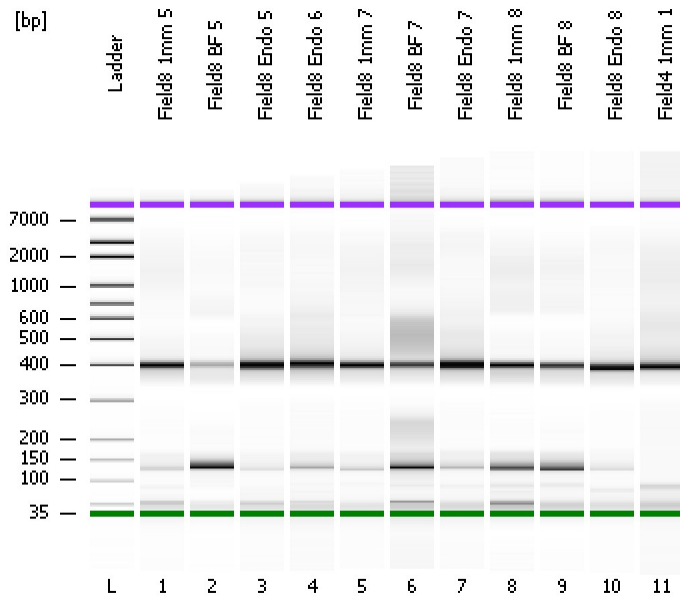


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
Modified: 10/30/2013 12:02:21 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

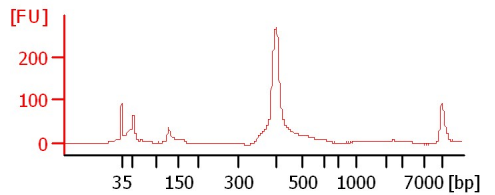
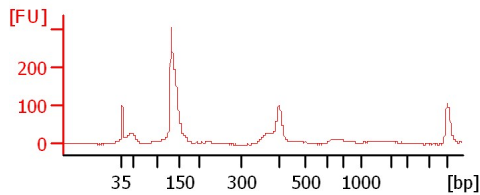
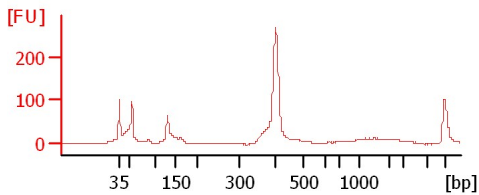
#### Chip Information:

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

Field8 1mm 5

Field8 BF 5

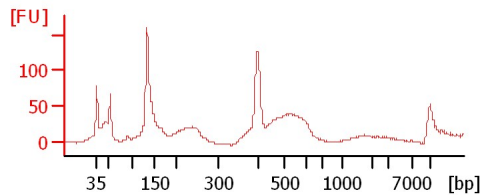
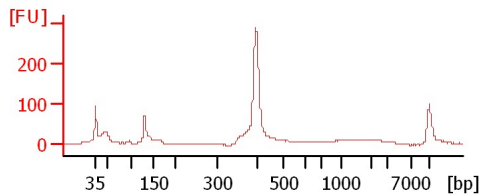
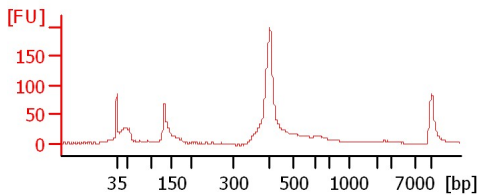
Field8 Endo 5



Field8 Endo 6

Field8 1mm 7

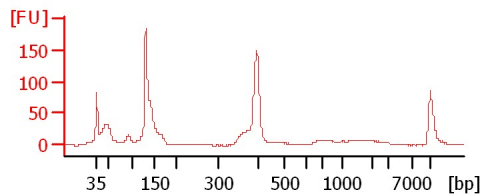
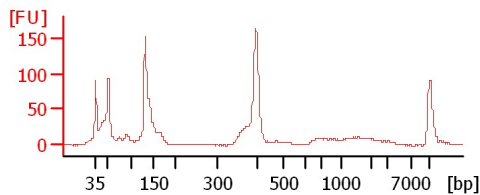
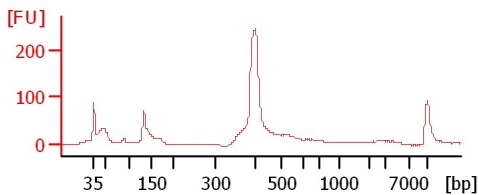
Field8 BF 7



Field8 Endo 7

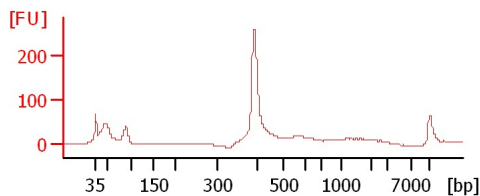
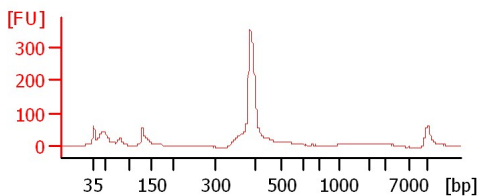
Field8 1mm 8

