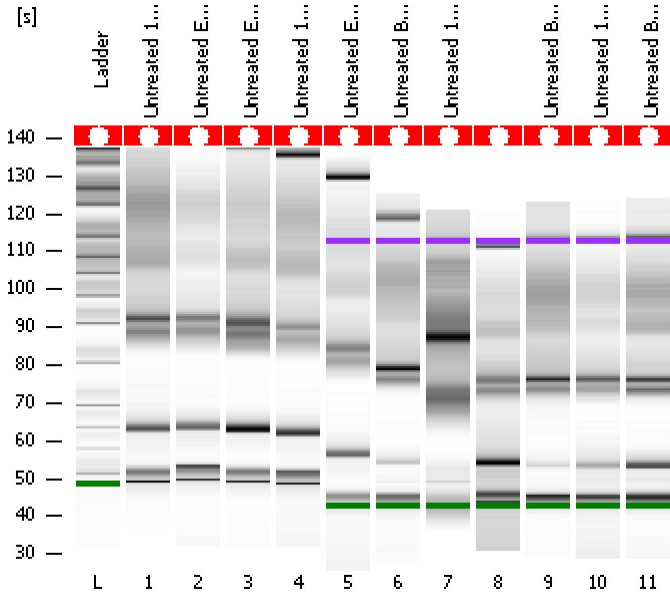


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 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

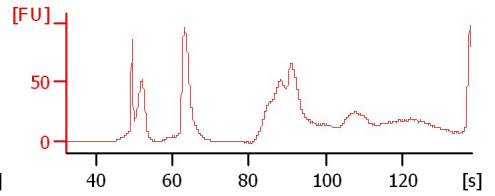
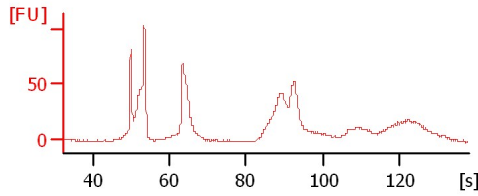
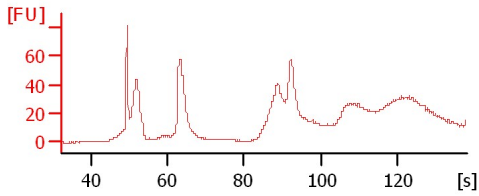
Chip Information:

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

Untreated 1mm - 1

Untreated Endo - 1

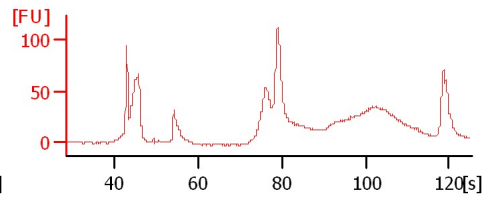
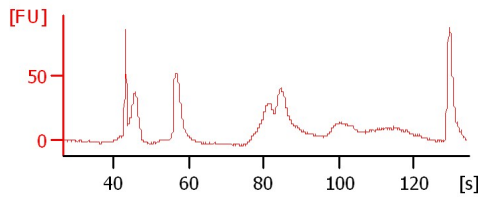
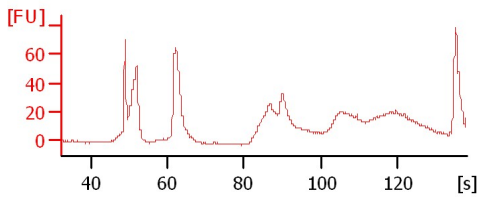
Untreated Endo - 2



Untreated 1mm - 4

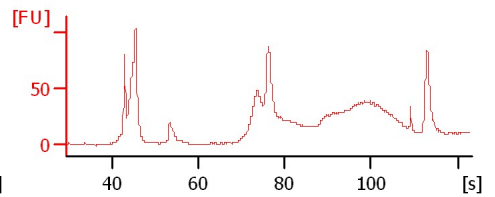
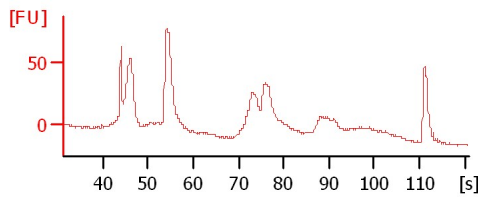
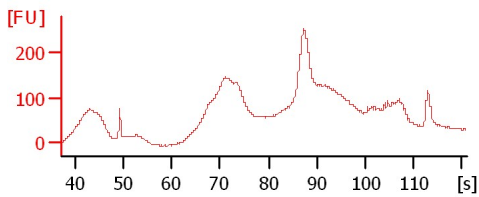
Untreated Endo - 4

