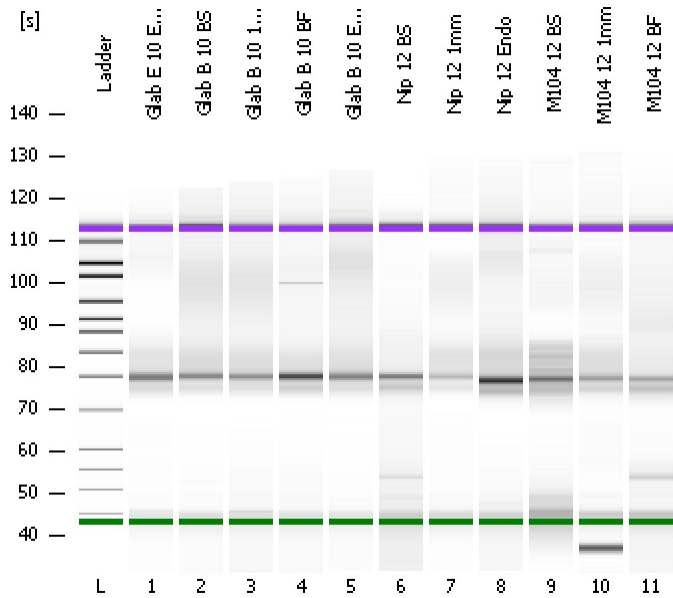


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
Modified: 6/11/2013 3:30:10 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

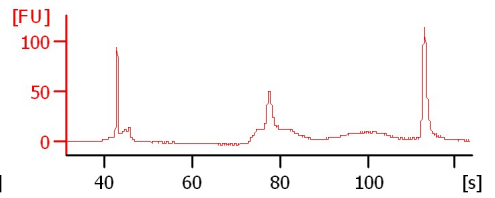
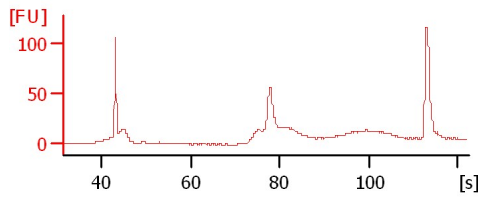
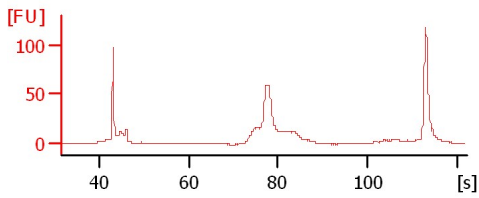
Chip Information:

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

Glab E 10 Endo

Glab B 10 BS

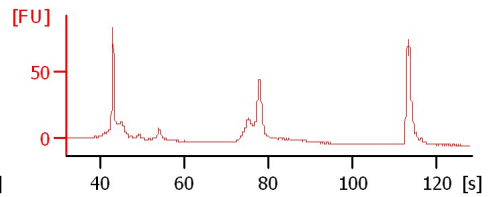
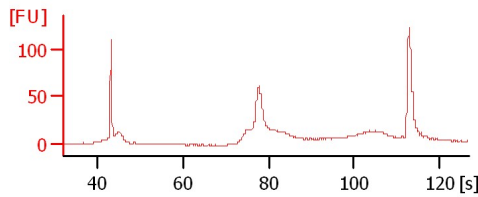
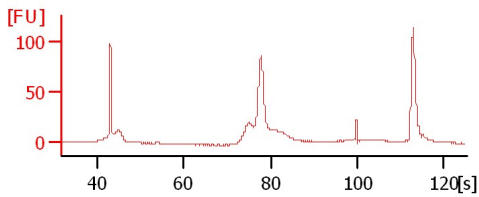
Glab B 10 1mm



Glab B 10 BF

Glab B 10 Endo

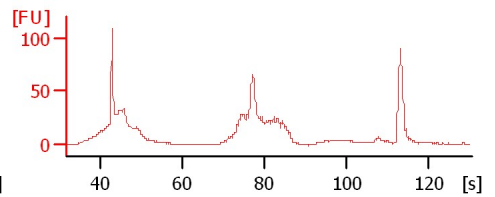
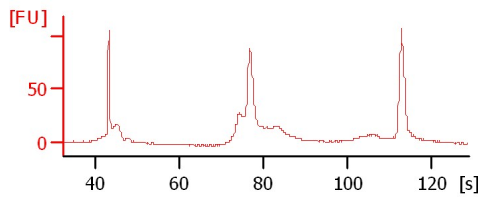
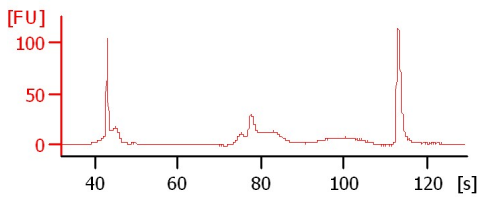
Nip 12 BS



Nip 12 1mm

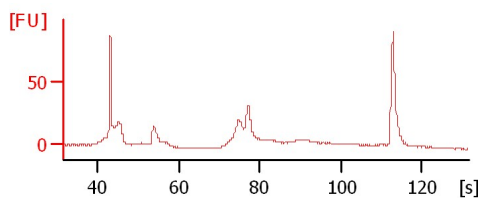
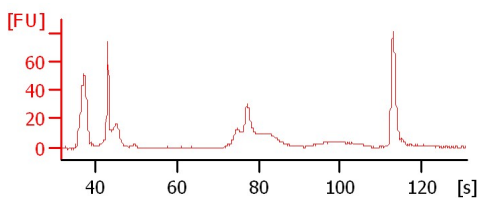
Nip 12 Endo

