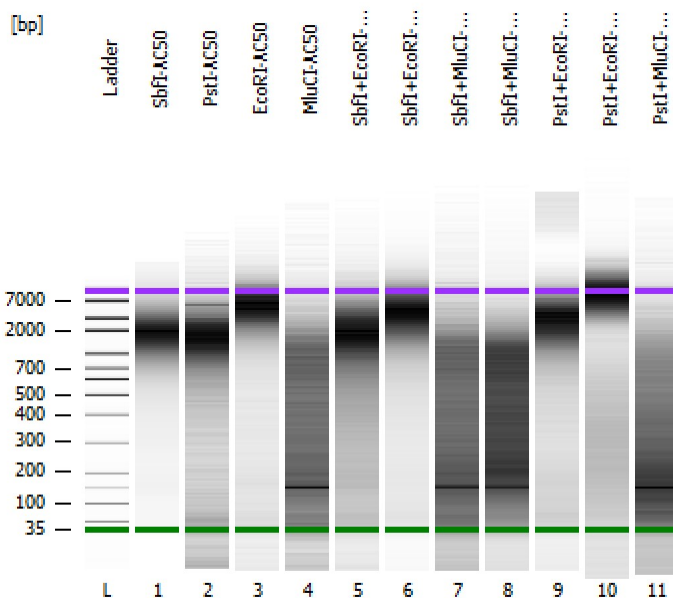


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE04103186  
Serial#: DE04103186

Firmware: C.01.069  
Type: G2939A

#### Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay

Version: 1.03

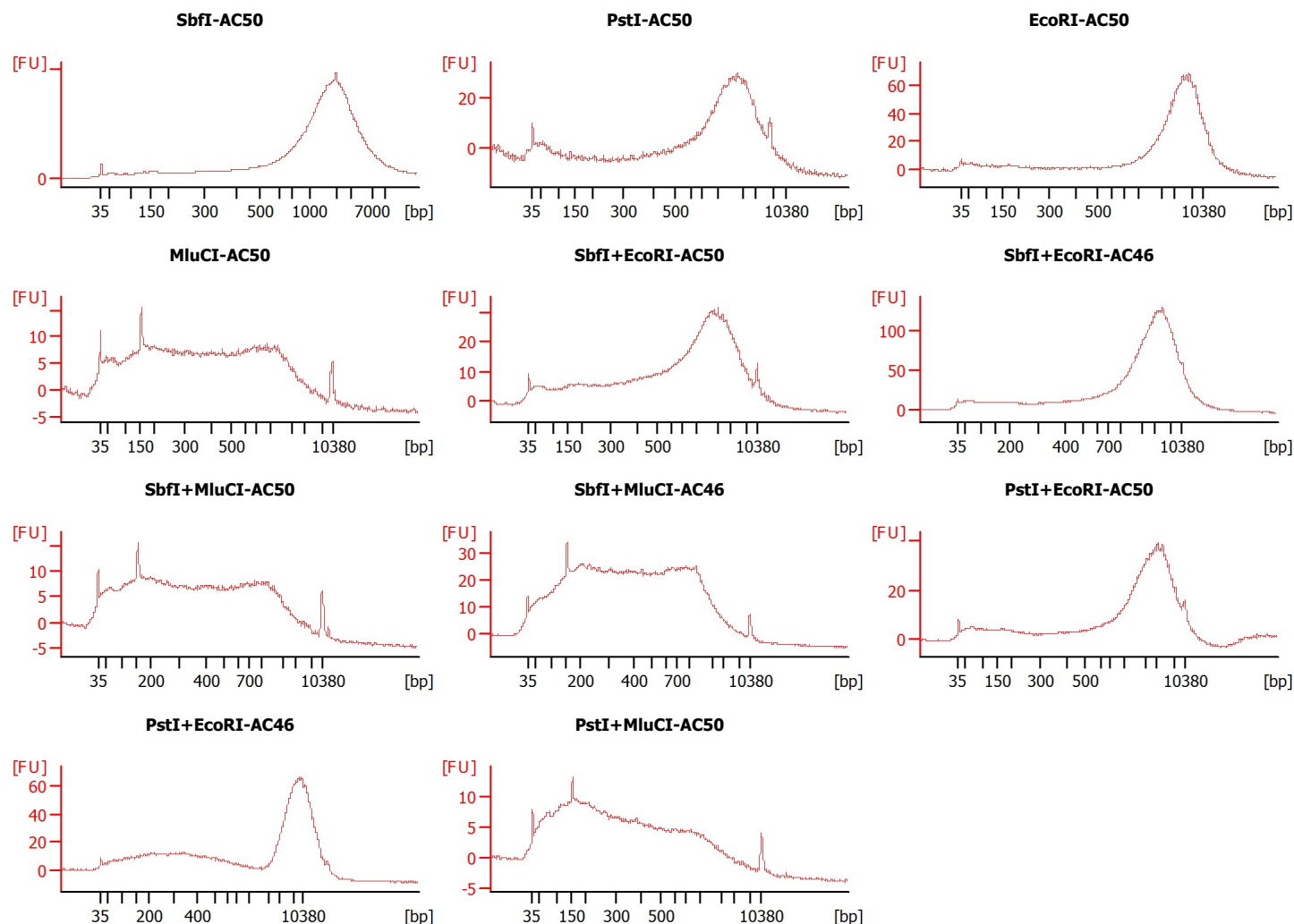
Assay Comments: Copyright © 2003-2010 Agilent Technologies

#### Chip Information:

Chip Lot #: RF19BK50

Reagent Kit Lot #: 1326

























Chip Comments:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SbfI-AC50						
PstI-AC50						
EcoRI-AC50						
MluCI-AC50						
SbfI+EcoRI-AC50						
SbfI+EcoRI-AC46						
SbfI+MluCI-AC50						
SbfI+MluCI-AC46						
PstI+EcoRI-AC50						
PstI+EcoRI-AC46						
PstI+MluCI-AC50						
Ladder						
<b>Chip Lot #</b>			<b>Reagent Kit Lot #</b>			
RF19BK50			1326			

