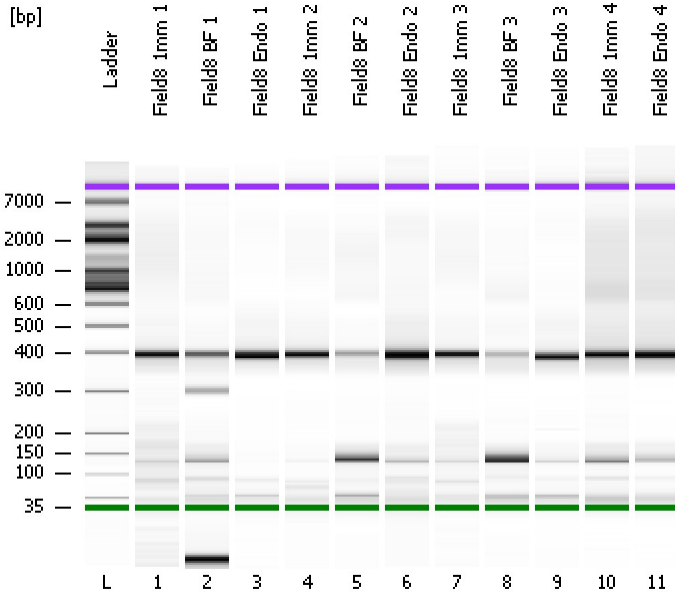


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
Modified: 10/30/2013 11:33:45 AM

Electrophoresis File Run Summary



Instrument Information:

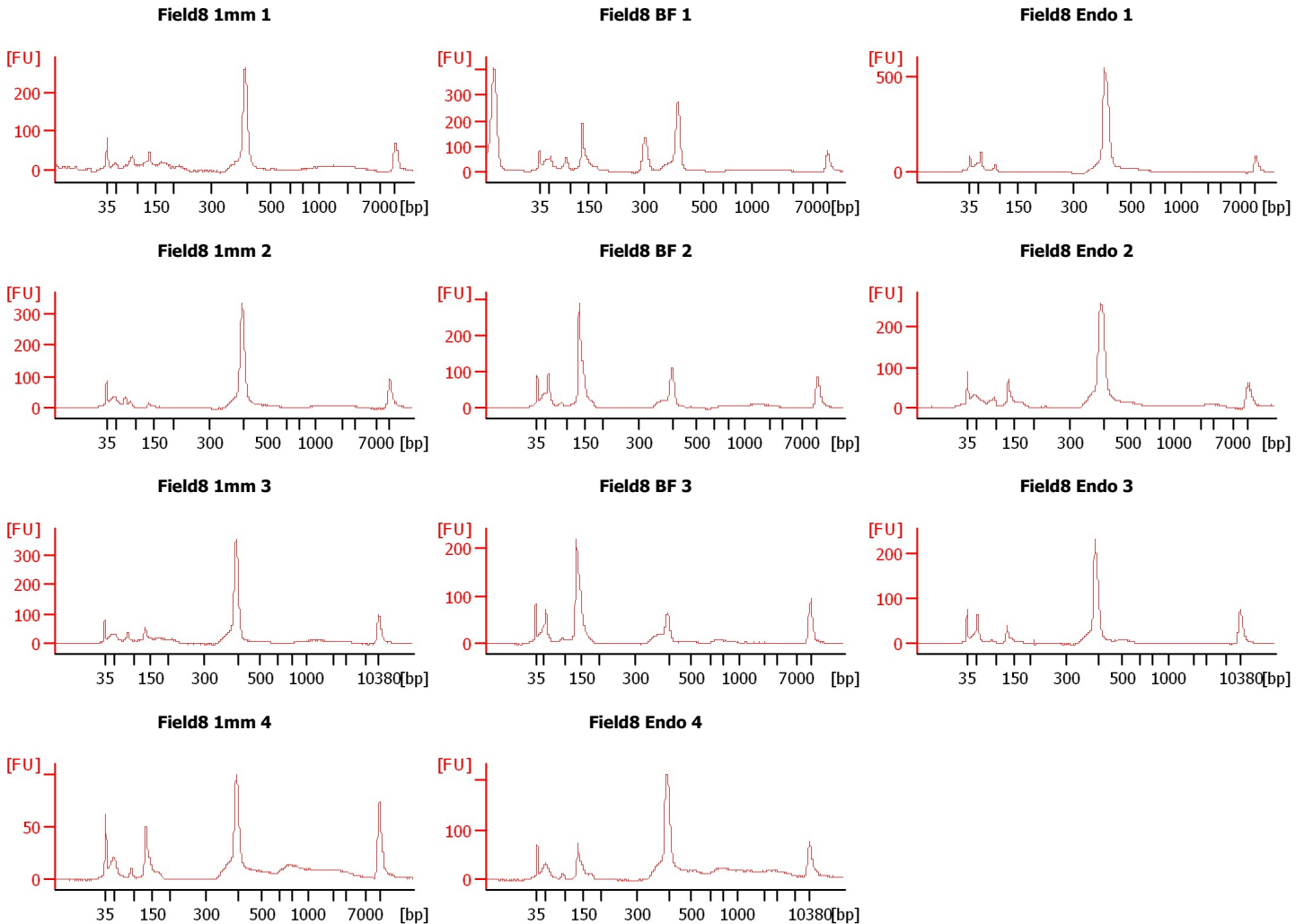
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Field8 1mm 1		<input type="checkbox"/>	✓			
Field8 BF 1		<input type="checkbox"/>	✓			
Field8 Endo 1		<input type="checkbox"/>	✓			
Field8 1mm 2		<input type="checkbox"/>	✓			
Field8 BF 2		<input type="checkbox"/>	✓			
Field8 Endo 2		<input type="checkbox"/>	✓			
Field8 1mm 3		<input type="checkbox"/>	✓			
Field8 BF 3		<input type="checkbox"/>	✓			
Field8 Endo 3		<input type="checkbox"/>	✓			
Field8 1mm 4		<input type="checkbox"/>	✓			
Field8 Endo 4		<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_002.xad

