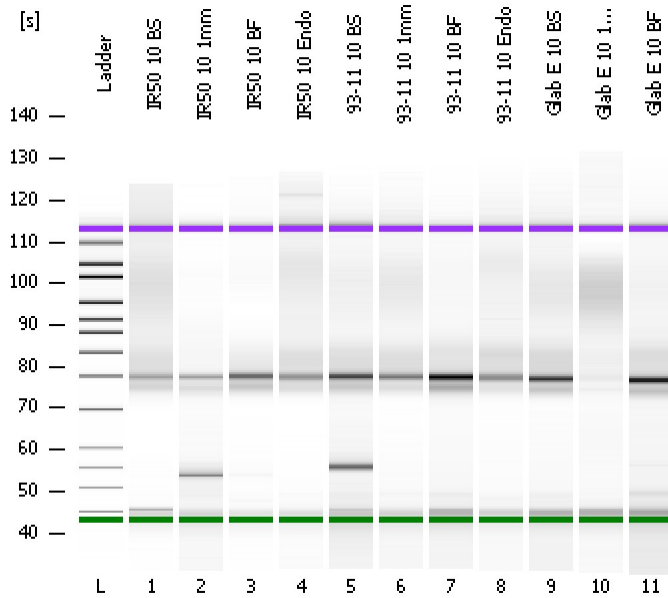


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
Modified: 6/11/2013 2:43:03 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

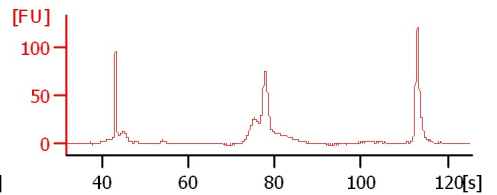
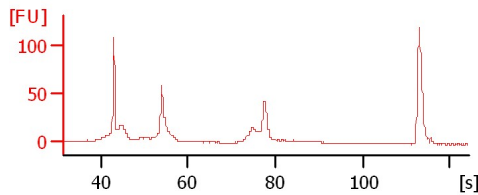
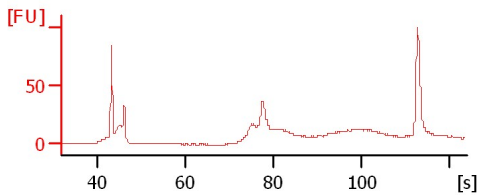
#### Chip Information:

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

IR50 10 BS

IR50 10 1mm

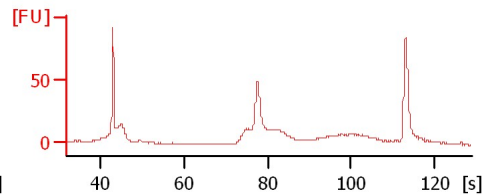
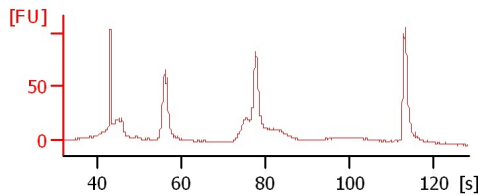
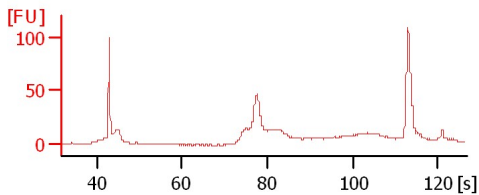
IR50 10 BF



IR50 10 Endo

93-11 10 BS

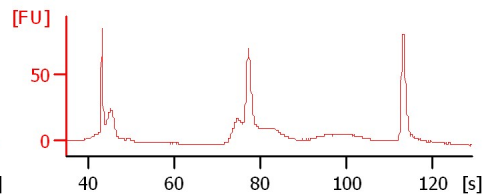
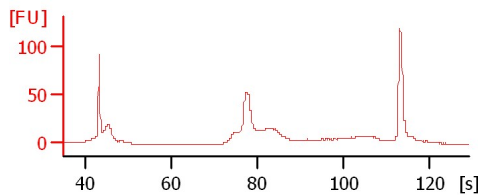
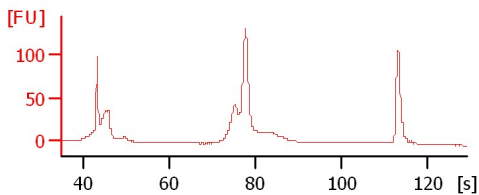
93-11 10 1mm



93-11 10 BF

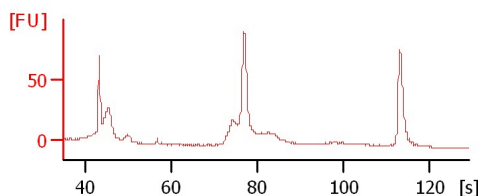
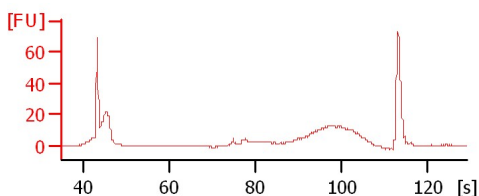
93-11 10 Endo

Glab E 10 BS



Glab E 10 1mm

Glab E 10 BF



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
IR50 10 BS		<input type="checkbox"/>	✓			
IR50 10 1mm		<input type="checkbox"/>	✓			
IR50 10 BF		<input type="checkbox"/>	✓			
IR50 10 Endo		<input type="checkbox"/>	✓			
93-11 10 BS		<input type="checkbox"/>	✓			
93-11 10 1mm		<input type="checkbox"/>	✓			
93-11 10 BF		<input type="checkbox"/>	✓			
93-11 10 Endo		<input type="checkbox"/>	✓			
Glab E 10 BS		<input type="checkbox"/>	✓			
Glab E 10 1mm		<input type="checkbox"/>	✓			
Glab E 10 BF		<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\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
Modified: 6/11/2013 2:43:03 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

