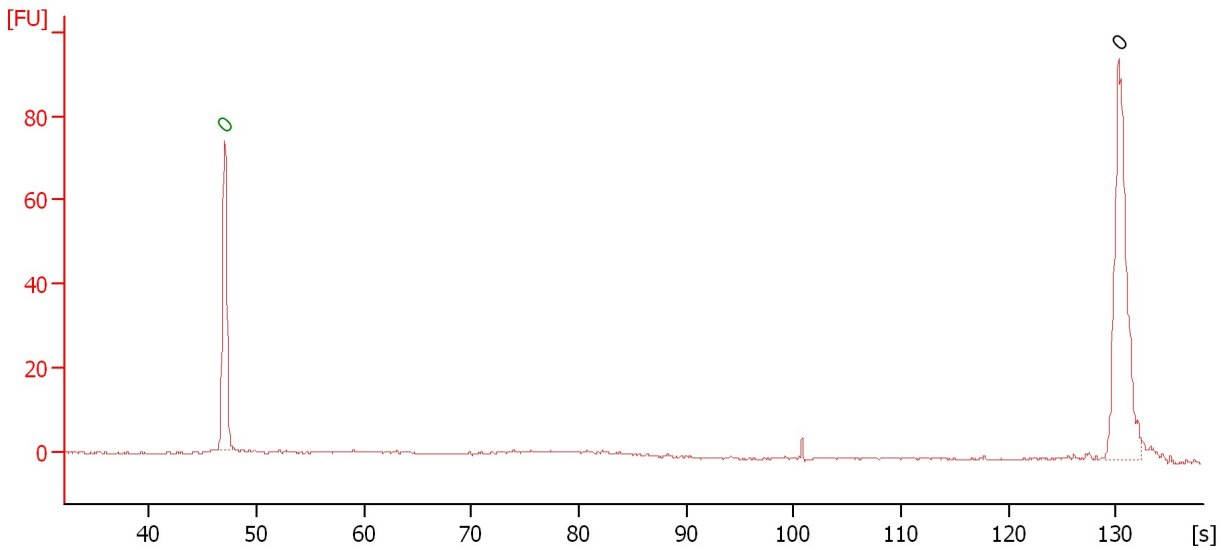
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	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\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**

sample 2



**Overall Results for sample 1 : sample 2**

Number of peaks found: 1                      Noise: 0.2

**Peak table for sample 1 : sample 2**

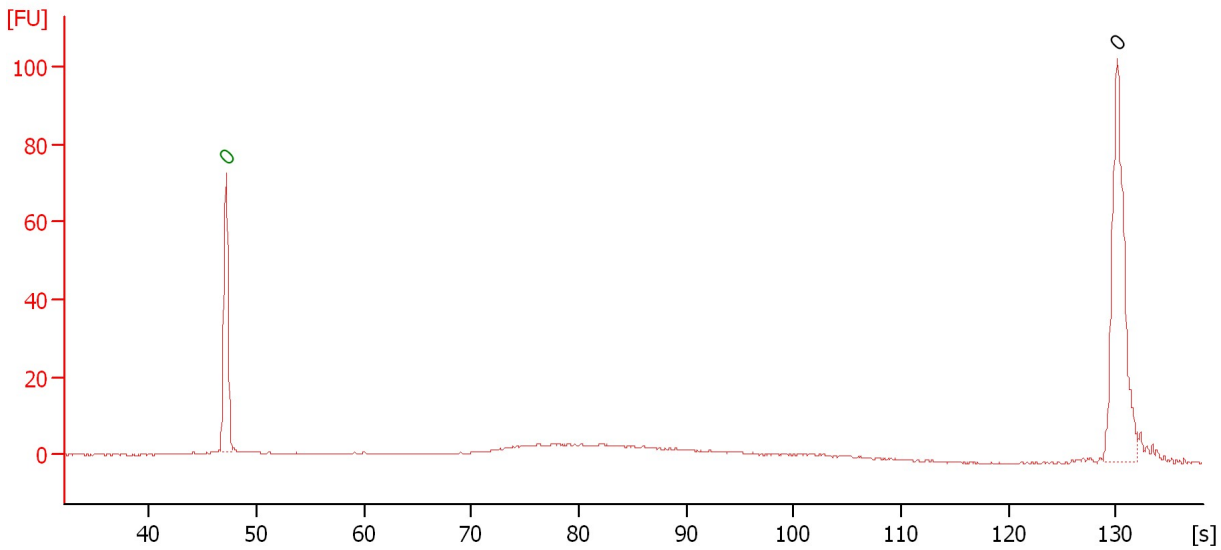
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**

