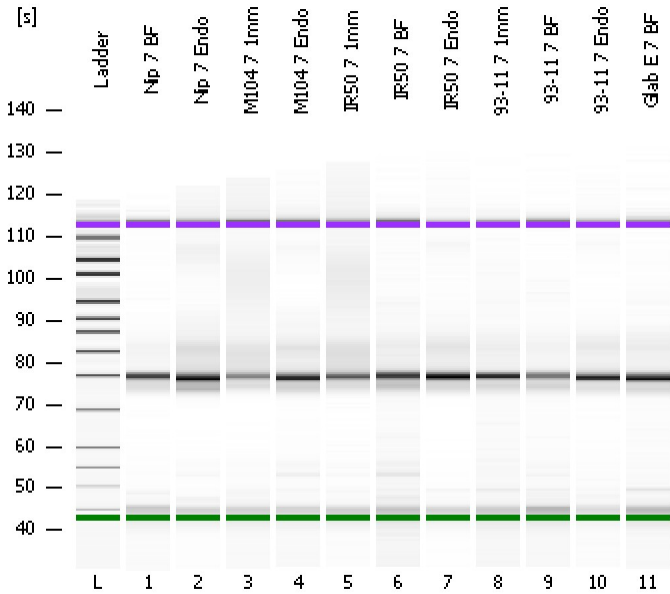


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
Modified: 6/10/2013 3:43:57 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

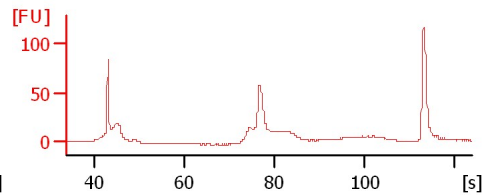
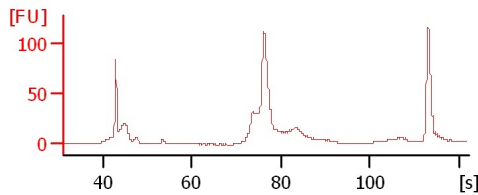
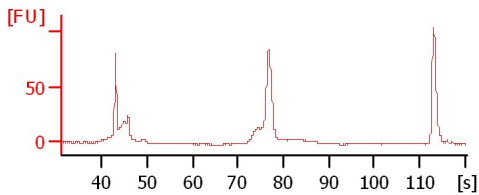
#### Chip Information:

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

Nip 7 BF

Nip 7 Endo

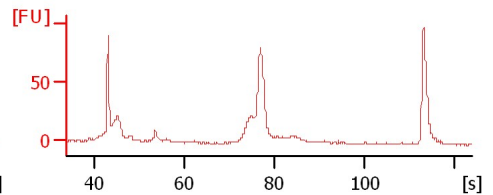
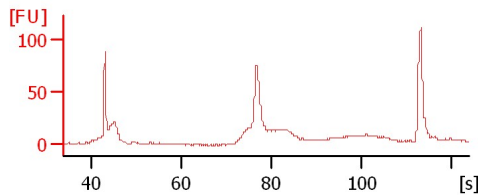
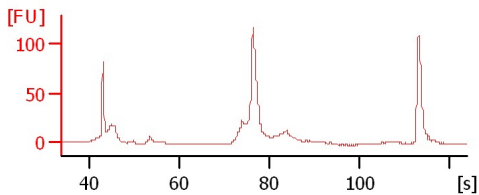
M104 7 1mm



M104 7 Endo

IR50 7 1mm

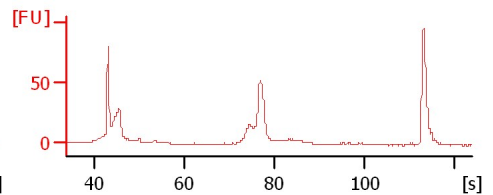
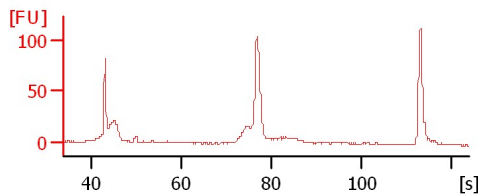
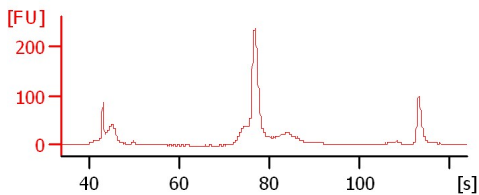
IR50 7 BF



IR50 7 Endo

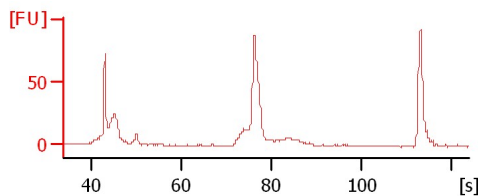
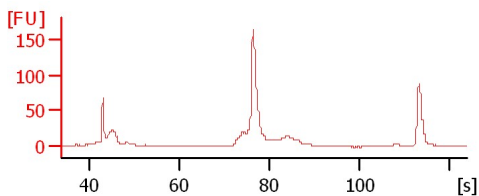
93-11 7 1mm

93-11 7 BF



93-11 7 Endo

Glab E 7 BF



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nip 7 BF		<input type="checkbox"/>	✓			
Nip 7 Endo		<input type="checkbox"/>	✓			
M104 7 1mm		<input type="checkbox"/>	✓			
M104 7 Endo		<input type="checkbox"/>	✓			
IR50 7 1mm		<input type="checkbox"/>	✓			
IR50 7 BF		<input type="checkbox"/>	✓			
IR50 7 Endo		<input type="checkbox"/>	✓			
93-11 7 1mm		<input type="checkbox"/>	✓			
93-11 7 BF		<input type="checkbox"/>	✓			
93-11 7 Endo		<input type="checkbox"/>	✓			
Glab E 7 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\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
Modified: 6/10/2013 3:43:57 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

