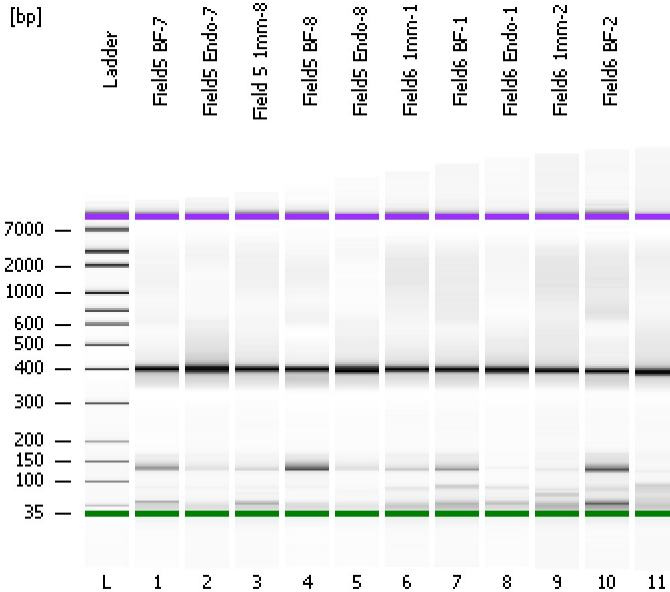


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
Modified: 10/21/2013 11:50:22 AM

**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

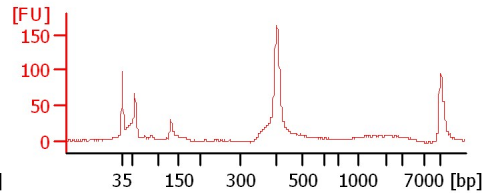
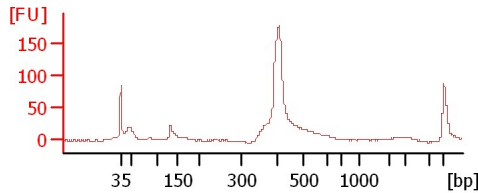
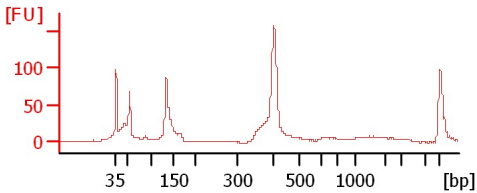
Chip Information:

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

**Field5 BF-7**

**Field5 Endo-7**

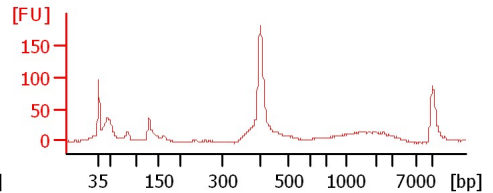
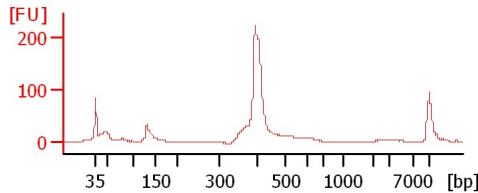
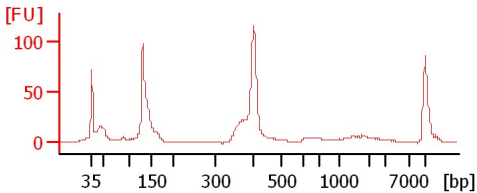
**Field 5 1mm-8**



**Field5 BF-8**

**Field5 Endo-8**

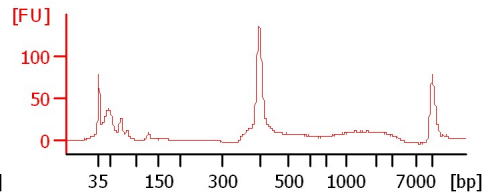
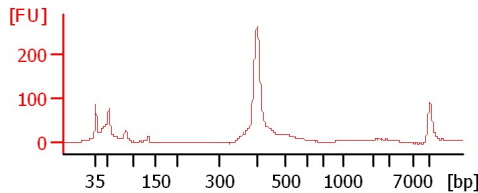
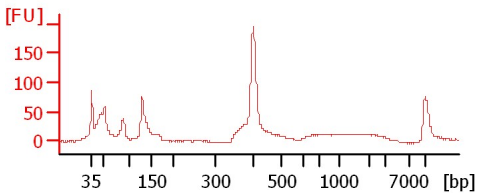
**Field6 1mm-1**



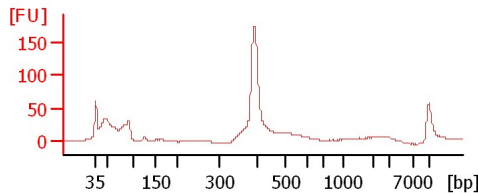
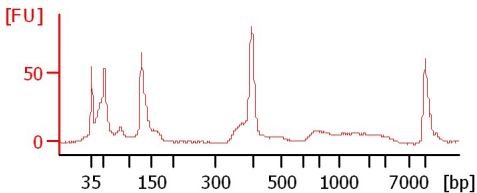
**Field6 BF-1**