sample 3



**Overall Results for sample 2 : sample 3**

Number of peaks found: 1                      Noise: 0.1

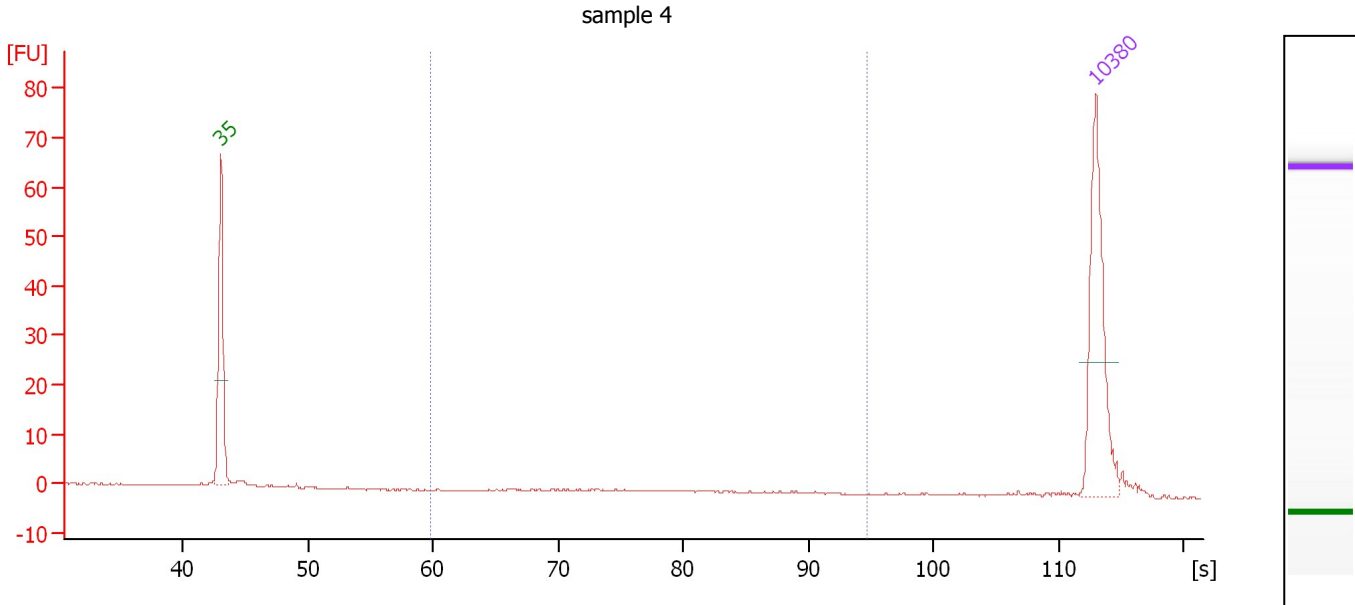
**Peak table for sample 2 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 4**