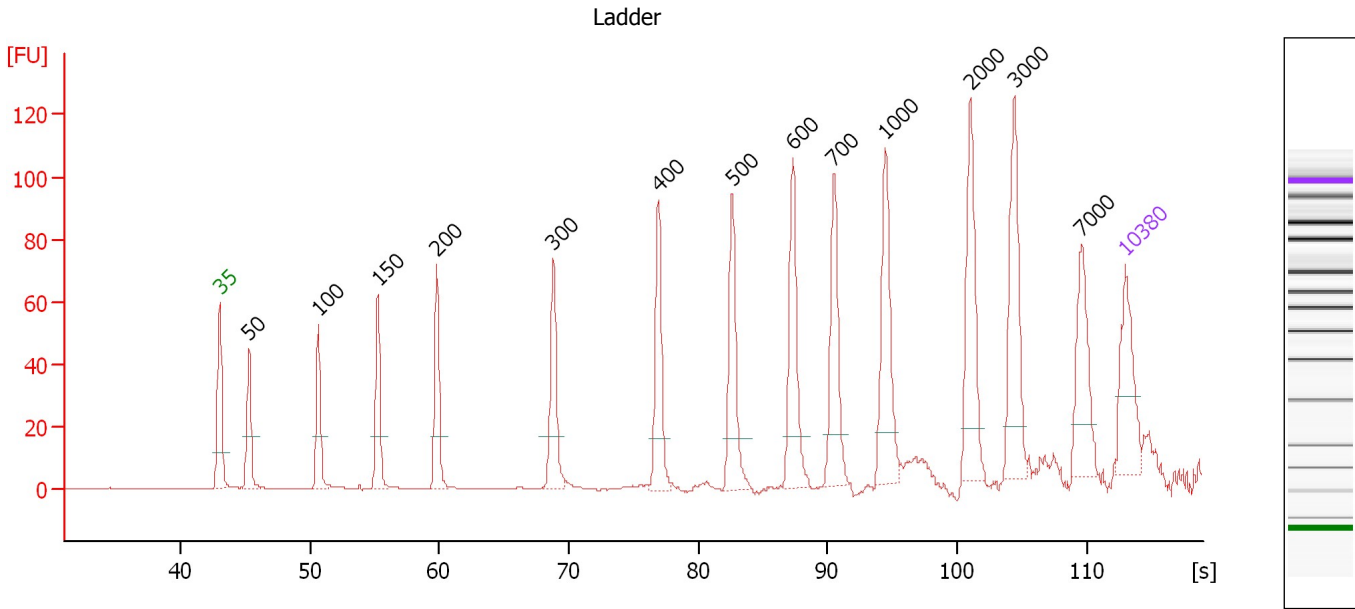
**Ladder**

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\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

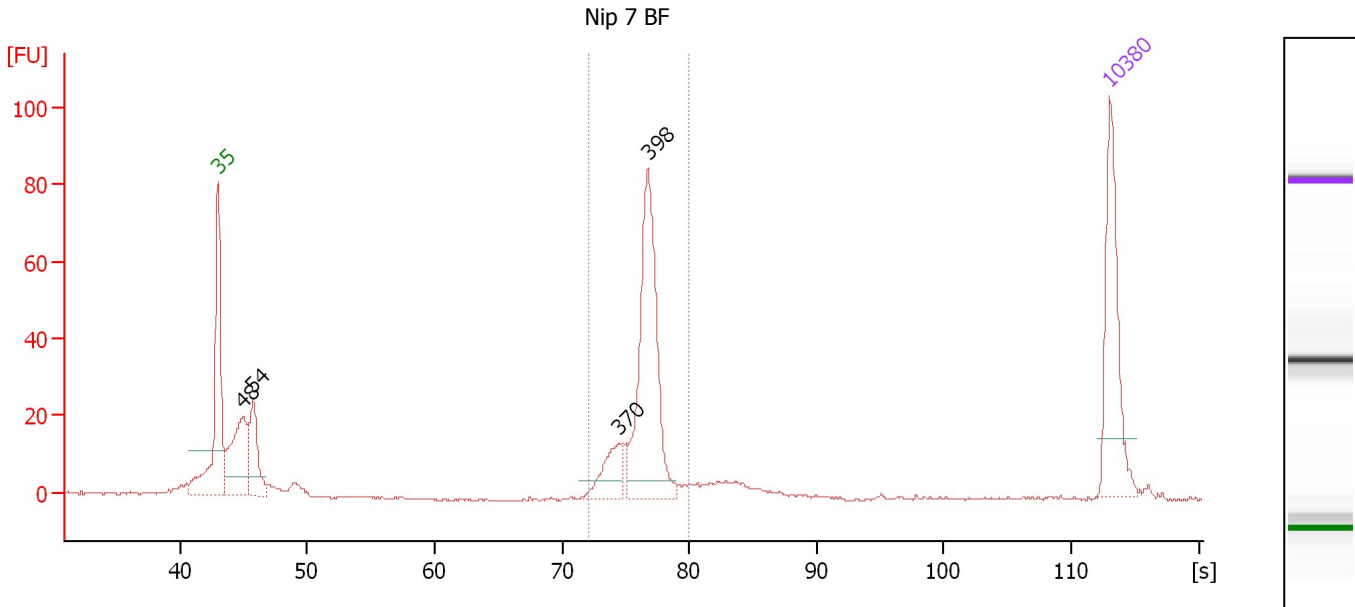
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Nip 7 BF**

Number of peaks found: 4                      Corr. Area 1: 219.7  
 Noise: 0.2

**Peak table for sample 1 : Nip 7 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	110.63	3,490.1	
3	54	65.71	1,834.1	
4	370	37.77	154.5	
5	398	188.35	716.2	
6	10,380	75.00	10.9	Upper Marker