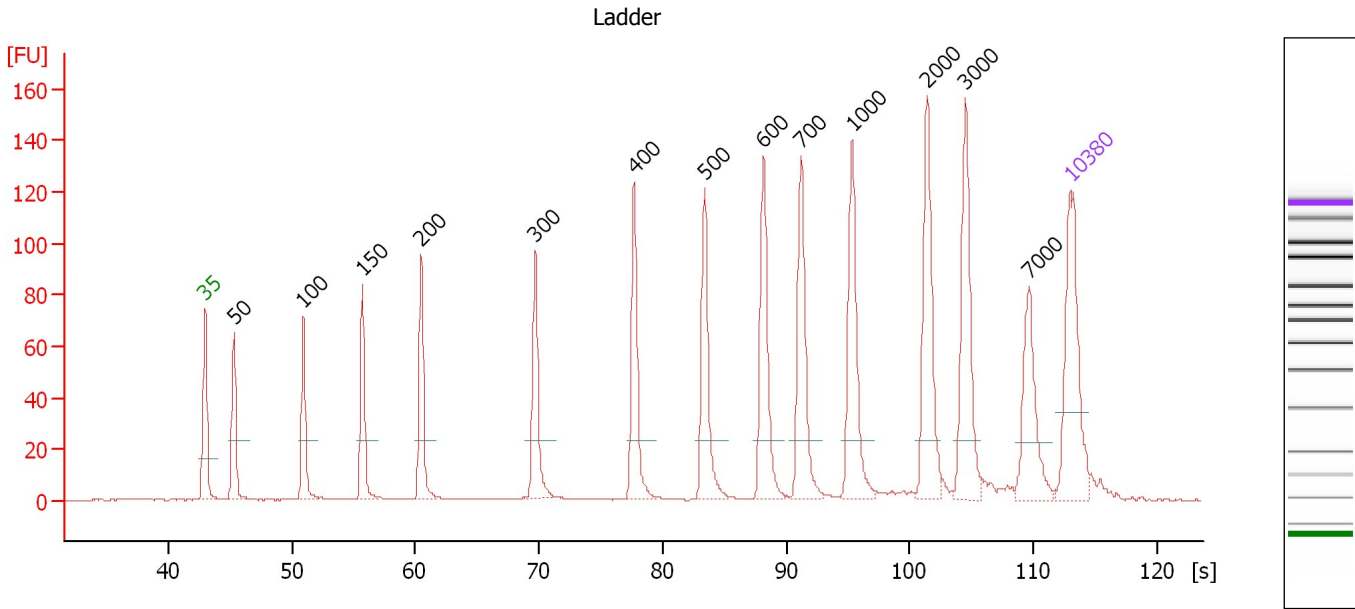
**Ladder**

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\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

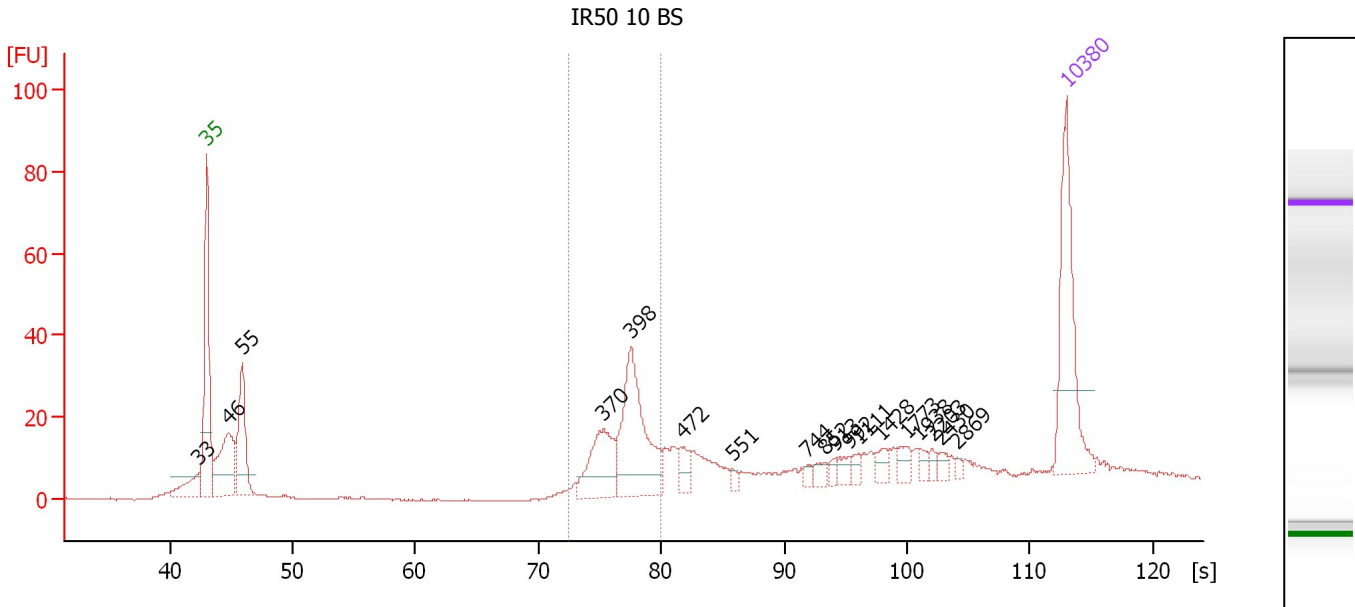
**Peak table for Ladder**

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	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : IR50 10 BS**

Number of peaks found: 18      Corr. Area 1: 134.5  
 Noise: 0.2

**Peak table for sample 1 : IR50 10 BS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	86.88	2,850.6	
4	55	79.54	2,198.8	
5	370	58.18	238.3	
6	398	110.59	420.6	
7	472	15.56	49.9	
8	551	3.97	10.9	
9	744	4.07	8.3	
10	852	6.71	11.9	
11	913	4.87	8.1	
12	992	7.17	11.0	
13	1,111	4.86	6.6	
14	1,428	8.94	9.5	
15	1,773	8.85	7.6	
16	1,938	4.95	3.9	
17	2,203	3.87	2.7	
18	2,430	5.09	3.2	
19	2,869	2.32	1.2	
20	10,380	75.00	10.9	Upper Marker

