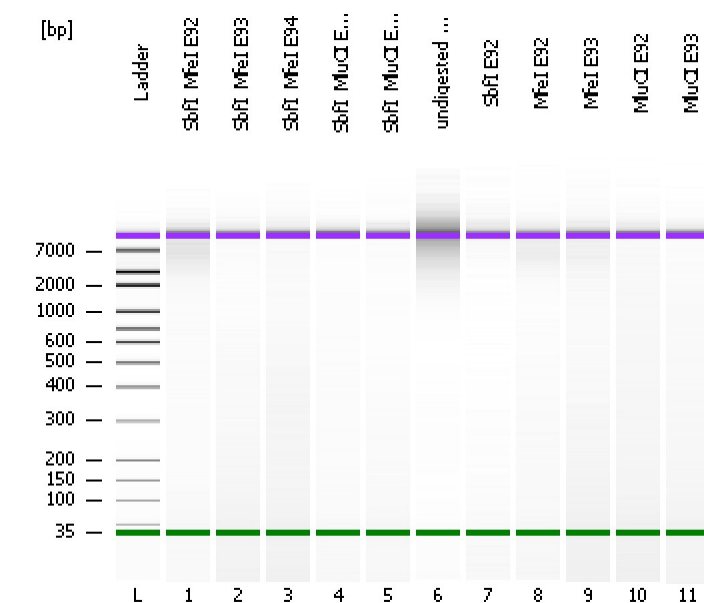


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
Modified: 4/7/2014 2:28:17 PM

Electrophoresis File Run Summary



Instrument Information:

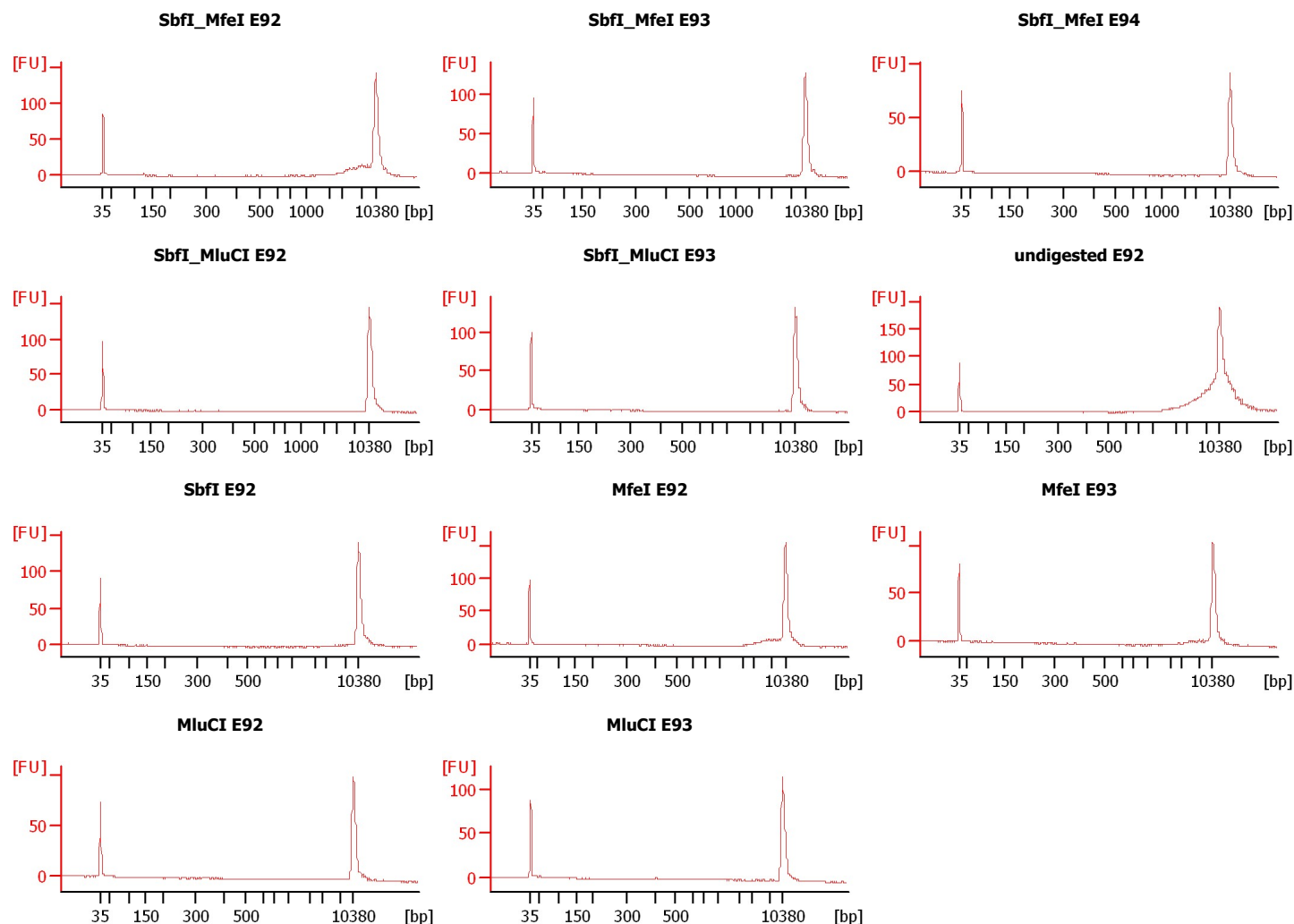
Instrument Name: DE72901330
Serial#: DE72901330
Firmware: C.01.069
Type: G2939A