Untreated BF - 5



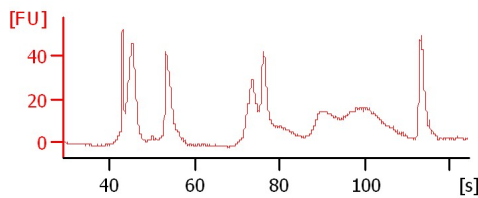
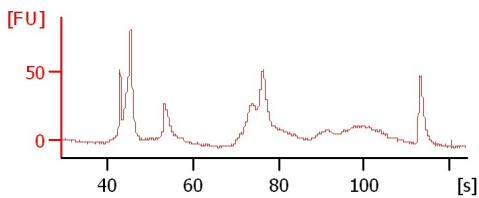
Untreated 1mm - 7.1

Untreated BF - 7



Untreated 1mm - 8

Untreated BF - 8



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Untreated 1mm - 1		<input type="checkbox"/>	✓			
Untreated Endo -1		<input type="checkbox"/>	✓			
Untreated Endo - 2		<input type="checkbox"/>	✓			
Untreated 1mm - 4		<input type="checkbox"/>	✓			
Untreated Endo - 4		<input type="checkbox"/>	✓			
Untreated BF - 5		<input type="checkbox"/>	✓			
Untreated 1mm - 7.1		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
Untreated BF - 7		<input type="checkbox"/>	✓			
Untreated 1mm - 8		<input type="checkbox"/>	✓			
Untreated BF - 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\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 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

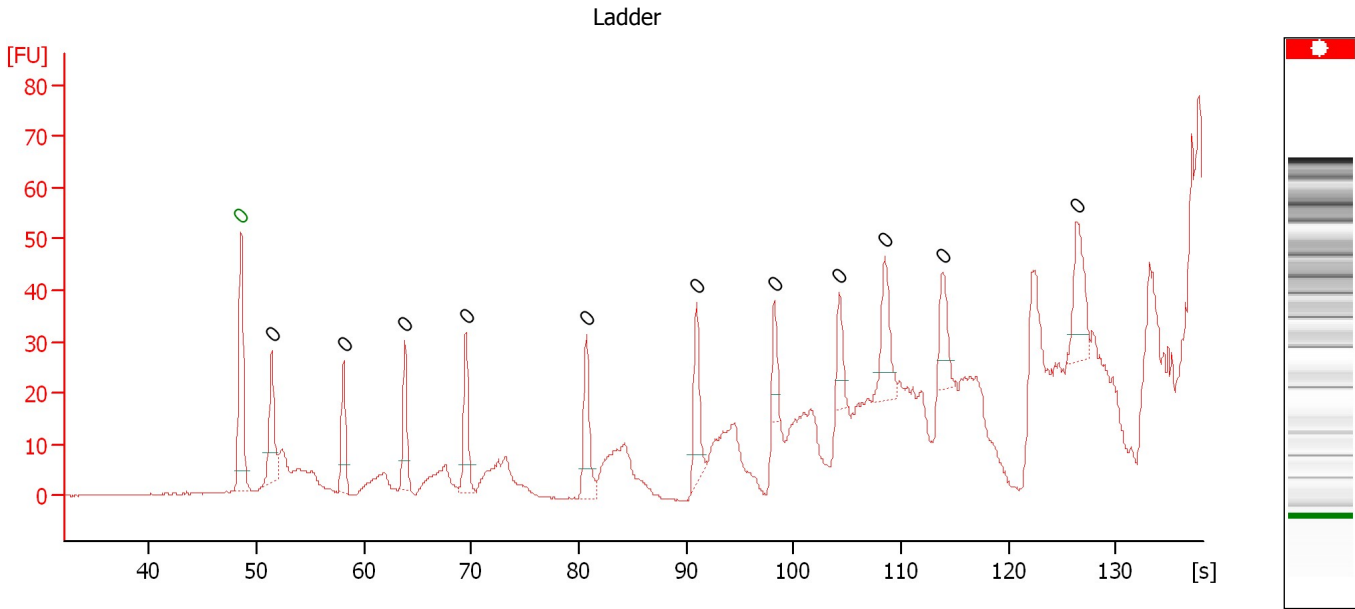
Ladder

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\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

