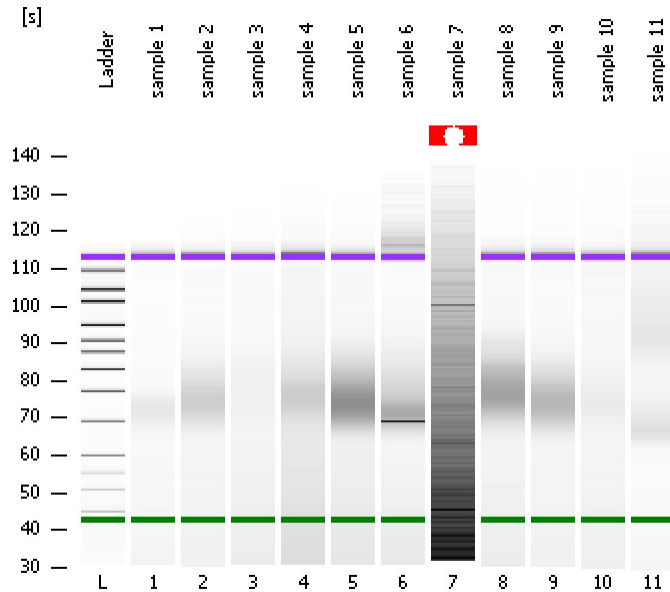


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
Modified: 9/30/2013 3:10:36 PM

### Electrophoresis File Run Summary



#### Instrument Information:

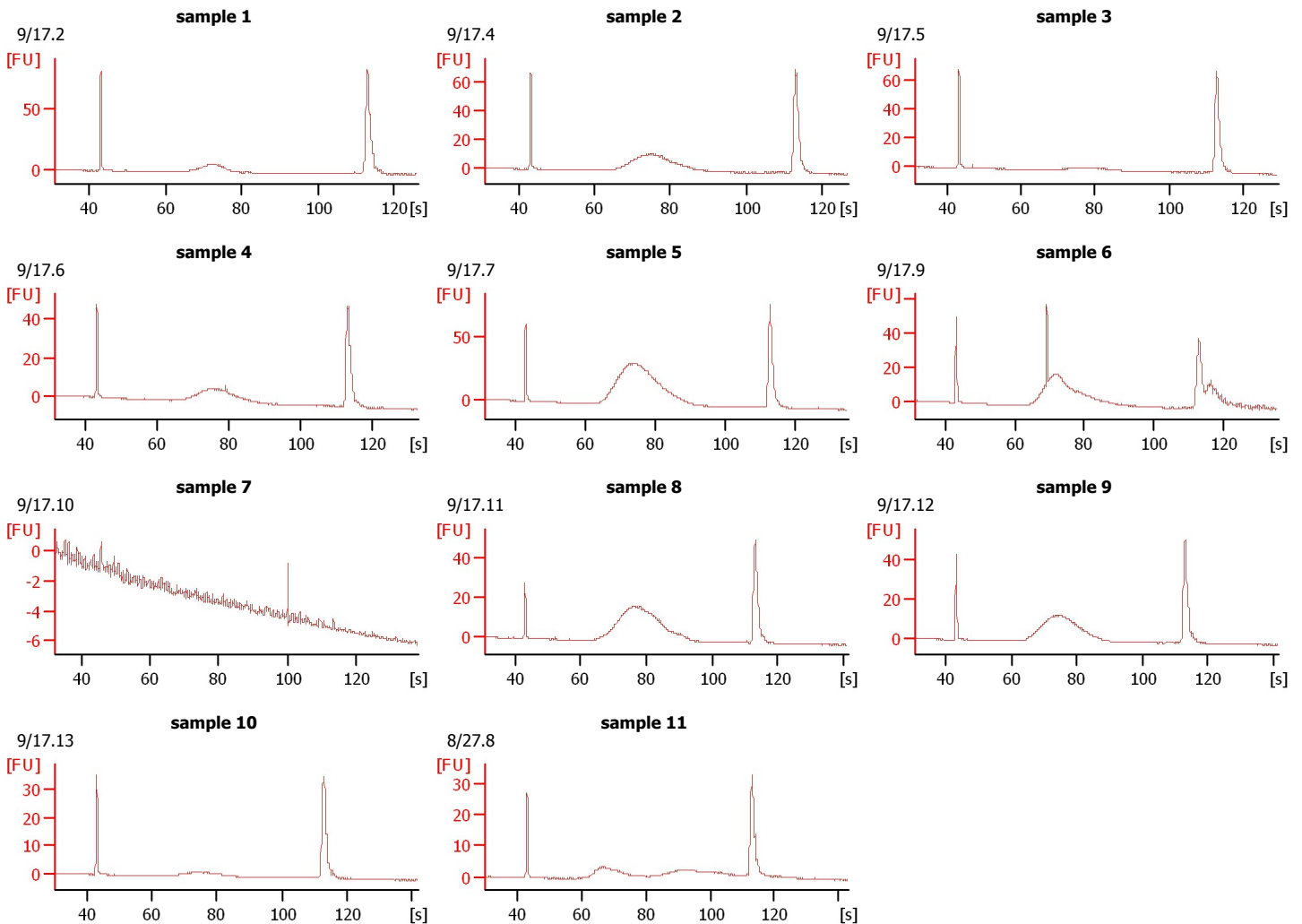
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
Modified: 9/30/2013 3:10:36 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	9/17.2	<input type="checkbox"/>	✓			
sample 2	9/17.4	<input type="checkbox"/>	✓			
sample 3	9/17.5	<input type="checkbox"/>	✓			
sample 4	9/17.6	<input type="checkbox"/>	✓			
sample 5	9/17.7	<input type="checkbox"/>	✓			
sample 6	9/17.9	<input type="checkbox"/>	✓			
sample 7	9/17.10	<input type="checkbox"/>	✓			
sample 8	9/17.11	<input type="checkbox"/>	✓			
sample 9	9/17.12	<input type="checkbox"/>	✓			
sample 10	9/17.13	<input type="checkbox"/>	✓			
sample 11	8/27.8	<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\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
Modified: 9/30/2013 3:10:36 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