Number of peaks found: 0                      Corr. Area 1: 1.4  
 Noise: 0.1

**Peak table for sample 3 : sample 4**

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

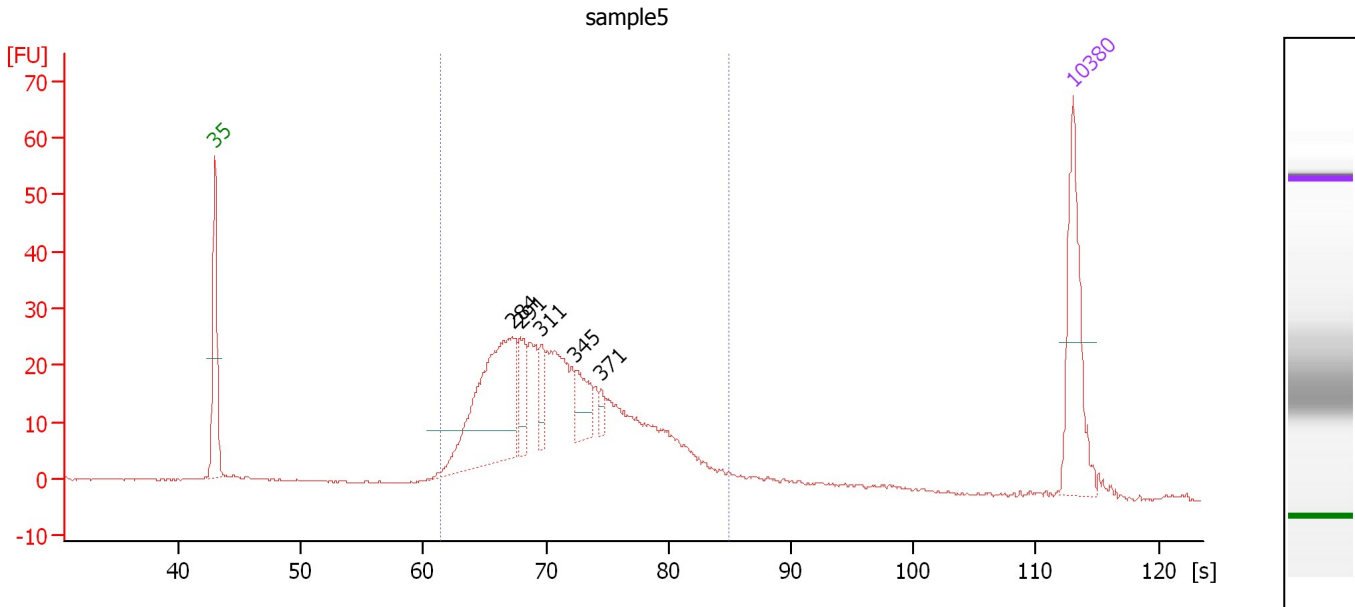
**Region table for sample 3 : sample 4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	519	5.2	1.62	1.4	10	25.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample5**

Number of peaks found: 5                      Corr. Area 1: 522.1  
 Noise: 0.1

**Peak table for sample 4 : sample5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	284	202.91	1,084.4	
3	291	37.42	194.9	
4	311	24.37	118.7	
5	345	35.12	154.0	
6	371	8.69	35.5	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : sample5**

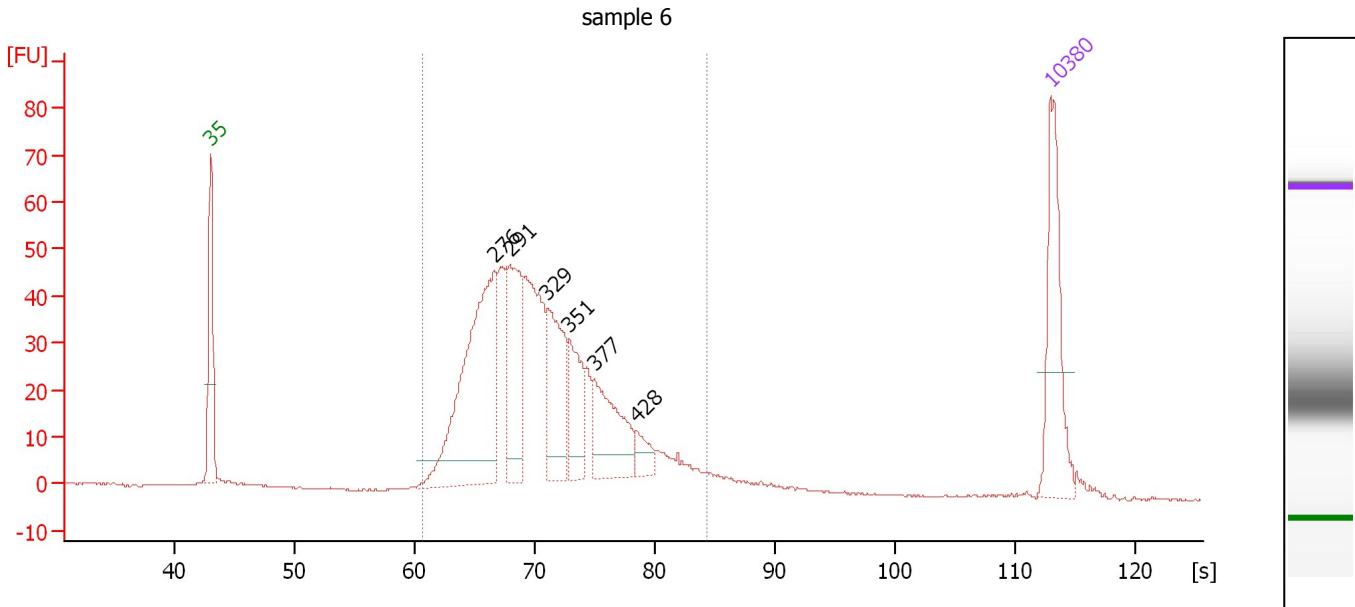
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
219	551	338	3,871.7	814.63	522.1	87	21.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 6**