M104 12 BS



M104 12 1mm

M104 12 BF



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
Modified: 6/11/2013 3:30:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Glab E 10 Endo		<input type="checkbox"/>	✓			
Glab B 10 BS		<input type="checkbox"/>	✓			
Glab B 10 1mm		<input type="checkbox"/>	✓			
Glab B 10 BF		<input type="checkbox"/>	✓			
Glab B 10 Endo		<input type="checkbox"/>	✓			
Nip 12 BS		<input type="checkbox"/>	✓			
Nip 12 1mm		<input type="checkbox"/>	✓			
Nip 12 Endo		<input type="checkbox"/>	✓			
M104 12 BS		<input type="checkbox"/>	✓			
M104 12 1mm		<input type="checkbox"/>	✓			
M104 12 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_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 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

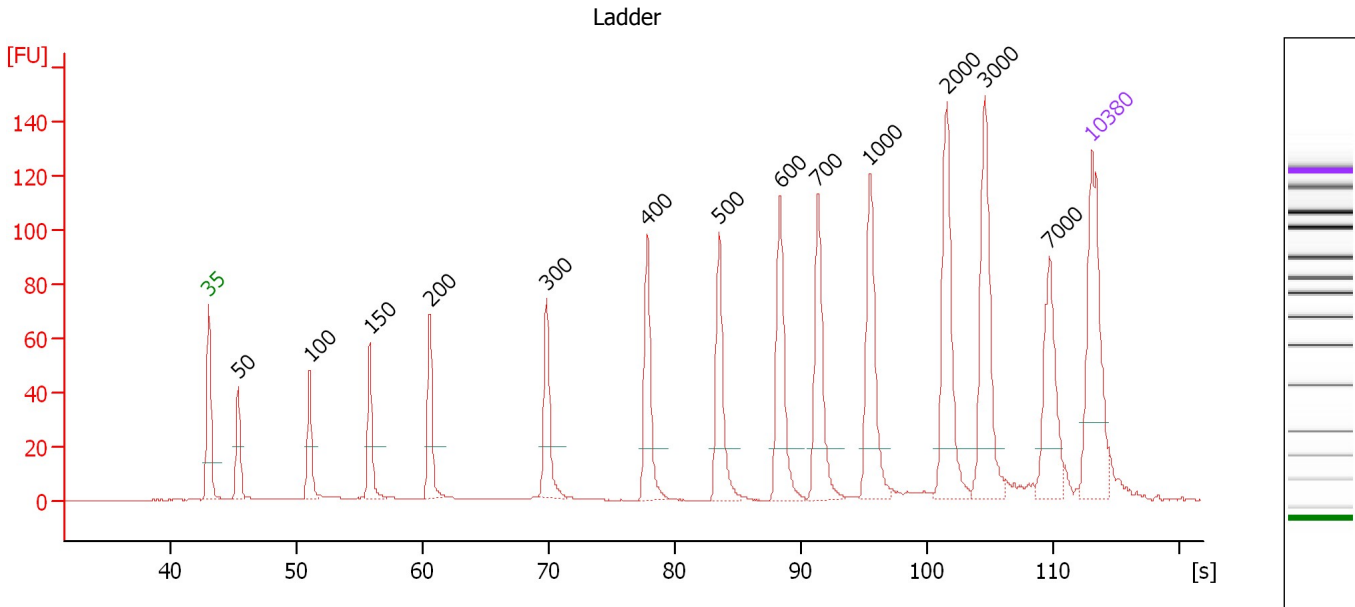
Ladder

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_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

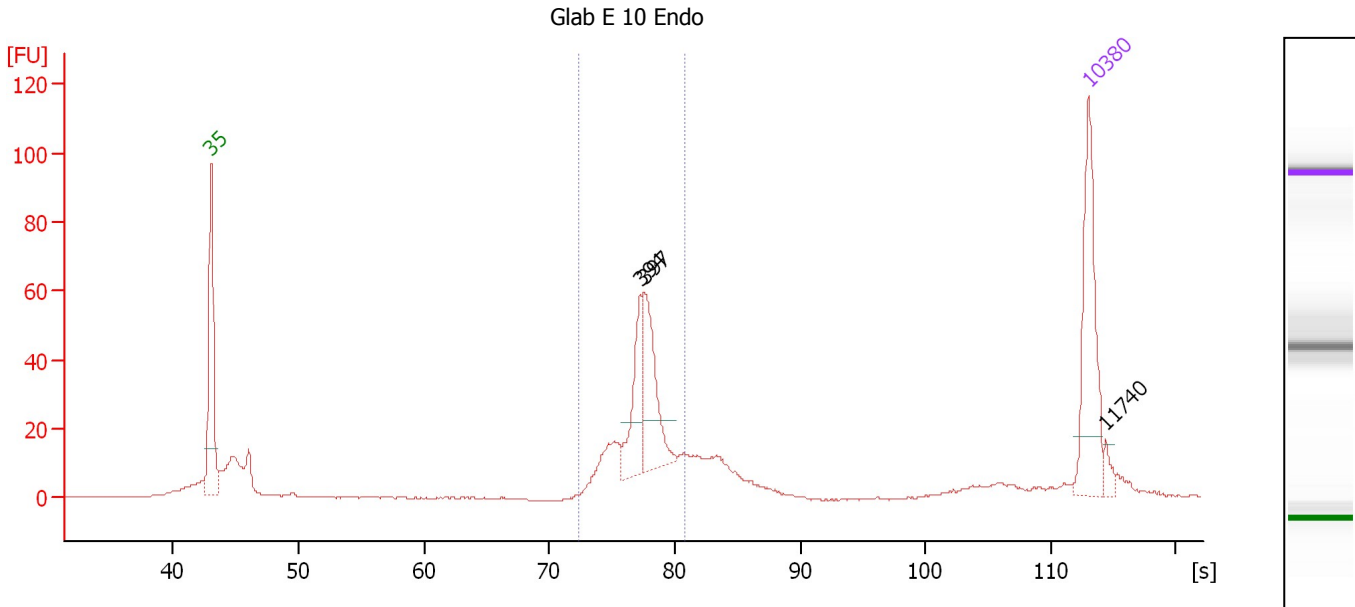
Peak table for Ladder

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_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Glab E 10 Endo