Field8 BF 8



Field8 Endo 8

Field4 1mm 1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Field8 1mm 5		<input type="checkbox"/>	✓			
Field8 BF 5		<input type="checkbox"/>	✓			
Field8 Endo 5		<input type="checkbox"/>	✓			
Field8 Endo 6		<input type="checkbox"/>	✓			
Field8 1mm 7		<input type="checkbox"/>	✓			
Field8 BF 7		<input type="checkbox"/>	✓			
Field8 Endo 7		<input type="checkbox"/>	✓			
Field8 1mm 8		<input type="checkbox"/>	✓			
Field8 BF 8		<input type="checkbox"/>	✓			
Field8 Endo 8		<input type="checkbox"/>	✓			
Field4 1mm 1		<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\_003.xad

Created: 10/30/2013 10:26:15 AM  
Modified: 10/30/2013 12:02:21 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

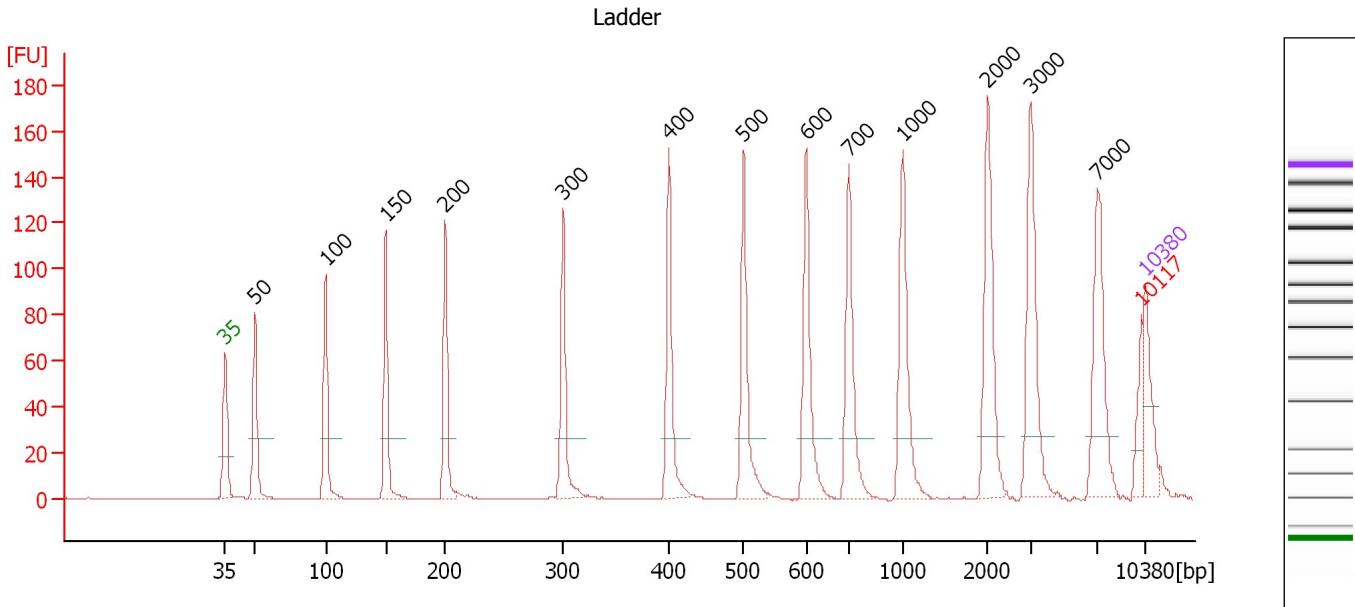
**Ladder**

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\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