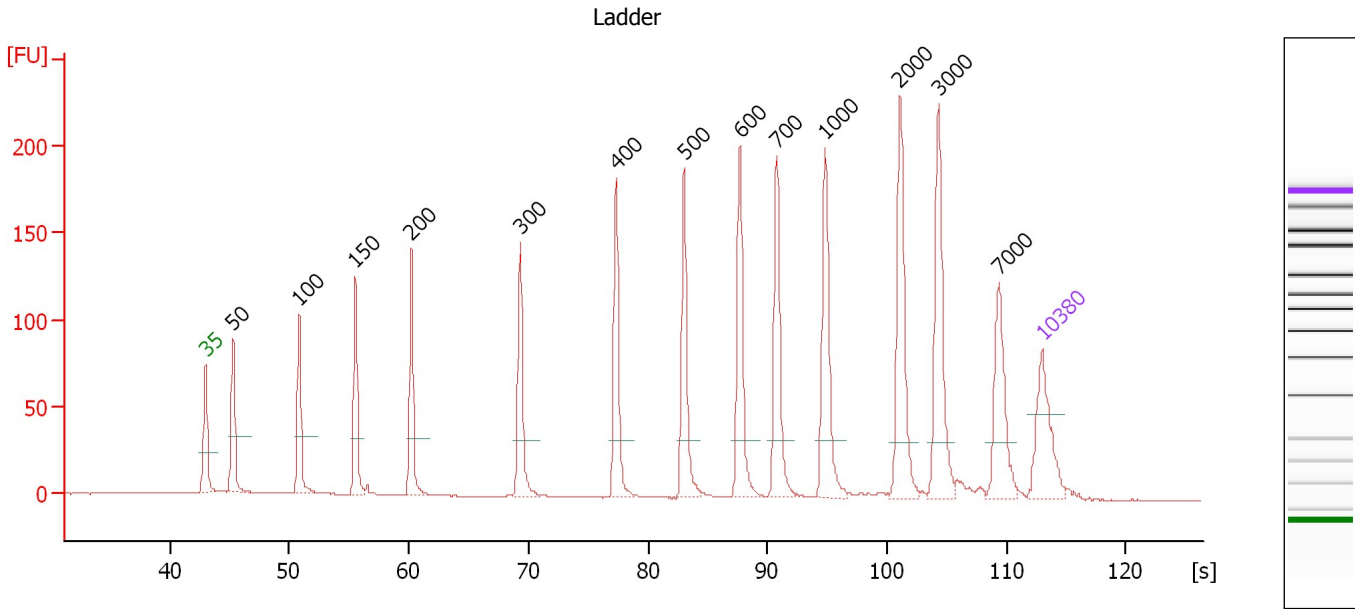
**Ladder**

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\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