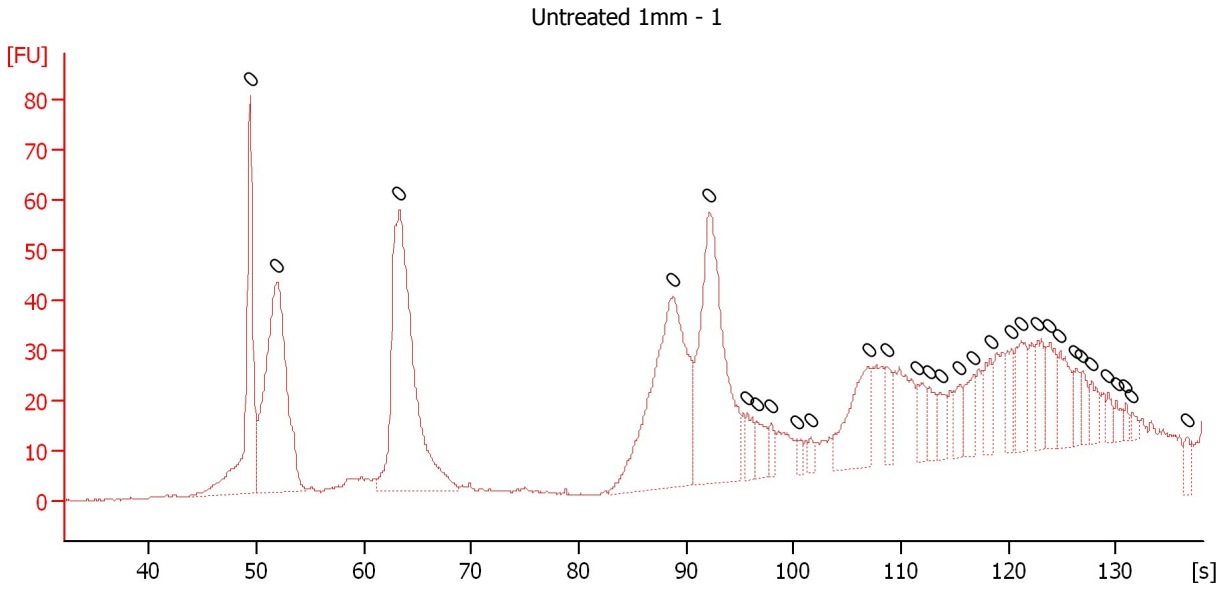
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	Ladder Peak
3	0	0.00	0.0	Ladder Peak
4	0	0.00	0.0	Ladder Peak
5	0	0.00	0.0	Ladder Peak
6	0	0.00	0.0	Ladder Peak
7	0	0.00	0.0	Ladder Peak
8	0	0.00	0.0	Ladder Peak
9	0	0.00	0.0	Ladder Peak
10	0	0.00	0.0	Ladder Peak
11	0	0.00	0.0	Ladder Peak
12	0	0.00	0.0	Ladder Peak

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Untreated 1mm - 1

Number of peaks found: 0 Noise: 0.2

Peak table for sample 1 : Untreated 1mm - 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...

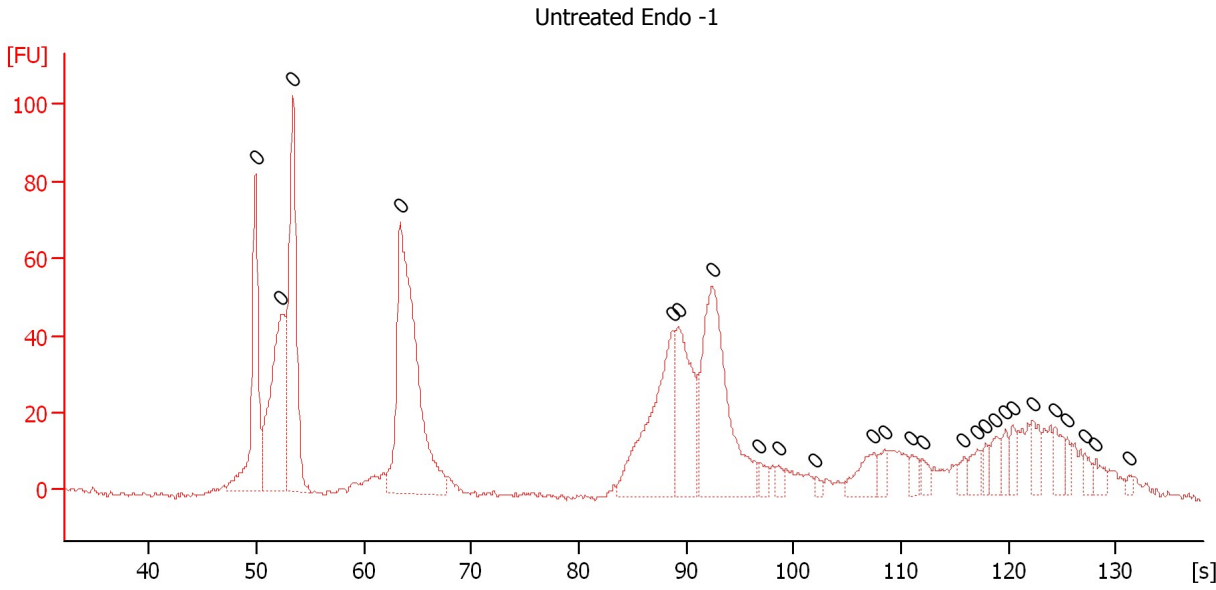
... Peak table for sample 1 : Untreated 1mm - 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Untreated Endo -1