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 #: 1349
Reagent Kit Lot #: 1349
Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
Modified: 4/7/2014 2:28:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SbfI_MfeI E92		<input checked="" type="checkbox"/>	✓			
SbfI_MfeI E93		<input checked="" type="checkbox"/>	✓			
SbfI_MfeI E94		<input checked="" type="checkbox"/>	✓			
SbfI_MluCI E92		<input checked="" type="checkbox"/>	✓			
SbfI_MluCI E93		<input checked="" type="checkbox"/>	✓			
undigested E92		<input type="checkbox"/>	✓			
SbfI E92		<input checked="" type="checkbox"/>	✓			
MfeI E92		<input checked="" type="checkbox"/>	✓			
MfeI E93		<input checked="" type="checkbox"/>	✓			
MluCI E92		<input checked="" type="checkbox"/>	✓			
MluCI E93		<input checked="" type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #**Reagent Kit Lot #**

1349

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
Modified: 4/7/2014 2:28:17 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

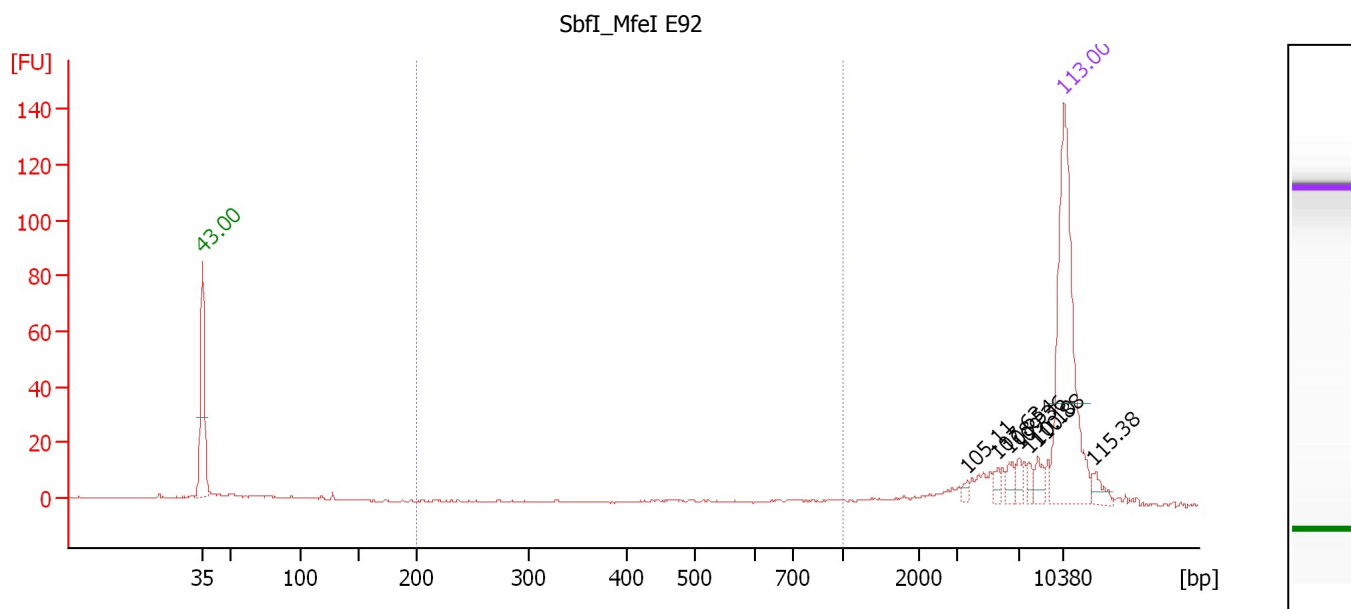
Ladder

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:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary



Overall Results for sample 1 : SbfI MfeI E92

Number of peaks found: 7 Corr. Area 1: 7.7
 Noise: 0.3

Peak table for sample 1 : SbfI MfeI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	3,655	1.73	0.7	
3	5,639	2.72	0.7	
4	6,357	4.40	1.0	
5	7,009	3.44	0.7	
6	7,691	3.11	0.6	
7	8,413	4.91	0.9	
8	10,380	75.00	10.9	Upper Marker
9	12,587	0.00	0.0	

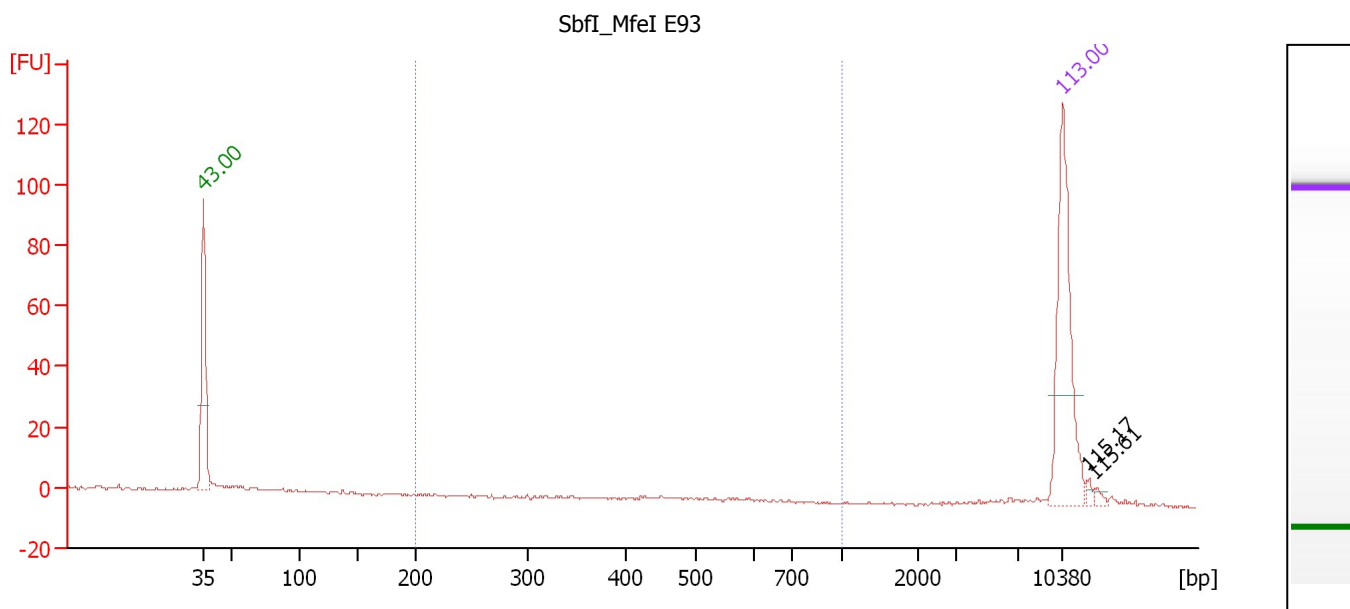
Region table for sample 1 : SbfI MfeI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7.7	5	692	25.6	4.05	9.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SbfI MfeI E93