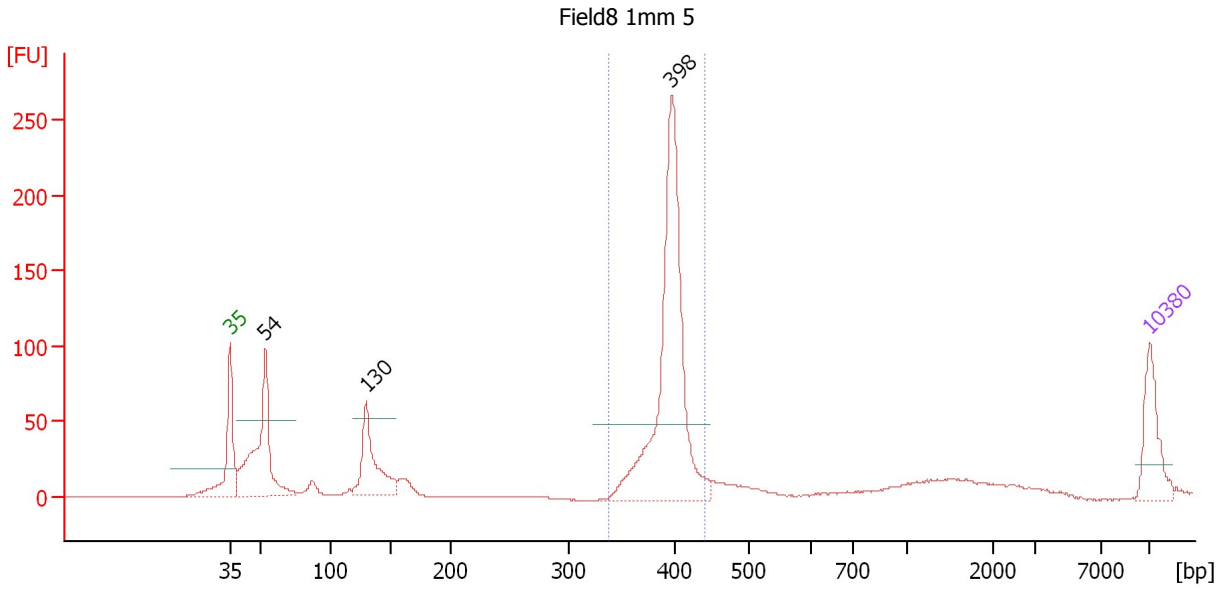
**Peak table for Ladder**

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	10,117	0.00	0.0	excluded peak
16	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\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Field8 1mm 5**

Height Threshold [FU] : 50

**Overall Results for sample 1 : Field8 1mm 5**

Number of peaks found: 3                      Corr. Area 1: 626.5  
 Noise: 0.2

**Peak table for sample 1 : Field8 1mm 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	338.48	9,534.5	
3	130	185.34	2,166.0	
4	398	618.11	2,353.2	
5	10,380	75.00	10.9	Upper Marker

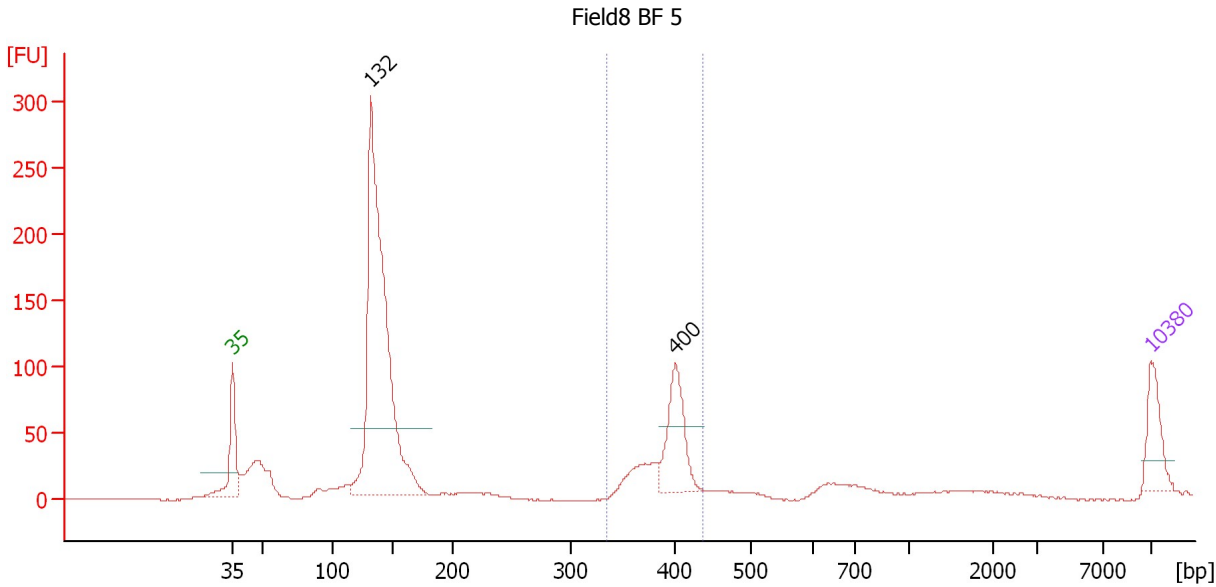
**Region table for sample 1 : Field8 1mm 5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	442	396	2,205.8	576.44	626.5	52	3.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : Field8 BF 5**

Height Threshold [FU] : 50

**Overall Results for sample 2 : Field8 BF 5**

Number of peaks found: 2                      Corr. Area 1: 297.8  
 Noise: 0.5

**Peak table for sample 2 : Field8 BF 5**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	1,322.94	15,229.6	
3	400	199.22	755.2	
4	10,380	75.00	10.9	Upper Marker