Height Threshold [FU] : 15

Overall Results for sample 1 : Glab E 10 Endo

Number of peaks found: 3 Corr. Area 1: 243.0
 Noise: 0.2

Peak table for sample 1 : Glab E 10 Endo

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	58.09	223.7	
3	397	75.77	289.0	
4	10,380	75.00	10.9	Upper Marker
5	11,740	0.00	0.0	

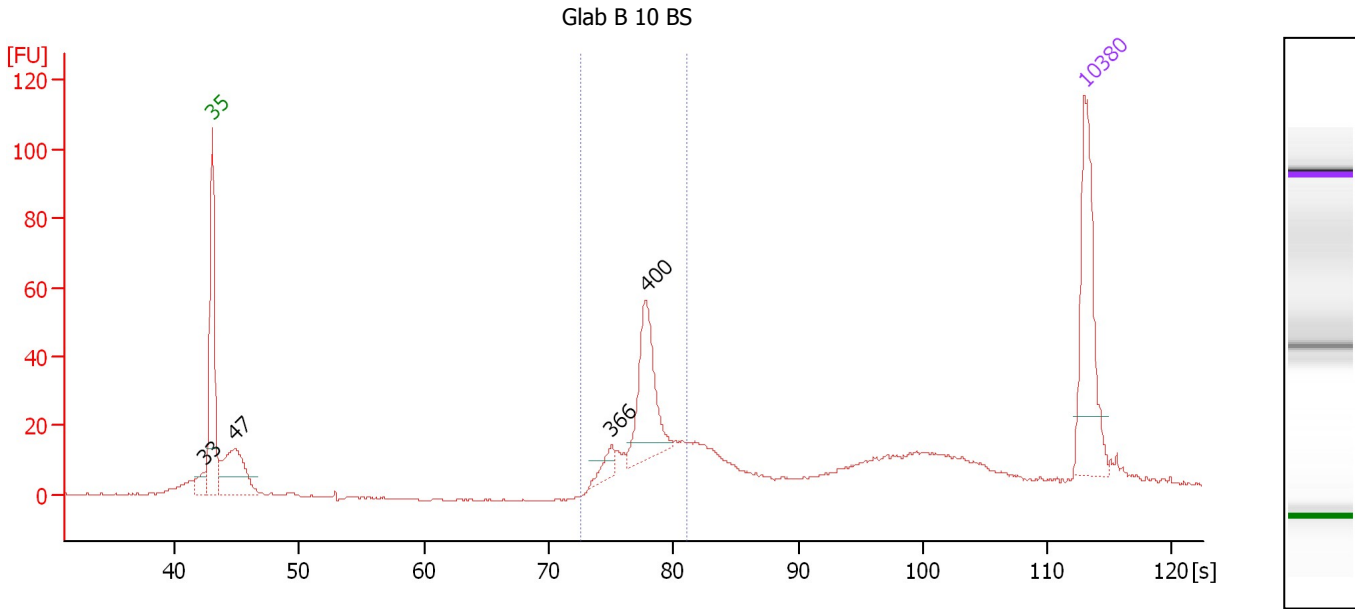
Region table for sample 1 : Glab E 10 Endo

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % Total	Size distribution in CV [%]	Color
72.27	80.87	396	871.1	227.04	243.0 54	6.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Glab B 10 BS

Number of peaks found: 4 Corr. Area 1: 194.2
 Noise: 0.2

Peak table for sample 2 : Glab B 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	47	85.29	2,757.4	
4	366	13.80	57.2	
5	400	82.69	312.9	
6	10,380	75.00	10.9	Upper Marker

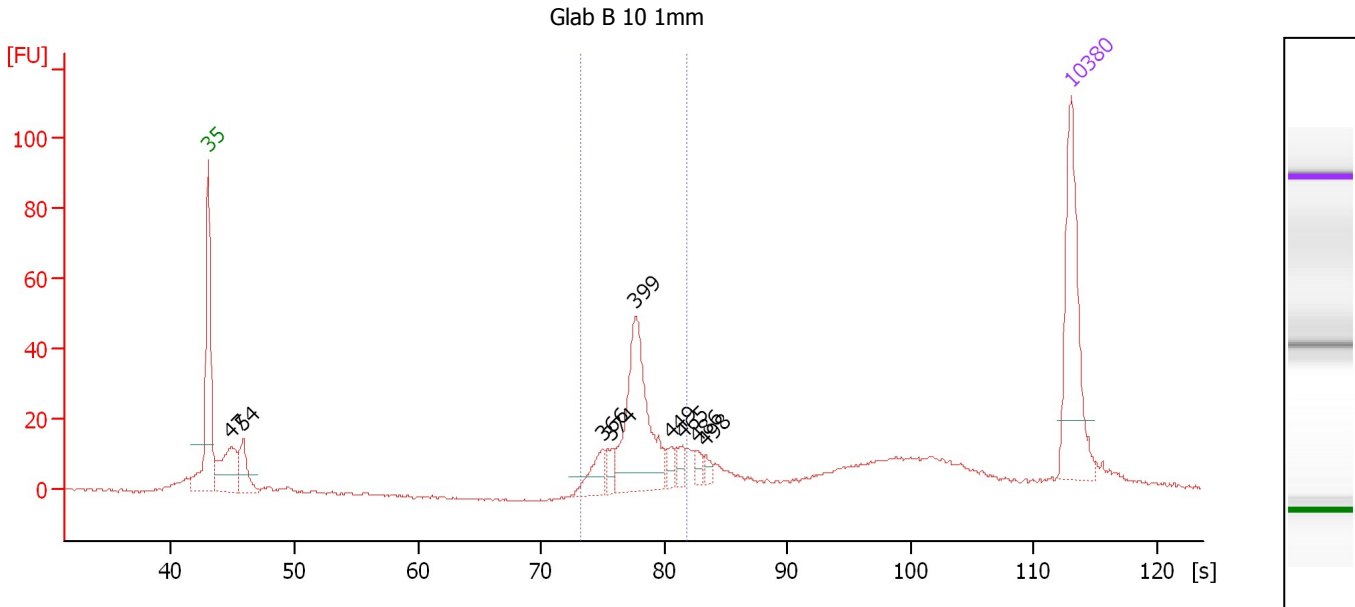
Region table for sample 2 : Glab B 10 BS