Number of peaks found: 2 Corr. Area 1: 2.8
 Noise: 0.4

Peak table for sample 2 : SbfI MfeI E93

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,392	0.00	0.0	
4	12,794	0.00	0.0	

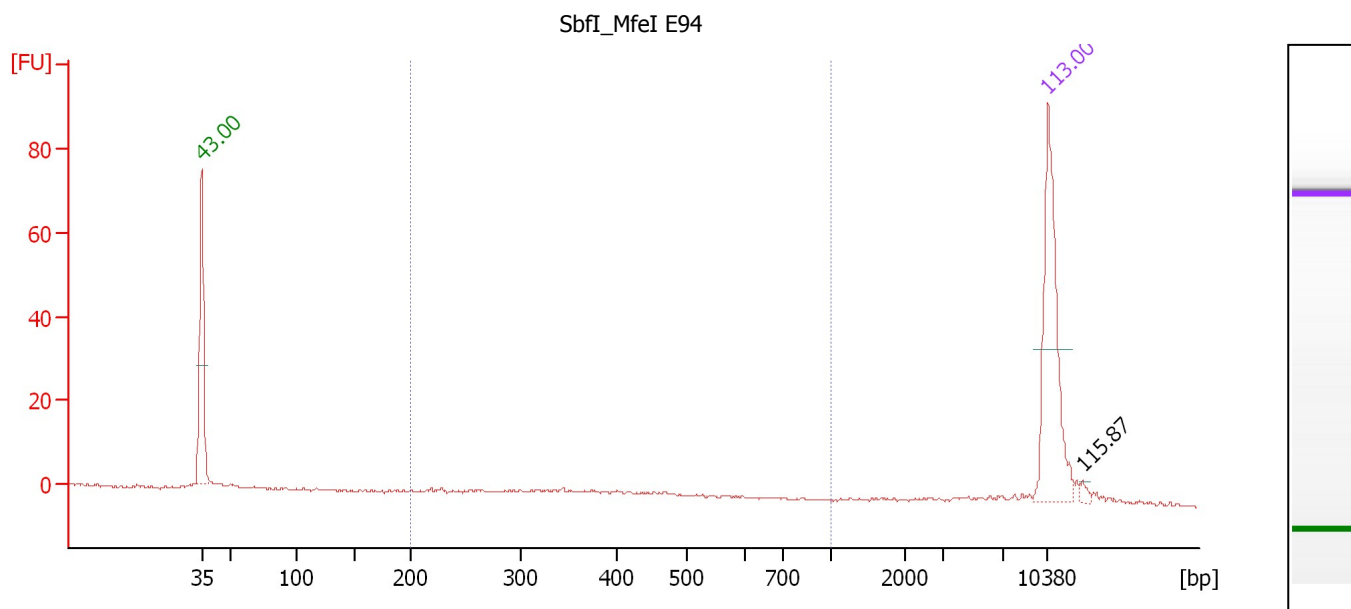
Region table for sample 2 : SbfI MfeI E93

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2.8	6	486	17.5	1.96	6.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SbfI MfeI E94

Number of peaks found: 1 Corr. Area 1: 15.0
 Noise: 0.3

Peak table for sample 3 : SbfI MfeI E94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	13,035	0.00	0.0	

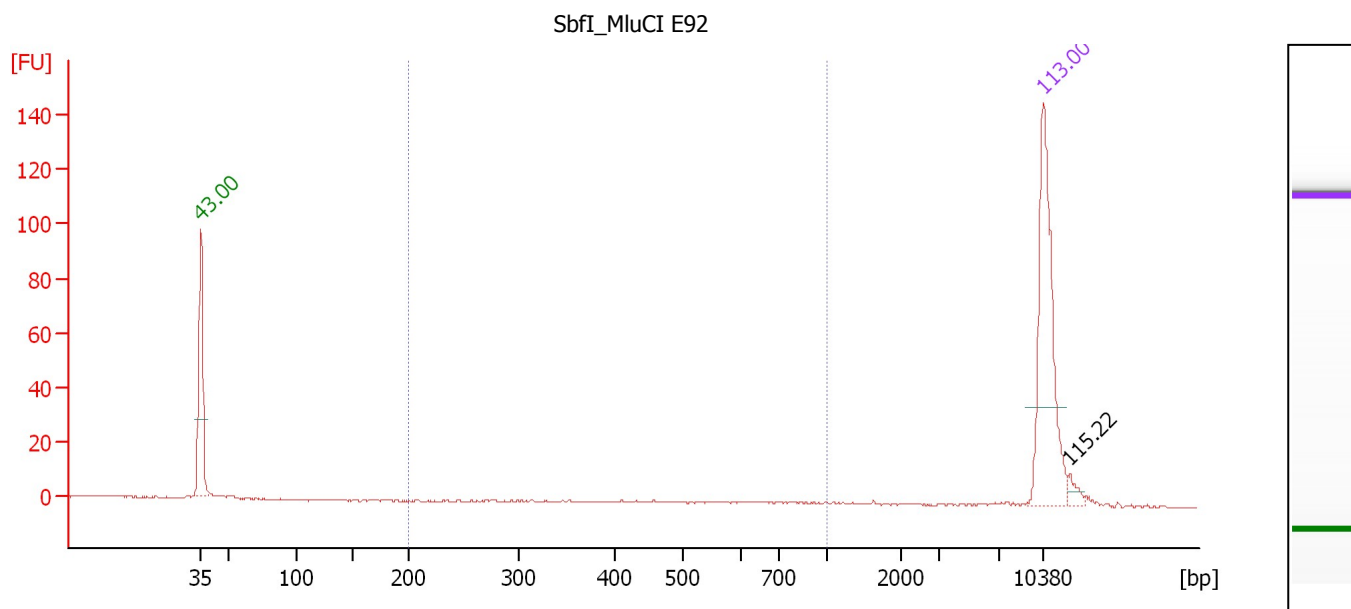
Region table for sample 3 : SbfI MfeI E94