Number of peaks found: 0 Noise: 0.7

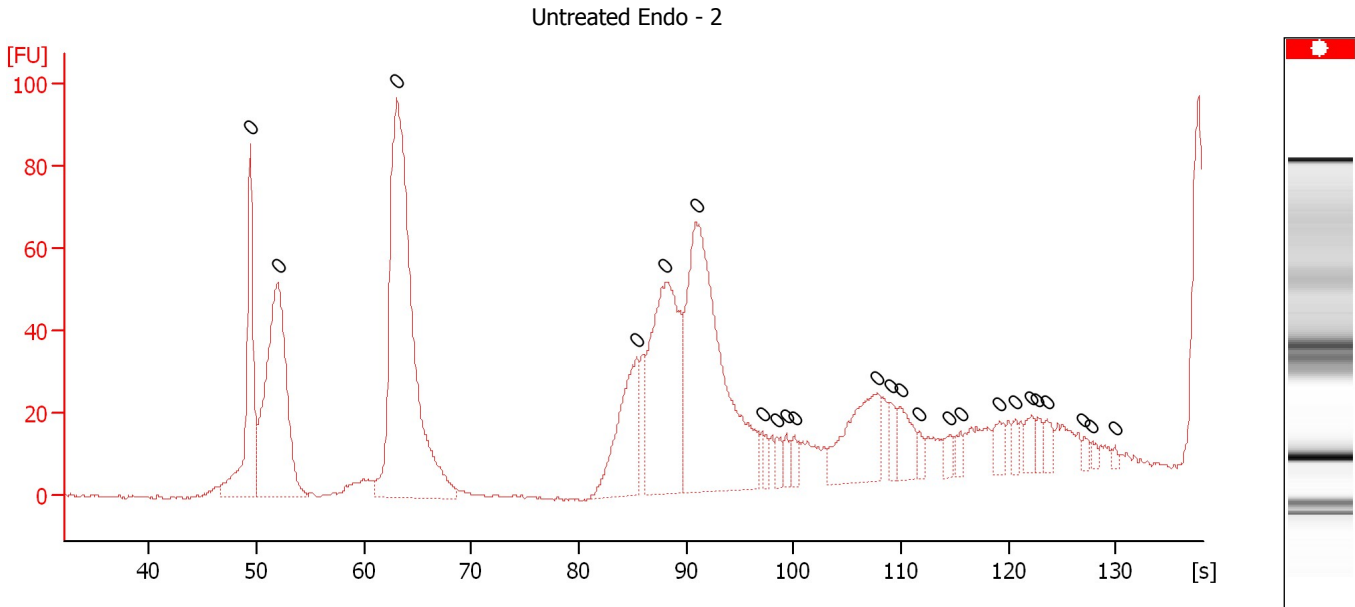
Peak table for sample 2 : Untreated Endo -1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Untreated Endo - 2

Number of peaks found: 0 Noise: 0.4

Peak table for sample 3 : Untreated Endo - 2

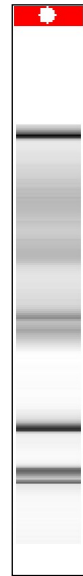
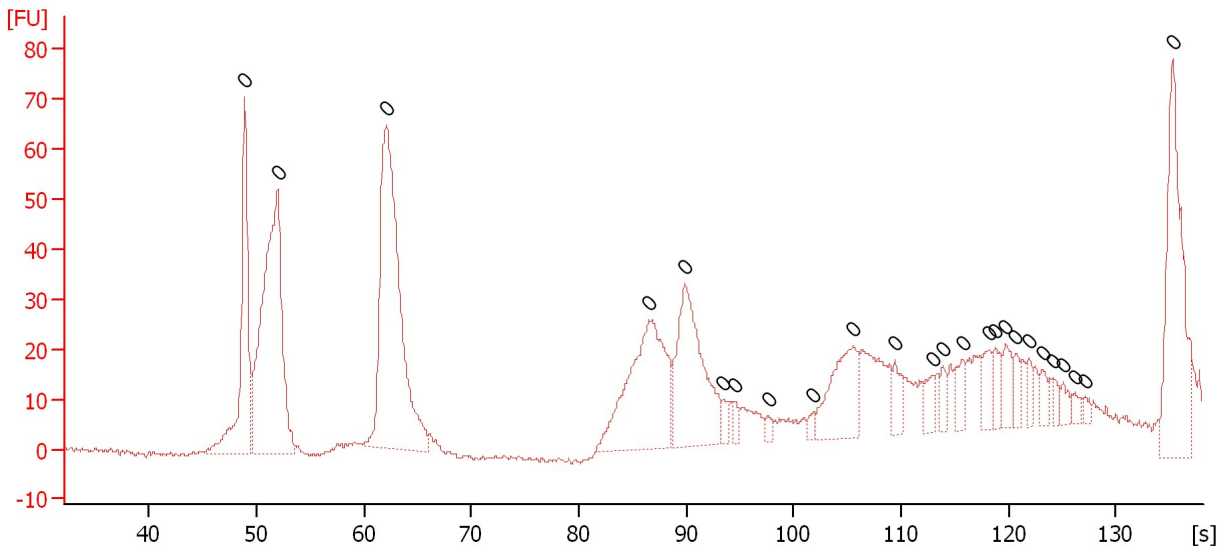
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...