Created: 10/30/2013 9:41:15 AM
Modified: 10/30/2013 11:33:45 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

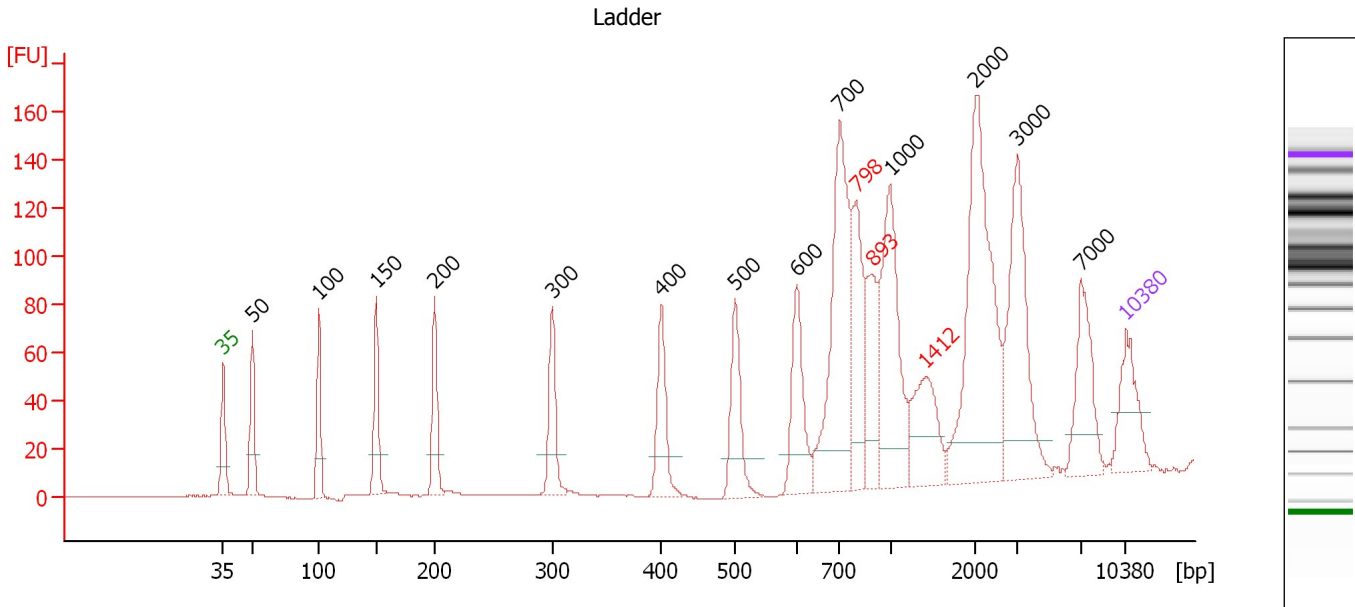
Ladder

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_002.xad

Created: 10/30/2013 9:41:15 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