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.51	81.15	403	656.1	174.05	194.2 38	6.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Glab B 10 1mm

Number of peaks found: 9 Corr. Area 1: 187.6
 Noise: 0.2

Peak table for sample 3 : Glab B 10 1mm

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	63.10	2,046.1	
3	54	33.88	944.7	
4	366	23.53	97.5	
5	374	10.36	42.0	
6	399	121.85	462.9	
7	449	8.54	28.8	
8	465	10.03	32.7	
9	486	7.21	22.5	
10	498	5.84	17.8	
11	10,380	75.00	10.9	Upper Marker

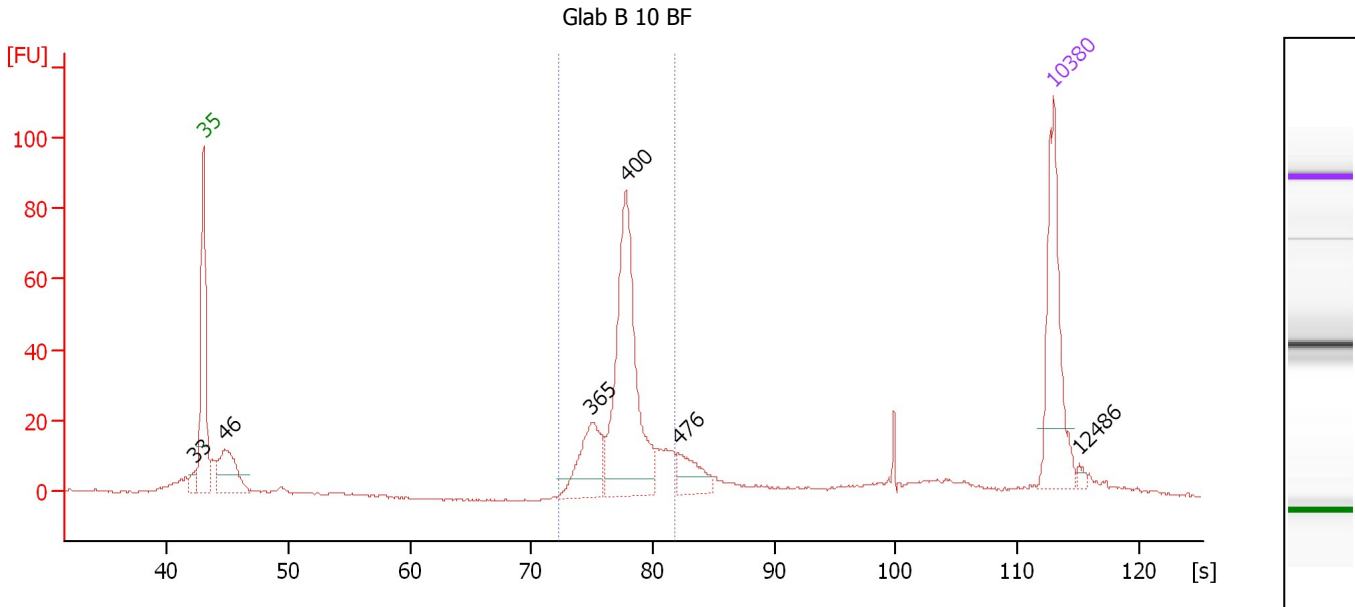
Region table for sample 3 : Glab B 10 1mm

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
73.16	81.91	406	630.6	168.06	187.6	43	7.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Glab B 10 BF

Number of peaks found: 6 Corr. Area 1: 296.0
 Noise: 0.3

Peak table for sample 4 : Glab B 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	46	67.36	2,203.1	
4	365	58.61	243.4	
5	400	192.19	727.6	
6	476	28.57	91.0	
7	10,380	75.00	10.9	Upper Marker
8	12,486	0.00	0.0	

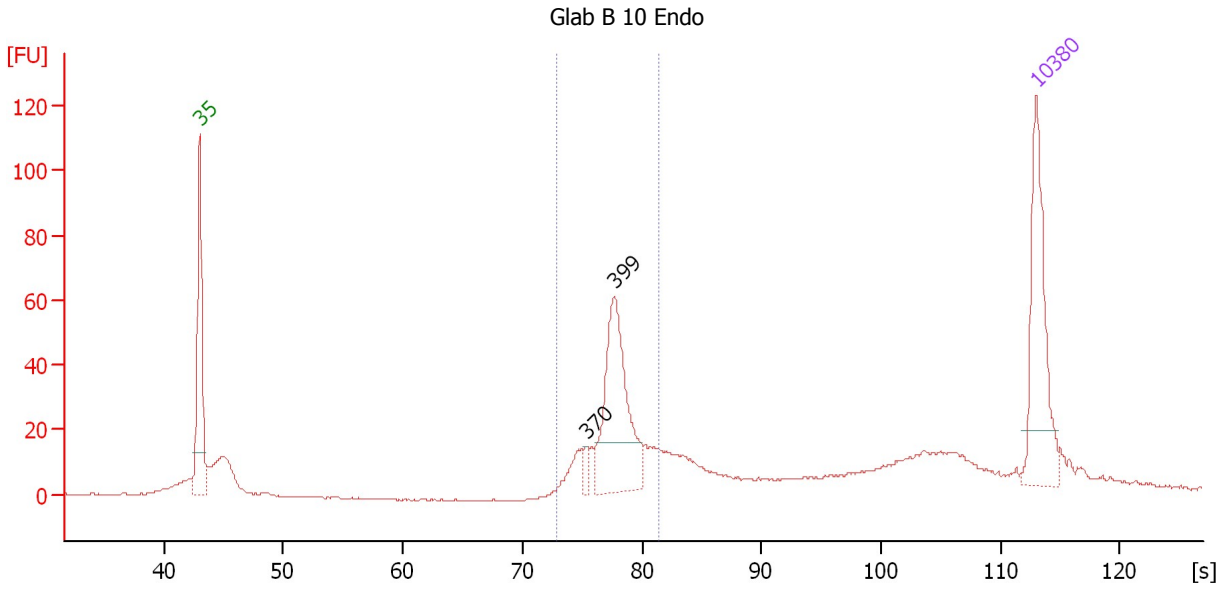
Region table for sample 4 : Glab B 10 BF