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	15.0	38	371	23.0	15.92	70.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SbfI MluCI E92

Number of peaks found: 1 Corr. Area 1: 7.6
 Noise: 0.3

Peak table for sample 4 : SbfI MluCI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,431	0.00	0.0	

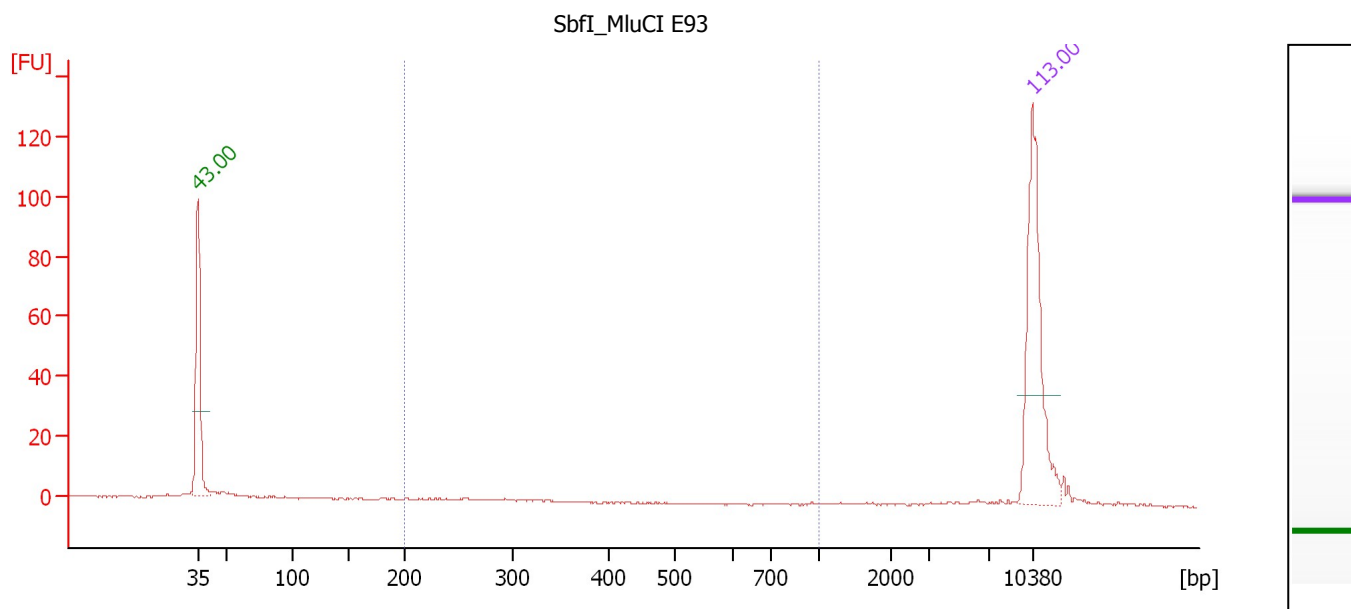
Region table for sample 4 : SbfI MluCI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	7.6	19	623	28.8	4.39	12.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SbfI MluCI E93

Number of peaks found: 0 Corr. Area 1: 2.2
 Noise: 0.3

Peak table for sample 5 : SbfI MluCI E93

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

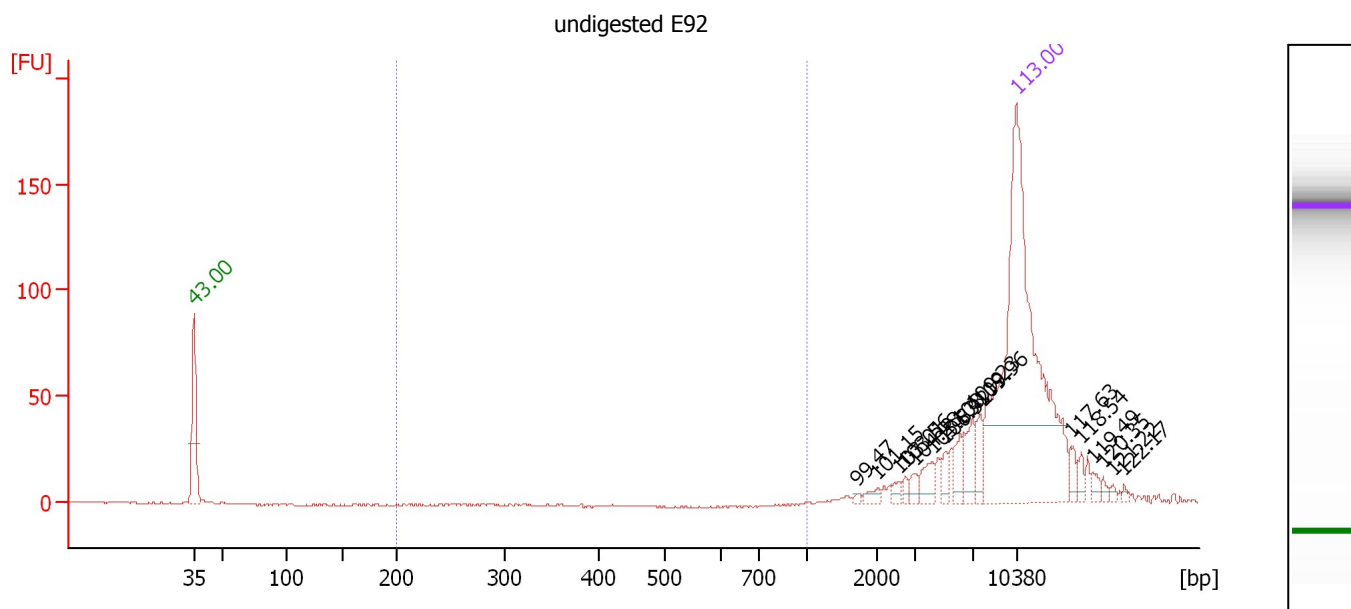
Region table for sample 5 : SbfI MluCI E93