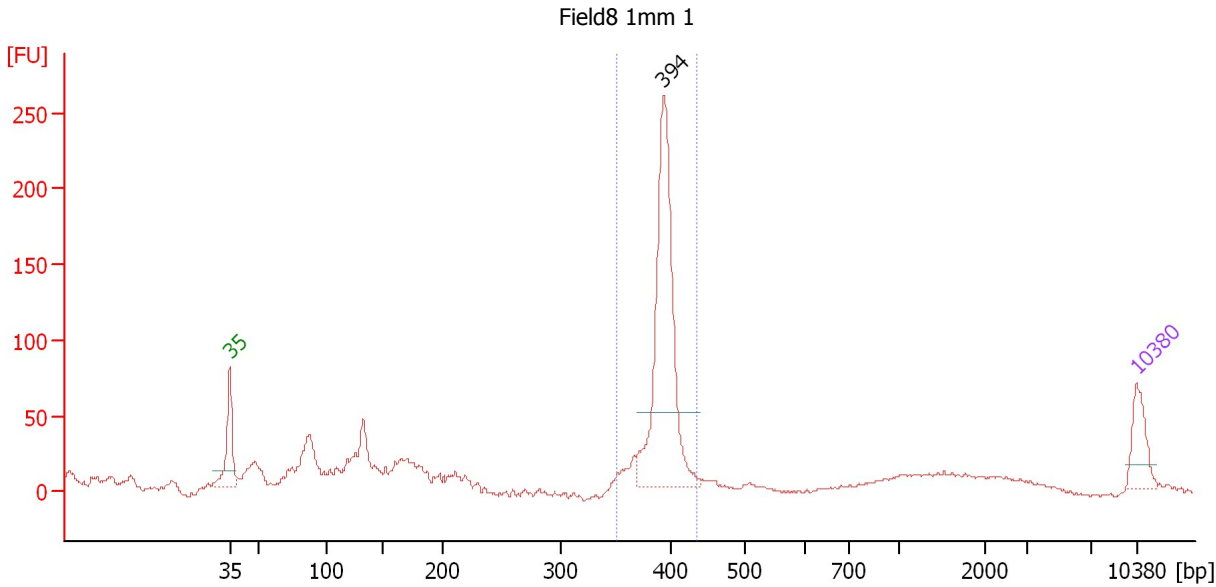
Peak table for Ladder

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	798	0.00	0.0	excluded peak
12	893	0.00	0.0	excluded peak
13	1,000	150.00	227.3	Ladder Peak
14	1,413	0.00	0.0	excluded peak
15	2,000	150.00	113.6	Ladder Peak
16	3,000	150.00	75.8	Ladder Peak
17	7,000	150.00	32.5	Ladder Peak
18	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_002.xad

Created: 10/30/2013 9:41:15 AM
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Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Field8 1mm 1

Height Threshold [FU] : 50

Overall Results for sample 1 : Field8 1mm 1

Number of peaks found: 1 Corr. Area 1: 538.2
 Noise: 0.9

Peak table for sample 1 : Field8 1mm 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	763.18	2,933.1	
3	10,380	75.00	10.9	Upper Marker

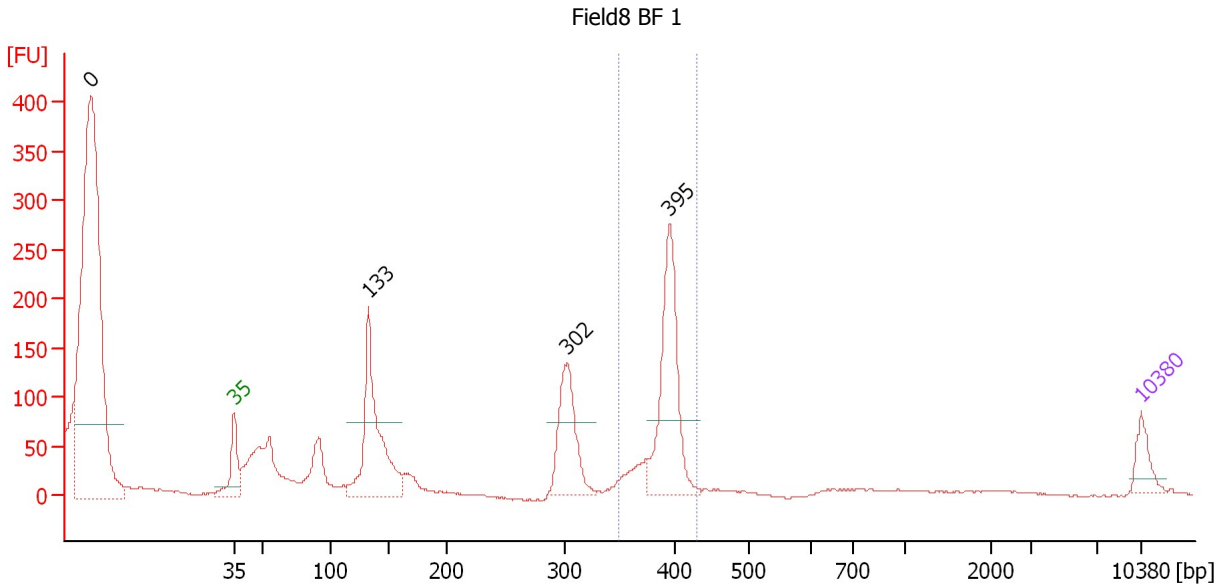
Region table for sample 1 : Field8 1mm 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
351	437	394	2,934.5	762.43	538.2	59	2.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : Field8 BF 1

Height Threshold [FU] : 75

Overall Results for sample 2 : Field8 BF 1

Number of peaks found: 4 Corr. Area 1: 339.7
 Noise: 0.7

Peak table for sample 2 : Field8 BF 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	133	853.60	9,711.2	
4	302	457.98	2,295.5	
5	395	700.16	2,682.6	
6	10,380	75.00	10.9	Upper Marker

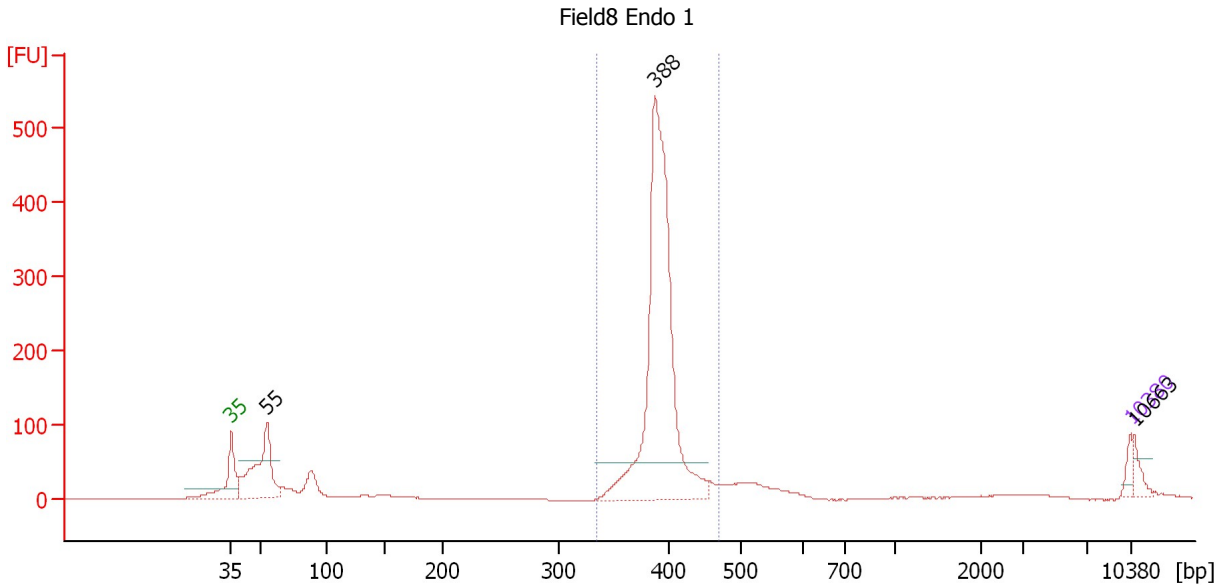
Region table for sample 2 : Field8 BF 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
350	431	396	1,692.4	441.78	339.7	17	1.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Field8 Endo 1