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.19	81.89	400	1,018.4	268.11	296.0 58	6.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Glab B 10 Endo

Height Threshold [FU] : 15

Overall Results for sample 5 : Glab B 10 Endo

Number of peaks found: 2 Corr. Area 1: 238.2
 Noise: 0.2

Peak table for sample 5 : Glab B 10 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	370	9.60	39.3	
3	399	131.61	500.1	
4	10,380	75.00	10.9	Upper Marker

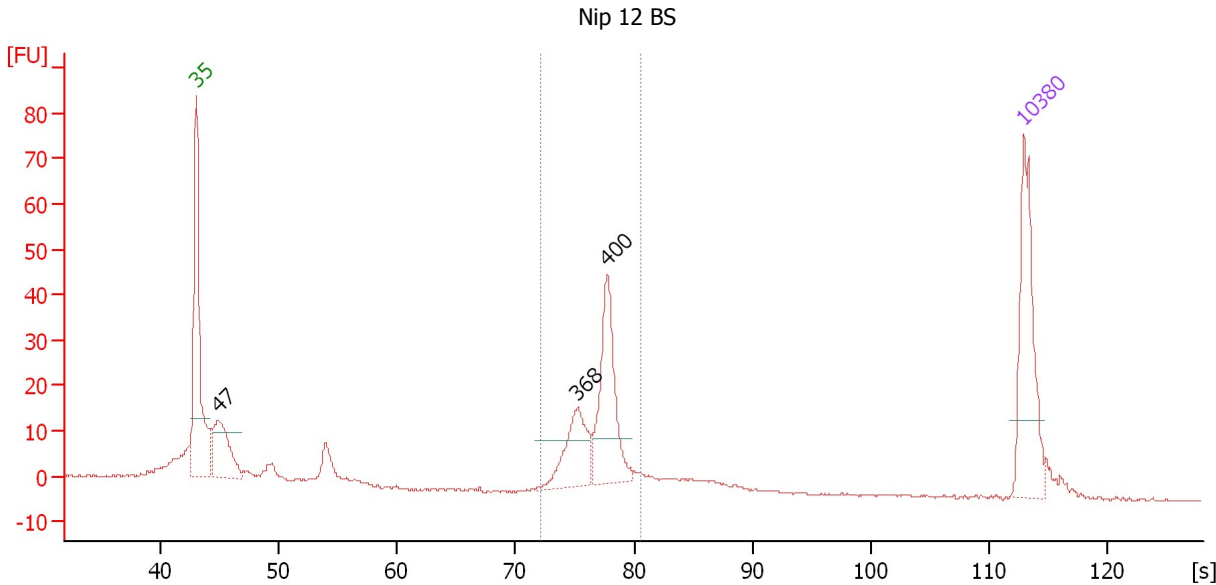
Region table for sample 5 : Glab B 10 Endo

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.81	81.49	403	673.8	178.30	238.2 42	6.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : Nip 12 BS

Height Threshold [FU] : 10

Overall Results for sample 6 : Nip 12 BS

Number of peaks found: 3 Corr. Area 1: 149.4
 Noise: 0.2

Peak table for sample 6 : Nip 12 BS

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	80.66	2,604.2	
3	368	61.06	251.5	
4	400	99.39	376.9	
5	10,380	75.00	10.9	Upper Marker