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

## 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

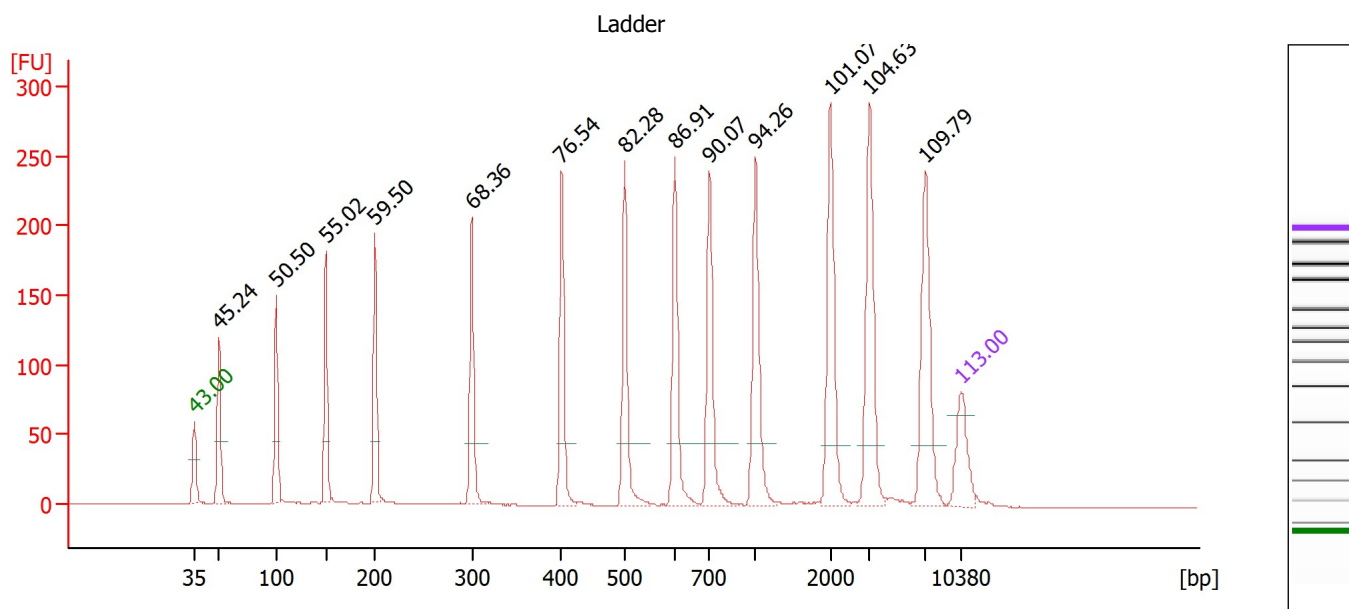
### Ladder

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:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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### Electropherogram Summary



### Overall Results for Ladder

Noise: 0.2

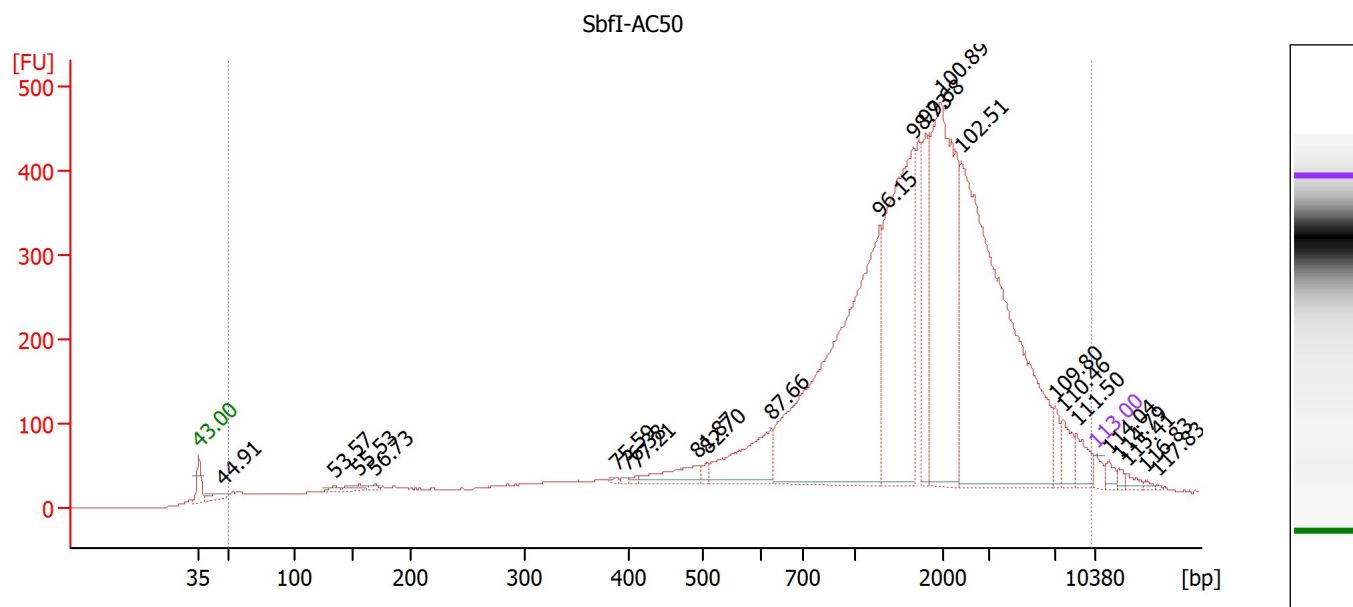
### Peak table for Ladder

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:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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 Modified: 5/13/2014 9:54:13 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 1 : SbfI-AC50

Number of peaks found: 23      Corr. Area 1: 8,076.6  
 Noise: 0.3

### Peak table for sample 1 : SbfI-AC50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	170.35	5,396.8	
3	134	77.73	879.2	
4	156	136.93	1,333.2	
5	169	53.29	477.5	
6	388	23.33	91.0	
7	398	22.96	87.4	
8	412	26.06	95.9	
9	493	369.07	1,134.7	
10	509	73.58	219.0	
11	624	936.02	2,274.2	
12	1,277	4,958.61	5,884.3	
13	1,655	3,087.51	2,825.9	
14	1,796	768.31	648.2	
15	1,973	3,064.27	2,353.2	
16	2,405	4,950.59	3,119.0	
17	7,009	172.19	37.2	
18	7,709	211.46	41.6	
19	8,804	219.72	37.8	
20	10,380	75.00	10.9	Upper Marker
21	11,475	0.00	0.0	
22	12,263	0.00	0.0	
23	12,919	0.00	0.0	
24	14,408	0.00	0.0	
25	15,459	0.00	0.0	

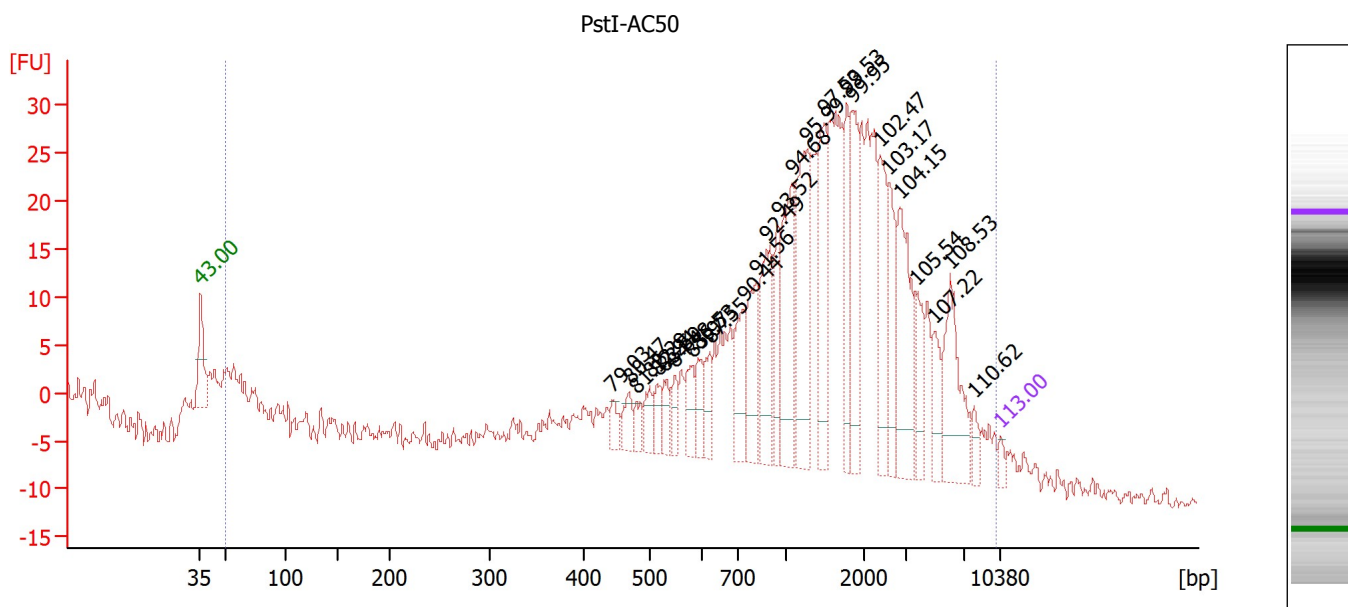
Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****... Region table for sample 1 :****SbfI-AC50**