**Field6 Endo-1**

**Field6 1mm-2**



**Field6 BF-2**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Field5 BF-7		<input type="checkbox"/>	✓			
Field5 Endo-7		<input type="checkbox"/>	✓			
Field 5 1mm-8		<input type="checkbox"/>	✓			
Field5 BF-8		<input type="checkbox"/>	✓			
Field5 Endo-8		<input type="checkbox"/>	✓			
Field6 1mm-1		<input type="checkbox"/>	✓			
Field6 BF-1		<input type="checkbox"/>	✓			
Field6 Endo-1		<input type="checkbox"/>	✓			
Field6 1mm-2		<input type="checkbox"/>	✓			
Field6 BF-2		<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\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
Modified: 10/21/2013 11:50:22 AM

**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

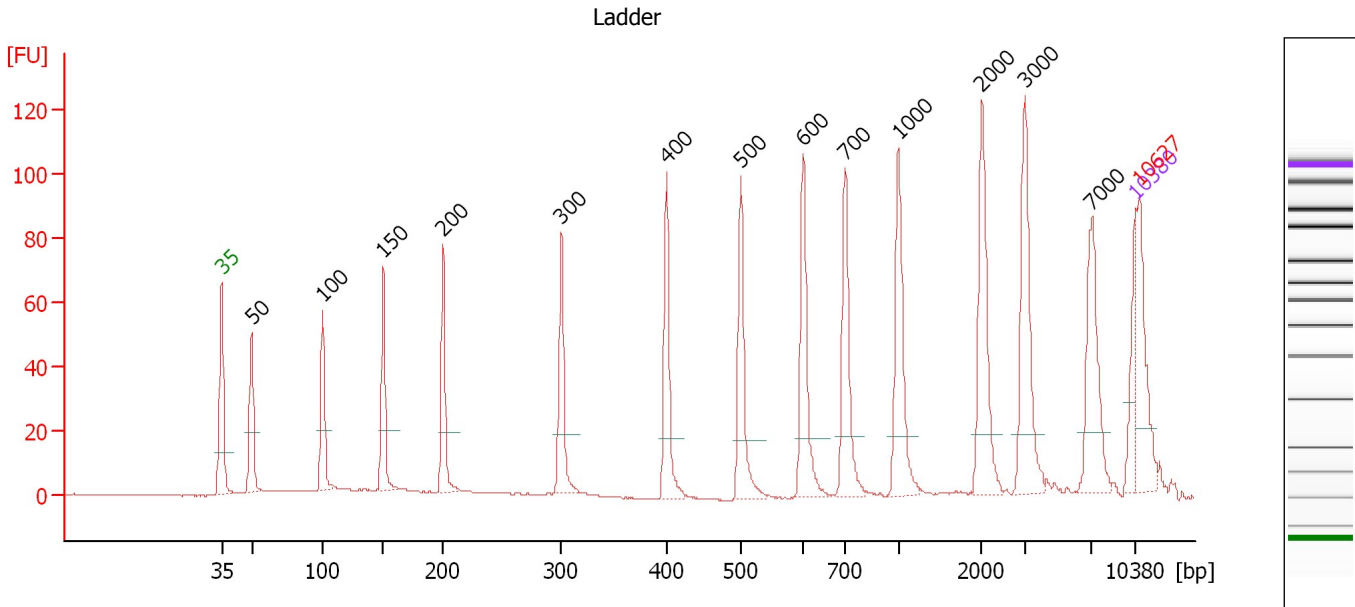
**Ladder**

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\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