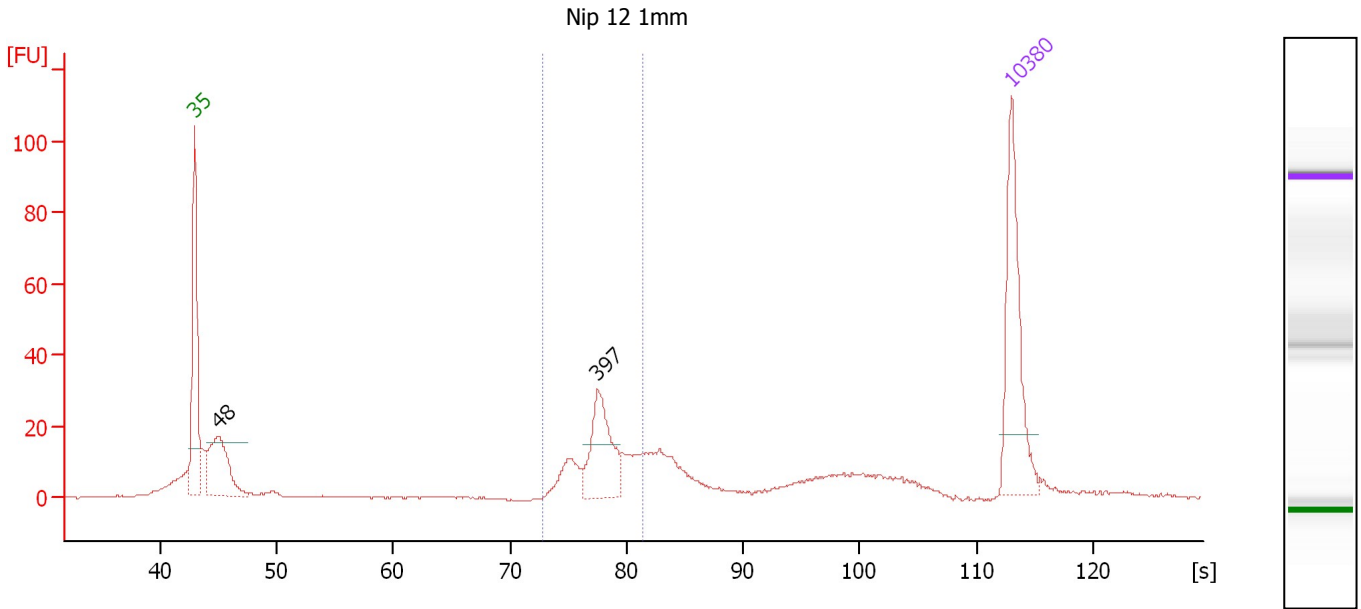
Region table for sample 6 : Nip 12 BS

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.06	80.67	391	667.2	171.60	149.4 47	5.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Nip 12 1mm

Height Threshold [FU] : 15

Overall Results for sample 7 : Nip 12 1mm

Number of peaks found: 2 Corr. Area 1: 137.5
 Noise: 0.2

Peak table for sample 7 : Nip 12 1mm

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	88.79	2,804.0	
3	397	64.58	246.5	
4	10,380	75.00	10.9	Upper Marker

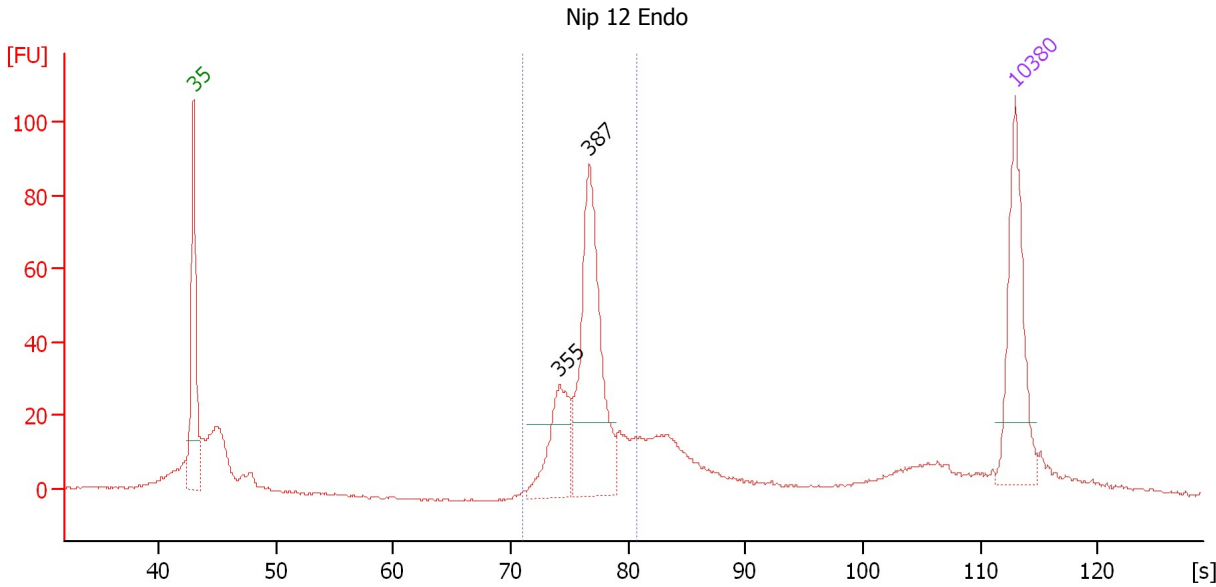
Region table for sample 7 : Nip 12 1mm

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.77	81.50	406	426.2	113.54	137.5 32	7.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : Nip 12 Endo

Height Threshold [FU] : 20

Overall Results for sample 8 : Nip 12 Endo

Number of peaks found: 2 Corr. Area 1: 348.2
 Noise: 0.3

Peak table for sample 8 : Nip 12 Endo

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	355	68.89	294.3	
3	387	179.73	704.3	
4	10,380	75.00	10.9	Upper Marker