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2.2	6	288	45.9	1.75	10.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

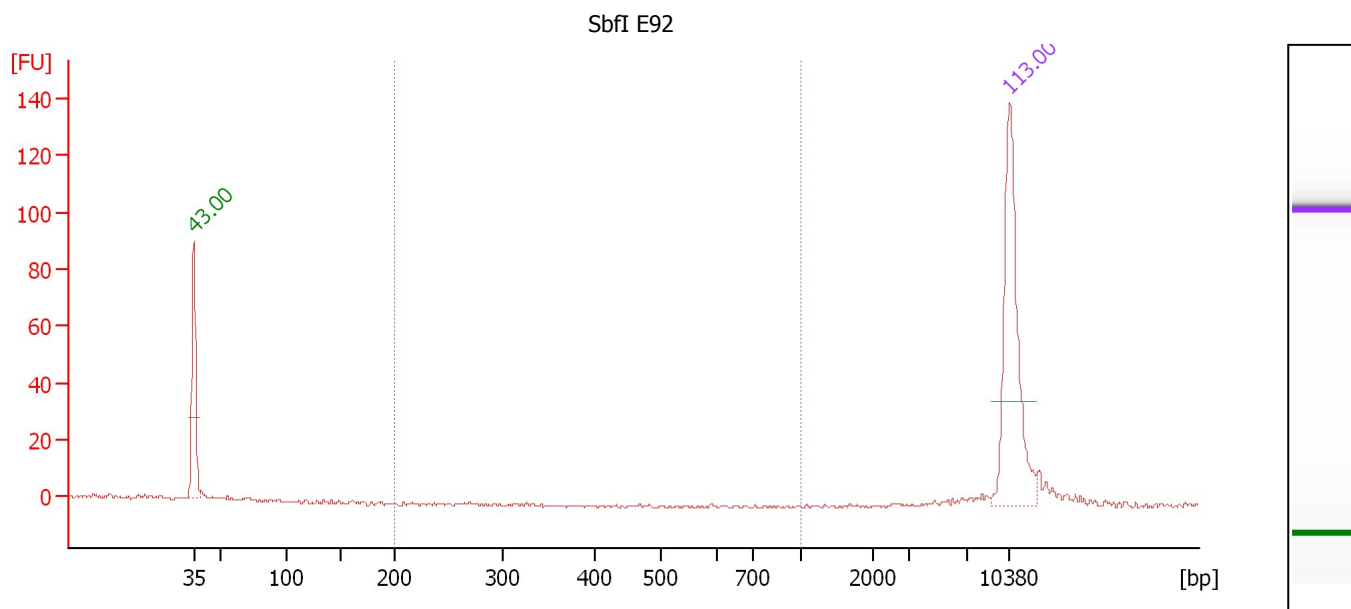
Electropherogram Summary Continued ...



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SbfI E92

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.5

Peak table for sample 7 : SbfI E92

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

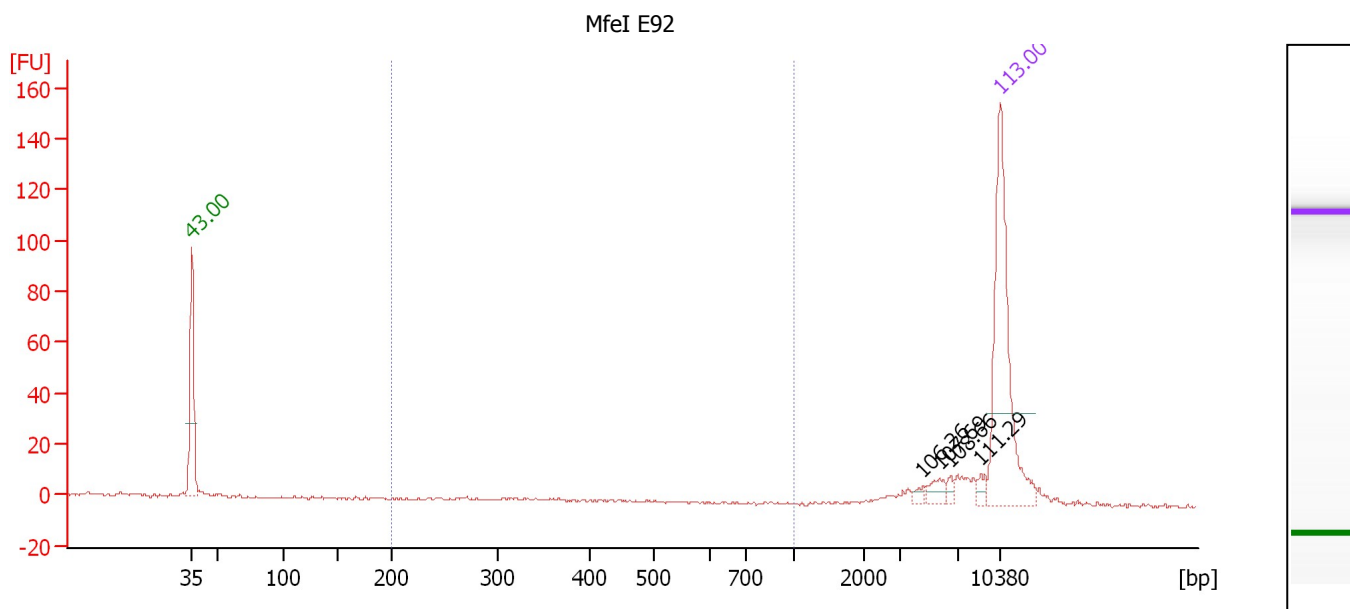
Region table for sample 7 : SbfI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MfeI E92