Untreated 1mm - 4



Overall Results for sample 4 : Untreated 1mm - 4

Number of peaks found: 0 Noise: 0.6

Peak table for sample 4 : Untreated 1mm - 4

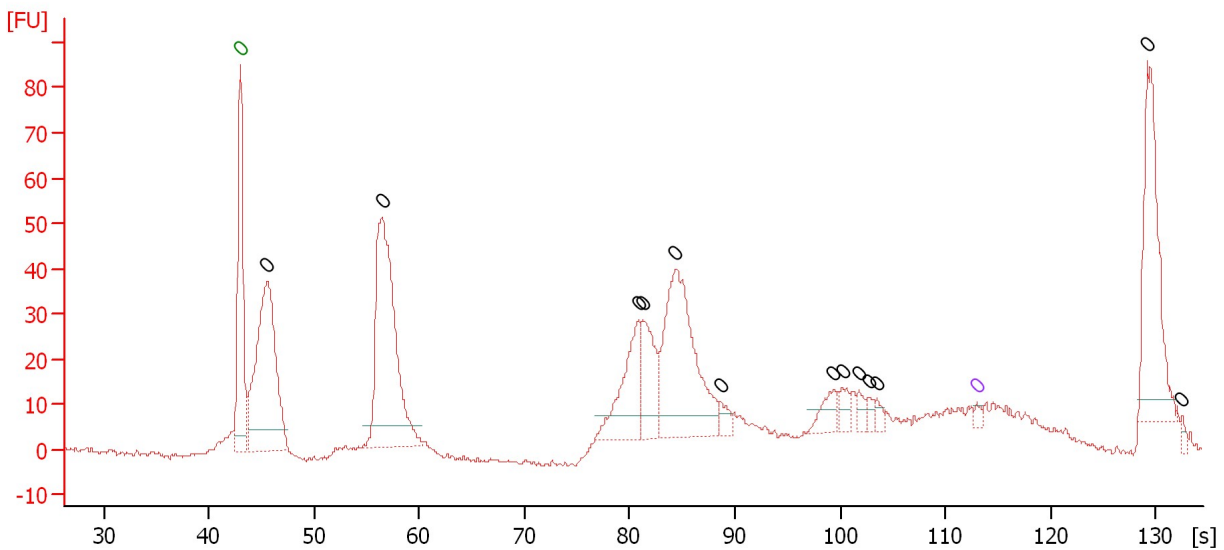
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...

Untreated Endo - 4



Overall Results for sample 5 : Untreated Endo - 4

Number of peaks found: 13 Noise: 0.4

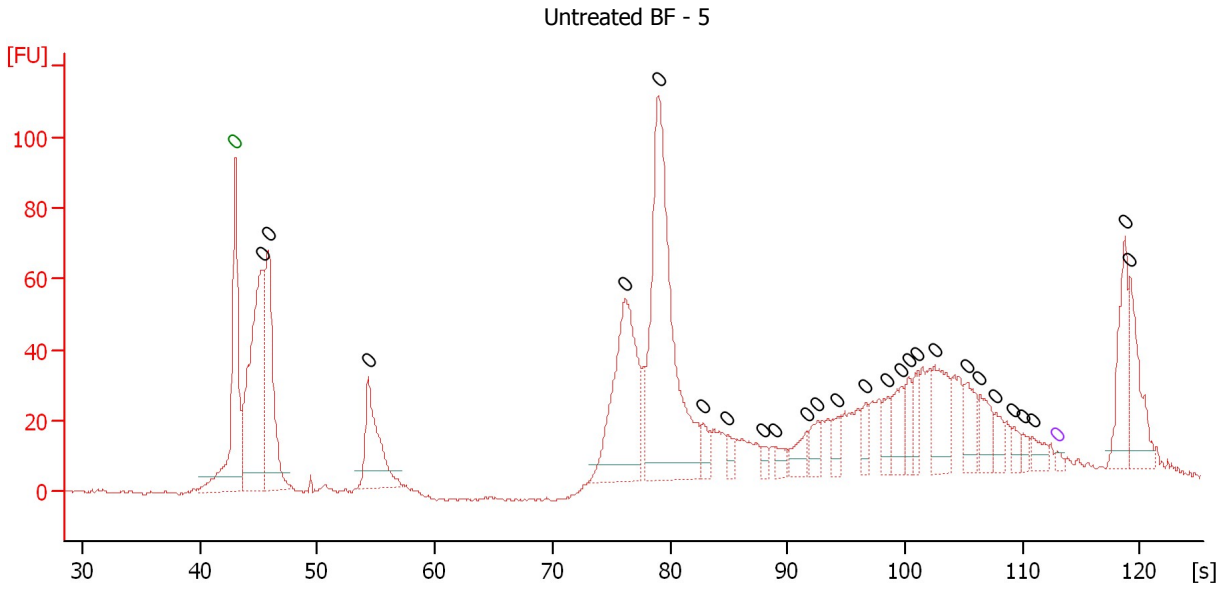
Peak table for sample 5 : Untreated Endo - 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	Upper Marker
14	0	0.00	0.0	
15	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Untreated BF - 5