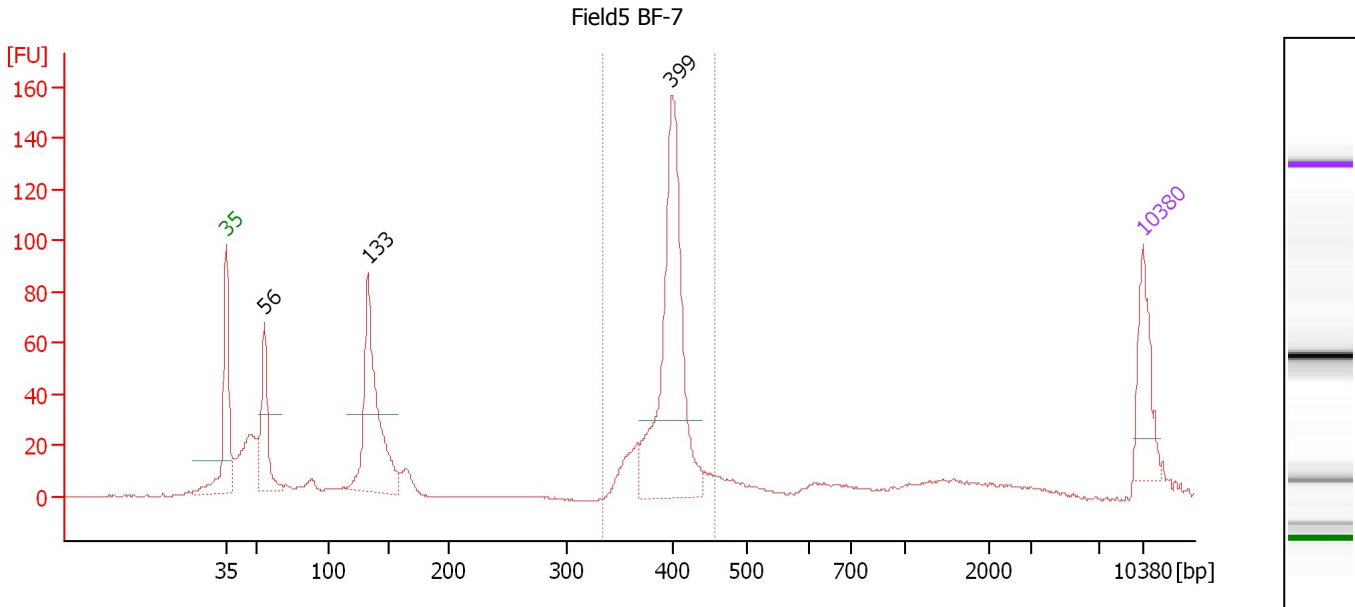
**Peak table for Ladder**

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
16	10,627	0.00	0.0	excluded peak

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Field5 BF-7**

Height Threshold [FU] : 30

**Overall Results for sample 1 : Field5 BF-7**

Number of peaks found: 3                      Corr. Area 1: 408.6  
 Noise: 0.2

**Peak table for sample 1 : Field5 BF-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	153.48	4,188.4	
3	133	330.81	3,760.6	
4	399	439.56	1,668.0	
5	10,380	75.00	10.9	Upper Marker

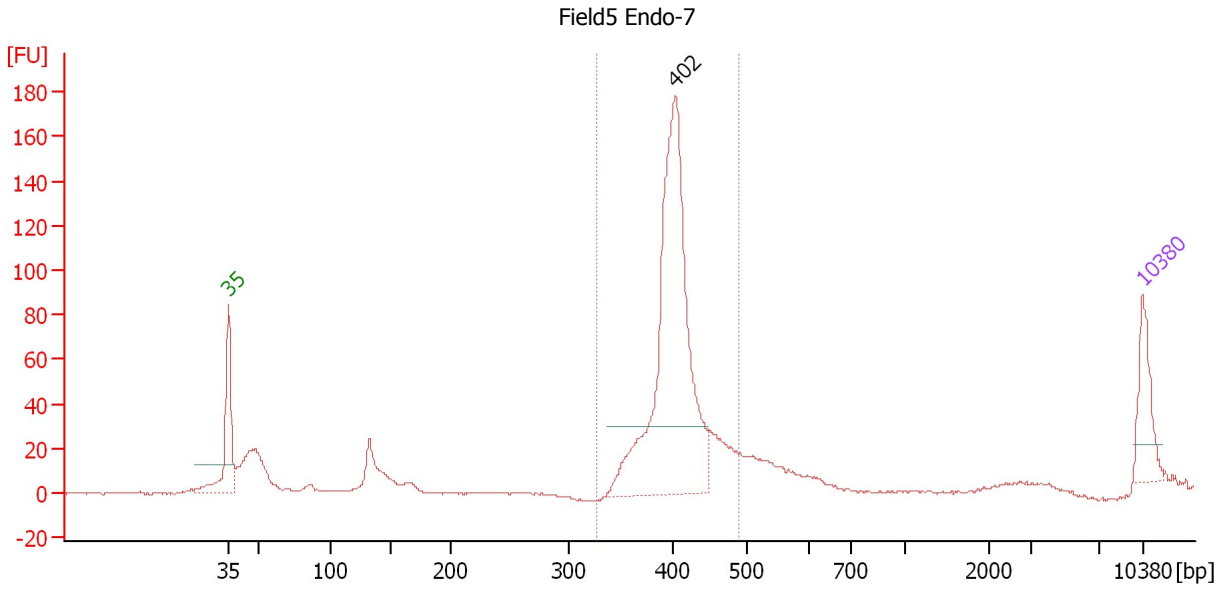
**Region table for sample 1 : Field5 BF-7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	457	397	1,854.6	485.53	408.6	43	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : Field5 Endo-7**

Height Threshold [FU] : 30

**Overall Results for sample 2 : Field5 Endo-7**

Number of peaks found: 1                      Corr. Area 1: 671.0  
 Noise: 0.4

**Peak table for sample 2 : Field5 Endo-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	402	834.34	3,143.4	
3	10,380	75.00	10.9	Upper Marker