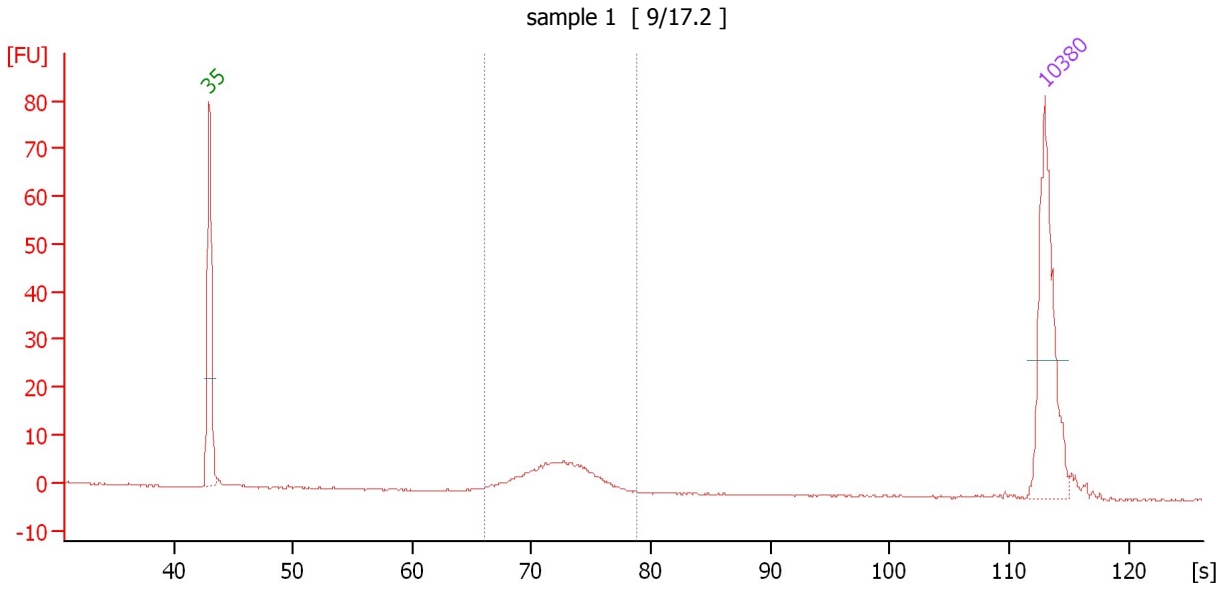
**Peak table for Ladder**

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\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 51.8  
 Noise: 0.2

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

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

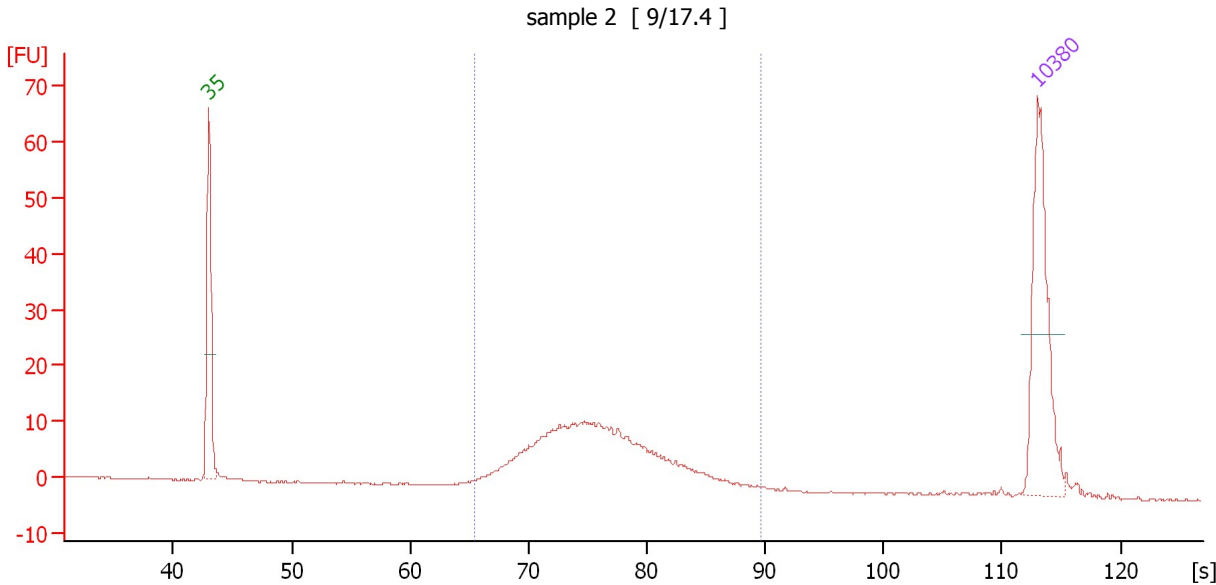
**Region table for sample 1 : sample 1**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
66.04	78.74	336	262.1	57.78	51.8	89	8.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 199.5  
 Noise: 0.1