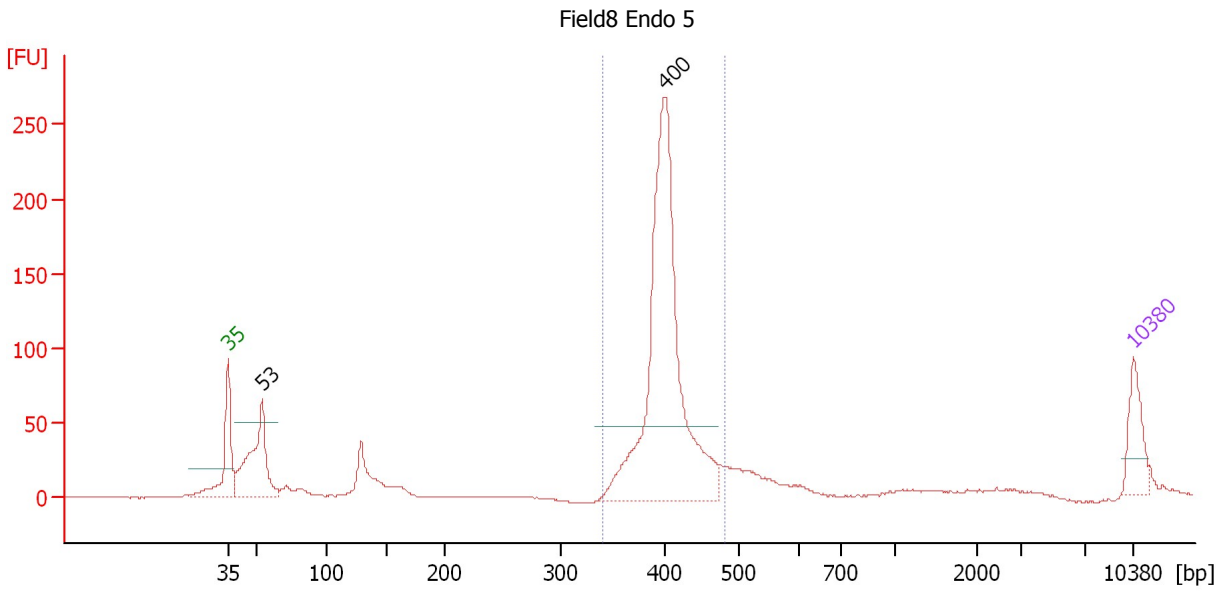
**Region table for sample 2 : Field8 BF 5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
334	435	391	1,185.5	305.71	297.8	20	4.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Field8 Endo 5**

Height Threshold [FU] : 50

**Overall Results for sample 3 : Field8 Endo 5**

Number of peaks found: 2                      Corr. Area 1: 907.6  
 Noise: 0.3

**Peak table for sample 3 : Field8 Endo 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	326.00	9,244.7	
3	400	1,038.01	3,928.2	
4	10,380	75.00	10.9	Upper Marker

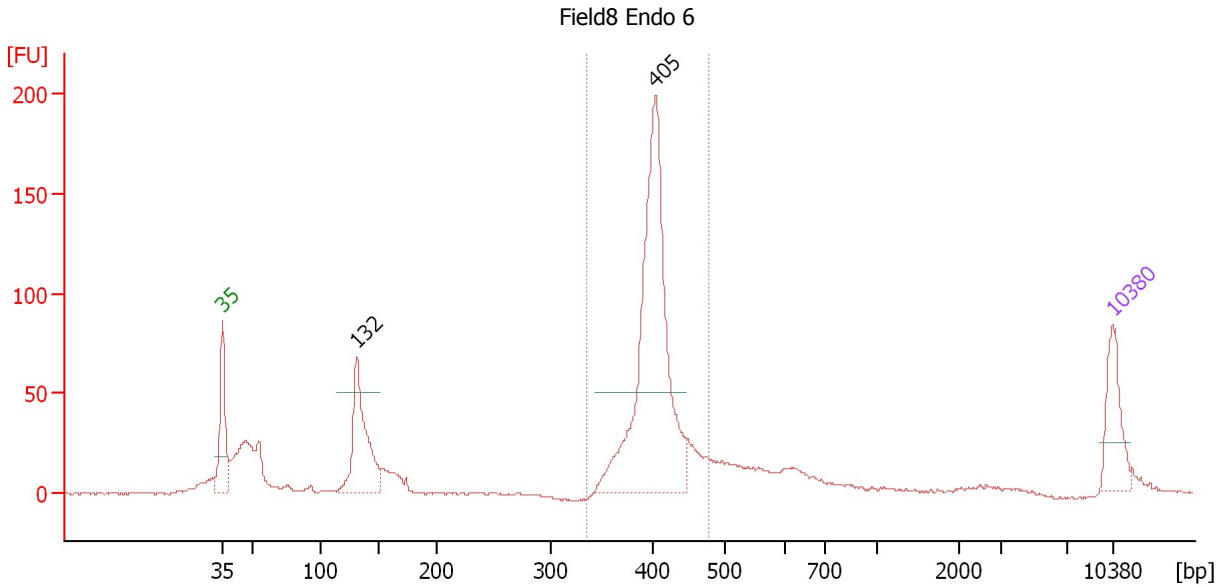
**Region table for sample 3 : Field8 Endo 5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
341	481	404	3,771.4	1,003.49	907.6	65	5.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : Field8 Endo 6**

Height Threshold [FU] : 50

**Overall Results for sample 4 : Field8 Endo 6**

Number of peaks found: 2                      Corr. Area 1: 657.9  
 Noise: 0.6

**Peak table for sample 4 : Field8 Endo 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	258.43	2,975.3	
3	405	671.79	2,512.2	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Field8 Endo 6**