Number of peaks found: 6                      Corr. Area 1: 821.3  
 Noise: 0.1

**Peak table for sample 5 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	276	275.12	1,508.1	
3	291	115.07	599.3	
4	329	98.06	452.2	
5	351	60.73	262.5	
6	377	82.42	331.7	
7	428	17.19	60.9	
8	10,380	75.00	10.9	Upper Marker

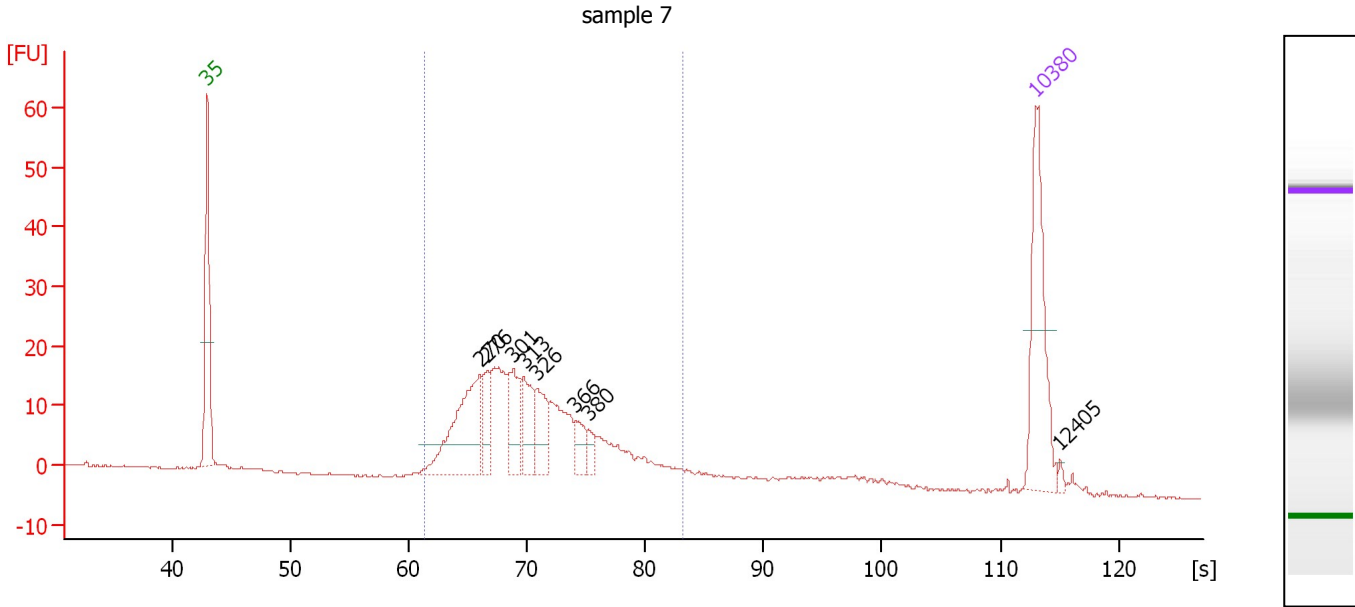
**Region table for sample 5 : sample 6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
209	538	325	4,839.5	990.48	821.3	96	19.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 7**