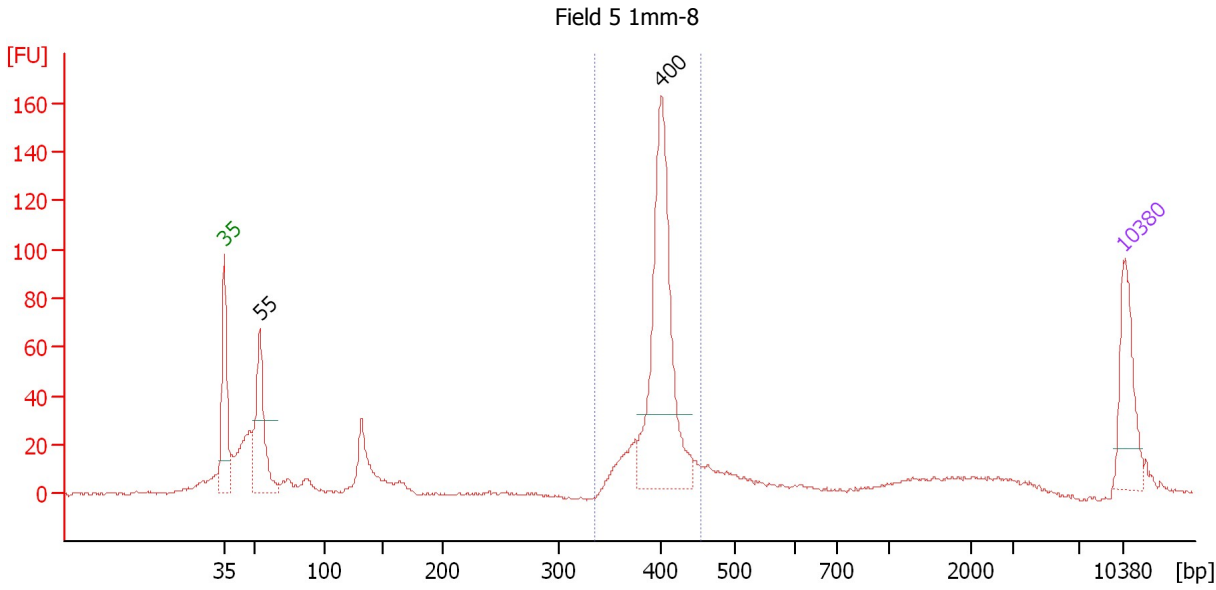
**Region table for sample 2 : Field5 Endo-7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	488	407	3,328.4	890.37	671.0	71	6.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Field 5 1mm-8**

Height Threshold [FU] : 30

**Overall Results for sample 3 : Field 5 1mm-8**

Number of peaks found: 2                      Corr. Area 1: 425.4  
 Noise: 0.7

**Peak table for sample 3 : Field 5 1mm-8**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	175.26	4,869.2	
3	400	371.51	1,408.9	
4	10,380	75.00	10.9	Upper Marker

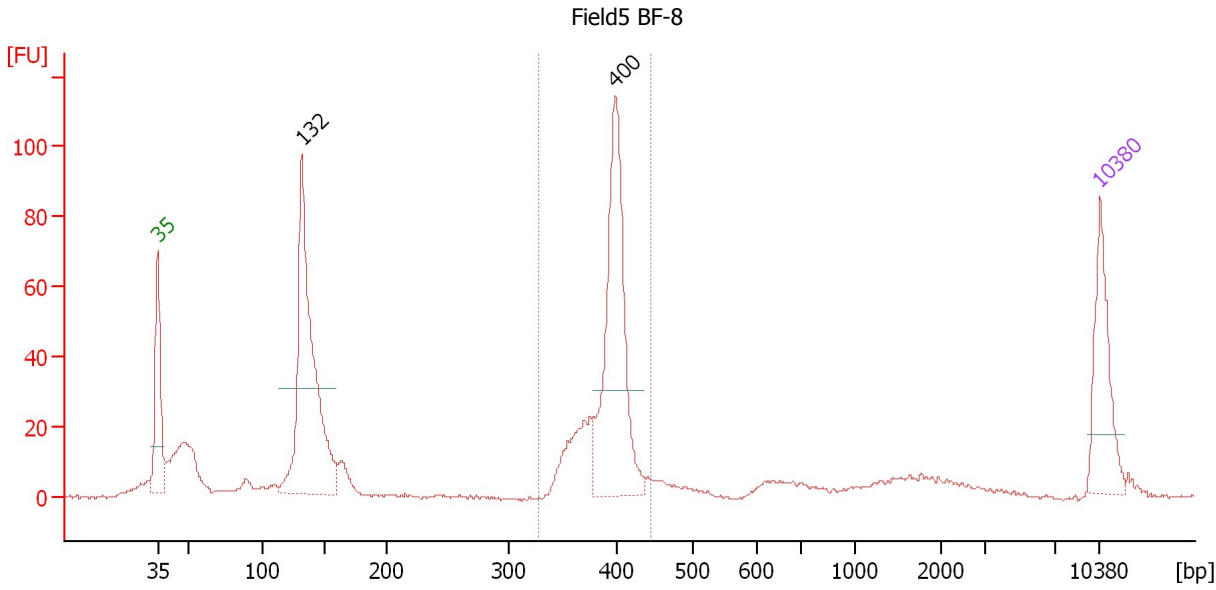
**Region table for sample 3 : Field 5 1mm-8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	454	399	1,668.8	439.02	425.4	49	4.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : Field5 BF-8**

Height Threshold [FU] : 30

**Overall Results for sample 4 : Field5 BF-8**

Number of peaks found: 2                      Corr. Area 1: 312.9  
 Noise: 0.5

**Peak table for sample 4 : Field5 BF-8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	399.06	4,586.3	
3	400	275.11	1,043.0	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Field5 BF-8**