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

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

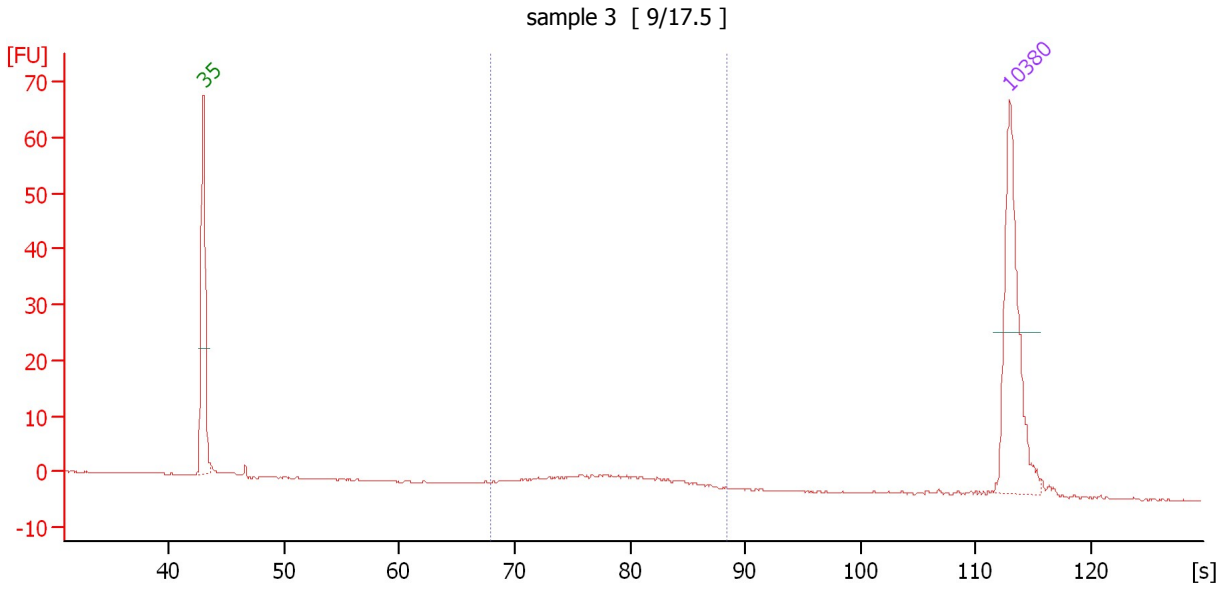
**Region table for sample 2 : sample 2**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
65.39	89.58	391	962.4	237.10	199.5	91	19.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 27.7  
 Noise: 0.1

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

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

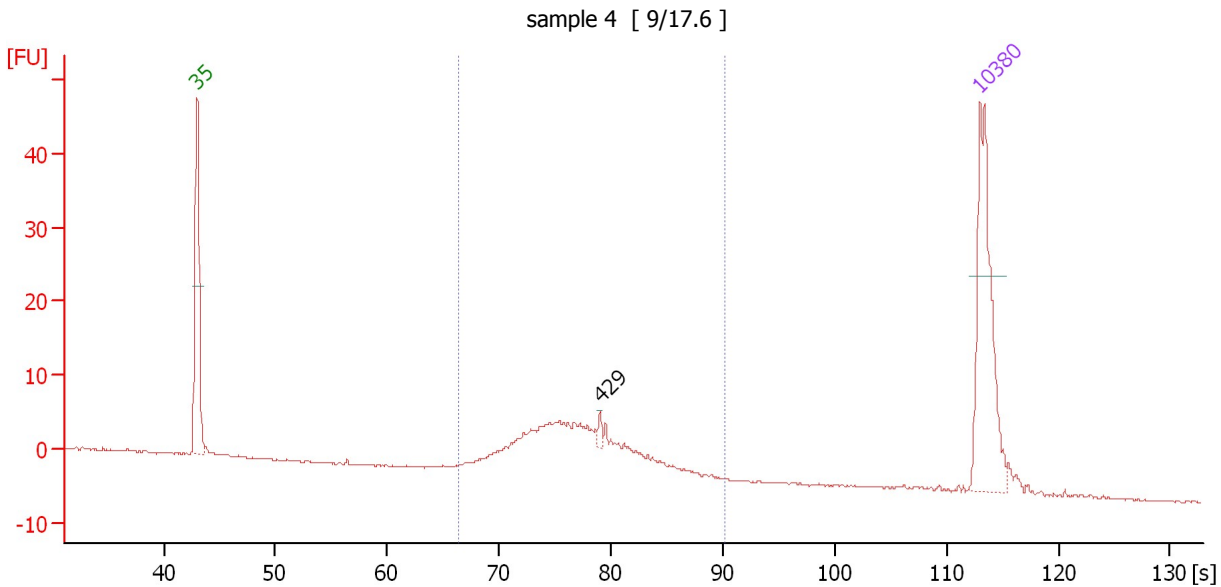
**Region table for sample 3 : sample 3**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
67.93	88.39	425	126.4	34.18	27.7	71	16.6	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 102.3  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	429	3.93	13.9	
3	10,380	75.00	10.9	Upper Marker