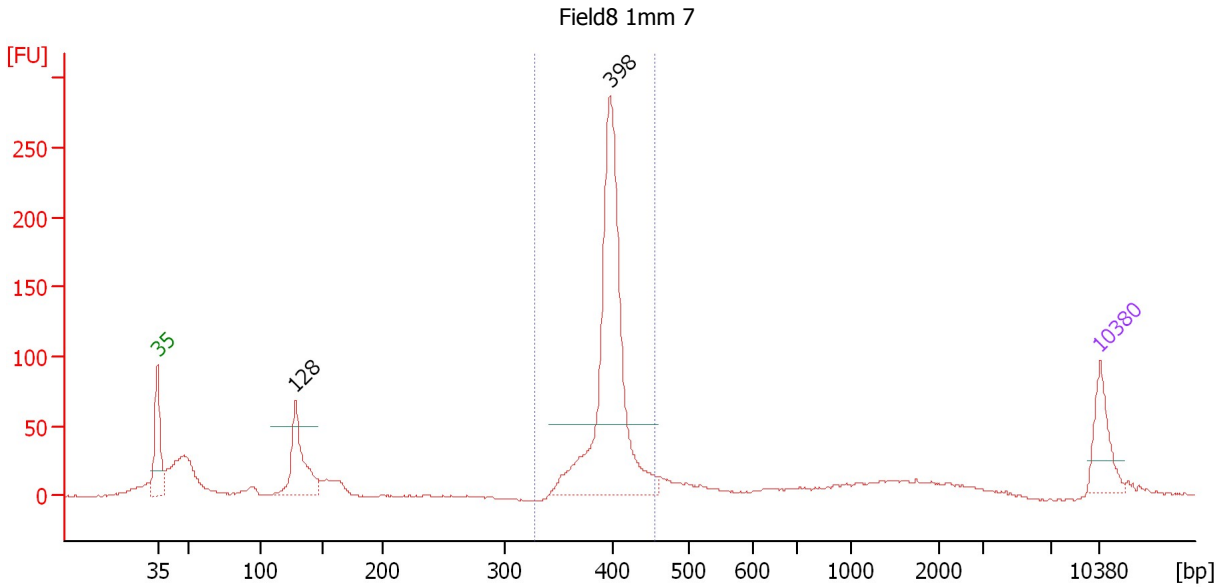
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
337	478	406	2,746.3	734.33	657.9	53	5.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : Field8 1mm 7**

Height Threshold [FU] : 50

**Overall Results for sample 5 : Field8 1mm 7**

Number of peaks found: 2                                      Corr. Area 1: 701.1  
 Noise: 0.6

**Peak table for sample 5 : Field8 1mm 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	204.23	2,409.4	
3	398	723.43	2,754.3	
4	10,380	75.00	10.9	Upper Marker

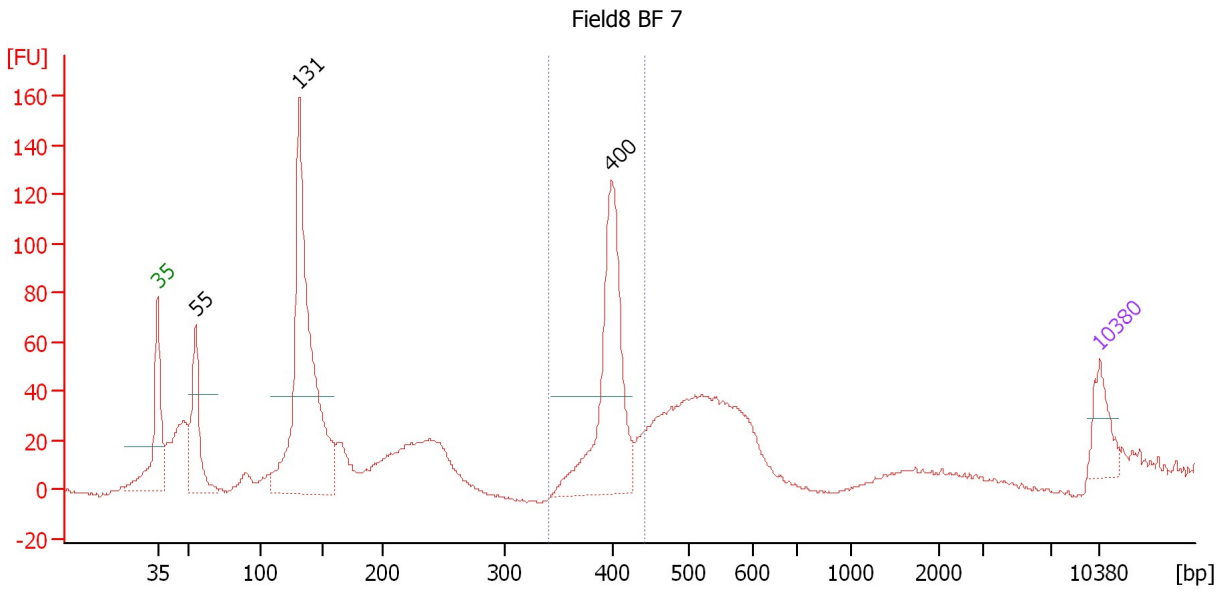
**Region table for sample 5 : Field8 1mm 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	455	399	2,771.6	728.62	701.1	54	4.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Field8 BF 7**