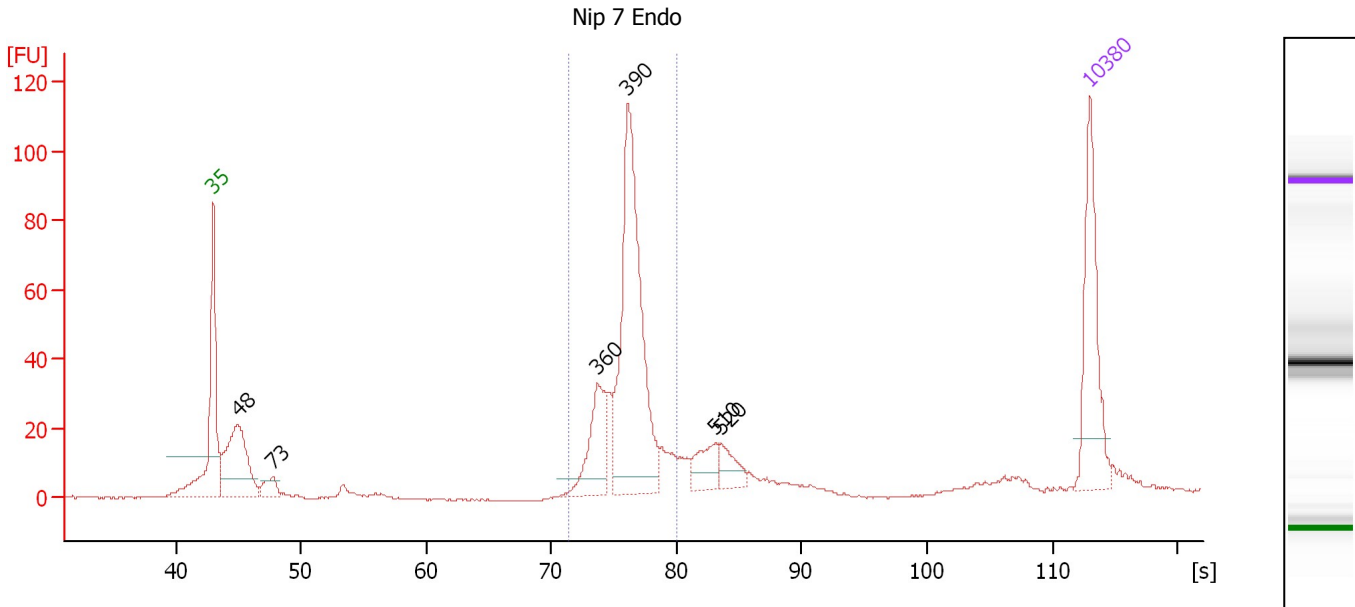
**Region table for sample 1 : Nip 7 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.05	80.04	395	871.5	226.73	219.7 58	4.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Nip 7 Endo**

Number of peaks found: 6                      Corr. Area 1: 385.0  
 Noise: 0.2

**Peak table for sample 2 : Nip 7 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	133.89	4,229.7	
3	73	20.54	425.5	
4	360	67.89	285.9	
5	390	256.71	997.3	
6	510	28.02	83.3	
7	520	21.76	63.4	
8	10,380	75.00	10.9	Upper Marker

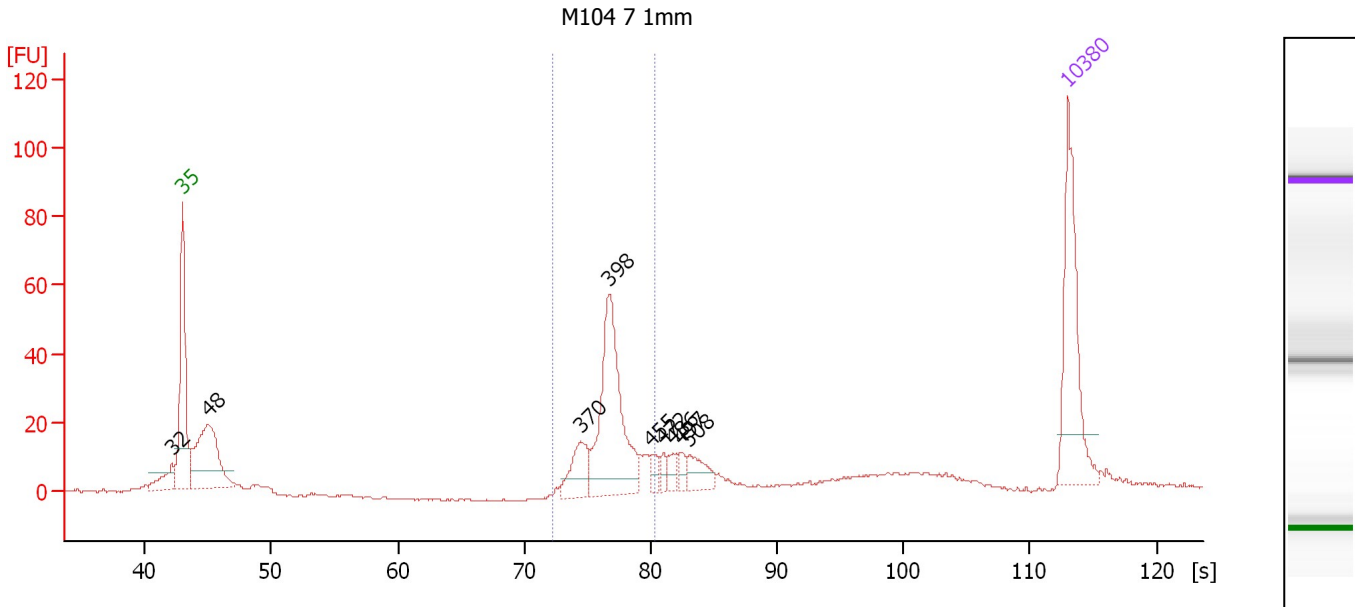
**Region table for sample 2 : Nip 7 Endo**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
71.32	80.08	391	1,385.9	356.87	385.0	61	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : M104 7 1mm**

Number of peaks found: 9      Corr. Area 1: 185.1  
 Noise: 0.3

**Peak table for sample 3 : M104 7 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	125.22	3,934.6	
4	370	33.98	139.3	
5	398	135.25	514.6	
6	455	9.11	30.3	
7	472	7.20	23.1	
8	486	8.22	25.6	
9	497	7.62	23.2	
10	508	19.80	59.1	
11	10,380	75.00	10.9	Upper Marker