Number of peaks found: 8                      Corr. Area 1: 308.1  
 Noise: 0.1

**Peak table for sample 6 : sample 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	113.10	634.9	
3	276	26.81	146.9	
4	301	45.46	228.9	
5	313	36.94	179.1	
6	326	37.30	173.3	
7	366	17.05	70.5	
8	380	9.93	39.6	
9	10,380	75.00	10.9	Upper Marker
10	12,405	0.00	0.0	

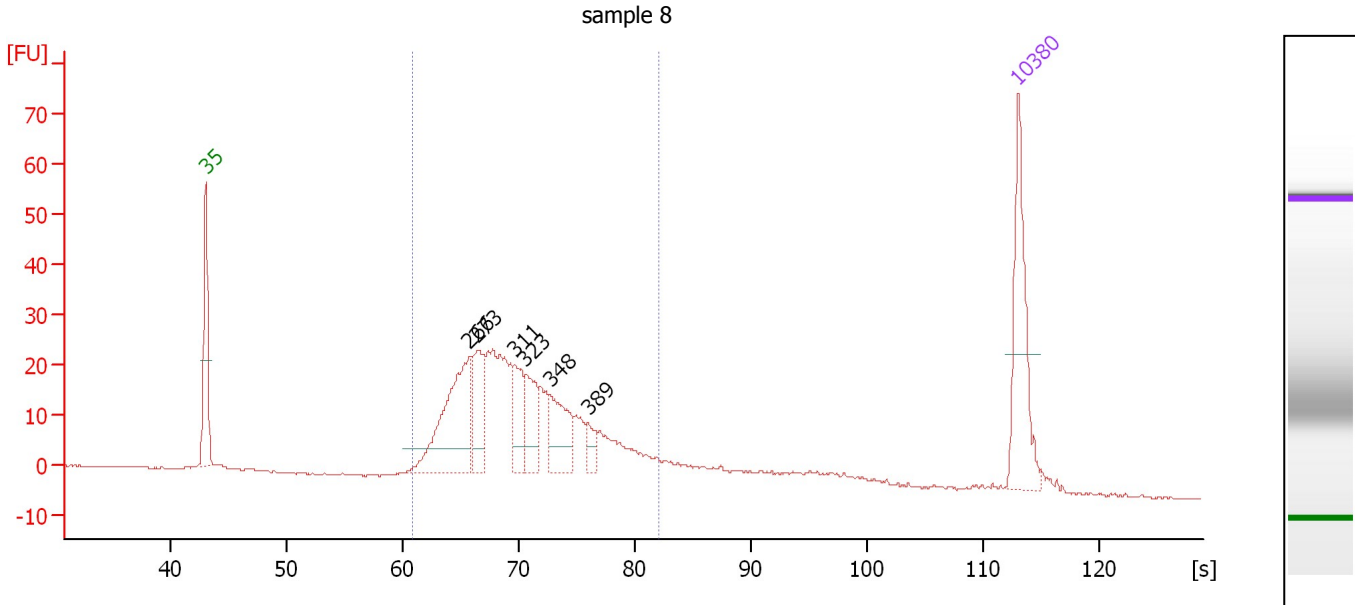
**Region table for sample 6 : sample 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	511	323	2,464.6	503.12	308.1	87	18.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 8**

Number of peaks found: 6                      Corr. Area 1: 441.3  
 Noise: 0.1

**Peak table for sample 7 : sample 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	150.90	860.6	
3	273	64.52	357.5	
4	311	44.48	216.6	
5	323	47.99	225.4	
6	348	55.99	243.6	
7	389	15.93	62.1	
8	10,380	75.00	10.9	Upper Marker