Number of peaks found: 4 Corr. Area 1: 4.0
 Noise: 0.3

Peak table for sample 8 : MfeI E92

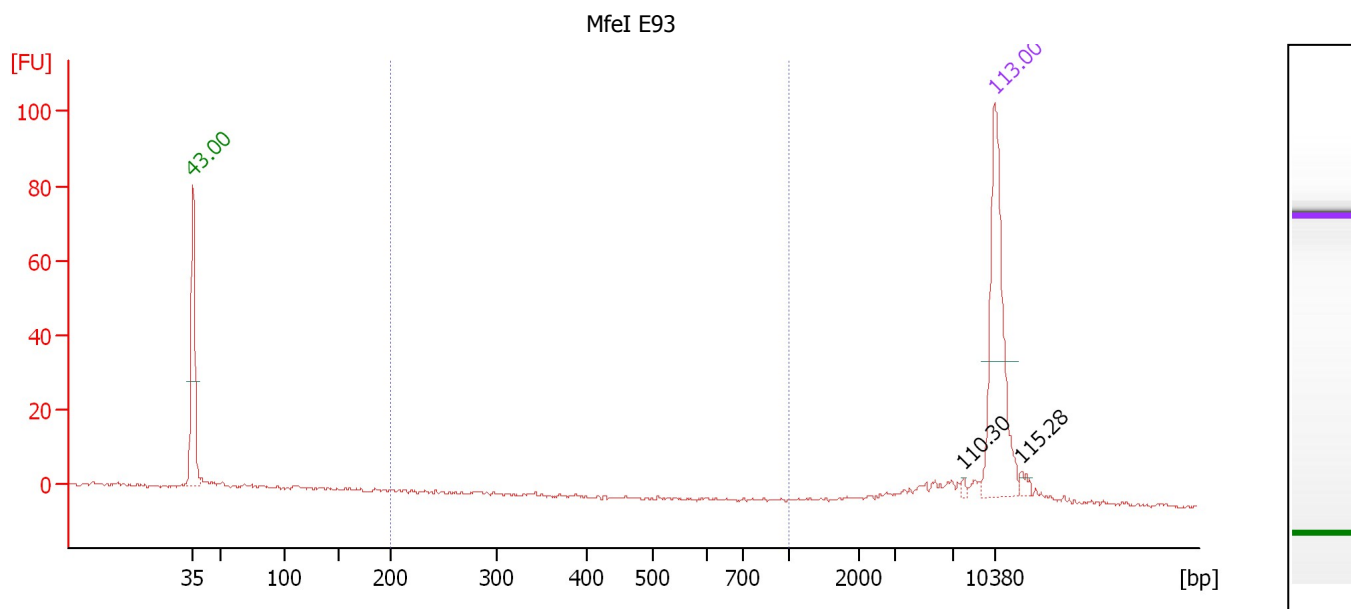
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	4,564	2.49	0.8	
3	5,693	5.89	1.6	Possible Co-Migration of 2 Peaks
4	6,458	2.73	0.6	
5	8,799	3.16	0.5	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : MfeI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4.0	4	385	39.4	2.31	10.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : MfeI E93**

Number of peaks found: 2 Corr. Area 1: 1.6
 Noise: 0.4

Peak table for sample 9 : MfeI E93

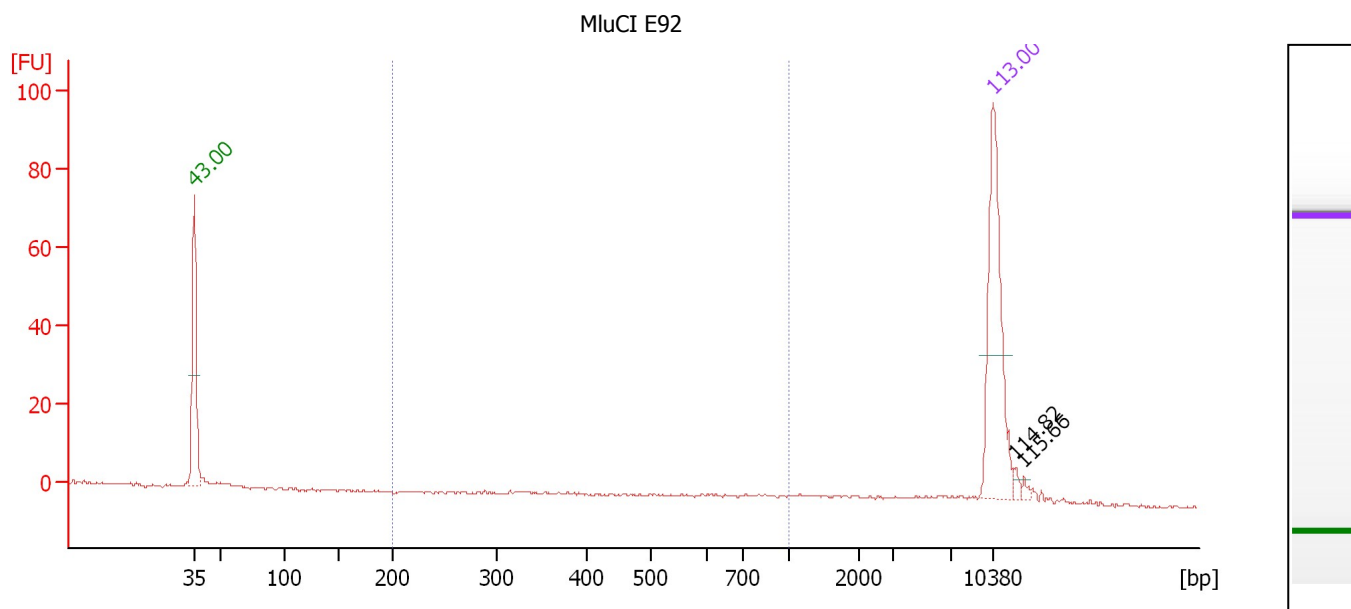
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	7,879	1.51	0.3	
3	10,380	75.00	10.9	Upper Marker
4	12,493	0.00	0.0	