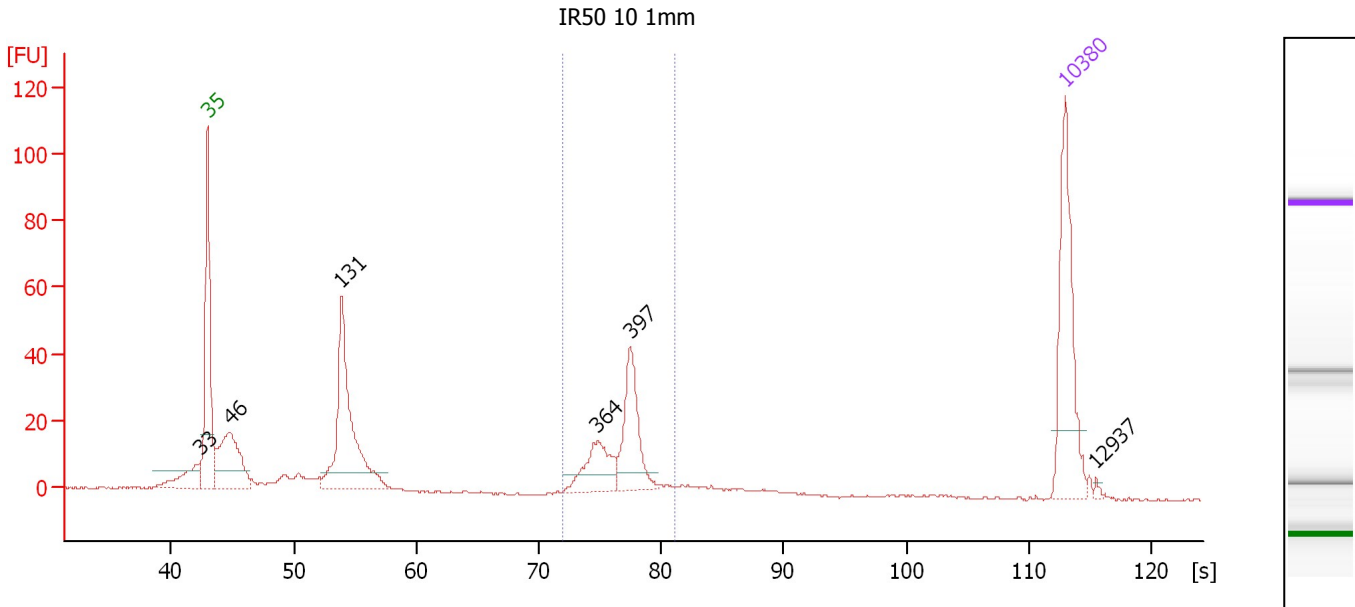
**Region table for sample 1 : IR50 10 BS**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.42	80.05	393	576.7	149.06	134.5 29	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : IR50 10 1mm**

Number of peaks found: 6                      Corr. Area 1: 141.2  
 Noise: 0.3

**Peak table for sample 2 : IR50 10 1mm**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	100.31	3,269.4	
4	131	172.60	1,996.4	
5	364	43.70	182.0	
6	397	62.84	240.0	
7	10,380	75.00	10.9	Upper Marker
8	12,937	0.00	0.0	

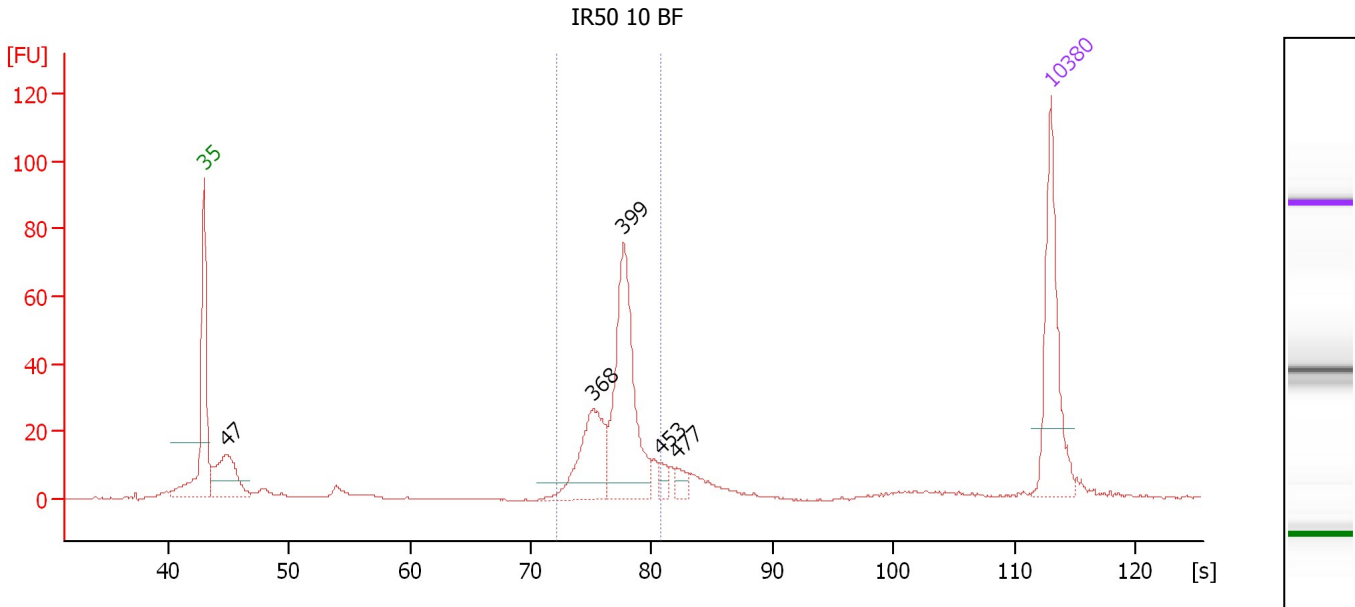
**Region table for sample 2 : IR50 10 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.91	81.19	388	467.1	119.17	141.2 29	6.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : IR50 10 BF**