<b>From [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Average Size [bp]</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/μl]</b>	<b>Molarity [pmol/l]</b>	<b>Co lor</b>
50	10,000	8,076.6	98	2,053	85.3	27,368.93	79,546.6	

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Number of peaks found:	26	Corr. Area 1:	677.0
Noise:	1.1		

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	443	198.28	677.7	
3	468	261.39	845.5	
4	480	181.09	571.9	
5	500	239.74	726.4	
6	514	206.76	609.3	
7	528	255.66	733.2	
8	547	201.85	558.6	
9	580	317.04	828.6	
10	592	284.77	729.1	
11	620	296.55	724.2	
12	727	590.91	1,232.2	
13	807	727.26	1,365.9	
14	874	949.84	1,647.5	
15	947	511.13	817.8	
16	1,062	1,128.60	1,609.5	
17	1,254	1,356.60	1,639.2	
18	1,480	972.37	995.7	
19	1,774	664.32	567.5	
20	1,835	860.35	710.3	
21	2,392	755.38	478.4	
22	2,589	559.75	327.6	
23	2,864	1,057.22	559.2	
24	3,710	402.39	164.3	
25	5,011	333.63	100.9	
26	6,022	915.62	230.4	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 2 : PstI-AC50**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	7,879	137.63	26.5	
28	10,380	75.00	10.9	Upper Marker

**Region table for sample 2 : PstI-AC50**

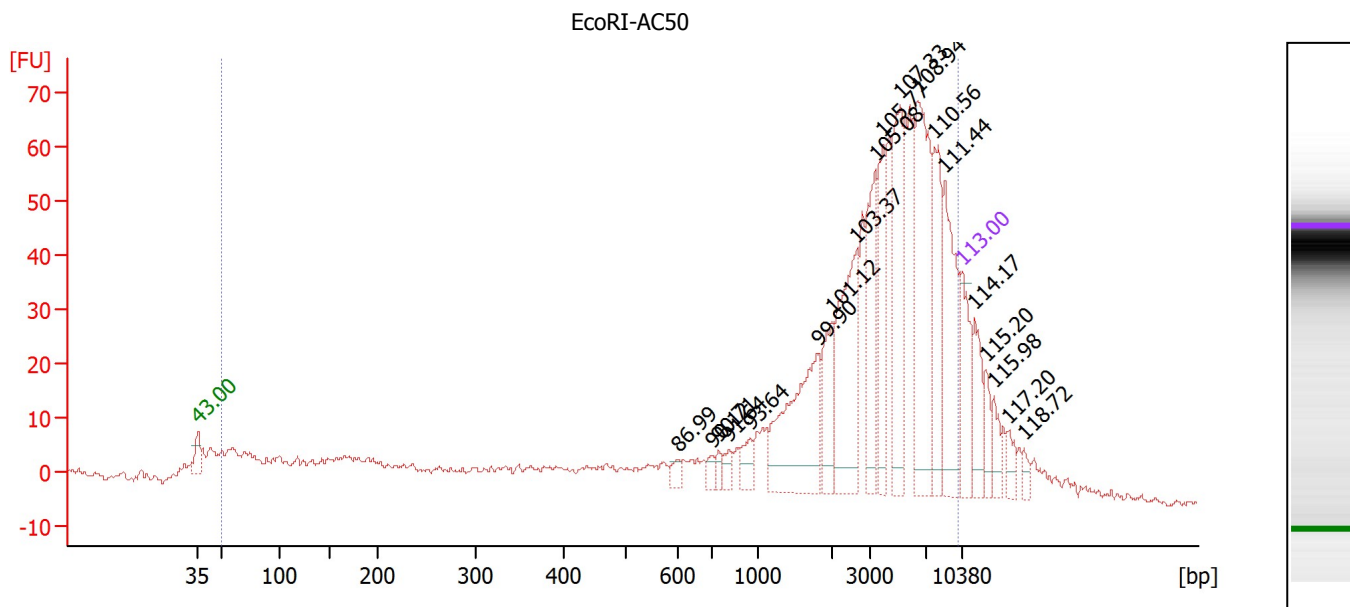
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	677.0	97	2,038	85.3	21,652.48	51,732.8	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 3 : EcoRI-AC50

Number of peaks found: 19      Corr. Area 1: 973.9  
 Noise: 0.6

### Peak table for sample 3 : EcoRI-AC50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	603	15.62	39.3	
3	704	13.90	29.9	
4	746	12.18	24.8	Questionable Peak
5	812	17.99	33.6	
6	956	27.47	43.5	
7	1,828	187.18	155.2	Possible Co-Migration of 4 Peaks
8	2,013	74.82	56.3	
9	2,646	175.21	100.3	Possible Co-Migration of 2 Peaks
10	3,352	114.46	51.7	
11	3,882	91.63	35.8	
12	5,095	155.34	46.2	
13	6,345	234.28	55.9	
14	7,809	111.99	21.7	Questionable Peak
15	8,734	144.40	25.0	Questionable Peak
16	10,380	75.00	10.9	Upper Marker
17	11,614	0.00	0.0	
18	12,694	0.00	0.0	
19	13,517	0.00	0.0	
20	14,803	0.00	0.0	
21	16,397	0.00	0.0	