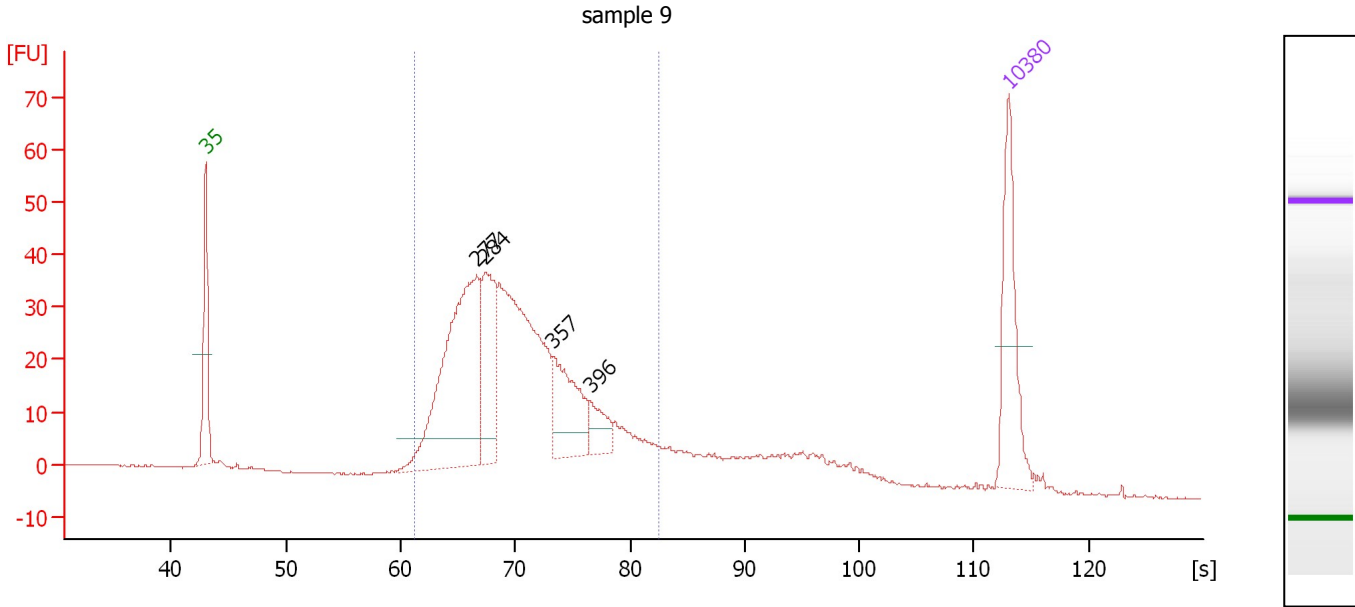
**Region table for sample 7 : sample 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	492	321	3,312.8	670.48	441.3	83	19.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 9**

Number of peaks found: 4                      Corr. Area 1: 666.6  
 Noise: 0.1

**Peak table for sample 8 : sample 9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	291.29	1,595.8	
3	284	110.73	589.9	
4	357	85.15	361.8	
5	396	26.91	102.9	
6	10,380	75.00	10.9	Upper Marker