Number of peaks found: 5                      Corr. Area 1: 274.3  
 Noise: 0.2

**Peak table for sample 3 : IR50 10 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	80.27	2,592.3	
3	368	80.78	332.8	
4	399	156.32	593.1	
5	453	8.59	28.7	
6	477	10.04	31.9	
7	10,380	75.00	10.9	Upper Marker

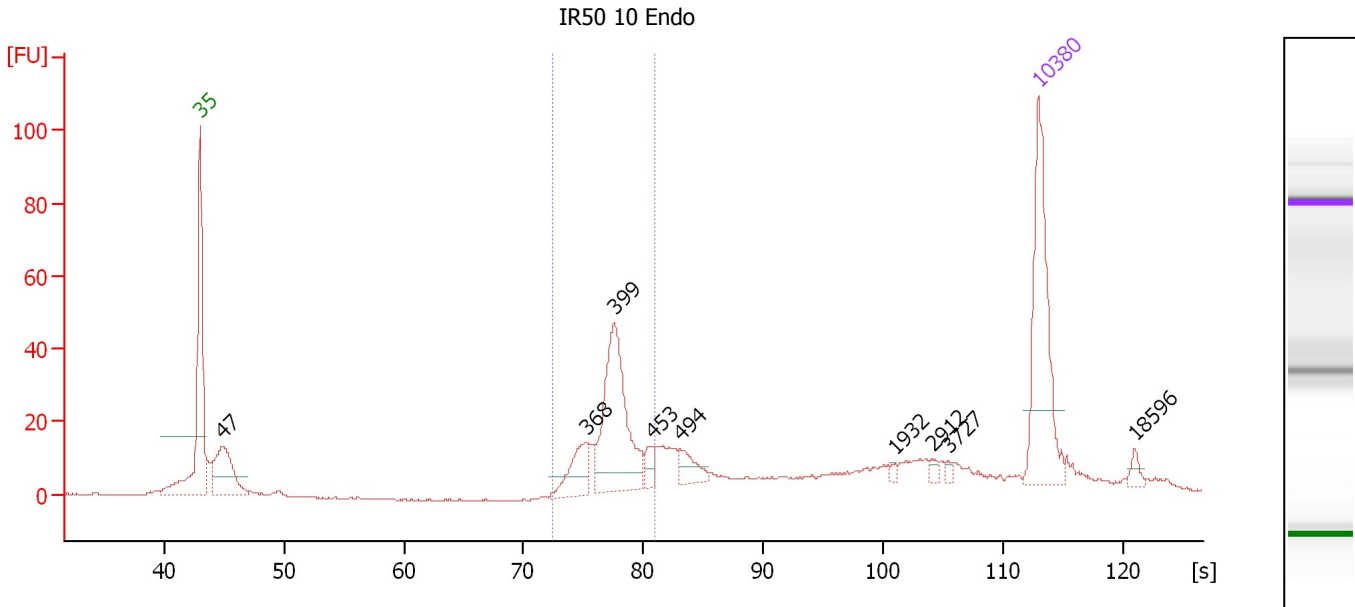
**Region table for sample 3 : IR50 10 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.10	80.83	394	935.4	242.28	274.3 63	6.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : IR50 10 Endo**

Number of peaks found: 9                      Corr. Area 1: 191.4  
 Noise: 0.2

**Peak table for sample 4 : IR50 10 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	65.08	2,083.4	
3	368	30.98	127.4	
4	399	110.32	419.2	
5	453	9.79	32.8	
6	494	16.04	49.2	
7	1,932	2.20	1.7	
8	2,912	2.95	1.5	
9	3,727	2.16	0.9	
10	10,380	75.00	10.9	Upper Marker
11	18,596	0.00	0.0	

**Region table for sample 4 : IR50 10 Endo**

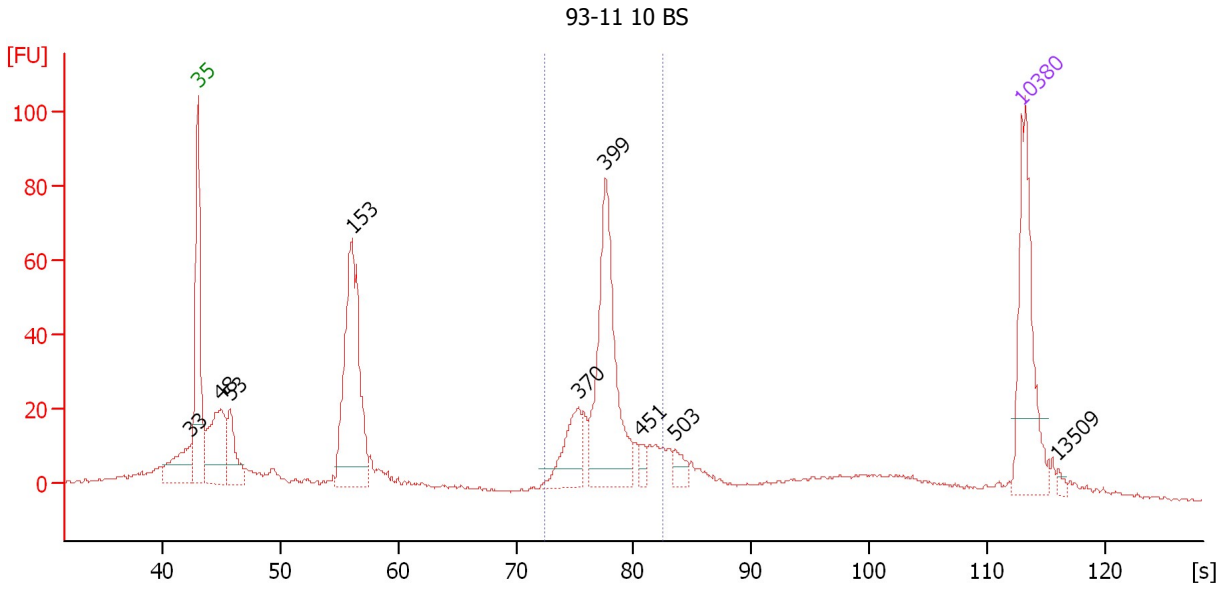
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.37	81.04	399	604.0	158.25	191.4 38	6.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 93-11 10 BS**