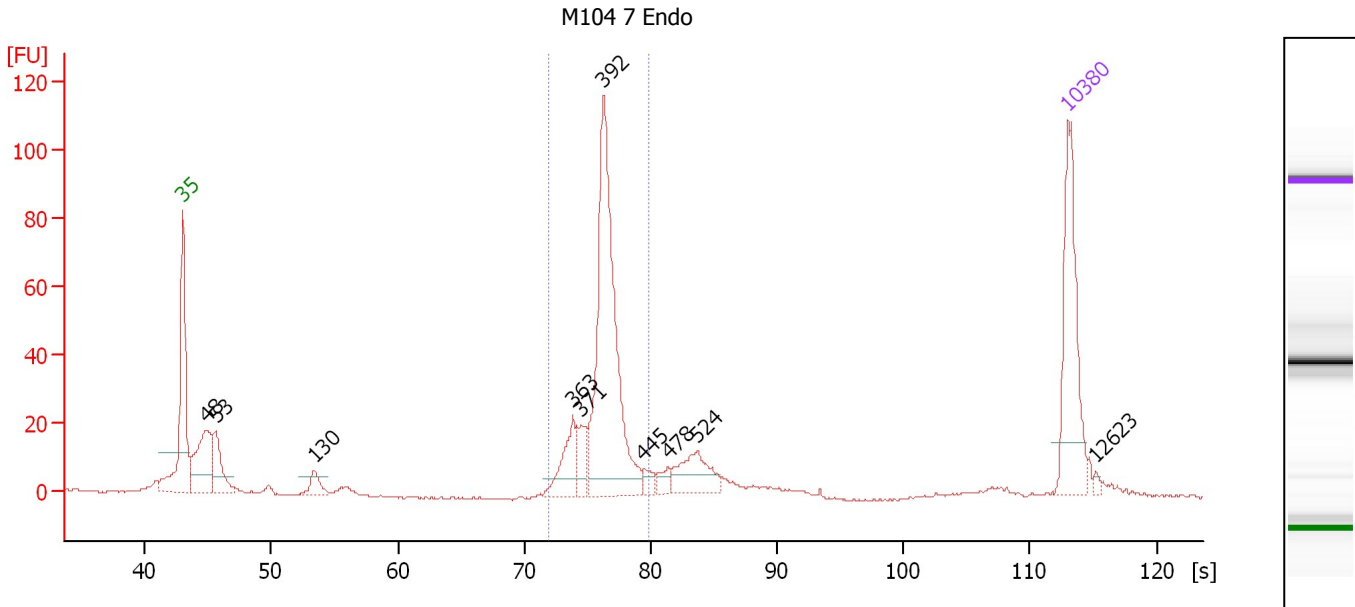
**Region table for sample 3 : M104 7 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.28	80.40	402	648.4	171.49	185.1 41	5.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : M104 7 Endo**

Number of peaks found: 10      Corr. Area 1: 309.1  
 Noise: 0.3

**Peak table for sample 4 : M104 7 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	84.39	2,685.8	
3	53	44.31	1,270.4	
4	130	16.90	197.0	
5	363	38.68	161.6	
6	371	21.62	88.3	
7	392	231.75	894.9	
8	445	7.57	25.8	
9	478	8.63	27.4	
10	524	36.77	106.4	
11	10,380	75.00	10.9	Upper Marker
12	12,623	0.00	0.0	

**Region table for sample 4 : M104 7 Endo**

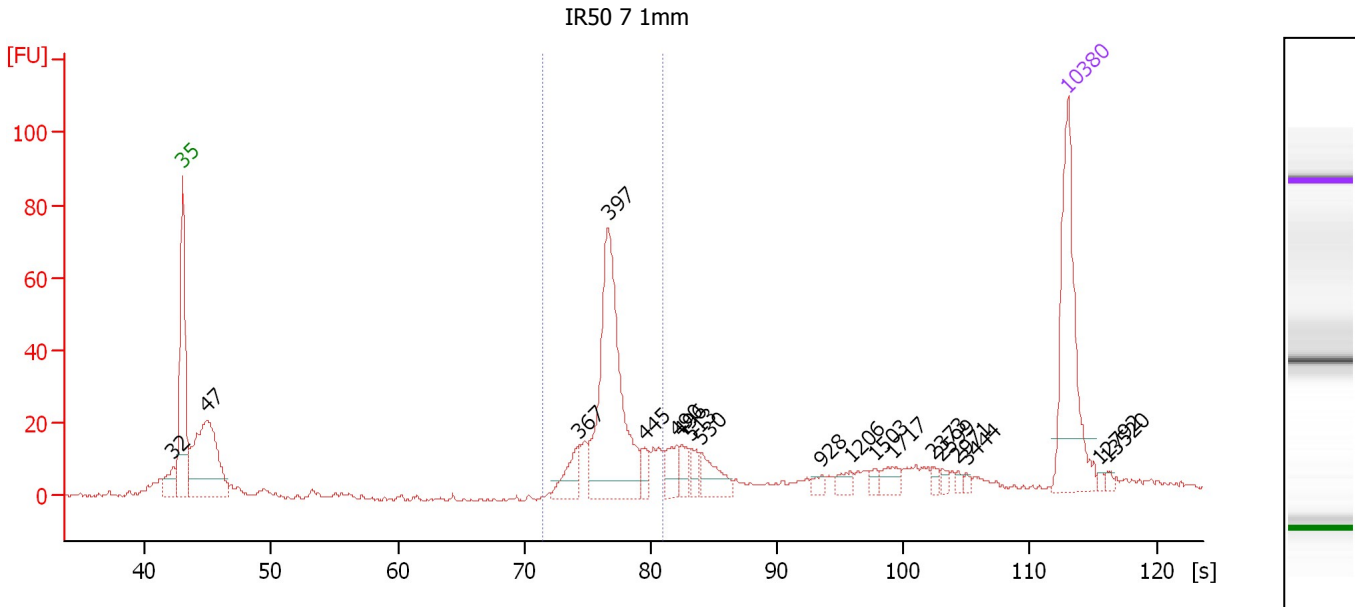
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.88	79.84	392	1,108.1	286.43	309.1 60	4.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : IR50 7 1mm**