Height Threshold [FU] : 50

Overall Results for sample 3 : Field8 Endo 1

Number of peaks found: 3 Corr. Area 1: 1,515.4
 Noise: 0.3

Peak table for sample 3 : Field8 Endo 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	1,325.19	36,549.8	
3	388	4,244.39	16,565.6	
4	10,380	75.00	10.9	Upper Marker
5	10,663	0.00	0.0	

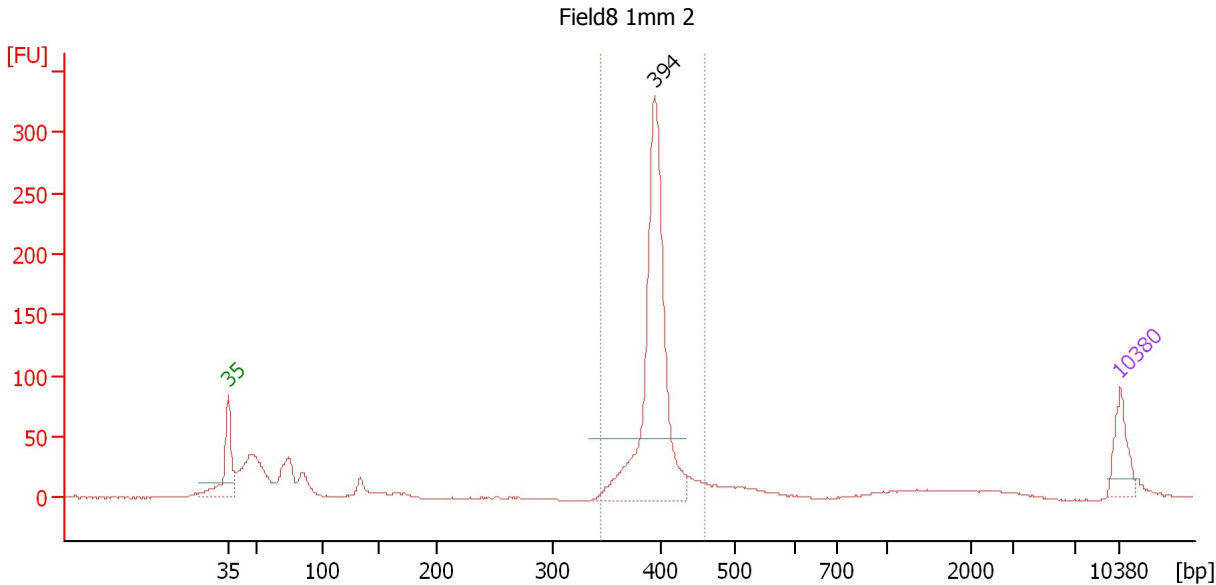
Region table for sample 3 : Field8 Endo 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	470	394	16,086.1	4,181.13	1,515.4	68	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Field8 1mm 2

Height Threshold [FU] : 50

Overall Results for sample 4 : Field8 1mm 2

Number of peaks found: 1 Corr. Area 1: 767.2
 Noise: 0.4

Peak table for sample 4 : Field8 1mm 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	906.59	3,486.9	
3	10,380	75.00	10.9	Upper Marker