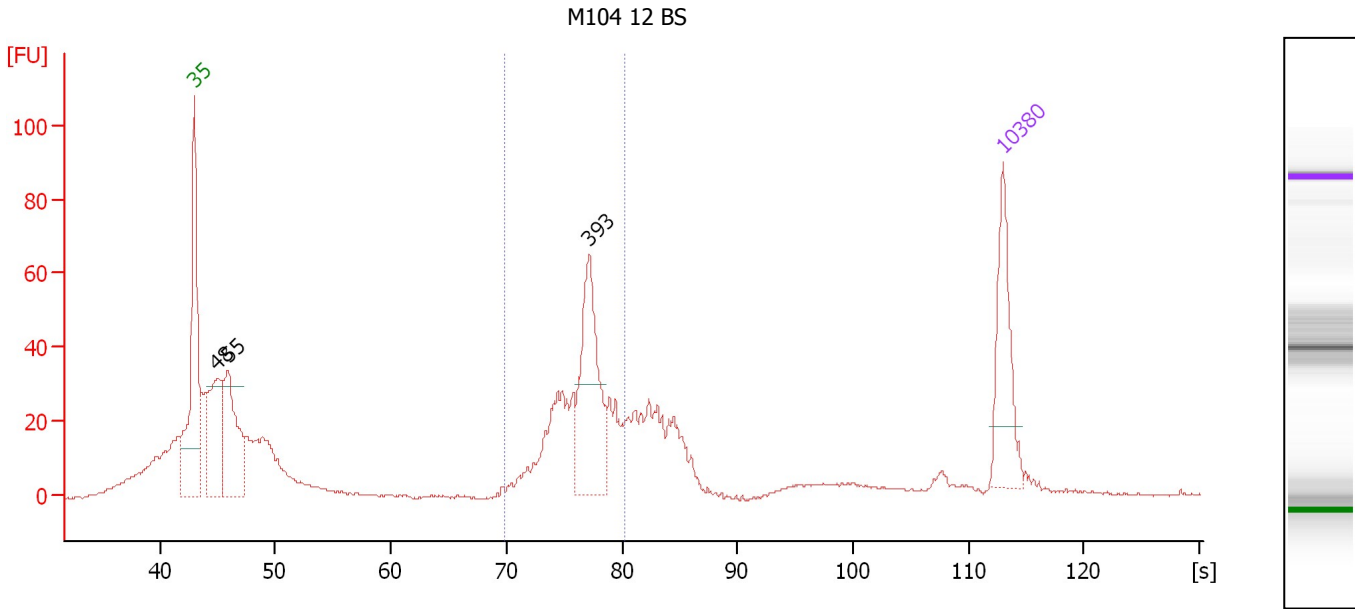
Region table for sample 8 : Nip 12 Endo

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
70.97	80.83	386	1,073.5	272.66	348.2 48	6.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : M104 12 BS

Height Threshold [FU] : 30

Overall Results for sample 9 : M104 12 BS

Number of peaks found: 3 Corr. Area 1: 314.4
 Noise: 0.3

Peak table for sample 9 : M104 12 BS

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	164.31	5,208.0	
3	55	158.23	4,377.5	
4	393	158.09	609.8	
5	10,380	75.00	10.9	Upper Marker

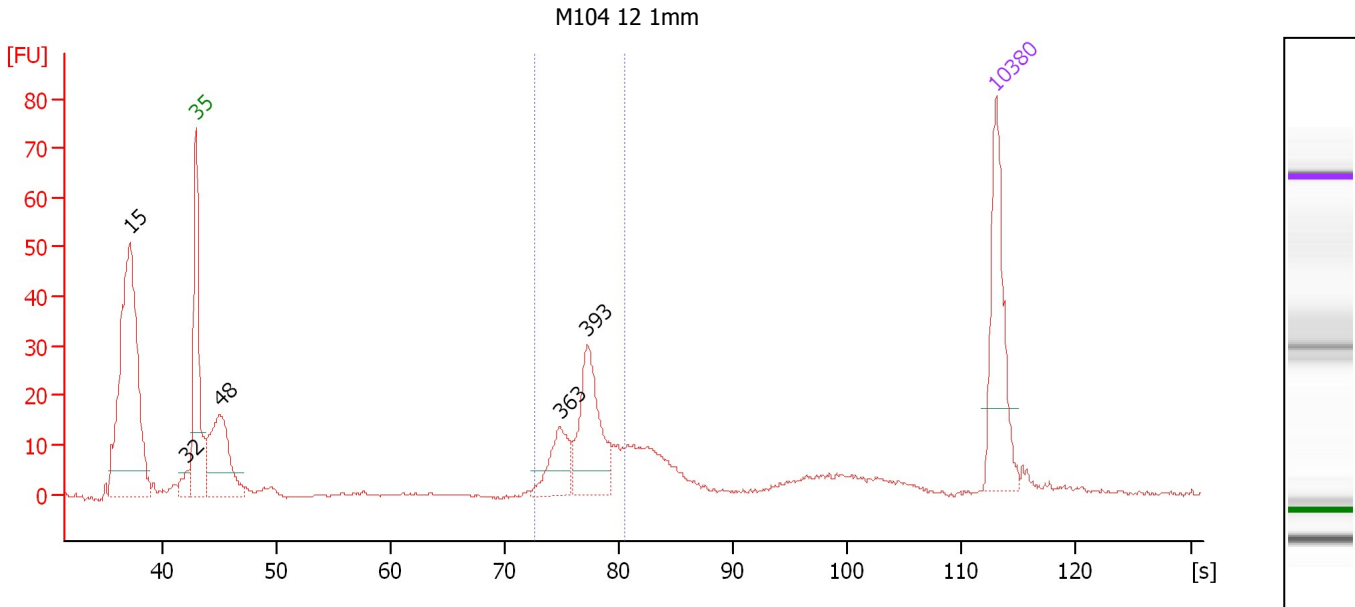
Region table for sample 9 : M104 12 BS

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
69.82	80.17	383	1,365.6	344.09	314.4 30	7.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : M104 12 1mm

Number of peaks found: 5 Corr. Area 1: 134.6
 Noise: 0.2

Peak table for sample 10 : M104 12 1mm

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	15	0.00	0.0	
2	32	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	48	126.43	3,971.1	
5	363	43.83	182.8	
6	393	95.72	369.3	
7	10,380	75.00	10.9	Upper Marker

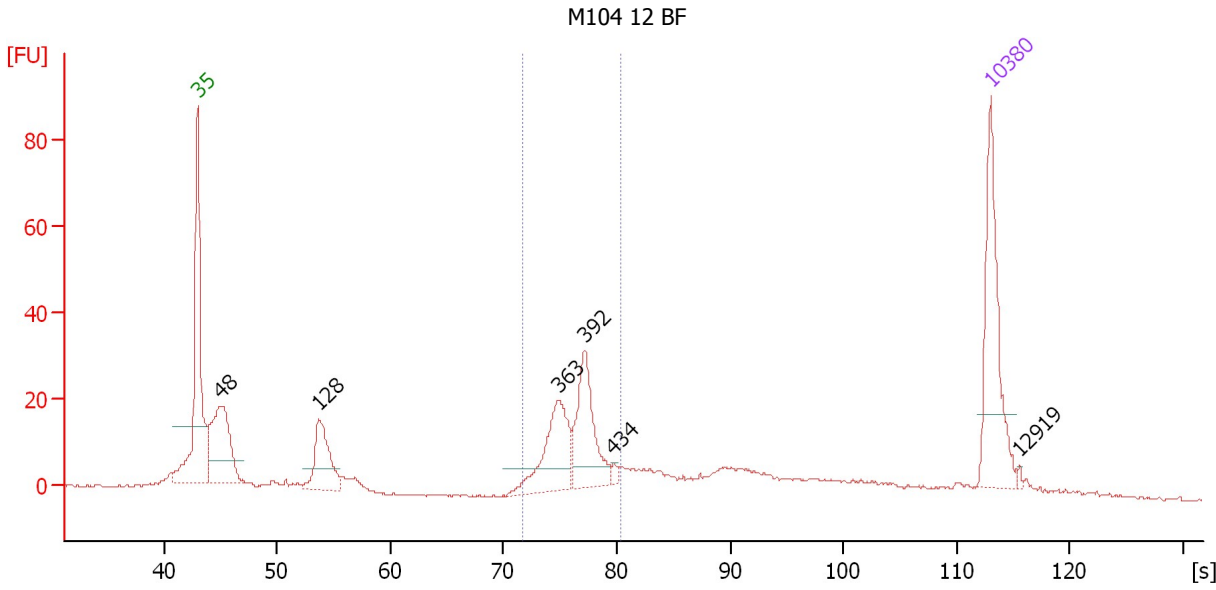
Region table for sample 10 : M104 12 1mm