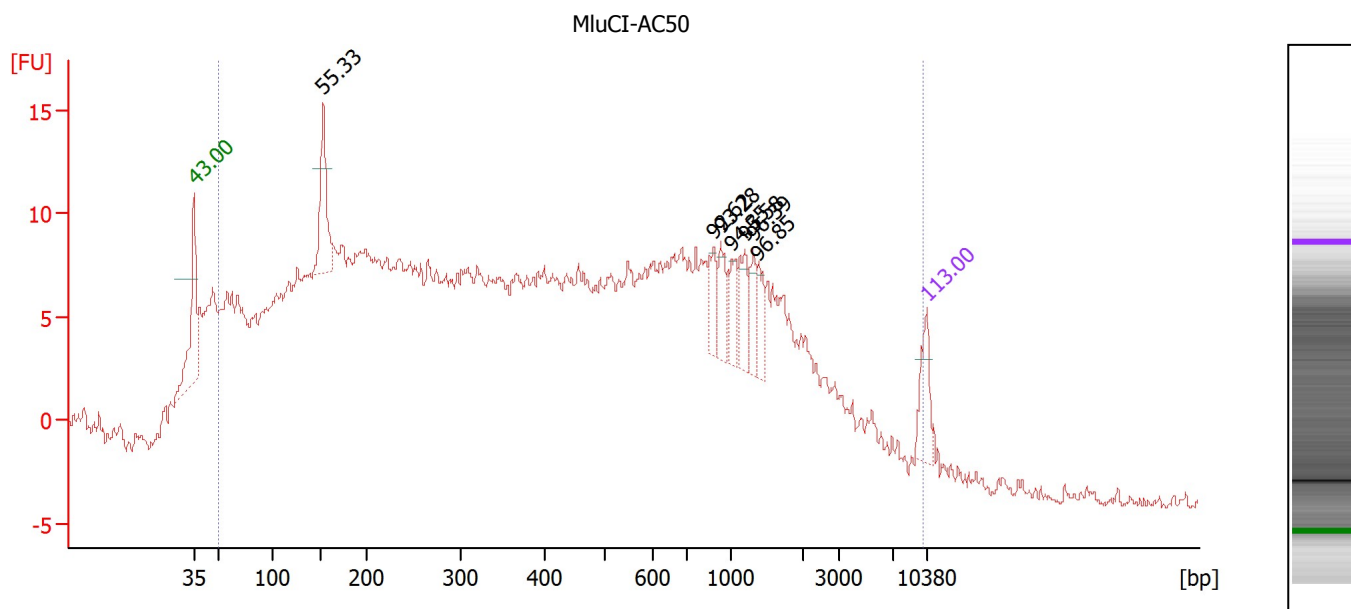
### Region table for sample 3 : EcoRI-AC50

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	973.9	89	3,953	70.1	2,366.34	7,708.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 4 : MluCI-AC50

Number of peaks found: 7      Corr. Area 1: 678.3  
 Noise: 0.4

### Peak table for sample 4 : MluCI-AC50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	236.26	2,333.4	
3	883	58.13	99.8	
4	930	73.03	119.0	
5	1,014	62.94	94.1	
6	1,193	81.91	104.0	
7	1,313	51.32	59.2	
8	1,380	57.05	62.6	
9	10,380	75.00	10.9	Upper Marker

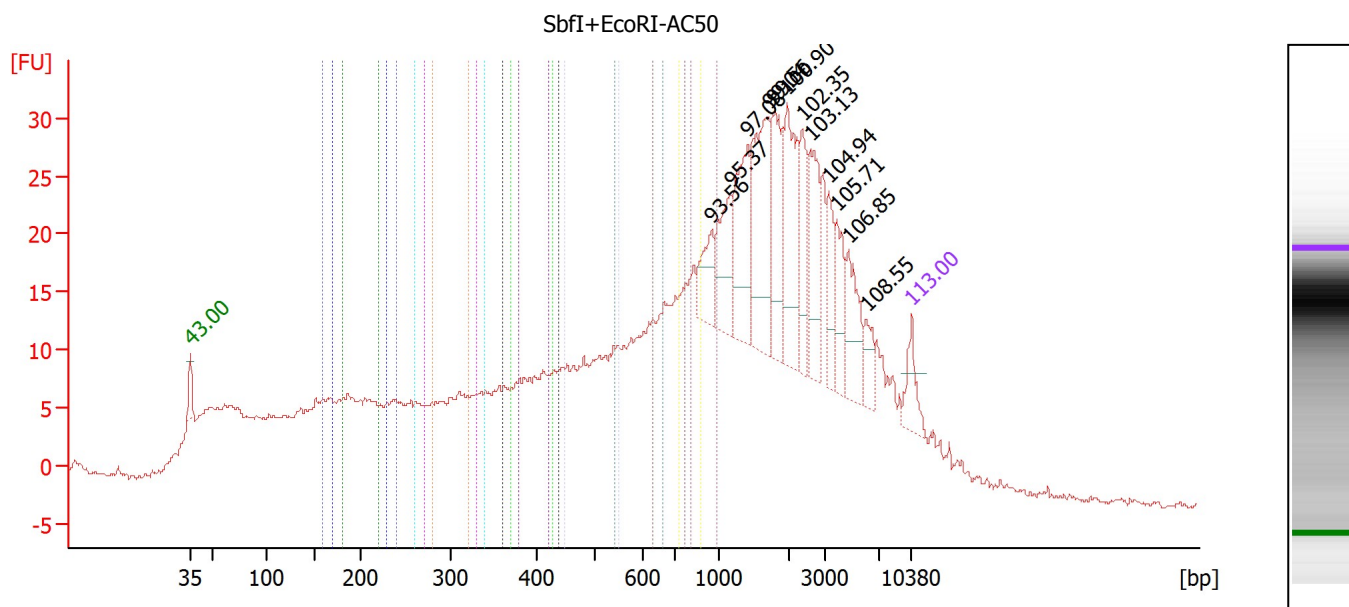
### Region table for sample 4 : MluCI-AC50

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	678.3	96	791	100.0	12,913.53	94,145.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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 Modified: 5/13/2014 9:54:13 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : SbfI+EcoRI-AC50

Number of peaks found:	12	Corr. Area 7:	63.3
Noise:	0.3	Corr. Area 8:	47.6
Corr. Area 1:	74.9	Corr. Area 9:	32.1
Corr. Area 2:	56.3	Corr. Area 10:	66.3
Corr. Area 3:	37.4	Corr. Area 11:	68.6
Corr. Area 4:	66.7	Corr. Area 12:	54.1
Corr. Area 5:	49.9	Corr. Area 13:	42.9
Corr. Area 6:	33.4	Corr. Area 14:	54.6

### Peak table for sample 5 : SbfI+EcoRI-AC50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	950	129.55	206.6	
3	1,163	178.78	232.9	
4	1,414	257.46	276.0	
5	1,702	343.38	305.7	
6	1,778	198.73	169.4	
7	1,975	285.46	219.0	
8	2,359	147.29	94.6	
9	2,577	206.20	121.2	
10	3,239	98.62	46.1	
11	3,840	120.07	47.4	
12	4,721	148.50	47.7	
13	6,044	67.07	16.8	
14	10,380	75.00	10.9	Upper Marker

### Region table for sample 5 : SbfI+EcoRI-AC50

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	74.9	7	199	11.7	1,182.17	9,176.1	Blue














Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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**Electropherogram Summary Continued ...**