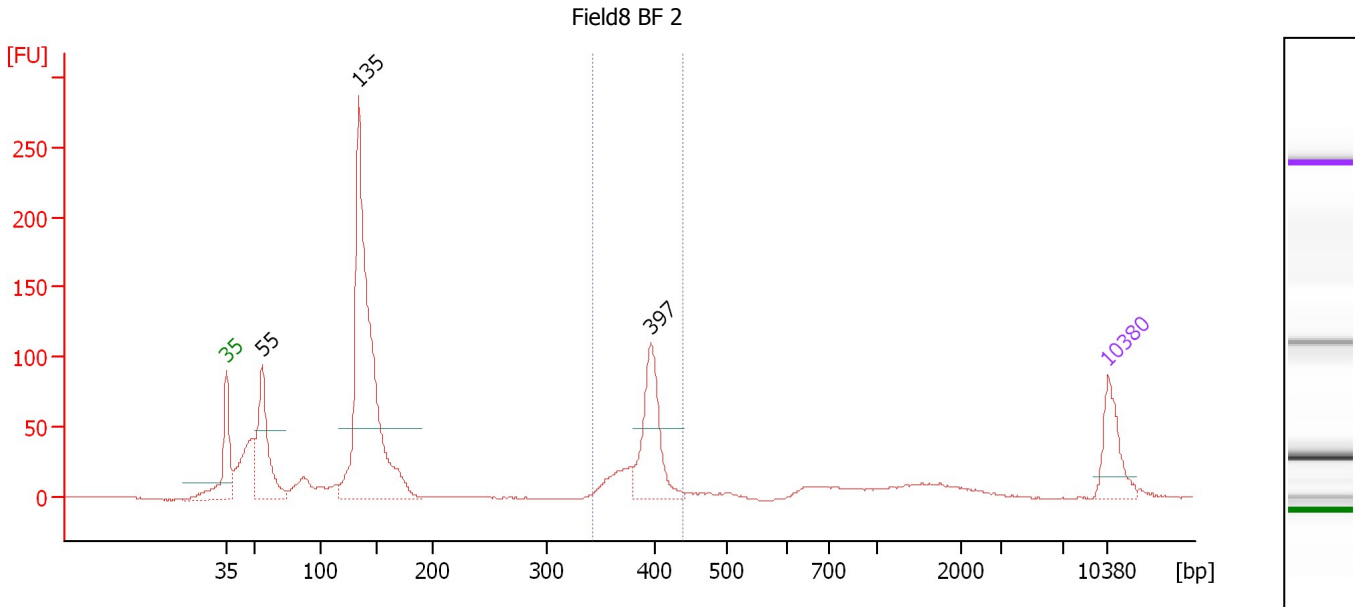
Region table for sample 4 : Field8 1mm 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
344	460	395	3,465.4	903.08	767.2	62	4.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Field8 BF 2

Height Threshold [FU] : 50

Overall Results for sample 5 : Field8 BF 2

Number of peaks found: 3 Corr. Area 1: 286.0
 Noise: 0.4

Peak table for sample 5 : Field8 BF 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	289.11	7,893.7	
3	135	1,051.44	11,825.0	
4	397	216.57	827.1	
5	10,380	75.00	10.9	Upper Marker

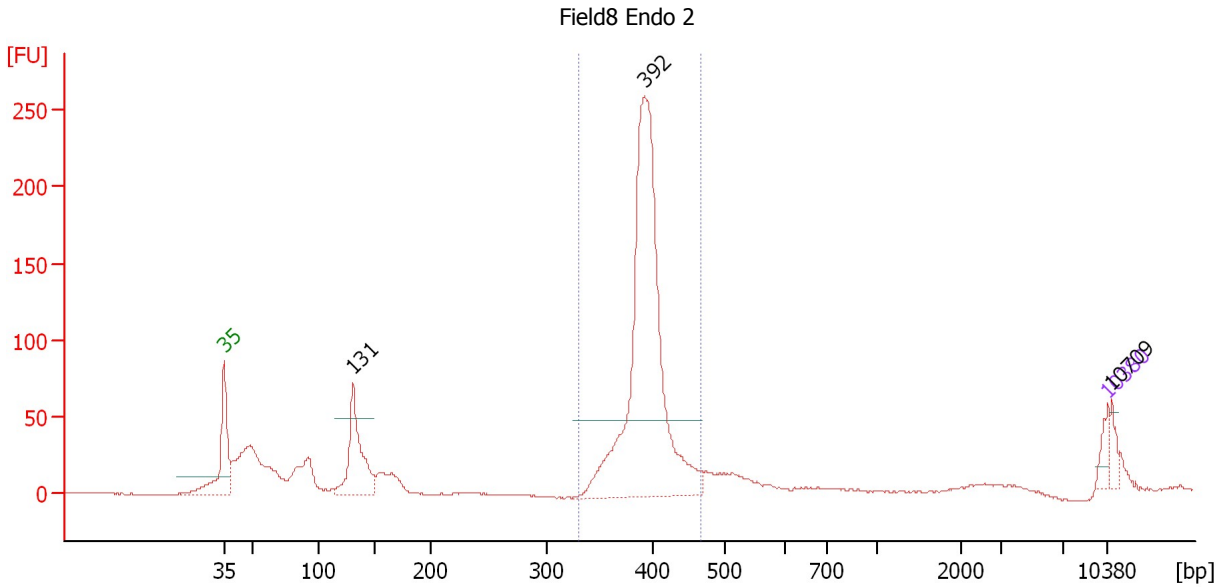
Region table for sample 5 : Field8 BF 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
343	439	391	1,073.4	276.65	286.0	18	4.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : Field8 Endo 2

Height Threshold [FU] : 50

Overall Results for sample 6 : Field8 Endo 2

Number of peaks found: 3 Corr. Area 1: 867.8
 Noise: 0.2

Peak table for sample 6 : Field8 Endo 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	724.25	8,364.1	
3	392	3,072.59	11,876.0	
4	10,380	75.00	10.9	Upper Marker
5	10,709	0.00	0.0	