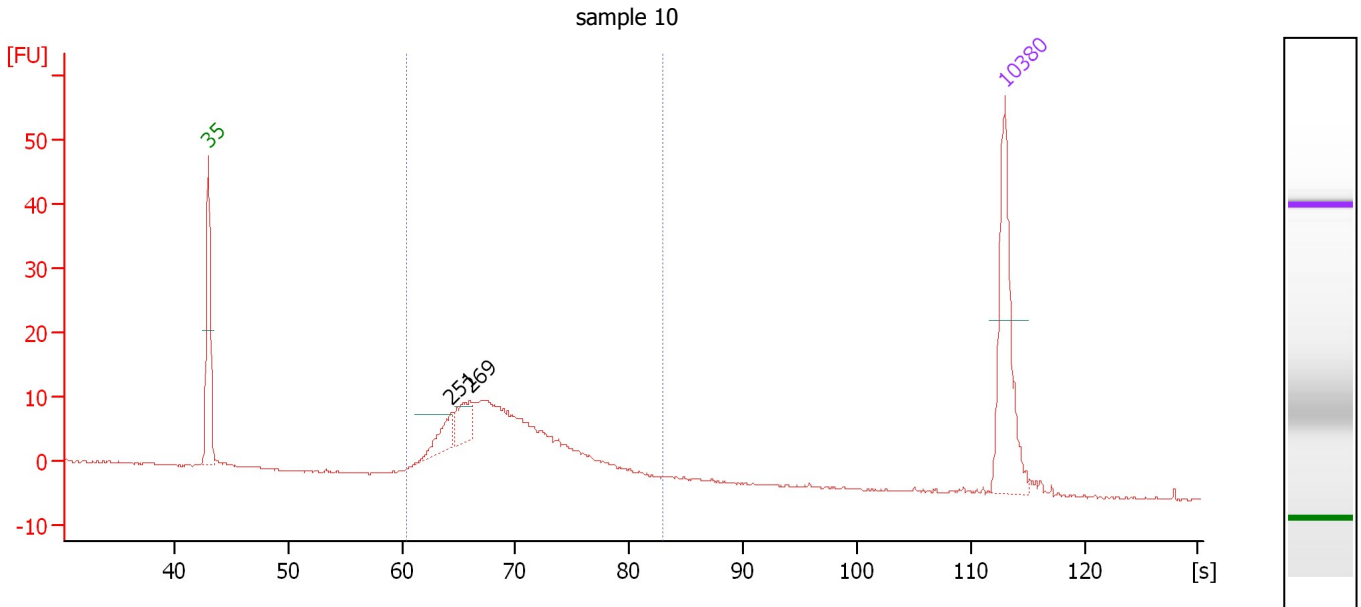
**Region table for sample 8 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
217	500	322	4,708.6	954.85	666.6	82	19.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 10**

Number of peaks found: 2                      Corr. Area 1: 187.9  
 Noise: 0.1

**Peak table for sample 9 : sample 10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	251	24.05	145.0	
3	269	26.15	147.1	
4	10,380	75.00	10.9	Upper Marker

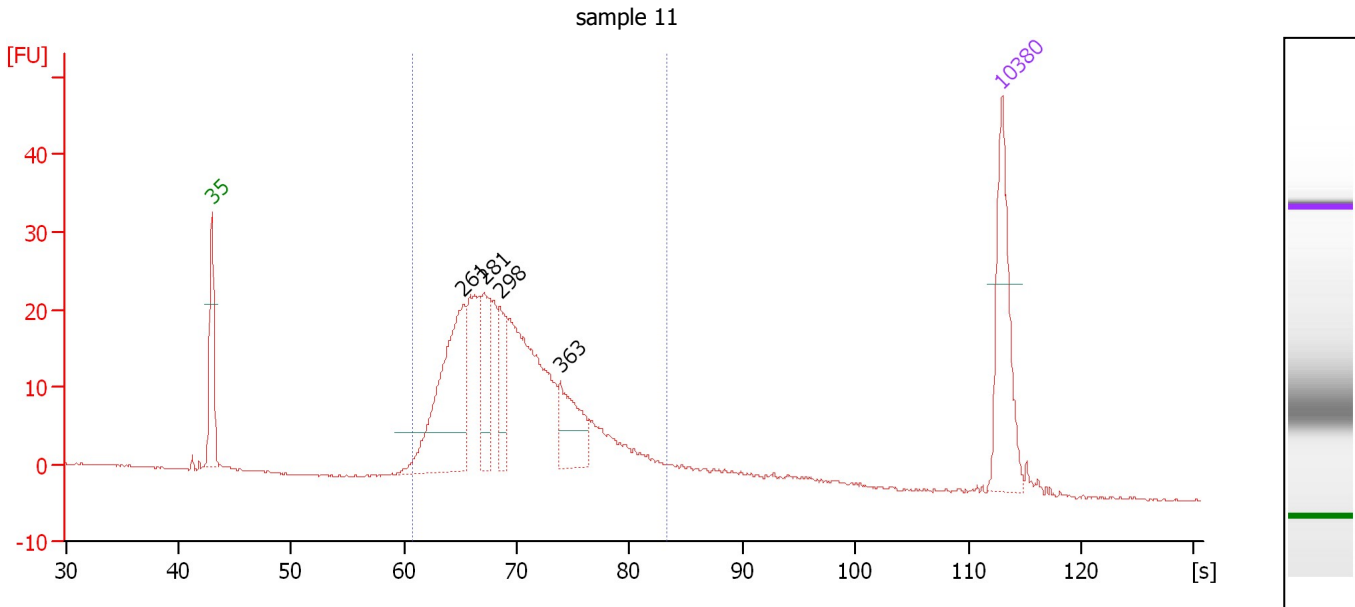
**Region table for sample 9 : sample 10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
207	508	311	1,758.9	346.45	187.9	93	18.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 11**