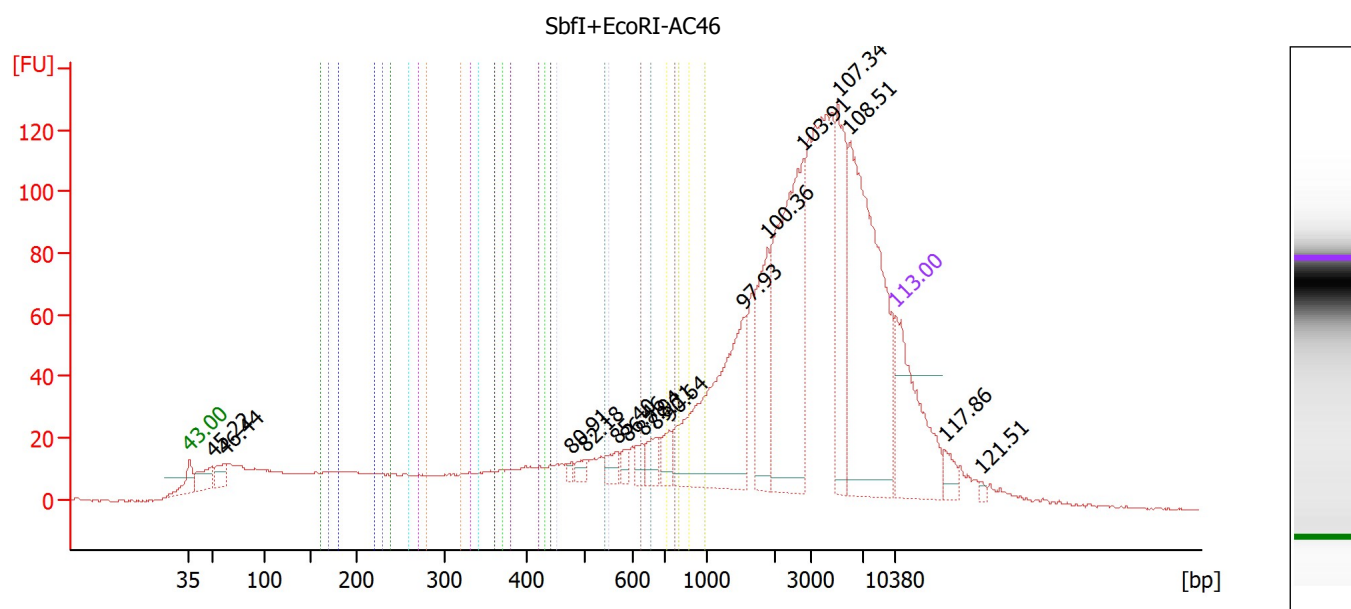
... Region table for sample 5 :

**SbfI+EcoRI-AC50**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
170	230	56.3	5	199	8.8	887.39	6,825.0	
180	220	37.4	4	199	5.8	587.14	4,483.4	
260	340	66.7	6	300	7.8	934.31	4,765.4	
270	330	49.9	5	300	5.8	698.64	3,551.3	
280	320	33.4	3	299	3.9	468.15	2,374.3	
360	440	63.3	6	397	5.8	796.79	3,057.3	
370	430	47.6	5	397	4.3	597.95	2,286.7	
380	420	32.1	3	398	2.9	401.33	1,530.1	
450	550	66.3	6	498	5.9	811.28	2,478.6	
540	660	68.6	7	596	5.8	789.28	2,015.6	
630	770	54.1	5	686	5.5	627.64	1,390.3	
720	880	42.9	4	799	5.9	484.26	922.5	
810	990	54.6	5	900	5.9	589.48	996.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : SbfI+EcoRI-AC46**

Number of peaks found:	16	Corr. Area 7:	79.9
Noise:	0.3	Corr. Area 8:	60.3
Corr. Area 1:	82.2	Corr. Area 9:	40.7
Corr. Area 2:	55.5	Corr. Area 10:	85.7
Corr. Area 3:	109.0	Corr. Area 11:	93.4
Corr. Area 4:	87.2	Corr. Area 12:	76.4
Corr. Area 5:	65.3	Corr. Area 13:	60.9
Corr. Area 6:	43.4	Corr. Area 14:	80.8

**Peak table for sample 6 : SbfI+EcoRI-AC46**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	27.44	833.7	
3	61	17.56	433.5	
4	476	3.88	12.3	
5	498	7.48	22.8	
6	567	11.36	30.3	
7	590	7.03	18.0	
8	633	9.24	22.1	
9	673	15.25	34.4	
10	740	14.63	29.9	
11	1,539	140.39	138.2	
12	1,896	60.43	48.3	
13	2,797	165.95	89.9	
14	5,105	76.31	22.6	
15	6,007	198.85	50.2	
16	10,380	75.00	10.9	Upper Marker
17	15,497	0.00	0.0	
18	19,335	0.00	0.0	















Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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**Electropherogram Summary Continued ...**

... Region table for sample 6 :

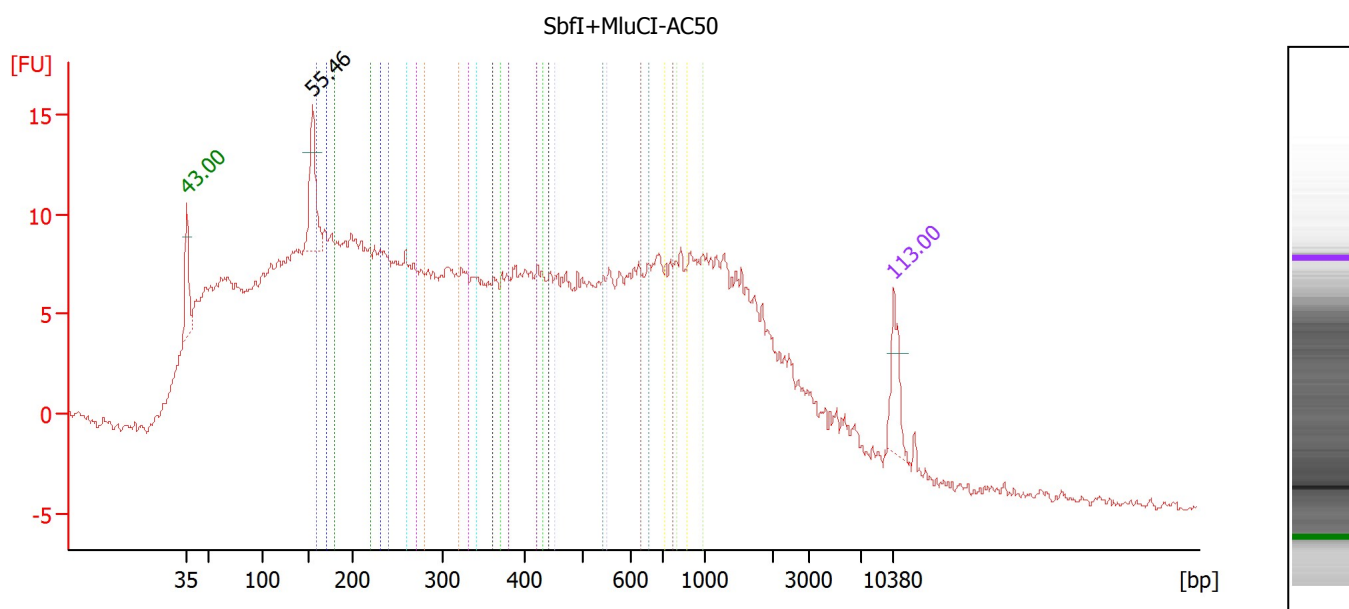
**SbfI+EcoRI-AC46**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	109.0	4	199	11.6	101.90	793.0	
170	230	82.2	3	199	8.8	76.67	590.8	
180	220	55.5	2	199	5.9	51.64	394.4	
260	340	87.2	3	300	7.8	72.35	369.5	
270	330	65.3	3	299	5.9	54.23	276.2	
280	320	43.4	2	299	3.9	35.99	182.5	
360	440	79.9	3	397	5.8	59.52	228.3	
370	430	60.3	2	397	4.3	44.77	171.2	
380	420	40.7	2	398	2.9	30.12	114.9	
450	550	85.7	3	498	5.8	62.13	189.6	
540	660	93.4	4	596	5.8	63.64	162.5	
630	770	76.4	3	687	5.6	52.48	116.2	
720	880	60.9	2	800	5.9	40.64	77.3	
810	990	80.8	3	901	5.9	51.63	87.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