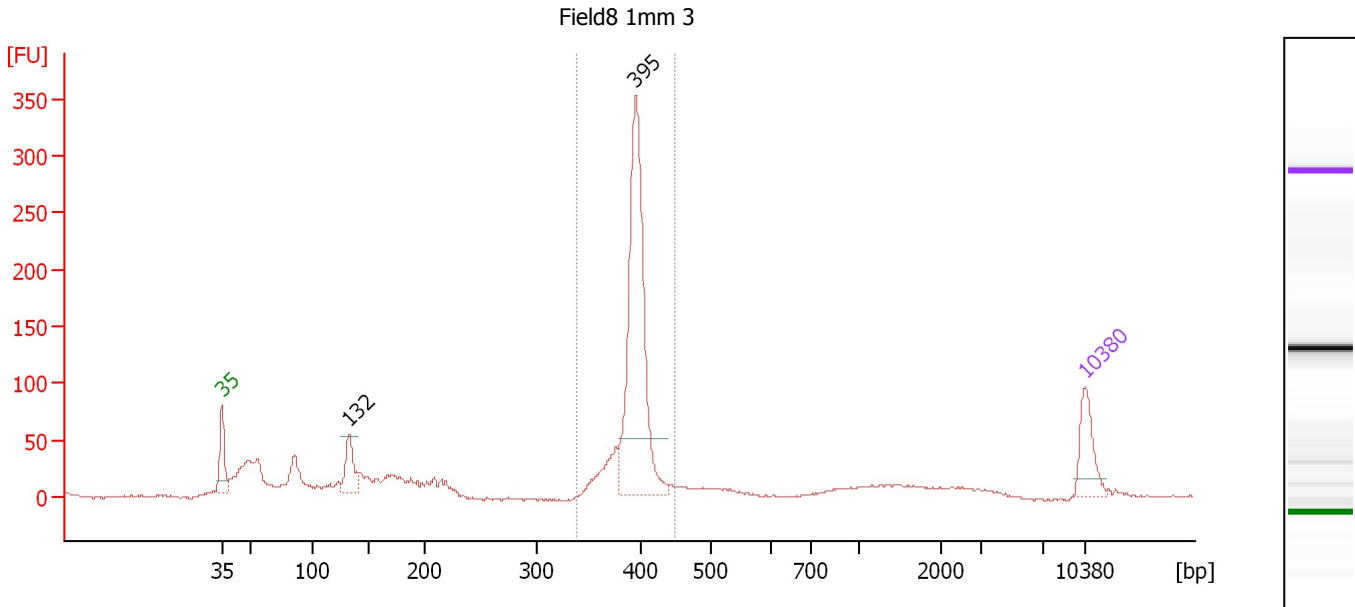
Region table for sample 6 : Field8 Endo 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	467	395	11,134.6	2,895.70	867.8	59	5.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Field8 1mm 3

Height Threshold [FU] : 50

Overall Results for sample 7 : Field8 1mm 3

Number of peaks found: 2 Corr. Area 1: 770.7
 Noise: 0.9

Peak table for sample 7 : Field8 1mm 3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	109.55	1,253.5	
3	395	671.89	2,579.9	
4	10,380	75.00	10.9	Upper Marker

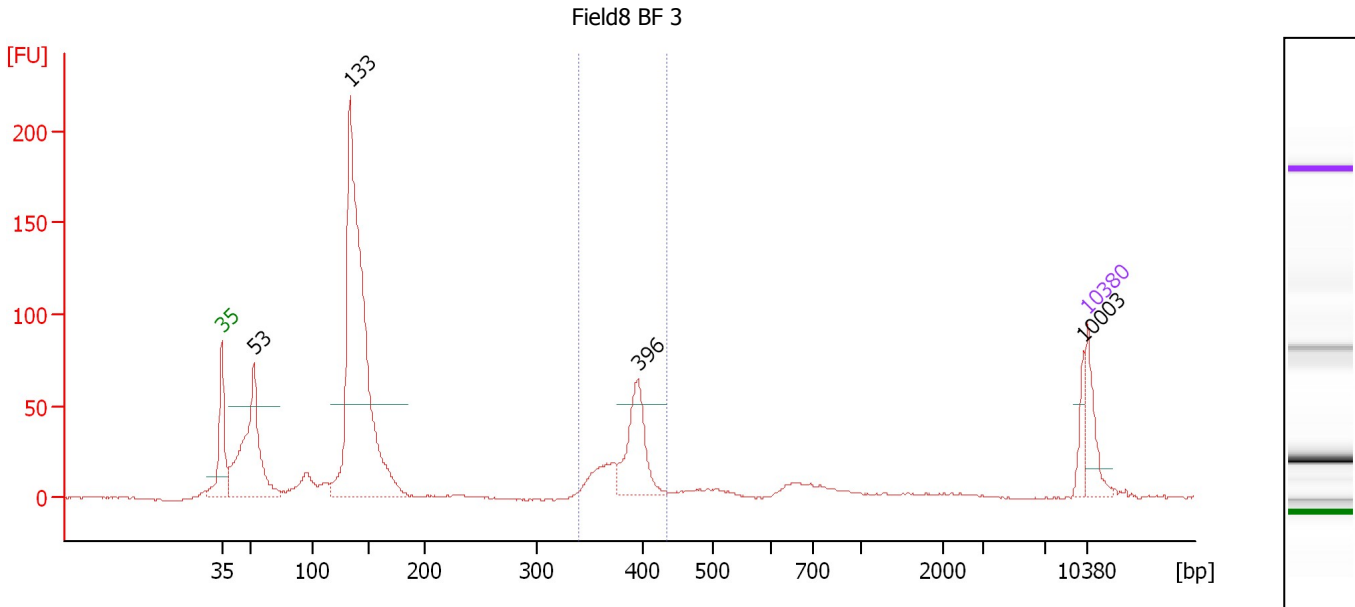
Region table for sample 7 : Field8 1mm 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
338	448	394	2,976.2	772.66	770.7	51	3.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : Field8 BF 3