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
72.60	80.50	392	615.5	158.61	134.6 22	6.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : M104 12 BF

Number of peaks found: 6 Corr. Area 1: 154.0
 Noise: 0.2

Peak table for sample 11 : M104 12 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	115.58	3,644.4	
3	128	69.84	824.3	
4	363	76.76	320.2	
5	392	75.36	291.1	
6	434	3.64	12.7	
7	10,380	75.00	10.9	Upper Marker
8	12,919	0.00	0.0	

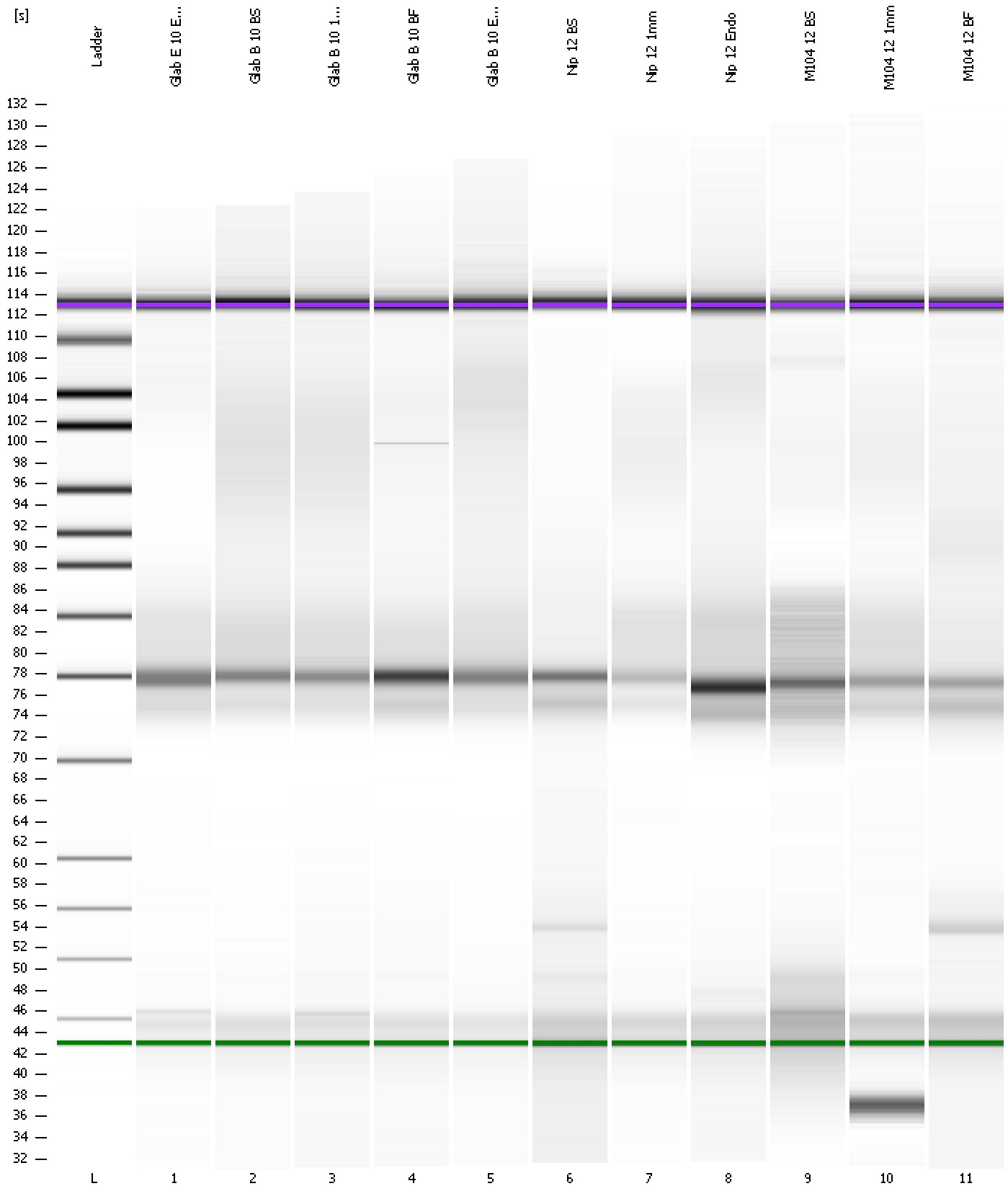
Region table for sample 11 : M104 12 BF

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
71.64	80.27	381	660.2	165.60	154.0	32	6.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
Modified: 6/11/2013 3:30:10 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-11\2013-06-11_008.xad

Created: 6/11/2013 2:47:40 PM
 Modified: 6/11/2013 3:30:10 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 3:28:07 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_008.xad)		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/11/2013 2:47:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1