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

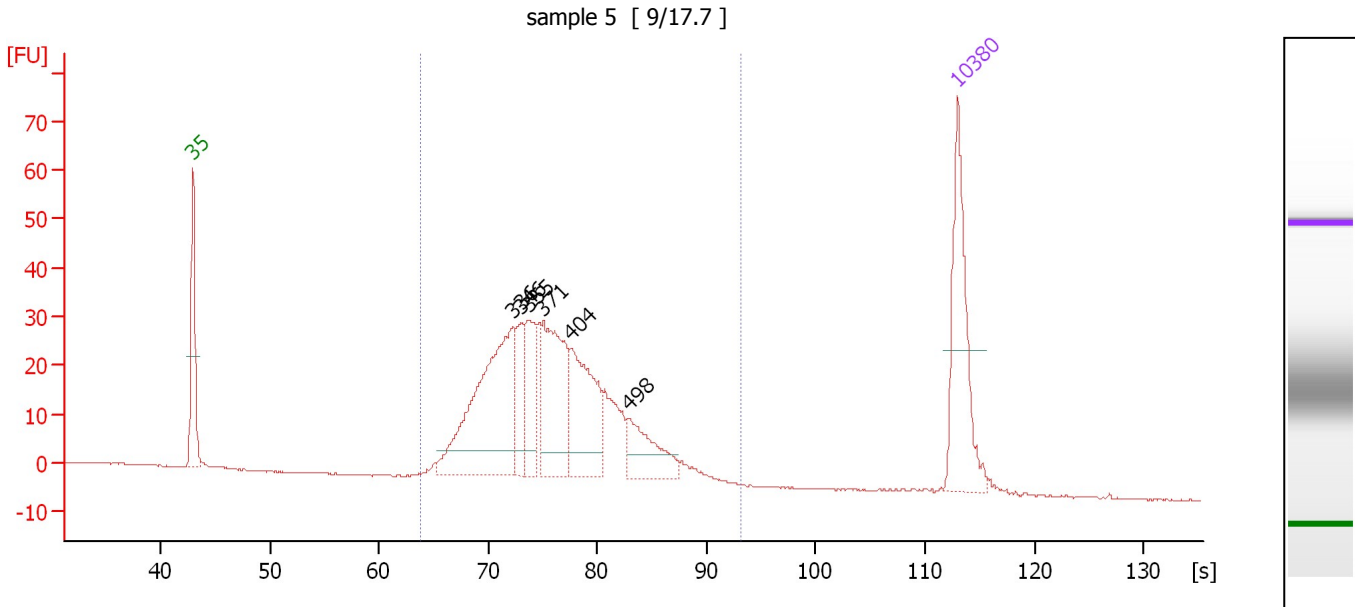
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
66.43	90.15	404	633.1	162.59	102.3	91	17.5	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 6                      Corr. Area 1: 569.9  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	336	186.65	840.9	
3	346	39.86	174.5	
4	355	54.05	230.9	
5	371	110.44	451.6	
6	404	89.51	335.6	
7	498	46.95	142.8	
8	10,380	75.00	10.9	Upper Marker

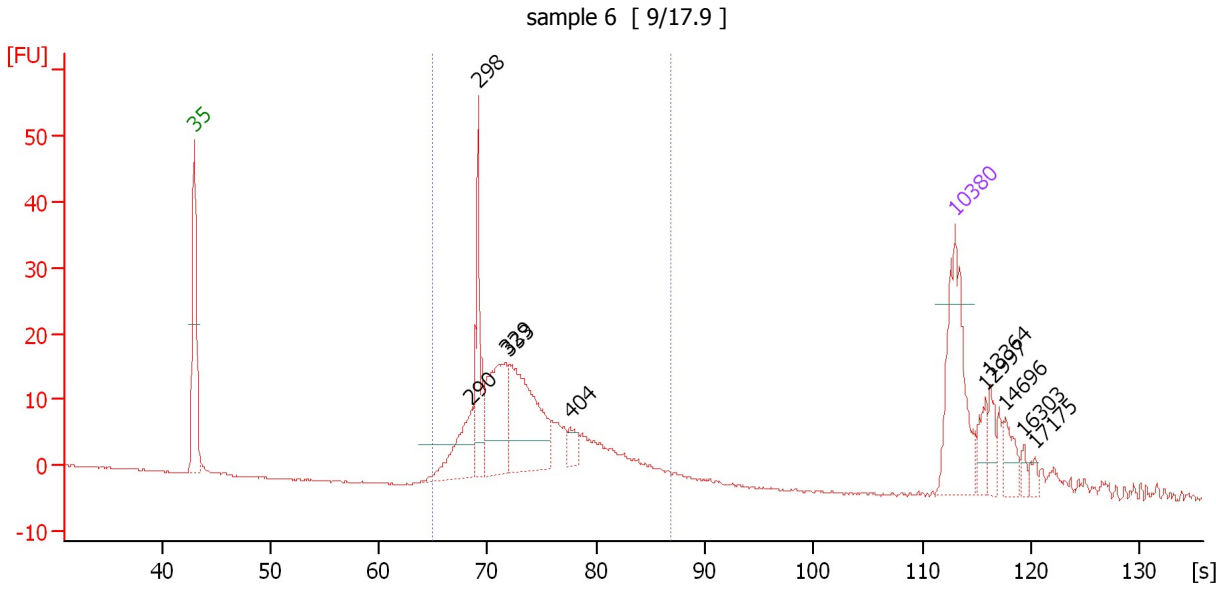
**Region table for sample 5 : sample 5**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
63.87	93.16	392	2,582.6	631.79	569.9	99	21.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 10      Corr. Area 1: 253.7  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	58.75	306.4	
3	298	71.41	363.0	
4	329	87.91	404.7	
5	333	117.92	535.8	
6	404	12.54	47.0	
7	10,380	75.00	10.9	Upper Marker
8	12,997	0.00	0.0	
9	13,364	0.00	0.0	
10	14,696	0.00	0.0	
11	16,303	0.00	0.0	
12	17,175	0.00	0.0	