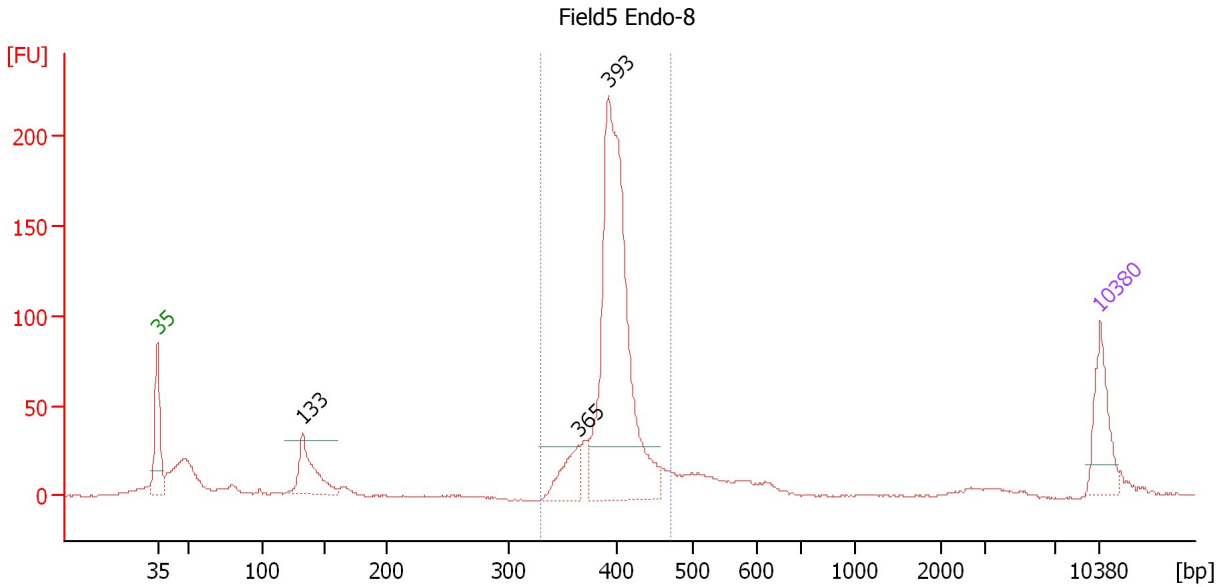
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	445	393	1,416.1	366.60	312.9	39	4.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : Field5 Endo-8**

Height Threshold [FU] : 30

**Overall Results for sample 5 : Field5 Endo-8**

Number of peaks found: 3                      Corr. Area 1: 743.9  
 Noise: 0.3

**Peak table for sample 5 : Field5 Endo-8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	126.03	1,440.4	
3	365	71.71	297.9	
4	393	698.03	2,691.0	
5	10,380	75.00	10.9	Upper Marker

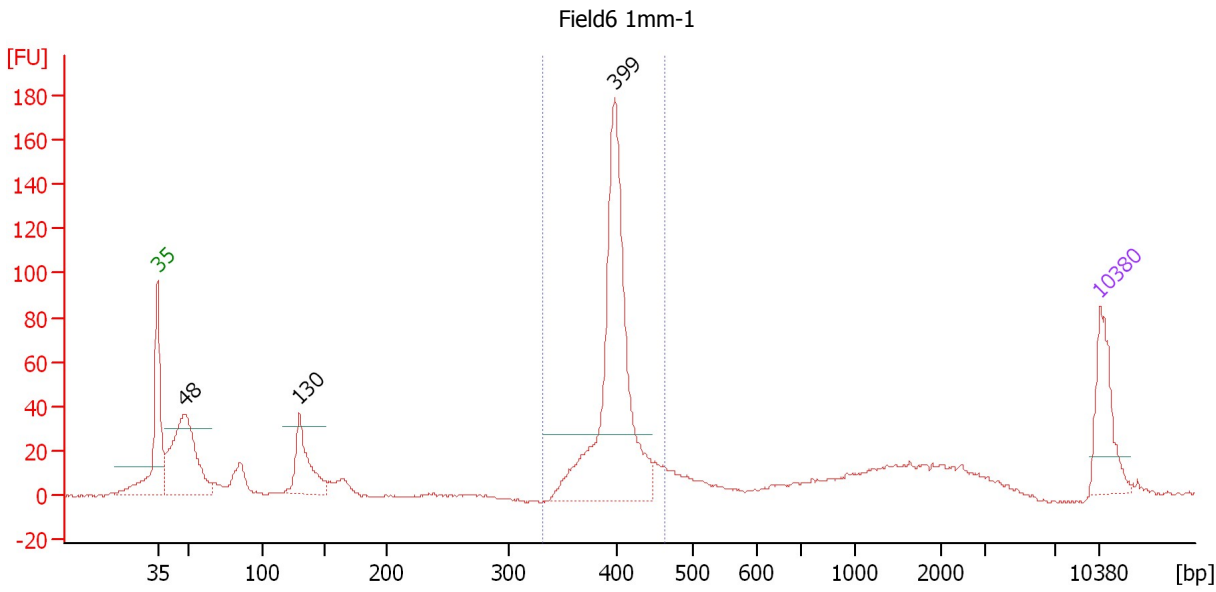
**Region table for sample 5 : Field5 Endo-8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	473	400	2,945.4	774.81	743.9	66	5.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Field6 1mm-1**