Number of peaks found: 26 Noise: 0.5

Peak table for sample 6 : Untreated BF - 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	Upper Marker
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...

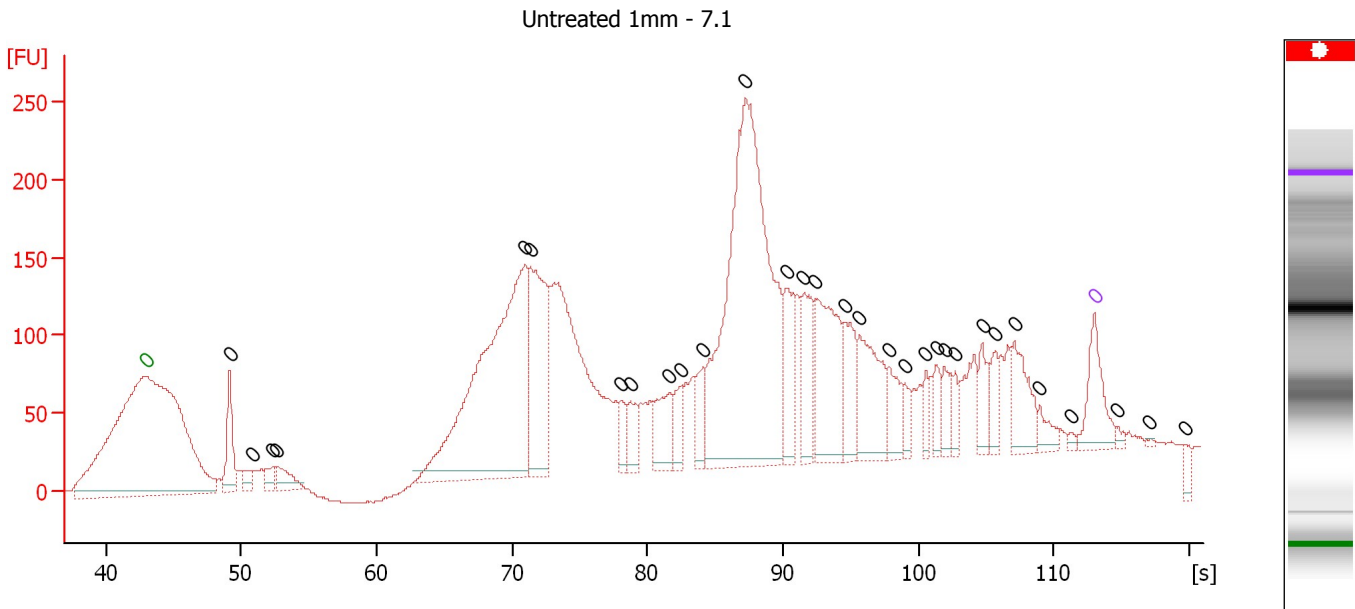
... Peak table for sample 6 : Untreated BF - 5

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Untreated 1mm - 7.1

Number of peaks found: 31 Noise: 0.6

Peak table for sample 7 : Untreated 1mm - 7.1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