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

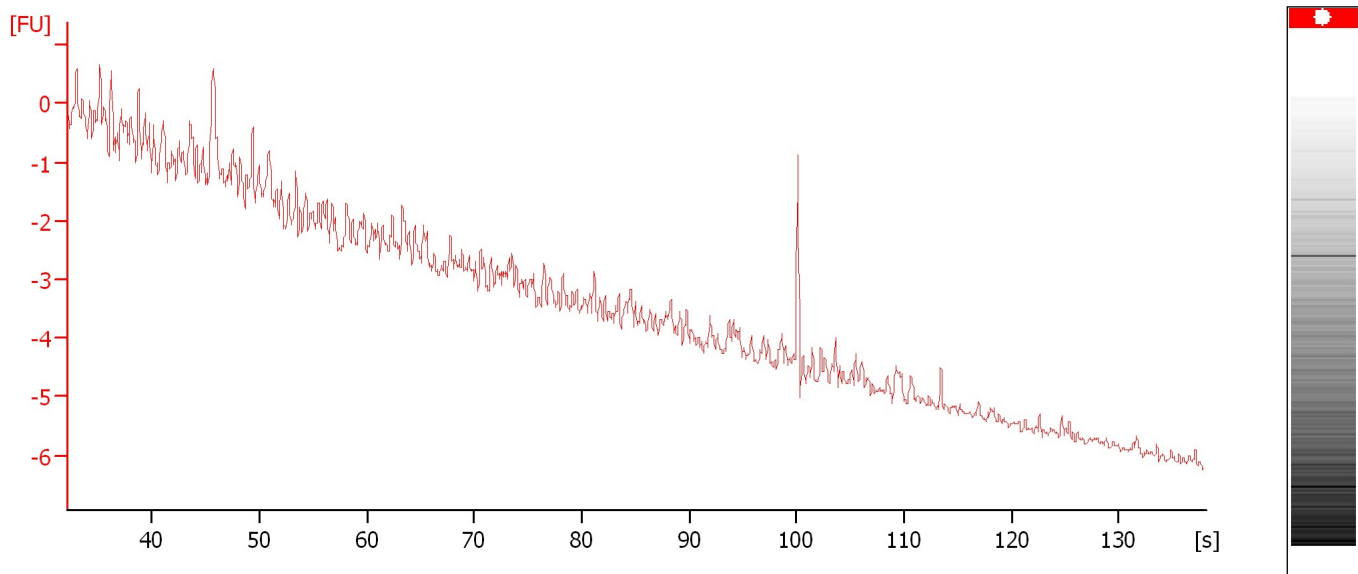
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
64.85	86.95	361	2,051.1	467.79	253.7 79	19.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**

sample 7 [ 9/17.10 ]



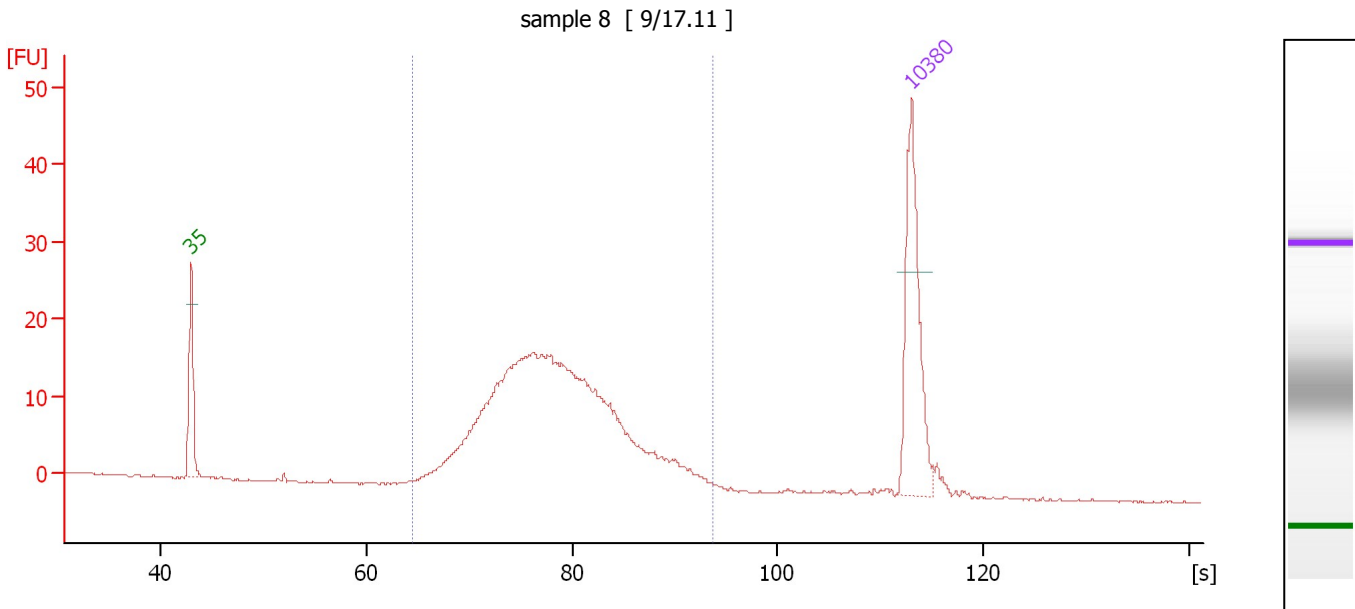
**Overall Results for sample 7 : sample 7**