Number of peaks found: 19      Corr. Area 1: 237.3  
 Noise: 0.4

**Peak table for sample 5 : IR50 7 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	47	135.30	4,316.6	
4	367	22.55	93.0	
5	397	163.71	625.5	
6	445	10.22	34.8	
7	490	15.52	48.0	
8	496	10.84	33.1	
9	513	9.81	29.0	
10	530	21.69	62.0	
11	928	4.47	7.3	
12	1,206	6.82	8.6	
13	1,503	3.50	3.5	
14	1,717	8.22	7.2	
15	2,373	3.04	1.9	
16	2,599	2.74	1.6	
17	2,971	2.07	1.1	
18	3,444	1.81	0.8	
19	10,380	75.00	10.9	Upper Marker
20	12,792	0.00	0.0	
21	13,520	0.00	0.0	

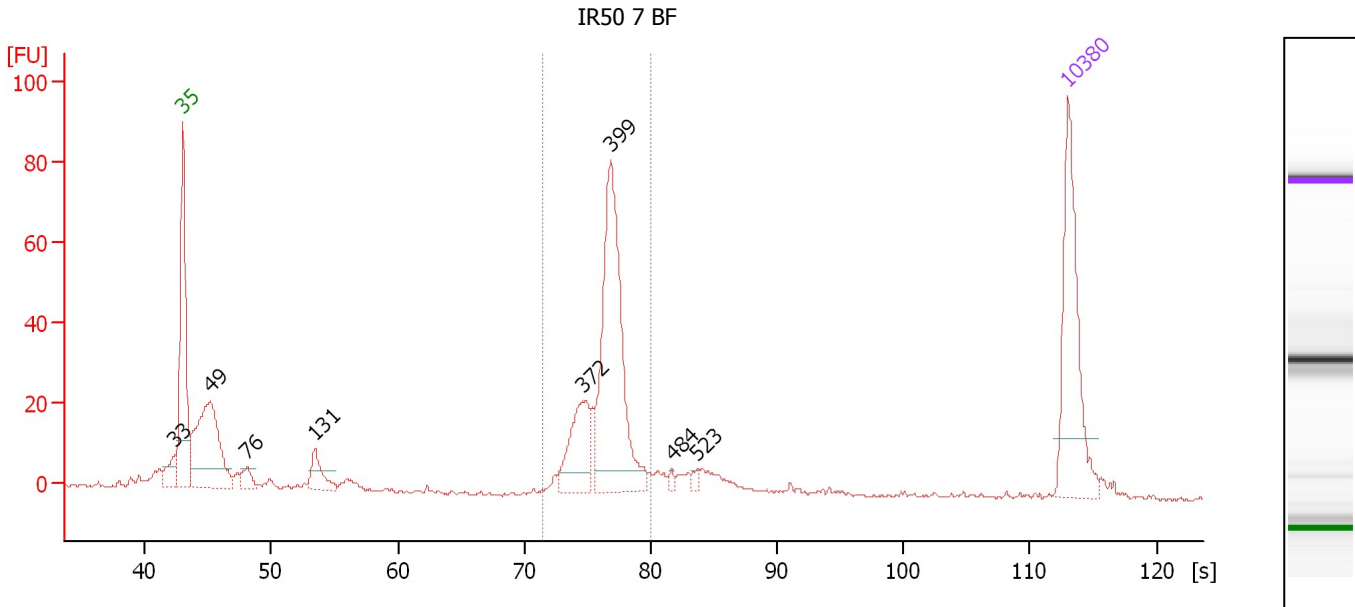
**Region table for sample 5 : IR50 7 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.48	80.89	403	773.9	205.09	237.3 42	6.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : IR50 7 BF**

Number of peaks found: 8                      Corr. Area 1: 262.3  
 Noise: 0.5

**Peak table for sample 6 : IR50 7 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	49	147.12	4,532.4	
4	76	13.47	267.5	
5	131	25.81	299.1	
6	372	53.86	219.5	
7	399	179.02	679.6	
8	484	2.92	9.1	
9	523	3.38	9.8	
10	10,380	75.00	10.9	Upper Marker

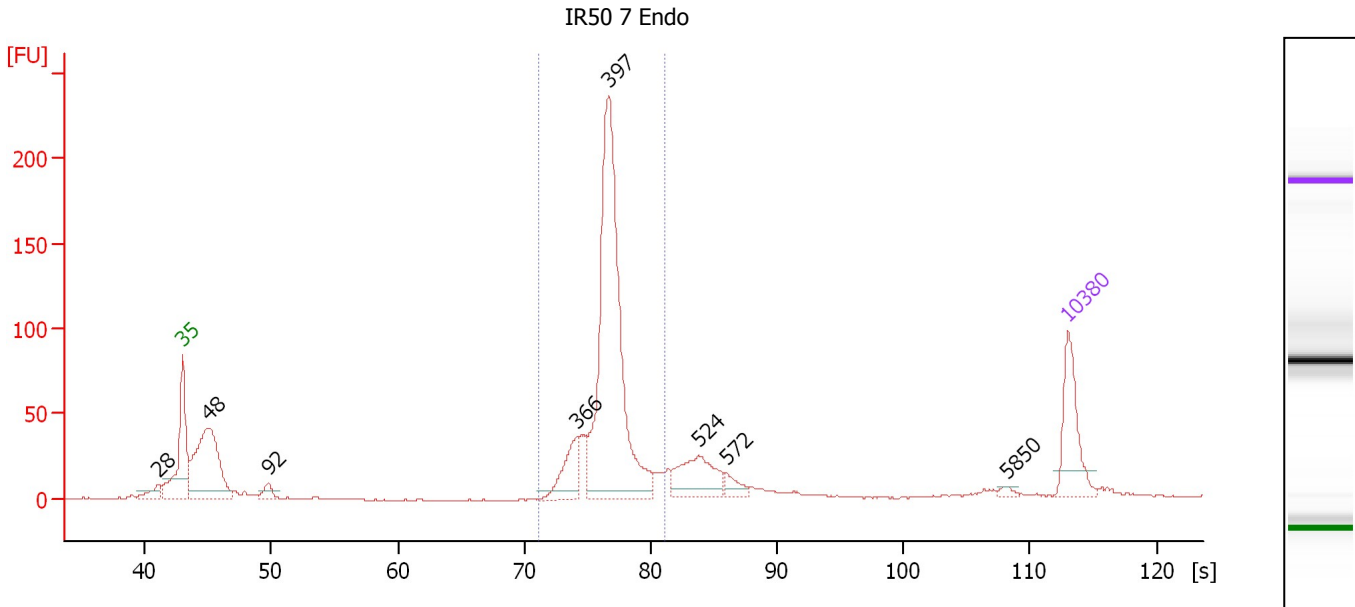
**Region table for sample 6 : IR50 7 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.48	80.01	395	938.8	244.35	262.3 53	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : IR50 7 Endo**