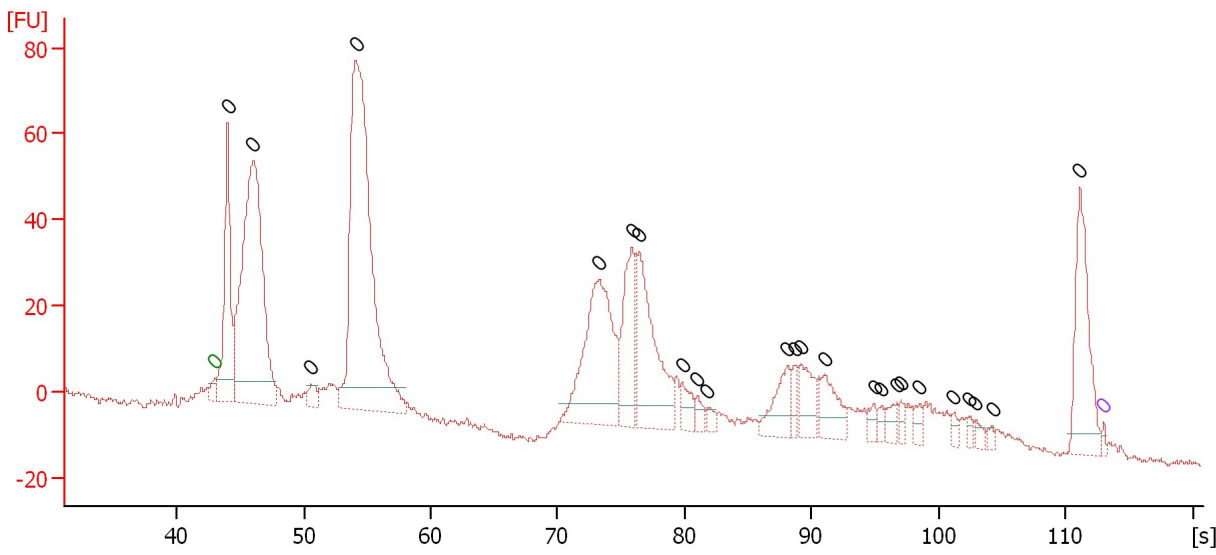
Electropherogram Summary Continued ...**... Peak table for sample 7 : Untreated 1mm - 7.1**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	Upper Marker
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 24 Noise: 0.9

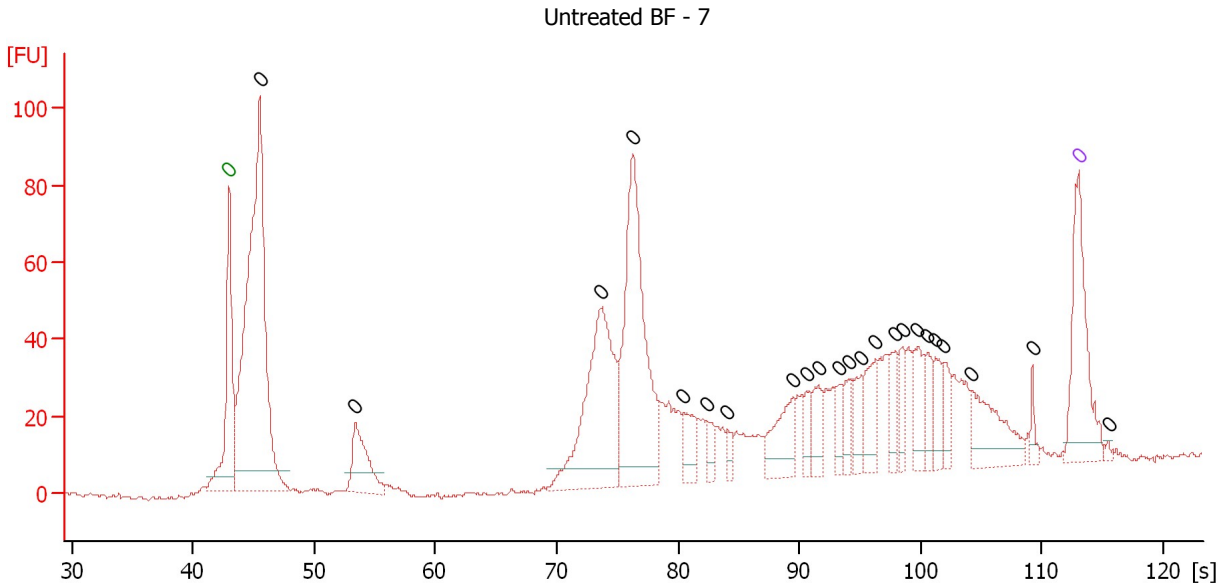
Peak table for sample 8 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Untreated BF - 7