Noise: 0.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 302.4  
 Noise: 0.1

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

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

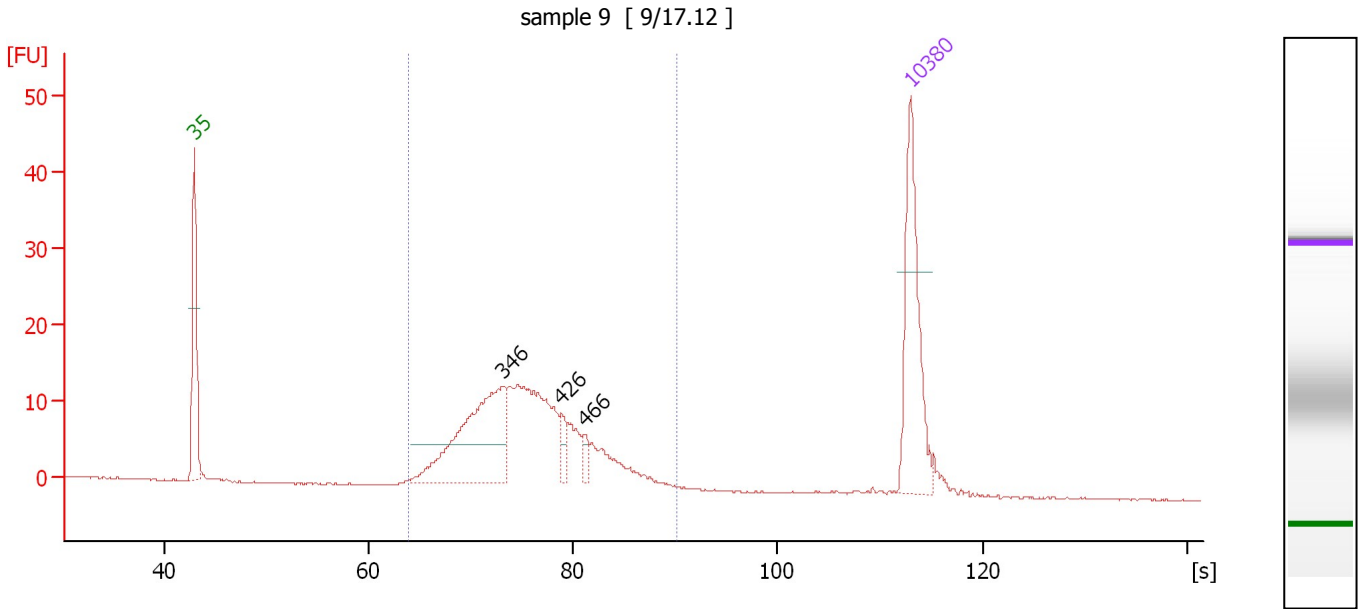
**Region table for sample 8 : sample 8**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
64.55	93.67	433	1,847.5	494.40	302.4	98	23.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
 Modified: 9/30/2013 3:10:36 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 3                      Corr. Area 1: 216.8  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	346	140.62	614.9	
3	426	11.36	40.4	
4	466	7.56	24.6	
5	10,380	75.00	10.9	Upper Marker