Number of peaks found: 4                      Corr. Area 1: 391.9  
 Noise: 0.1

**Peak table for sample 10 : sample 11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	187.86	1,089.7	
3	281	56.90	306.4	
4	298	52.49	267.0	
5	363	57.72	240.7	
6	10,380	75.00	10.9	Upper Marker

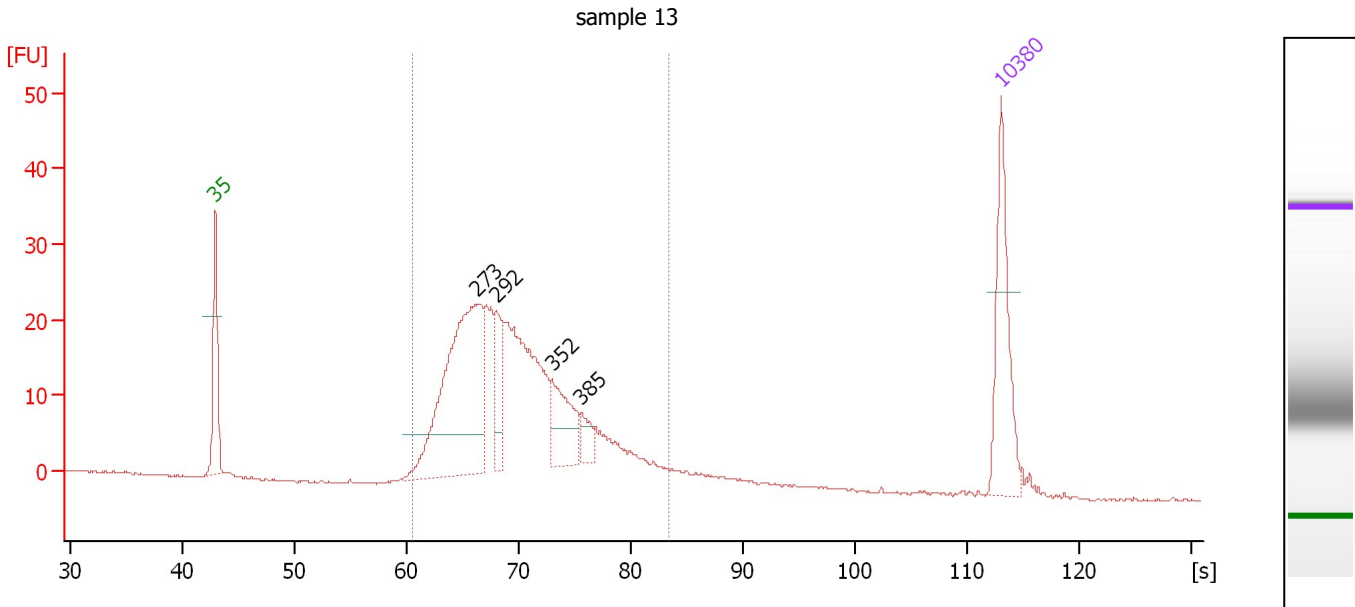
**Region table for sample 10 : sample 11**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	514	316	4,034.7	802.19	391.9	91	19.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
 Modified: 10/30/2013 2:47:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 13**

Number of peaks found: 4                      Corr. Area 1: 387.7  
 Noise: 0.1

**Peak table for sample 11 : sample 13**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	292.89	1,627.2	
3	292	50.47	261.9	
4	352	64.59	277.7	
5	385	16.78	66.1	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : sample 13**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
209	518	316	4,230.9	841.95	387.7	95	19.7	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_007.xad

Created: 10/30/2013 2:06:39 PM  
Modified: 10/30/2013 2:47:39 PM

**Gel Image**