Number of peaks found: 23 Noise: 0.7

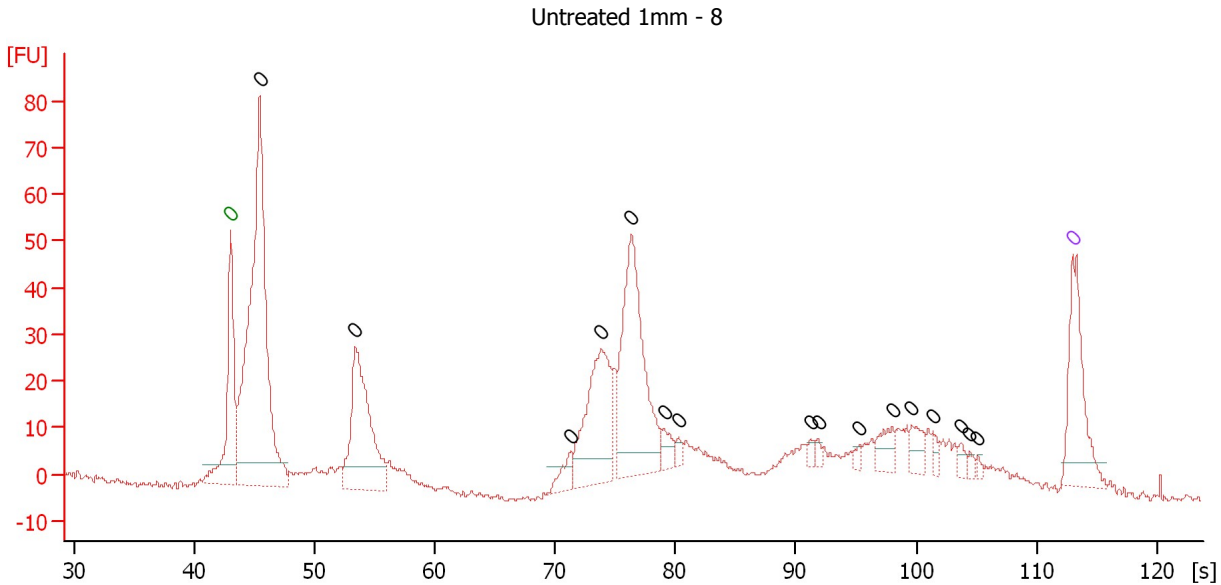
Peak table for sample 9 : Untreated BF - 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	Upper Marker
25	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Untreated 1mm - 8

Number of peaks found: 16 Noise: 0.6

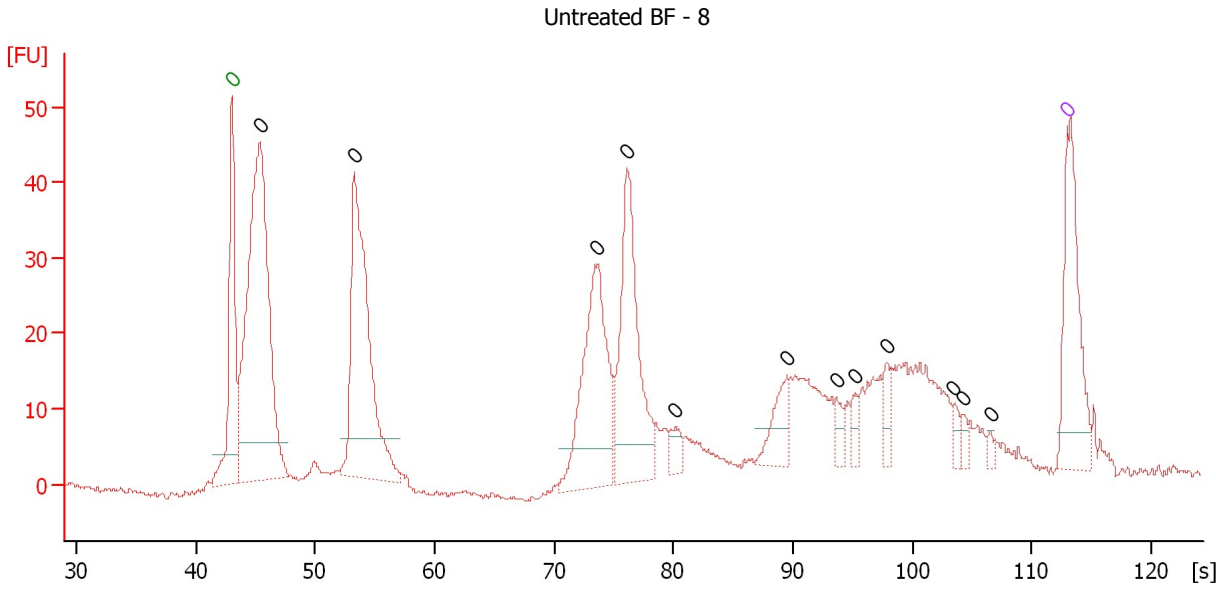
Peak table for sample 10 : Untreated 1mm - 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
 Modified: 10/4/2013 3:21:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Untreated BF - 8

Number of peaks found: 12 Noise: 0.4

Peak table for sample 11 : Untreated BF - 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_002.xad

Created: 10/4/2013 2:28:29 PM
Modified: 10/4/2013 3:21:27 PM

Gel Image