Number of peaks found: 9      Corr. Area 1: 300.9  
 Noise: 0.5

**Peak table for sample 5 : 93-11 10 BS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	97.55	3,108.7	
4	53	48.69	1,379.2	
5	153	207.83	2,053.5	
6	370	44.43	182.0	
7	399	156.45	594.1	
8	451	7.72	25.9	
9	503	11.96	36.0	
10	10,380	75.00	10.9	Upper Marker
11	13,509	0.00	0.0	

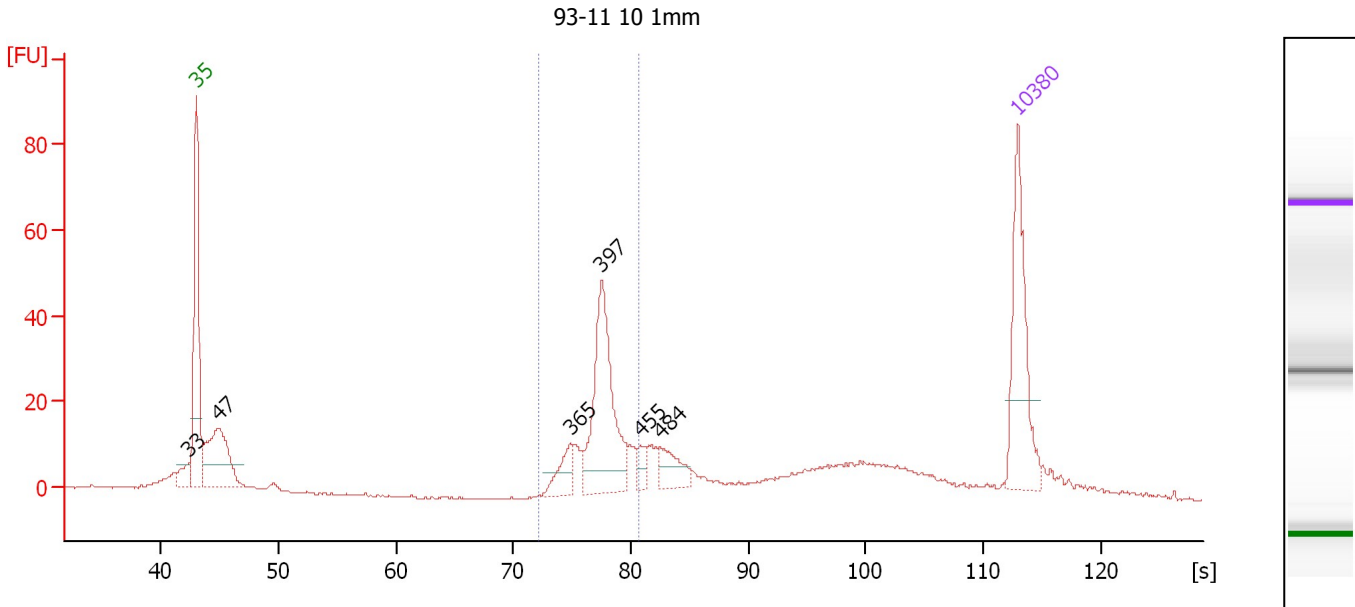
**Region table for sample 5 : 93-11 10 BS**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
72.40	82.57	403	969.2	256.32	300.9	33	7.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 93-11 10 1mm**

Number of peaks found: 6                      Corr. Area 1: 169.5  
 Noise: 0.2

**Peak table for sample 6 : 93-11 10 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	47	114.02	3,699.2	
4	365	27.48	114.2	
5	397	136.62	521.1	
6	455	11.90	39.6	
7	484	27.19	85.2	
8	10,380	75.00	10.9	Upper Marker

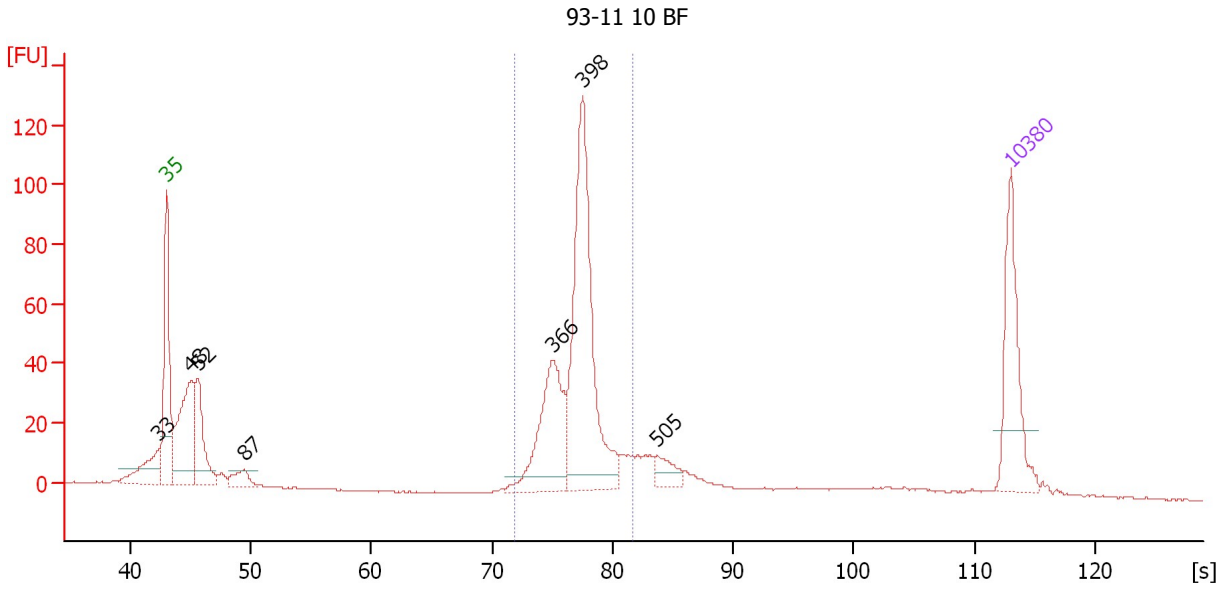
**Region table for sample 6 : 93-11 10 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.10	80.77	399	733.7	192.45	169.5 35	6.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 93-11 10 BF**