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 Modified: 5/13/2014 9:54:13 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : SbfI+MluCI-AC50

Number of peaks found:	1	Corr. Area 7:	62.4
Noise:	0.3	Corr. Area 8:	46.9
Corr. Area 1:	111.1	Corr. Area 9:	31.5
Corr. Area 2:	82.6	Corr. Area 10:	53.3
Corr. Area 3:	54.9	Corr. Area 11:	48.8
Corr. Area 4:	82.7	Corr. Area 12:	33.9
Corr. Area 5:	61.9	Corr. Area 13:	23.7
Corr. Area 6:	40.7	Corr. Area 14:	26.7

### Peak table for sample 7 : SbfI+MluCI-AC50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	202.23	1,978.6	
3	10,380	75.00	10.9	Upper Marker

### Region table for sample 7 : SbfI+MluCI-AC50

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	111.1	15	199	11.7	2,322.01	18,072.1	Blue
170	230	82.6	11	199	8.7	1,720.95	13,235.9	Blue
180	220	54.9	7	199	5.8	1,141.14	8,706.6	Green
260	340	82.7	11	298	7.8	1,535.11	7,874.4	Cyan
270	330	61.9	8	299	5.9	1,149.21	5,855.4	Magenta
280	320	40.7	5	299	3.9	755.32	3,834.6	Orange
360	440	62.4	8	396	5.8	1,040.44	4,000.7	Black
370	430	46.9	6	397	4.3	779.02	2,981.9	Green
380	420	31.5	4	397	2.9	521.20	1,989.2	Purple
450	550	53.3	7	497	5.9	864.35	2,648.6	Light Blue
540	660	48.8	6	594	5.9	744.22	1,906.4	Dark Blue
630	770	33.9	4	685	5.5	520.05	1,154.3	Brown



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...**

... Region table for sample 7 :

**SbfI+MluCI-AC50**

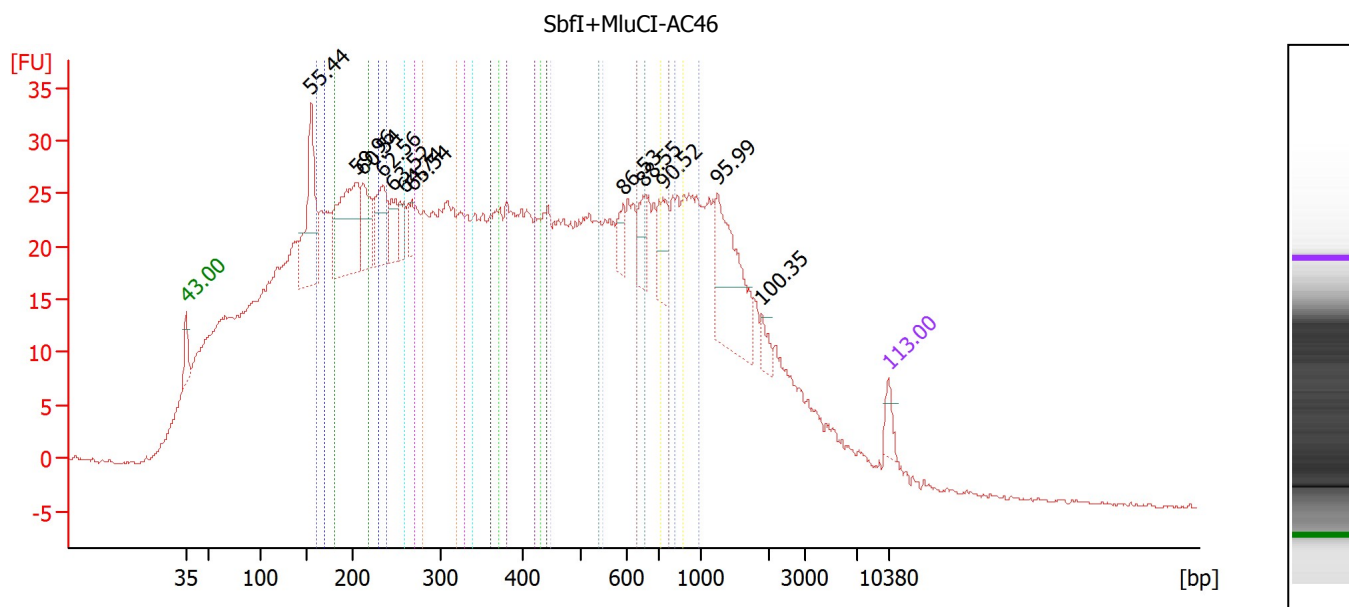
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
720	880	23.7	3	796	5.9	354.04	676.7	
810	990	26.7	4	896	5.9	381.79	647.8	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 8 : SbfI+MluCI-AC46

Number of peaks found:	12	Corr. Area 7:	176.3
Noise:	0.2	Corr. Area 8:	130.9
Corr. Area 1:	295.3	Corr. Area 9:	89.1
Corr. Area 2:	221.1	Corr. Area 10:	149.8
Corr. Area 3:	150.4	Corr. Area 11:	133.3
Corr. Area 4:	240.2	Corr. Area 12:	91.7
Corr. Area 5:	178.5	Corr. Area 13:	63.3
Corr. Area 6:	119.0	Corr. Area 14:	70.7

### Peak table for sample 8 : SbfI+MluCI-AC46

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	809.37	7,931.2	
3	205	873.86	6,455.1	
4	212	332.47	2,379.4	
5	235	368.65	2,381.8	
6	245	178.04	1,099.7	
7	259	129.17	755.3	
8	268	117.13	661.9	
9	592	108.55	277.9	
10	652	152.71	354.9	
11	732	244.86	506.9	
12	1,254	610.32	737.3	
13	1,894	67.81	54.3	
14	10,380	75.00	10.9	Upper Marker














### Region table for sample 8 : SbfI+MluCI-AC46

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	295.3	15	200	11.6	7,606.39	58,830.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