Height Threshold [FU] : 50

Overall Results for sample 8 : Field8 BF 3

Number of peaks found: 4 Corr. Area 1: 207.1
 Noise: 0.5

Peak table for sample 8 : Field8 BF 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	529.92	15,022.2	
3	133	1,444.00	16,404.2	
4	396	213.25	816.0	
5	10,003	38.20	5.8	
6	10,380	75.00	10.9	Upper Marker

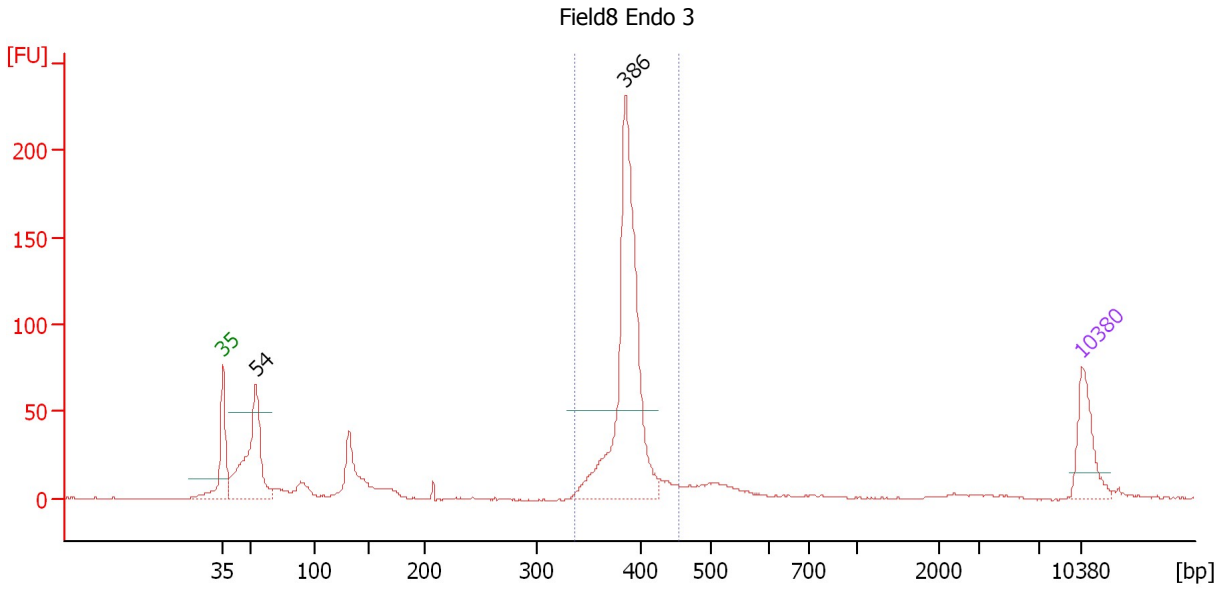
Region table for sample 8 : Field8 BF 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	436	385	1,275.3	323.99	207.1	16	4.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : Field8 Endo 3

Height Threshold [FU] : 50

Overall Results for sample 9 : Field8 Endo 3

Number of peaks found: 2 Corr. Area 1: 549.4
 Noise: 0.3

Peak table for sample 9 : Field8 Endo 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	325.73	9,192.8	
3	386	619.92	2,434.7	
4	10,380	75.00	10.9	Upper Marker

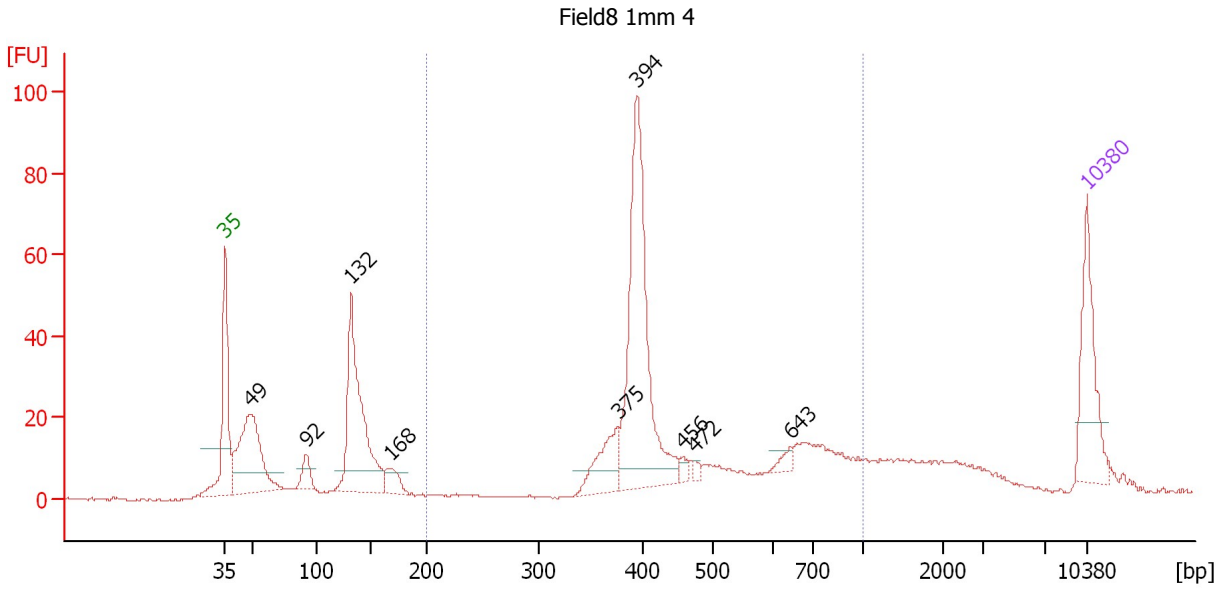
Region table for sample 9 : Field8 Endo 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
337	455	389	2,493.0	638.83	549.4	57	4.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
 Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Field8 1mm 4