Number of peaks found: 7      Corr. Area 1: 457.3  
 Noise: 0.2

**Peak table for sample 7 : 93-11 10 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	148.08	4,670.3	
4	52	84.18	2,442.3	
5	87	22.47	393.4	
6	366	126.56	524.1	
7	398	266.80	1,016.4	
8	505	20.12	60.4	
9	10,380	75.00	10.9	Upper Marker

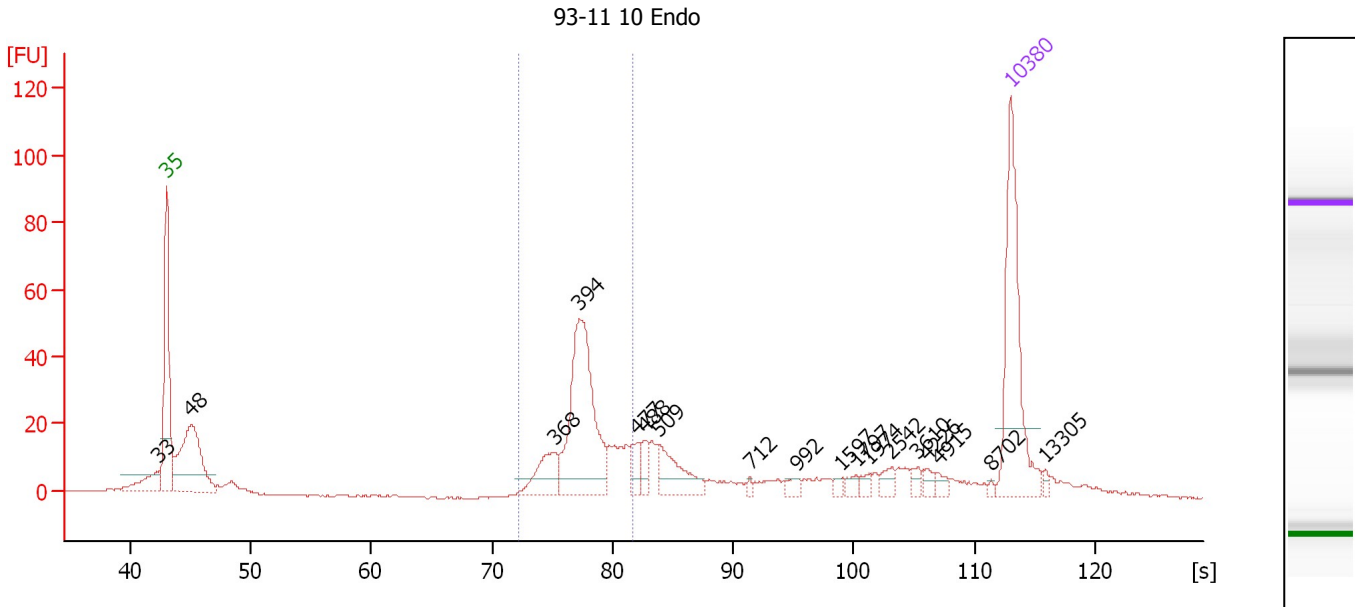
**Region table for sample 7 : 93-11 10 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.80	81.61	393	1,587.3	409.99	457.3 53	6.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 93-11 10 Endo**

Number of peaks found: 18                      Corr. Area 1: 231.8  
 Noise: 0.2

**Peak table for sample 8 : 93-11 10 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	112.19	3,528.1	
4	368	28.70	118.2	
5	394	127.62	491.3	
6	477	12.03	38.2	
7	488	10.34	32.1	
8	509	33.09	98.4	
9	712	2.34	5.0	
10	992	4.63	7.1	
11	1,597	2.98	2.8	
12	1,797	4.19	3.5	
13	1,974	3.71	2.8	
14	2,542	6.15	3.7	
15	3,610	4.20	1.8	
16	4,226	4.75	1.7	
17	4,915	3.68	1.1	
18	8,702	1.45	0.3	
19	10,380	75.00	10.9	Upper Marker
20	13,305	0.00	0.0	

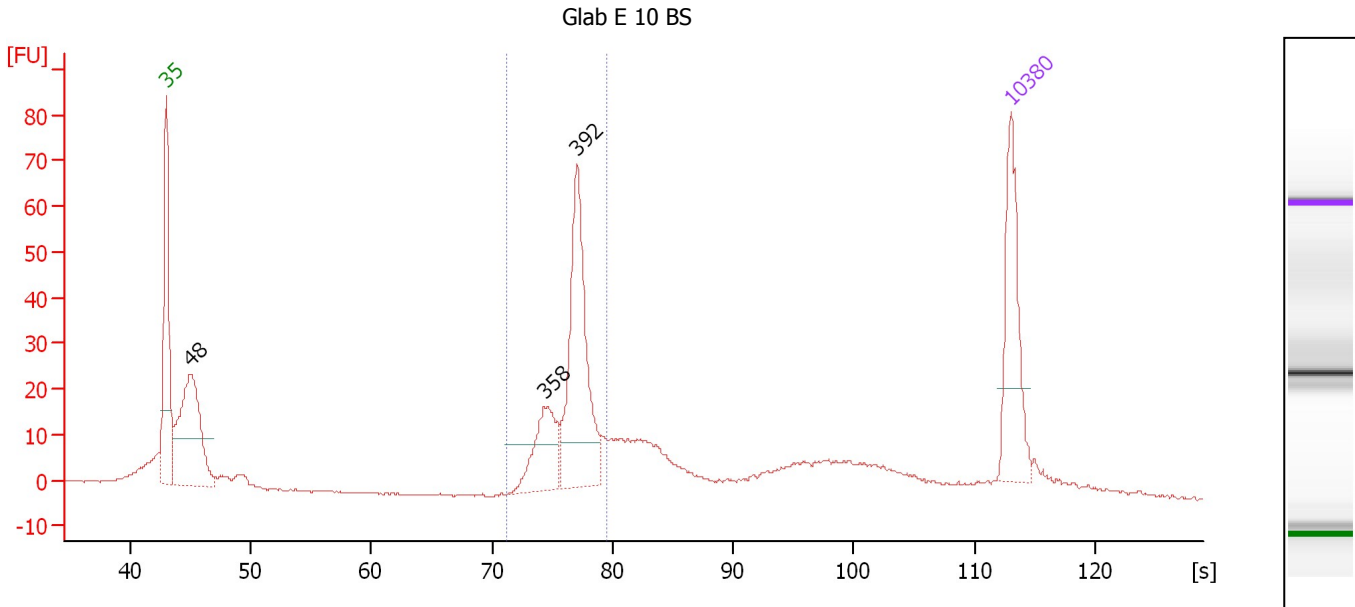
**Region table for sample 8 : 93-11 10 Endo**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.23	81.63	402	710.8	187.59	231.8 37	7.2	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Glab E 10 BS**