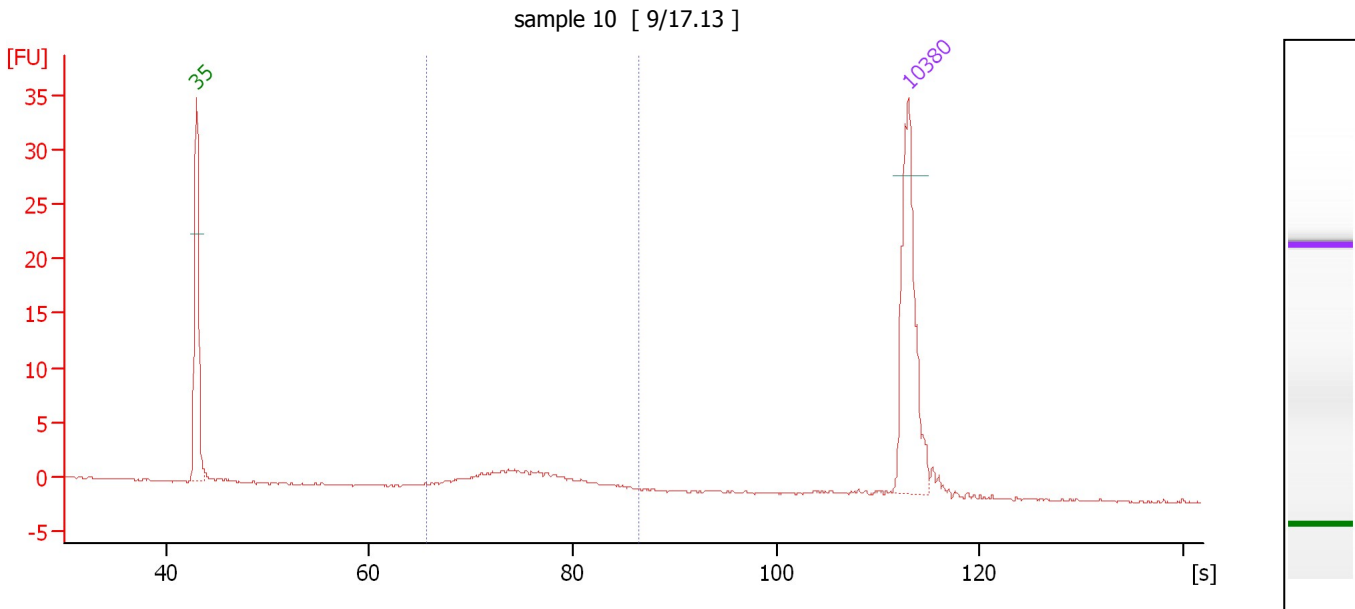
**Region table for sample 9 : sample 9**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
63.94	90.06	384	1,529.7	369.32	216.8 97	19.7	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 19.7  
 Noise: 0.1

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

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

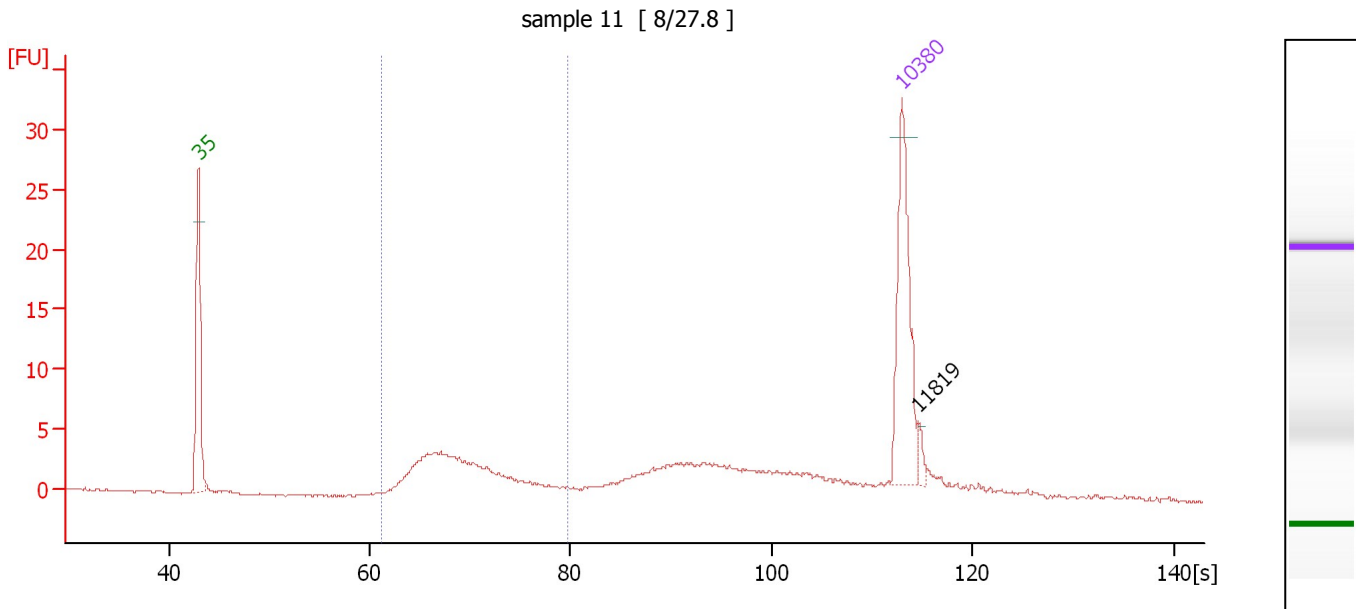
**Region table for sample 10 : sample 10**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
65.71	86.41	382	189.1	46.19	19.7	80	15.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 43.5  
 Noise: 0.1

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

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
3	11,819	0.00	0.0	

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

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
61.27	79.71	303	706.9	137.37	43.5	38	16.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-30\2013-09-30\_005.xad

Created: 9/30/2013 2:25:18 PM  
Modified: 9/30/2013 3:10:36 PM

**Gel Image**