Height Threshold [FU] : 30

**Overall Results for sample 6 : Field6 1mm-1**

Number of peaks found: 3                      Corr. Area 1: 447.0  
 Noise: 0.5

**Peak table for sample 6 : Field6 1mm-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	273.78	8,660.7	
3	130	118.03	1,375.4	
4	399	490.25	1,863.3	
5	10,380	75.00	10.9	Upper Marker

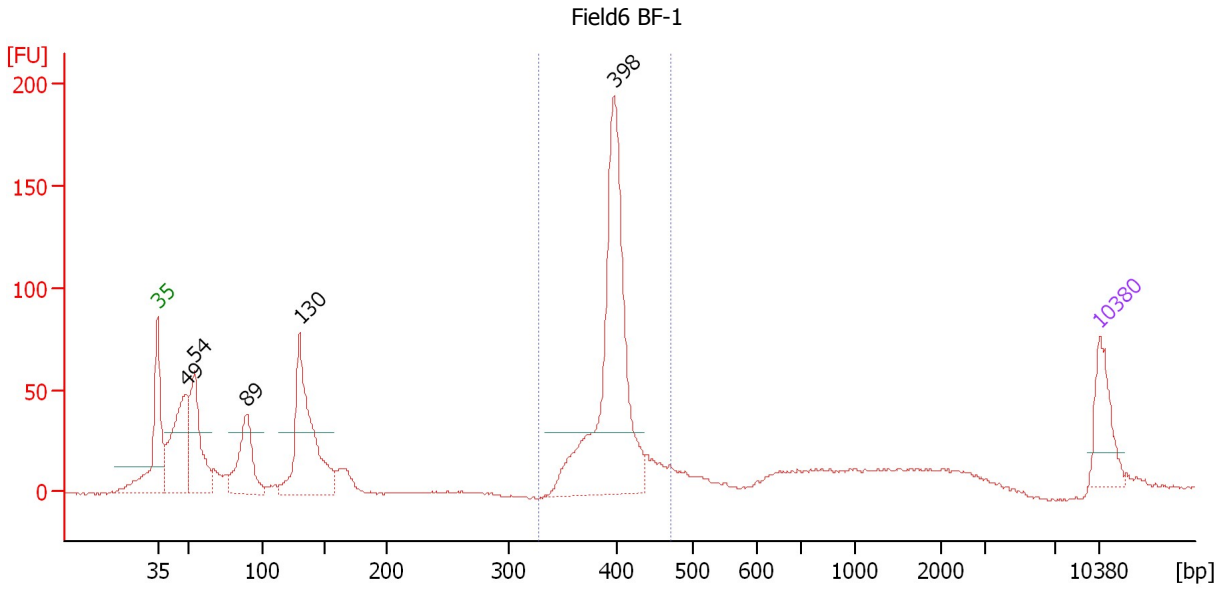
**Region table for sample 6 : Field6 1mm-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	463	401	1,780.4	470.47	447.0	46	4.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : Field6 BF-1**

Height Threshold [FU] : 30

**Overall Results for sample 7 : Field6 BF-1**

Number of peaks found: 5                      Corr. Area 1: 503.2  
 Noise: 0.6

**Peak table for sample 7 : Field6 BF-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	272.20	8,464.1	
3	54	211.74	5,905.1	
4	89	175.75	2,981.3	
5	130	359.31	4,179.1	
6	398	587.46	2,237.3	
7	10,380	75.00	10.9	Upper Marker

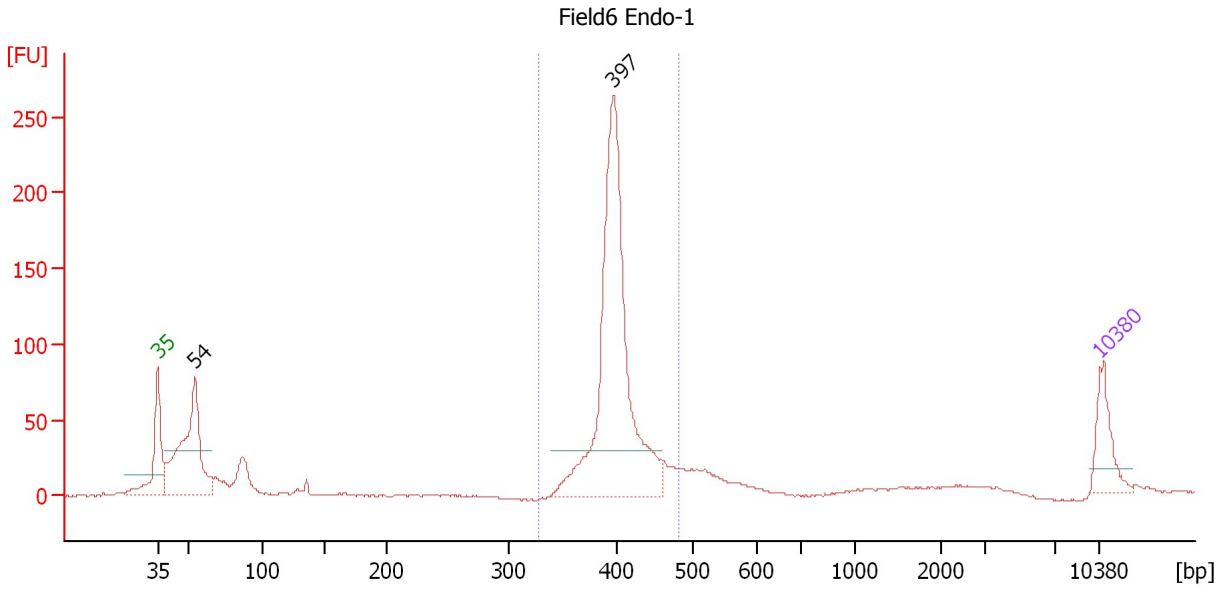
**Region table for sample 7 : Field6 BF-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
328	471	400	2,301.3	605.90	503.2	38	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Field6 Endo-1**