Height Threshold [FU] : 10

**Overall Results for sample 9 : Glab E 10 BS**

Number of peaks found: 3                      Corr. Area 1: 208.2  
 Noise: 0.2

**Peak table for sample 9 : Glab E 10 BS**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	197.95	6,294.6	
3	358	71.66	303.7	
4	392	178.08	688.8	
5	10,380	75.00	10.9	Upper Marker

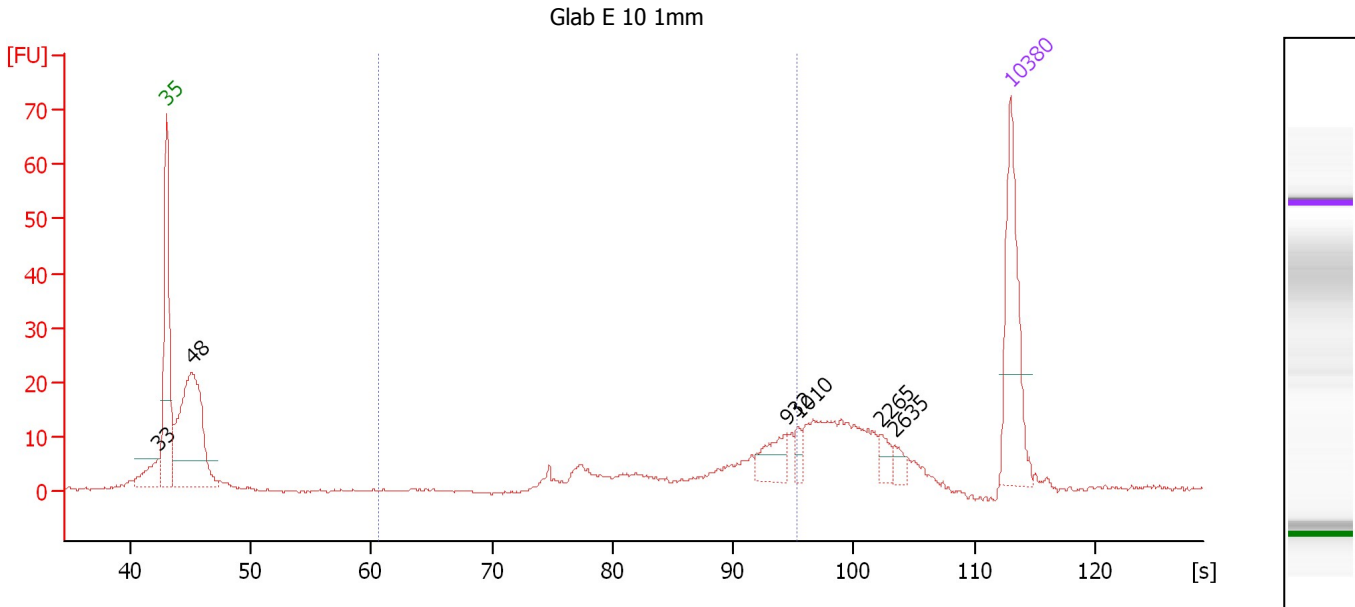
**Region table for sample 9 : Glab E 10 BS**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.28	79.50	386	1,003.9	255.51	208.2 36	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Glab E 10 1mm**

Number of peaks found: 6                      Corr. Area 1: 99.1  
 Noise: 0.1

**Peak table for sample 10 : Glab E 10 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	213.55	6,689.7	
4	932	24.85	40.4	
5	1,010	7.98	12.0	
6	2,265	9.51	6.4	
7	2,635	6.89	4.0	
8	10,380	75.00	10.9	Upper Marker