Region table for sample 9 : MfeI E93

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1.6	2	267	31.0	1.66	10.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : MluCI E92**

Number of peaks found: 2 Corr. Area 1: 4.6
 Noise: 0.3

Peak table for sample 10 : MluCI E92

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,066	0.00	0.0	
4	12,845	0.00	0.0	

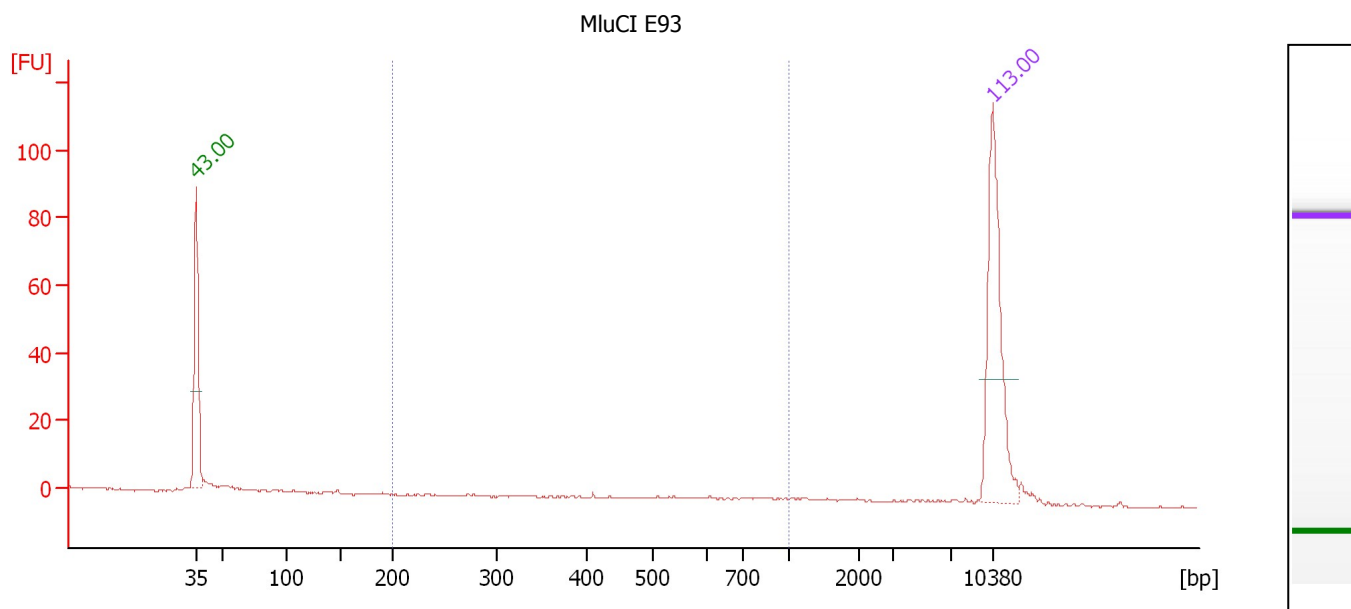
Region table for sample 10 : MluCI E92

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4.6	11	724	23.1	3.86	8.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MluCI E93

Number of peaks found: 0 Corr. Area 1: 5.3
 Noise: 0.2

Peak table for sample 11 : MluCI E93

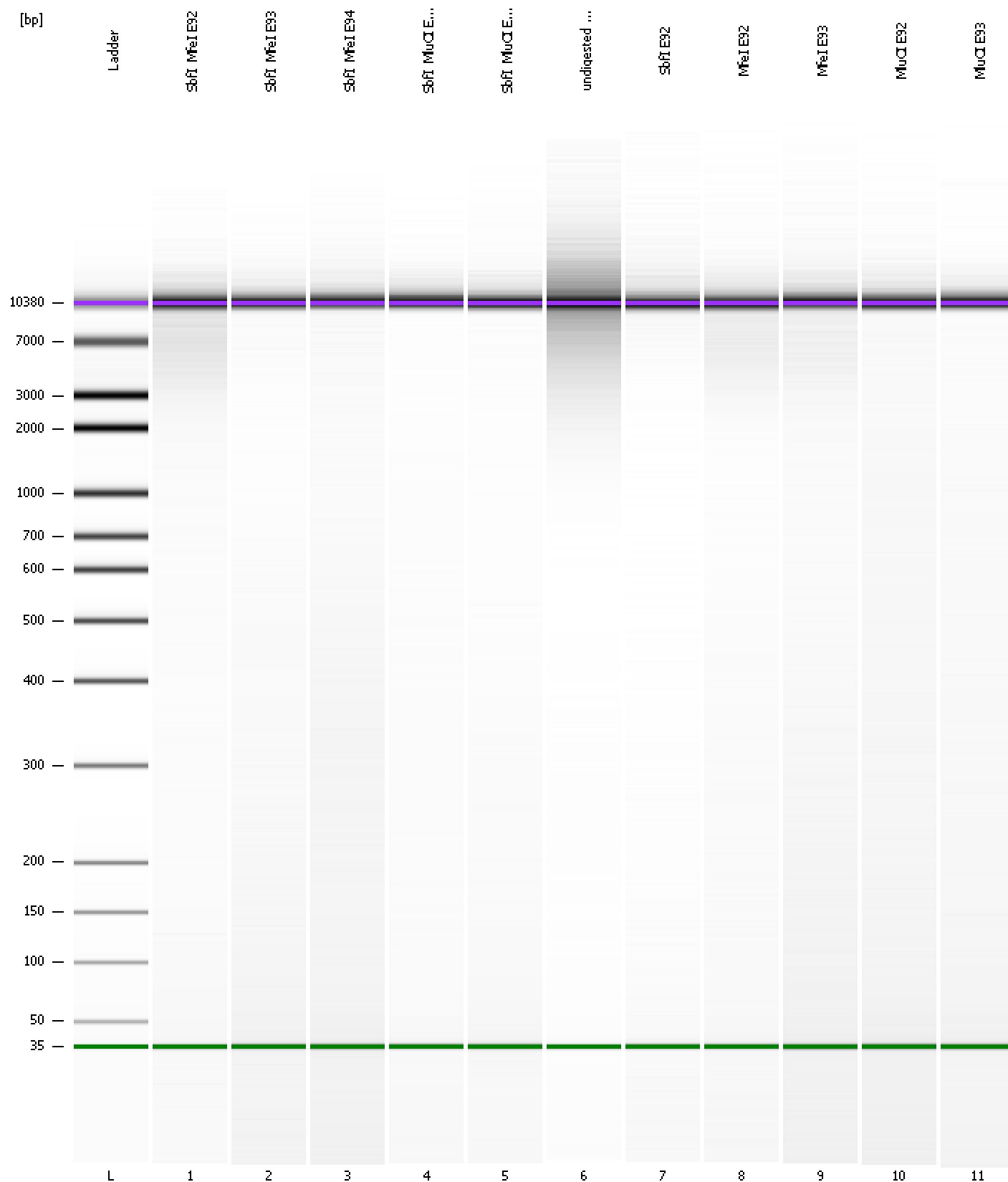
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : MluCI E93