Height Threshold [FU] : 30

**Overall Results for sample 8 : Field6 Endo-1**

Number of peaks found: 2                      Corr. Area 1: 750.9  
 Noise: 0.4

**Peak table for sample 8 : Field6 Endo-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	429.73	11,986.0	
3	397	830.36	3,166.4	
4	10,380	75.00	10.9	Upper Marker

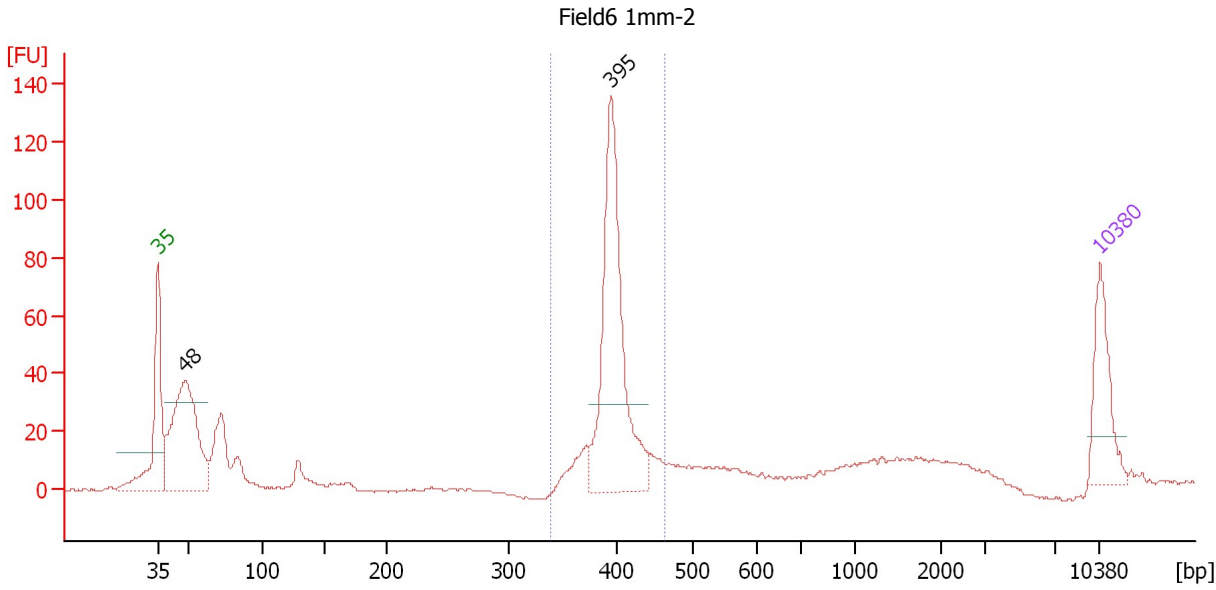
**Region table for sample 8 : Field6 Endo-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	481	404	3,168.2	841.51	750.9	61	5.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Field6 1mm-2**

Height Threshold [FU] : 30

**Overall Results for sample 9 : Field6 1mm-2**

Number of peaks found: 2                      Corr. Area 1: 324.5  
 Noise: 0.4

**Peak table for sample 9 : Field6 1mm-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	331.56	10,361.2	
3	395	357.90	1,372.1	
4	10,380	75.00	10.9	Upper Marker