Number of peaks found: 9 Corr. Area 1: 421.0
 Noise: 0.3

Peak table for sample 10 : Field8 1mm 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	200.26	6,229.7	
3	92	27.79	455.6	
4	132	250.91	2,879.9	
5	168	28.14	254.2	
6	375	61.82	249.5	
7	394	314.61	1,210.4	
8	456	8.42	28.0	
9	472	6.11	19.6	
10	643	9.50	22.4	
11	10,380	75.00	10.9	Upper Marker

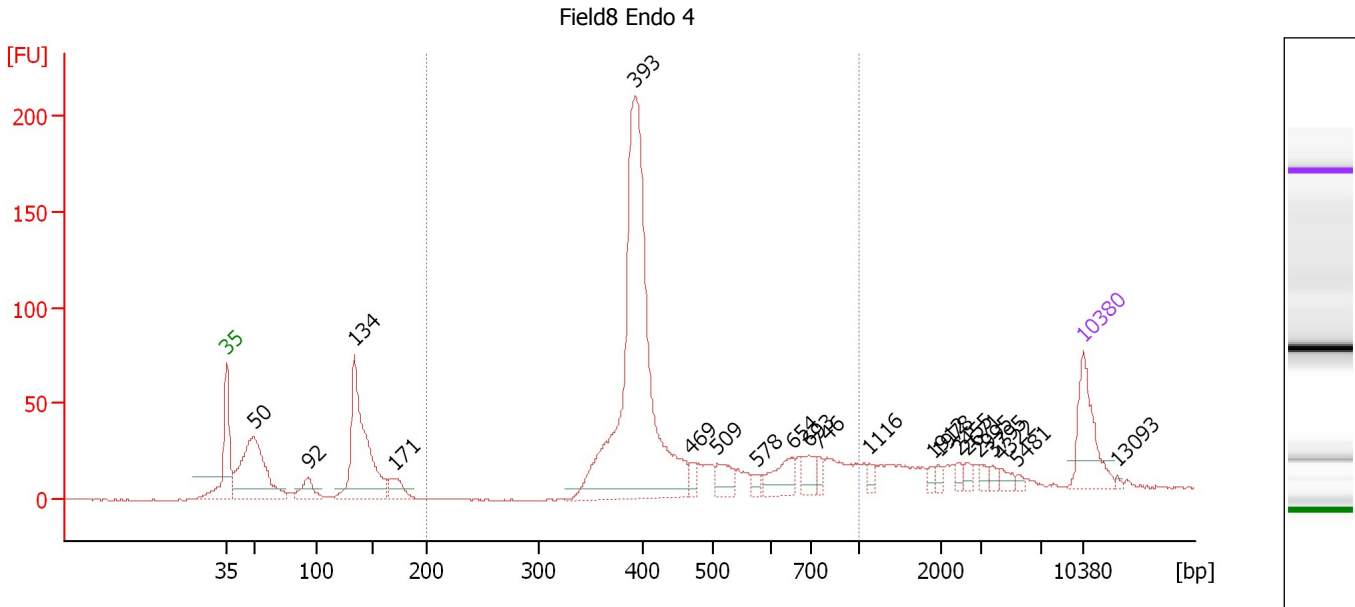
Region table for sample 10 : Field8 1mm 4

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	493	2,058.3	603.57	421.0	52	32.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : Field8 Endo 4

Number of peaks found: 21 Corr. Area 1: 867.5
 Noise: 0.4

Peak table for sample 11 : Field8 Endo 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	287.27	8,766.0	
3	92	45.33	743.4	
4	134	309.38	3,493.3	
5	171	37.25	330.9	
6	393	770.71	2,969.9	
7	469	17.71	57.3	
8	509	37.01	110.2	
9	578	11.46	30.1	
10	654	47.80	110.7	
11	693	28.17	61.6	
12	746	12.71	25.8	
13	1,116	10.34	14.0	
14	1,912	7.19	5.7	
15	1,978	6.85	5.2	
16	2,455	7.74	4.8	
17	2,671	9.18	5.2	
18	2,995	8.78	4.4	
19	3,795	6.83	2.7	
20	4,322	9.90	3.5	
21	5,481	4.48	1.2	
22	10,380	75.00	10.9	Upper Marker
23	13,093	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
Modified: 10/30/2013 11:33:45 AM

Electropherogram Summary Continued ...**... Region table for sample 11 : Field8 Endo 4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
200	1,000	471	3,384.8	969.58	867.5	60	30.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30_002.xad

Created: 10/30/2013 9:41:15 AM
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Gel Image