Height Threshold [FU] : 40

**Overall Results for sample 6 : Field8 BF 7**

Number of peaks found: 3                      Corr. Area 1: 279.3  
 Noise: 0.6

**Peak table for sample 6 : Field8 BF 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	264.19	7,247.9	
3	131	1,105.08	12,735.8	
4	400	551.52	2,090.9	
5	10,380	75.00	10.9	Upper Marker

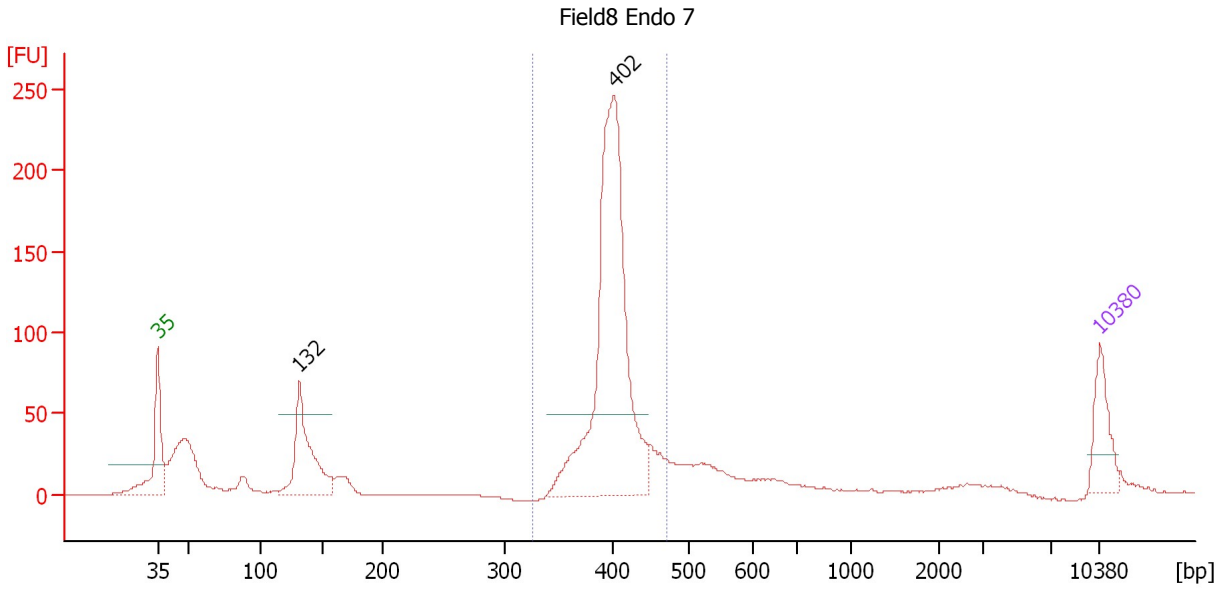
**Region table for sample 6 : Field8 BF 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
341	443	402	1,906.3	505.05	279.3	20	3.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : Field8 Endo 7**

Height Threshold [FU] : 50

**Overall Results for sample 7 : Field8 Endo 7**

Number of peaks found: 2                      Corr. Area 1: 843.6  
 Noise: 0.4

**Peak table for sample 7 : Field8 Endo 7**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	263.32	3,031.8	
3	402	850.90	3,203.2	
4	10,380	75.00	10.9	Upper Marker

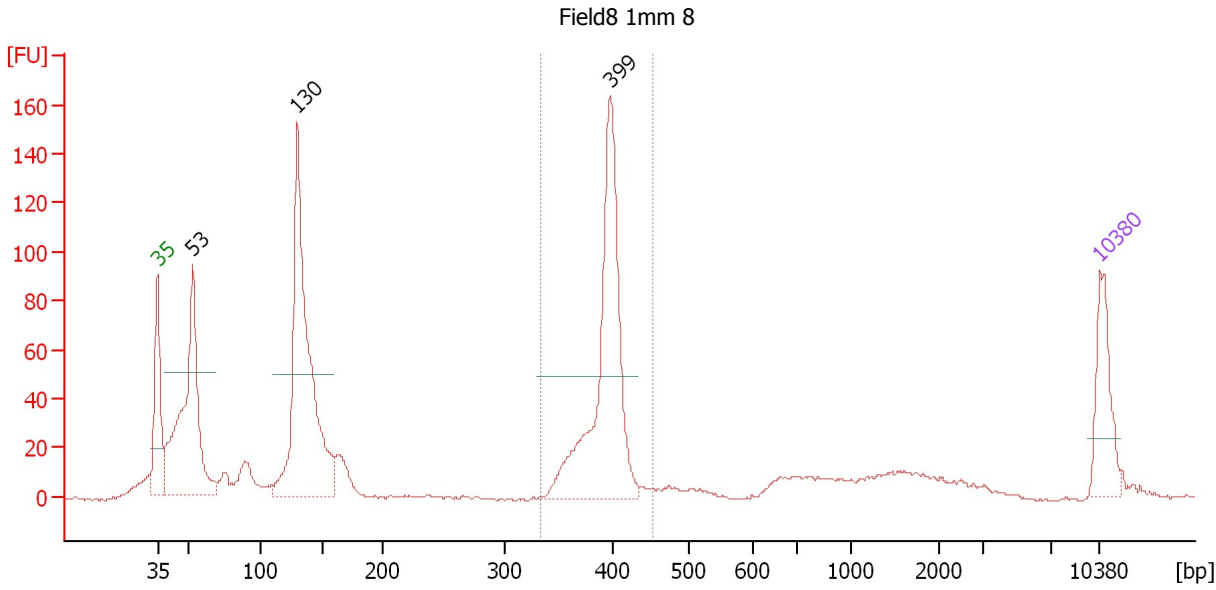
**Region table for sample 7 : Field8 Endo 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	472	403	3,337.9	886.47	843.6	59	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Field8 1mm 8**