Number of peaks found: 8                      Corr. Area 1: 705.2  
 Noise: 0.4

**Peak table for sample 7 : IR50 7 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	297.17	9,362.2	
4	92	22.43	370.0	
5	366	70.98	294.0	
6	397	570.30	2,175.1	
7	524	93.29	269.6	
8	572	20.53	54.4	
9	5,850	4.71	1.2	
10	10,380	75.00	10.9	Upper Marker

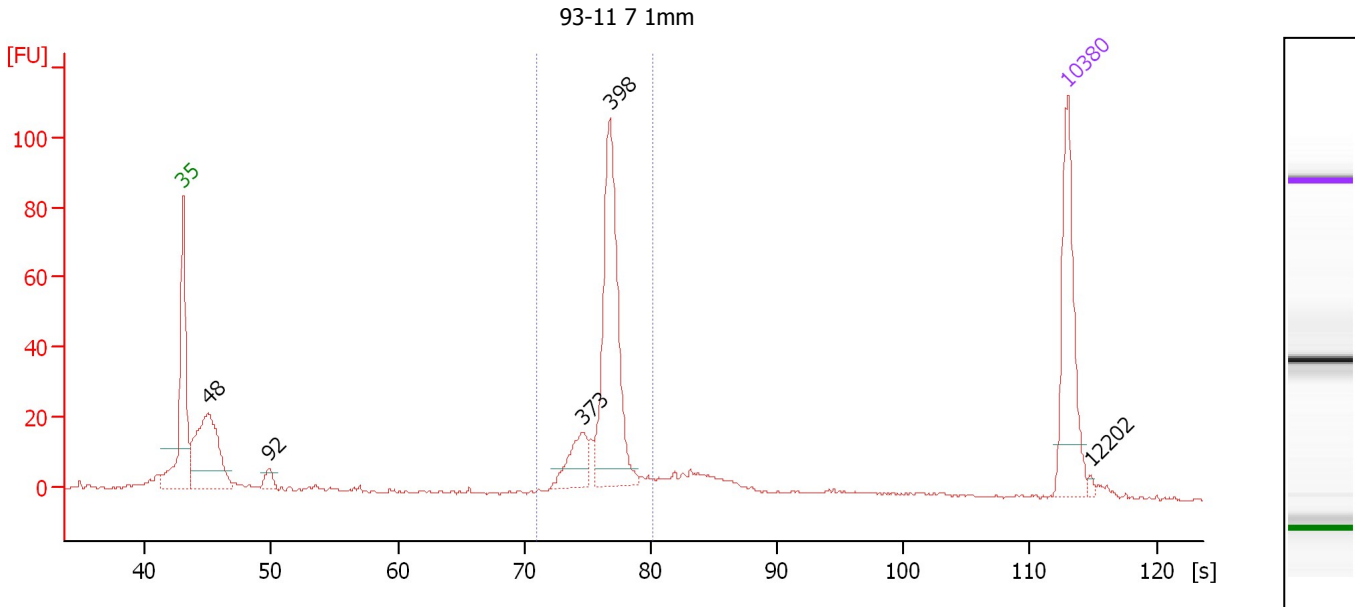
**Region table for sample 7 : IR50 7 Endo**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.10	81.08	398	2,642.2	692.94	705.2    57	5.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 93-11 7 1mm**

Number of peaks found: 5                      Corr. Area 1: 255.6  
 Noise: 0.3

**Peak table for sample 8 : 93-11 7 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	150.02	4,722.8	
3	92	13.10	215.7	
4	373	36.25	147.4	
5	398	179.95	684.4	
6	10,380	75.00	10.9	Upper Marker
7	12,202	0.00	0.0	

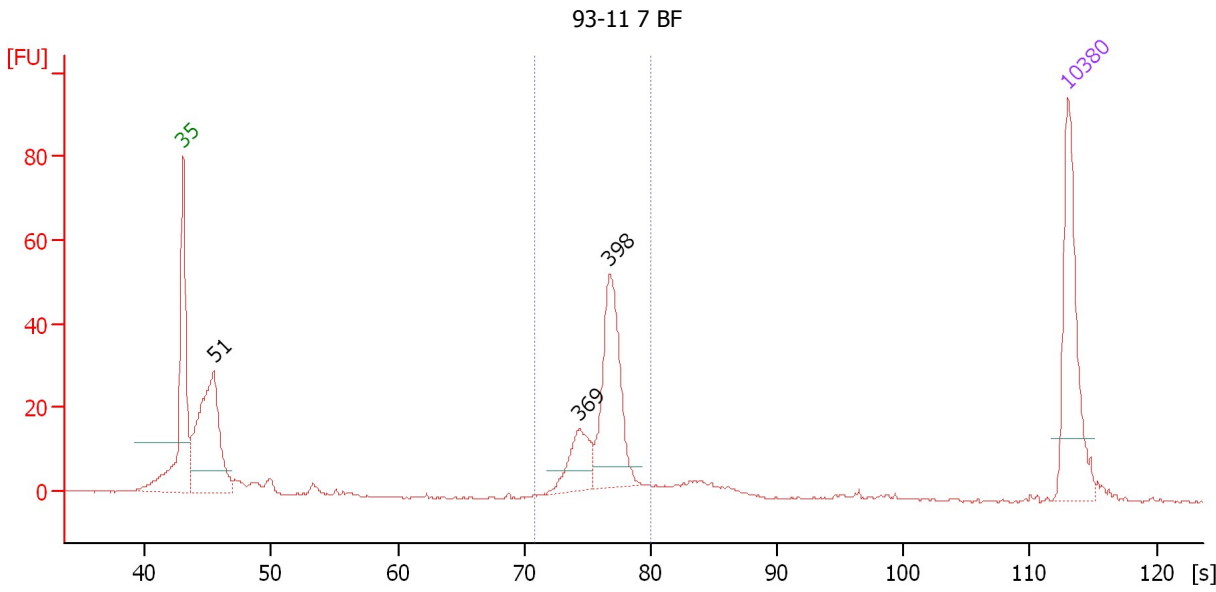
**Region table for sample 8 : 93-11 7 1mm**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.01	80.15	396	940.4	245.20	255.6 57	4.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 93-11 7 BF**