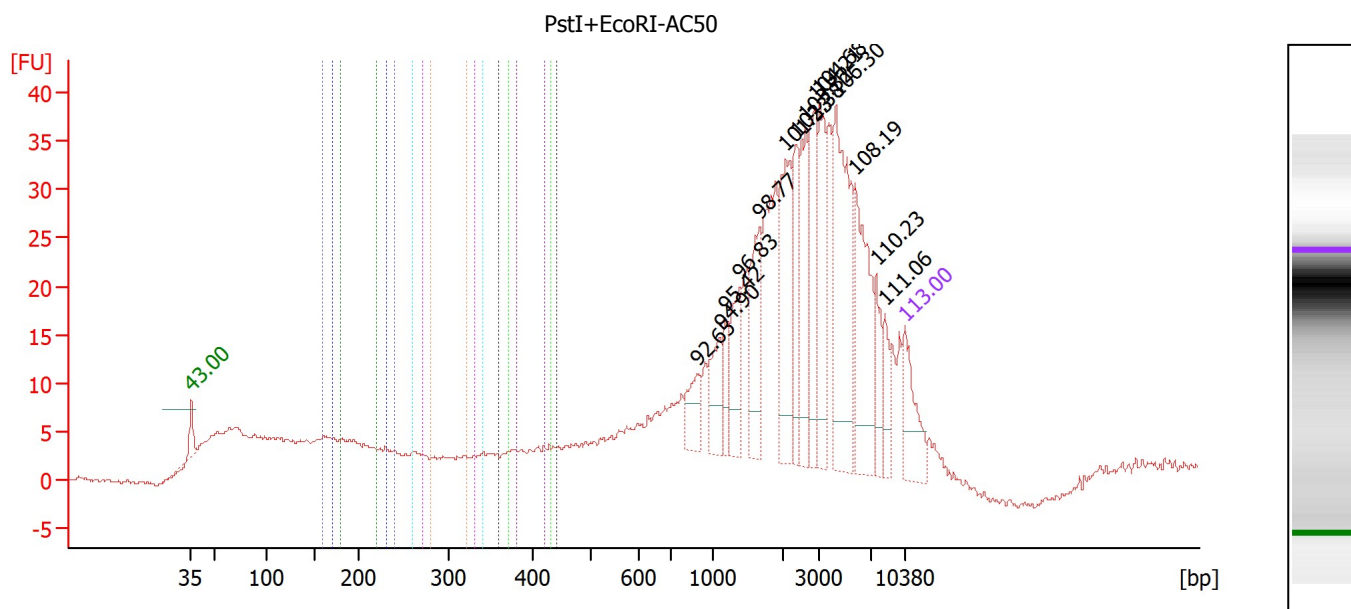
Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****... Region table for sample 8 :****SbfI+MluCI-AC46**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
170	230	221.1	12	200	8.6	5,683.43	43,596.1	
180	220	150.4	8	200	5.8	3,857.23	29,374.0	
260	340	240.2	13	298	7.8	5,506.34	28,240.8	
270	330	178.5	9	299	5.8	4,090.13	20,857.6	
280	320	119.0	6	299	3.9	2,726.48	13,834.5	
360	440	176.3	9	395	5.8	3,630.15	13,981.9	
370	430	130.9	7	396	4.3	2,684.79	10,290.2	
380	420	89.1	5	397	2.9	1,821.06	6,948.9	
450	550	149.8	8	497	5.9	2,997.84	9,183.4	
540	660	133.3	7	594	5.8	2,506.92	6,417.0	
630	770	91.7	5	684	5.6	1,738.28	3,860.4	
720	880	63.3	3	797	5.9	1,168.00	2,230.8	
810	990	70.7	4	898	5.9	1,247.58	2,113.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : PstI+EcoRI-AC50**

Number of peaks found:	14	Corr. Area 5:	11.2
Noise:	0.2	Corr. Area 6:	7.3
Corr. Area 1:	35.3	Corr. Area 7:	15.4
Corr. Area 2:	26.4	Corr. Area 8:	11.8
Corr. Area 3:	17.8	Corr. Area 9:	7.6
Corr. Area 4:	15.6		

**Peak table for sample 9 : PstI+EcoRI-AC50**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	885	56.57	96.9	
3	1,094	67.39	93.3	
4	1,171	40.98	53.0	
5	1,378	76.68	84.3	
6	1,662	114.48	104.4	
7	2,073	153.32	112.1	
8	2,368	91.21	58.4	
9	2,633	106.74	61.4	
10	2,883	126.50	66.5	
11	3,042	120.88	60.2	
12	4,299	255.82	90.2	
13	5,759	175.02	46.0	
14	7,463	55.01	11.2	
15	8,344	36.72	6.7	
16	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : PstI+EcoRI-AC50**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	35.3	5	195	11.7	245.16	1,939.4	Blue
170	230	26.4	4	197	8.7	182.60	1,420.1	Blue








Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...**

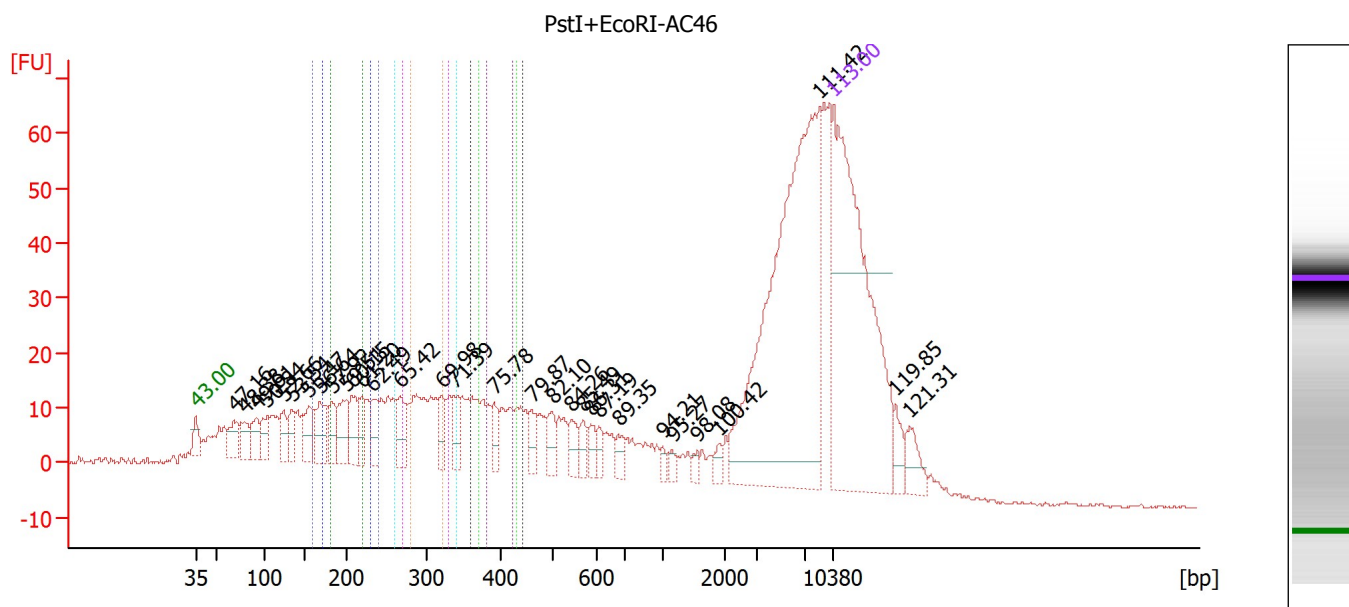
... Region table for sample 9 :