Height Threshold [FU] : 50

**Overall Results for sample 8 : Field8 1mm 8**

Number of peaks found: 3                      Corr. Area 1: 380.6  
 Noise: 0.7

**Peak table for sample 8 : Field8 1mm 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	419.70	11,945.7	
3	130	565.98	6,592.9	
4	399	411.86	1,565.7	
5	10,380	75.00	10.9	Upper Marker

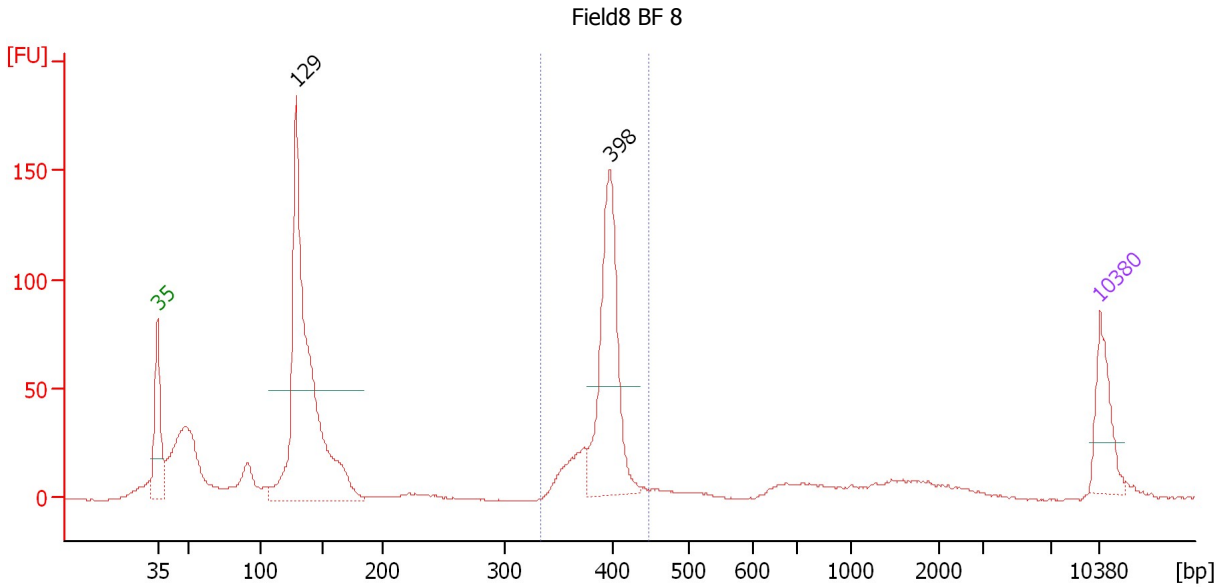
**Region table for sample 8 : Field8 1mm 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	452	394	1,560.7	405.68	380.6	30	4.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Field8 BF 8**

Height Threshold [FU] : 50

**Overall Results for sample 9 : Field8 BF 8**

Number of peaks found: 2                      Corr. Area 1: 362.9  
 Noise: 0.3

**Peak table for sample 9 : Field8 BF 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	830.55	9,751.6	
3	398	351.05	1,336.6	
4	10,380	75.00	10.9	Upper Marker