Number of peaks found: 3      Corr. Area 1: 167.5  
 Noise: 0.2

**Peak table for sample 9 : 93-11 7 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	185.68	5,473.9	
3	369	41.56	170.8	
4	398	111.35	423.6	
5	10,380	75.00	10.9	Upper Marker

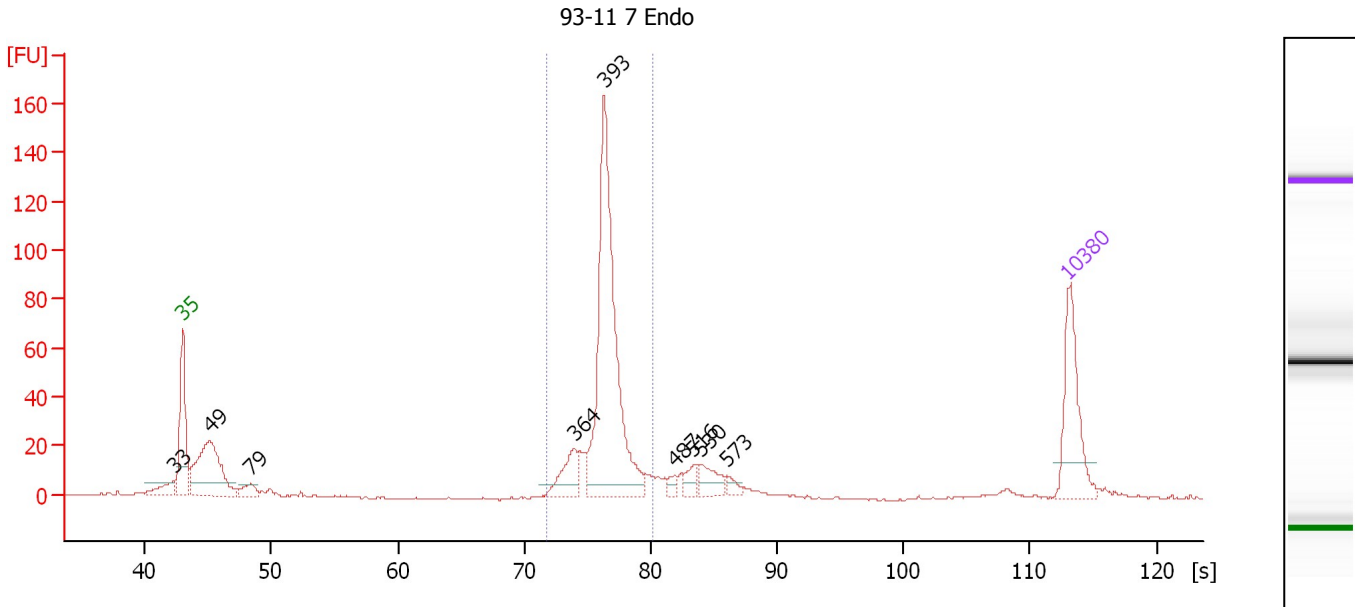
**Region table for sample 9 : 93-11 7 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
70.80	80.00	394	656.1	170.27	167.5 48	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 9                      Corr. Area 1: 393.1  
 Noise: 0.3

**Peak table for sample 10 : 93-11 7 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	49	175.07	5,417.9	
4	79	19.95	382.8	
5	364	44.02	183.4	
6	393	358.70	1,383.3	
7	487	7.60	23.6	
8	516	14.10	41.4	
9	530	25.45	72.8	
10	573	8.85	23.4	
11	10,380	75.00	10.9	Upper Marker

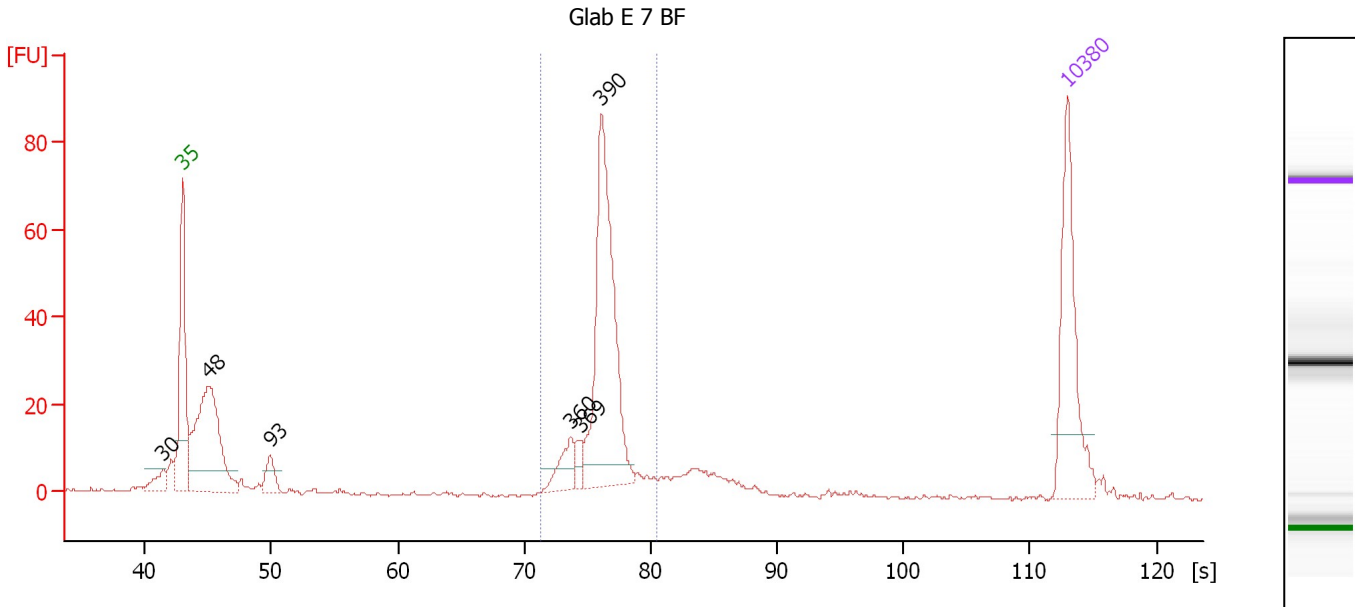
**Region table for sample 10 : 93-11 7 Endo**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
71.71	80.13	395	1,639.9	426.51	393.1 58	5.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Glab E 7 BF**