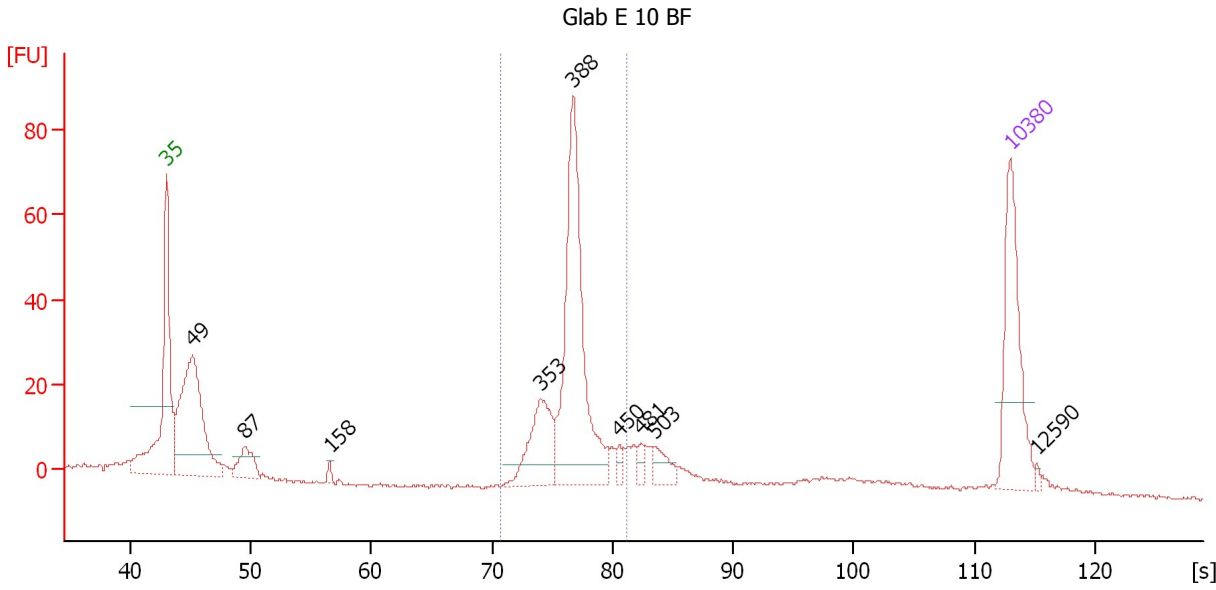
**Region table for sample 10 : Glab E 10 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
60.51	95.36	657	352.7	132.03	99.1	28	30.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Glab E 10 BF**

Number of peaks found: 9                      Corr. Area 1: 265.0  
 Noise: 0.3

**Peak table for sample 11 : Glab E 10 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	215.60	6,693.7	
3	87	34.48	601.5	
4	158	4.61	44.1	
5	353	68.27	292.7	
6	388	218.31	853.3	
7	450	7.51	25.3	
8	481	7.72	24.3	
9	503	17.01	51.3	
10	10,380	75.00	10.9	Upper Marker
11	12,590	0.00	0.0	

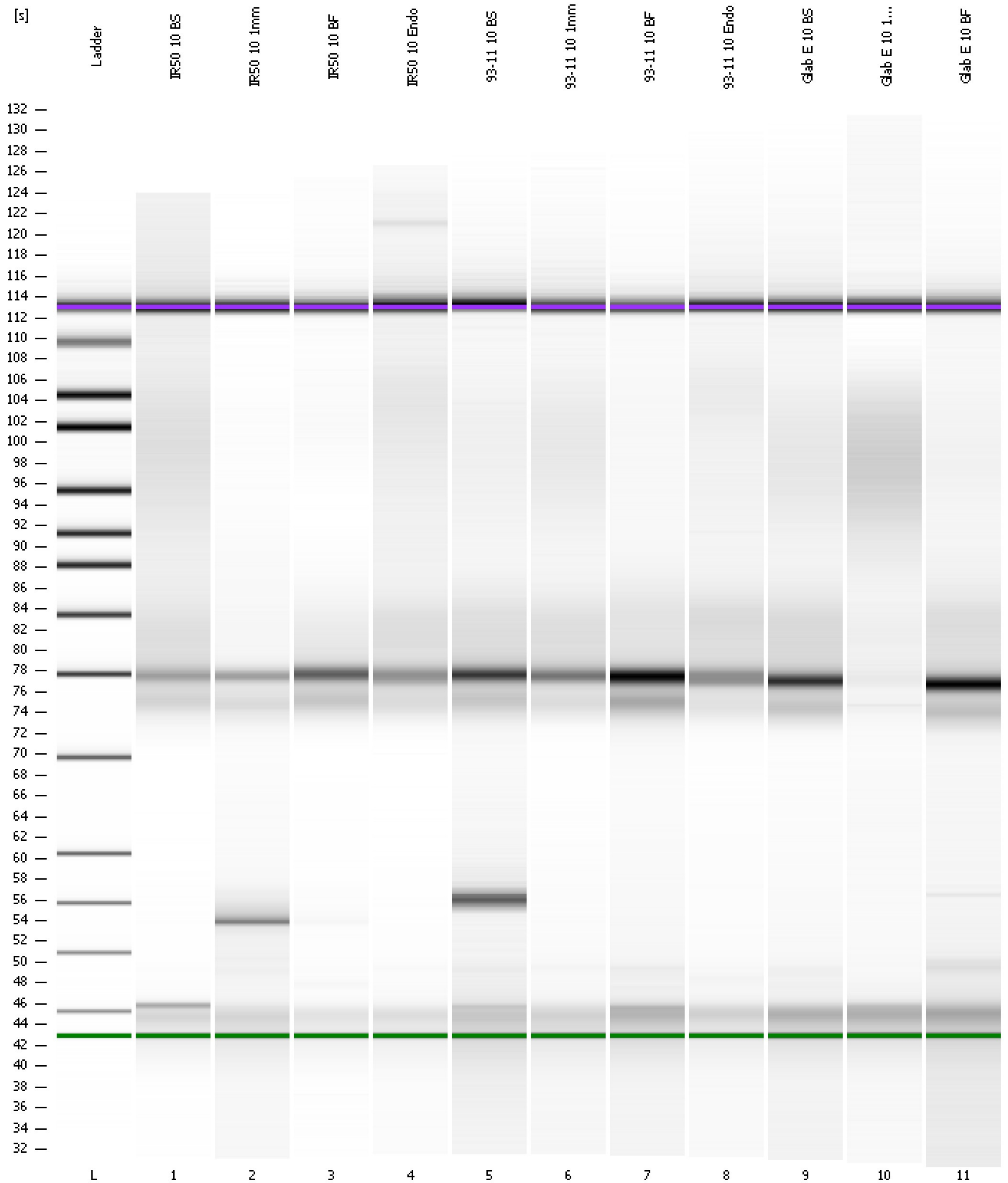
**Region table for sample 11 : Glab E 10 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
70.71	81.22	387	1,168.2	297.61	265.0	48	6.5	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
Modified: 6/11/2013 2:43:03 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11\_007.xad

Created: 6/11/2013 2:02:08 PM  
 Modified: 6/11/2013 2:43:03 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		6/11/2013 2:42:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-11\2013-06-11_007.xad)		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/11/2013 2:02:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1