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5.3	15	678	25.4	3.80	9.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
Modified: 4/7/2014 2:28:17 PM

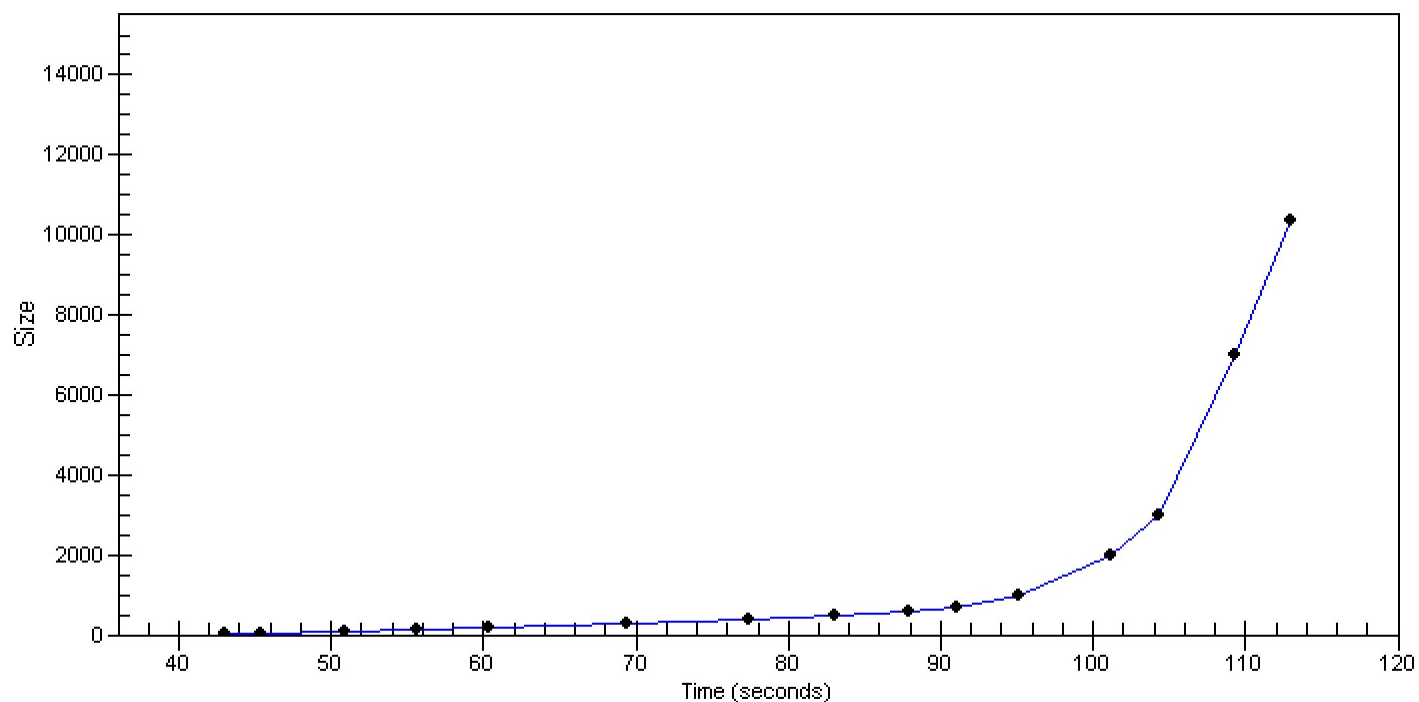
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
Modified: 4/7/2014 2:28:17 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad

Created: 4/7/2014 12:21:20 PM
 Modified: 4/7/2014 2:28:17 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		4/7/2014 1:02:43 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-04-07\Pinsky_High Sensitivity DNA Assay_DE72901330_2014-04-07_12-21-21.xad)		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Product Number : G2939A		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Name :		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Vendor : Agilent Technologies		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Serial# : DE72901330		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Firmware : C.01.069		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Cartridge : Electrode		Instrument	Run		4/7/2014 12:21:28 PM	(GMT --04:00) Eastern Standard Time	foran103	RUTGERS-4341 E48