Number of peaks found: 6                      Corr. Area 1: 237.7  
 Noise: 0.3

**Peak table for sample 11 : Glab E 7 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	184.42	5,812.2	
4	93	21.37	347.2	
5	360	24.79	104.4	
6	369	10.62	43.6	
7	390	192.43	747.2	
8	10,380	75.00	10.9	Upper Marker

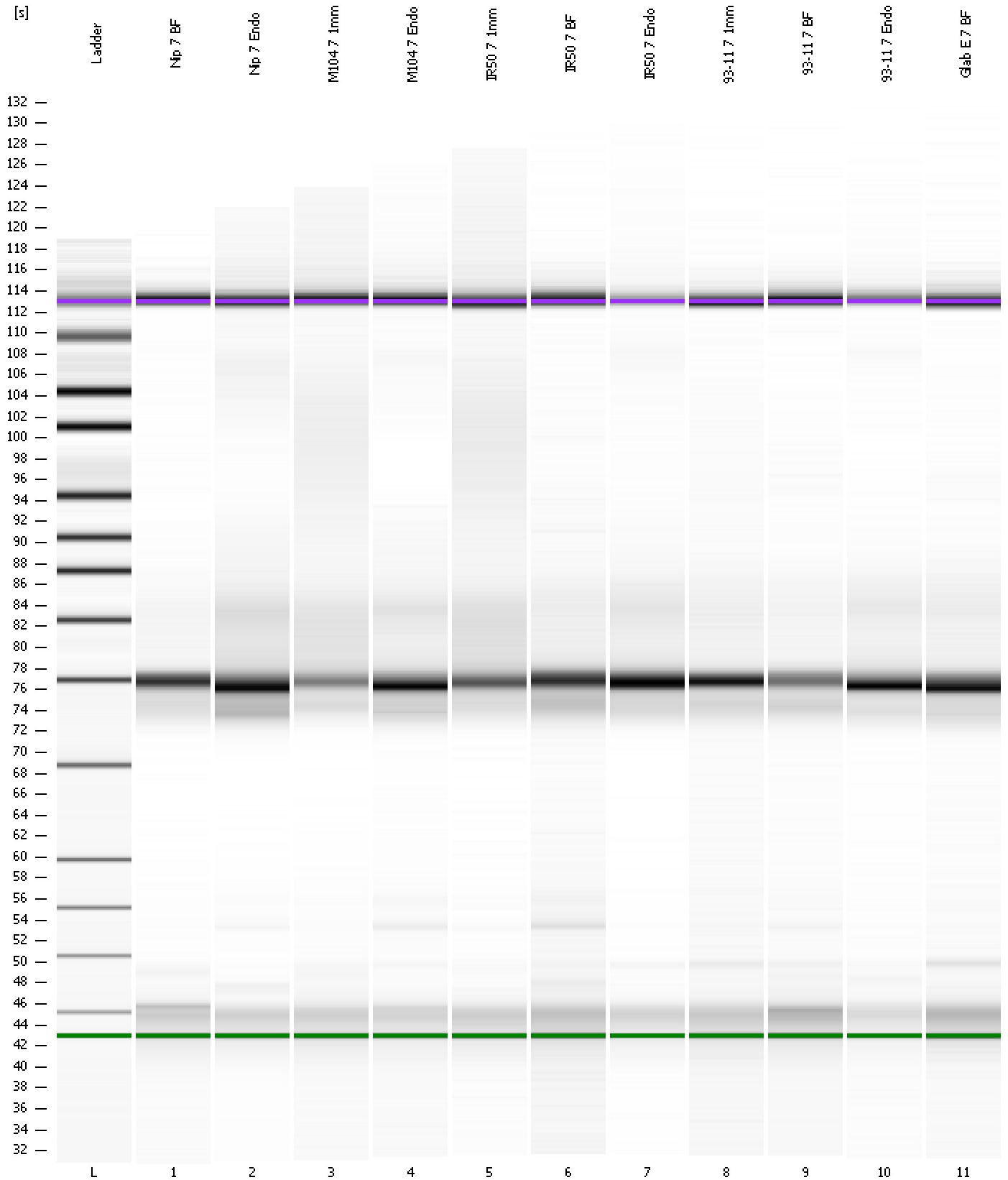
**Region table for sample 11 : Glab E 7 BF**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
71.24	80.56	392	964.0	249.09	237.7	54	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
Modified: 6/10/2013 3:43:57 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-10\2013-06-10\_007.xad

Created: 6/10/2013 3:02:00 PM  
 Modified: 6/10/2013 3:43:57 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		6/10/2013 3:42:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-10\2013-06-10_007.xad)		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/10/2013 3:02:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1