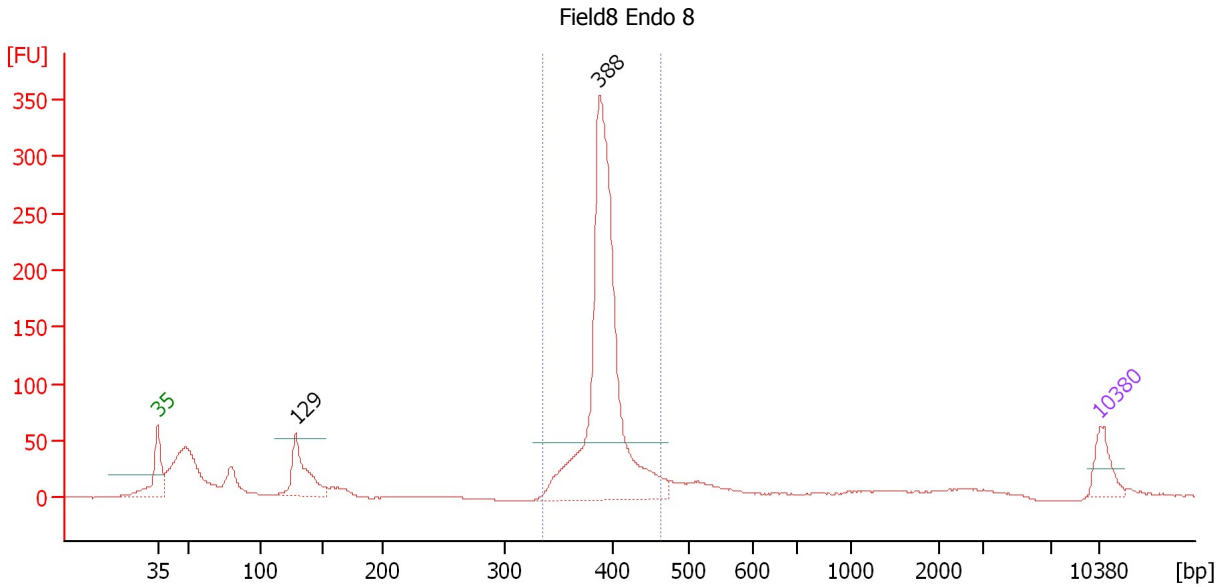
**Region table for sample 9 : Field8 BF 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
334	447	393	1,683.3	436.02	362.9	30	4.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Field8 Endo 8**

Height Threshold [FU] : 50

**Overall Results for sample 10 : Field8 Endo 8**

Number of peaks found: 2                      Corr. Area 1: 956.1  
 Noise: 0.3

**Peak table for sample 10 : Field8 Endo 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	246.67	2,905.2	
3	388	1,427.91	5,570.7	
4	10,380	75.00	10.9	Upper Marker

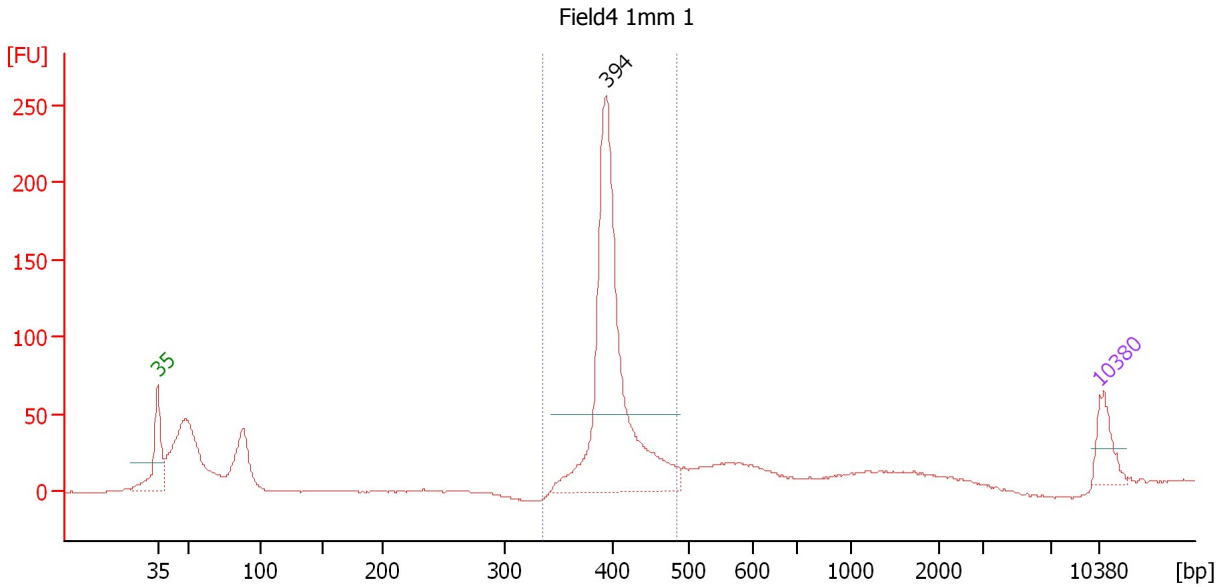
**Region table for sample 10 : Field8 Endo 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	465	394	5,158.6	1,338.85	956.1	60	5.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
 Modified: 10/30/2013 12:02:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : Field4 1mm 1**

Height Threshold [FU] : 50

**Overall Results for sample 11 : Field4 1mm 1**

Number of peaks found: 1                      Corr. Area 1: 655.5  
 Noise: 0.3

**Peak table for sample 11 : Field4 1mm 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	1,083.80	4,164.5	
3	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : Field4 1mm 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	485	404	3,847.8	1,022.04	655.5	53	5.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_003.xad

Created: 10/30/2013 10:26:15 AM  
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**Gel Image**