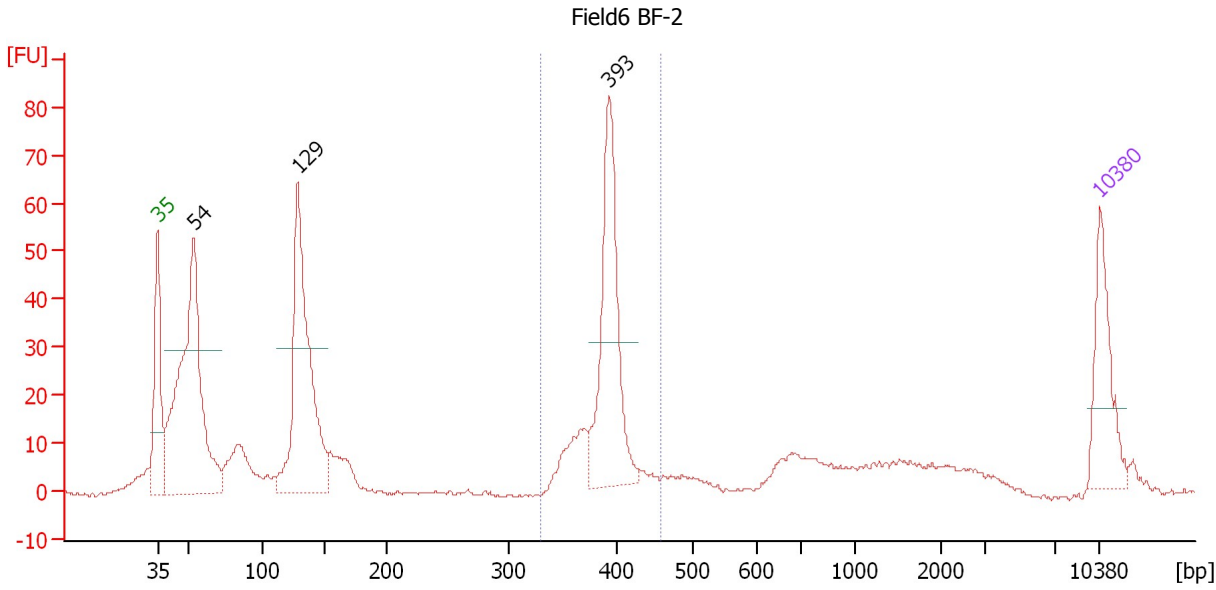
**Region table for sample 9 : Field6 1mm-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	463	399	1,496.8	393.77	324.5	41	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Field6 BF-2**

Height Threshold [FU] : 30

**Overall Results for sample 10 : Field6 BF-2**

Number of peaks found: 3                      Corr. Area 1: 192.9  
 Noise: 0.4

**Peak table for sample 10 : Field6 BF-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	475.63	13,435.5	
3	129	371.33	4,368.6	
4	393	236.56	911.4	
5	10,380	75.00	10.9	Upper Marker

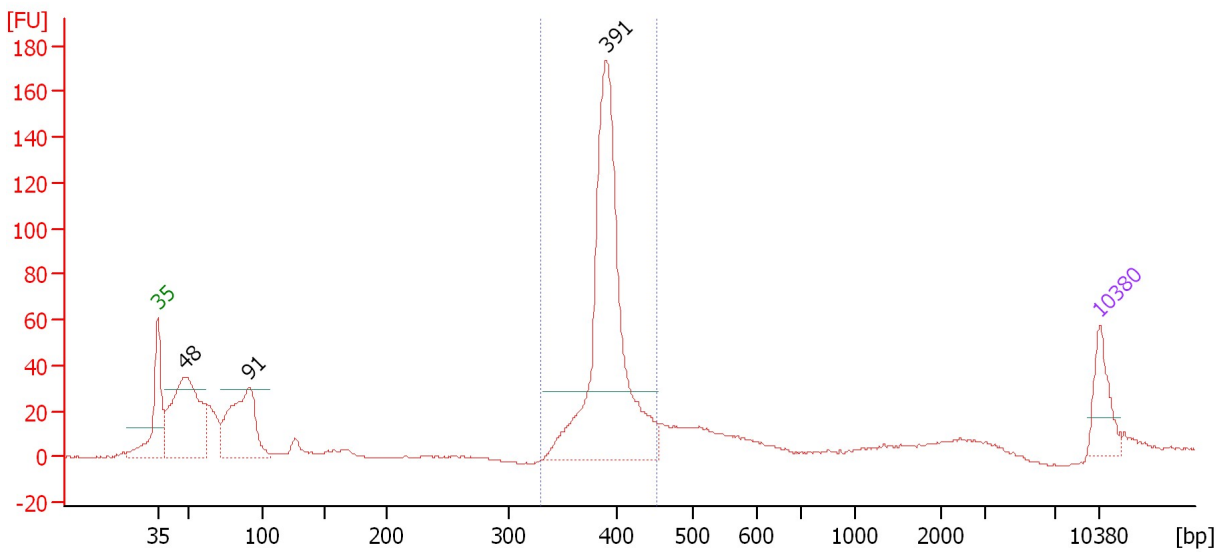
**Region table for sample 10 : Field6 BF-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	458	391	1,198.3	308.56	192.9	26	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
 Modified: 10/21/2013 11:50:22 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 :**

Height Threshold [FU] : 30

**Overall Results for sample 11 :**

Number of peaks found: 3                      Corr. Area 1: 501.2  
 Noise: 0.4

**Peak table for sample 11 :**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	450.68	14,251.1	
3	91	313.81	5,212.5	
4	391	852.52	3,303.7	
5	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 :**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	453	394	3,158.6	818.72	501.2	46	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-21\2013-10-21\_003.xad

Created: 10/21/2013 11:09:09 AM  
Modified: 10/21/2013 11:50:22 AM

**Gel Image**