**PstI+EcoRI-AC50**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	220	17.8	3	198	5.8	122.27	939.4	
260	340	15.6	2	297	8.1	95.79	493.2	
270	330	11.2	2	299	6.0	68.67	350.3	
280	320	7.3	1	299	3.9	44.79	227.3	
360	440	15.4	2	398	5.7	84.70	324.3	
370	430	11.8	2	397	4.4	64.81	247.9	
380	420	7.6	1	398	2.9	41.84	159.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****Overall Results for sample 10 : PstI+EcoRI-AC46**

Number of peaks found:	31	Corr. Area 5:	89.6
Noise:	0.3	Corr. Area 6:	60.4
Corr. Area 1:	128.2	Corr. Area 7:	85.0
Corr. Area 2:	97.2	Corr. Area 8:	62.5
Corr. Area 3:	65.6	Corr. Area 9:	41.7
Corr. Area 4:	120.2		

**Peak table for sample 10 : PstI+EcoRI-AC46**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	8.37	185.9	
3	80	6.91	131.0	
4	92	8.20	135.6	
5	104	7.75	113.1	
6	124	7.31	89.4	
7	134	6.49	73.6	
8	155	9.93	97.1	
9	168	13.05	117.7	
10	182	7.36	61.1	
11	200	11.85	89.8	
12	207	9.25	67.6	
13	219	6.94	48.0	
14	234	7.09	46.0	
15	267	8.65	49.1	
16	320	5.87	27.8	
17	337	5.84	26.3	
18	391	4.63	18.0	
19	458	4.70	15.5	
20	497	5.34	16.3	
21	543	4.46	12.4	










Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****... Peak table for sample 10 : PstI+EcoRI-AC46**

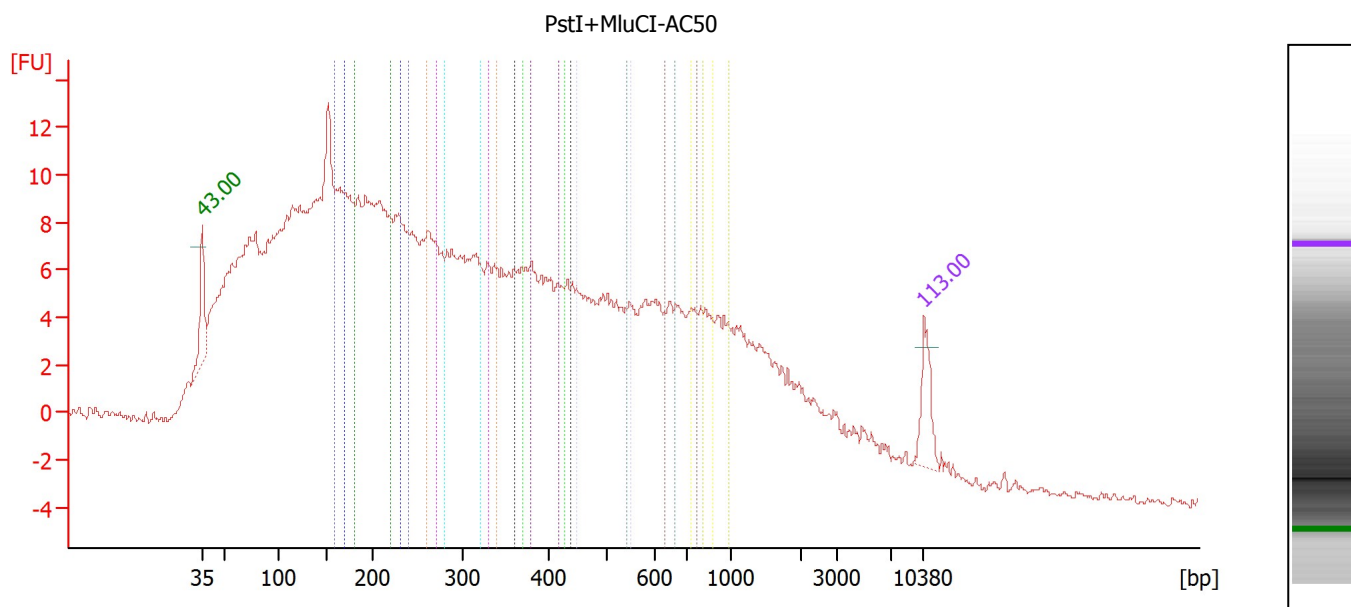
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	569	3.77	10.0	
23	587	3.29	8.5	
24	609	2.72	6.8	
25	677	3.25	7.3	
26	997	1.59	2.4	
27	1,148	1.42	1.9	
28	1,560	1.50	1.5	
29	1,904	2.17	1.7	
30	8,717	107.30	18.6	
31	10,380	75.00	10.9	Upper Marker
32	17,584	0.00	0.0	
33	19,124	0.00	0.0	

**Region table for sample 10 : PstI+EcoRI-AC46**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	128.2	11	200	11.4	68.48	528.0	
170	230	97.2	8	200	8.7	51.83	396.9	
180	220	65.6	5	200	5.9	34.94	266.3	
260	340	120.2	10	299	7.8	57.15	292.2	
270	330	89.6	7	299	5.8	42.58	216.8	
280	320	60.4	5	299	3.9	28.72	145.9	
360	440	85.0	7	395	5.8	36.35	140.3	
370	430	62.5	5	396	4.3	26.62	102.2	
380	420	41.7	3	397	2.9	17.70	67.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Electropherogram Summary Continued ...****Overall Results for sample 11 : PstI+MluCI-AC50**

Number of peaks found:	0	Corr. Area 7:	50.1
Noise:	0.1	Corr. Area 8:	37.5
Corr. Area 1:	107.7	Corr. Area 9:	24.4
Corr. Area 2:	81.1	Corr. Area 10:	38.5
Corr. Area 3:	54.5	Corr. Area 11:	32.6
Corr. Area 4:	36.7	Corr. Area 12:	21.7
Corr. Area 5:	54.9	Corr. Area 13:	14.6
Corr. Area 6:	73.4	Corr. Area 14:	15.6

**Peak table for sample 11 : PstI+MluCI-AC50**

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 : PstI+MluCI-AC50**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	240	107.7	18	198	11.6	2,601.82	20,277.5	Blue
170	230	81.1	13	199	8.7	1,953.60	15,048.8	Blue
180	220	54.5	9	199	5.9	1,309.38	10,004.4	Green
260	340	73.4	12	298	7.8	1,575.84	8,098.9	Orange
270	330	54.9	9	299	5.9	1,177.56	6,005.6	Pink
280	320	36.7	6	299	3.9	787.52	3,998.0	Cyan
360	440	50.1	8	395	5.8	966.18	3,723.2	Black
370	430	37.5	6	396	4.4	719.02	2,756.5	Green
380	420	24.4	4	397	2.9	465.85	1,778.9	Purple
450	550	38.5	6	496	5.8	720.97	2,211.6	Light Blue
540	660	32.6	5	593	5.7	573.77	1,471.8	Dark Blue
630	770	21.7	4	685	5.6	384.04	852.8	Brown
720	880	14.6	2	795	5.9	252.90	484.3	Yellow

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

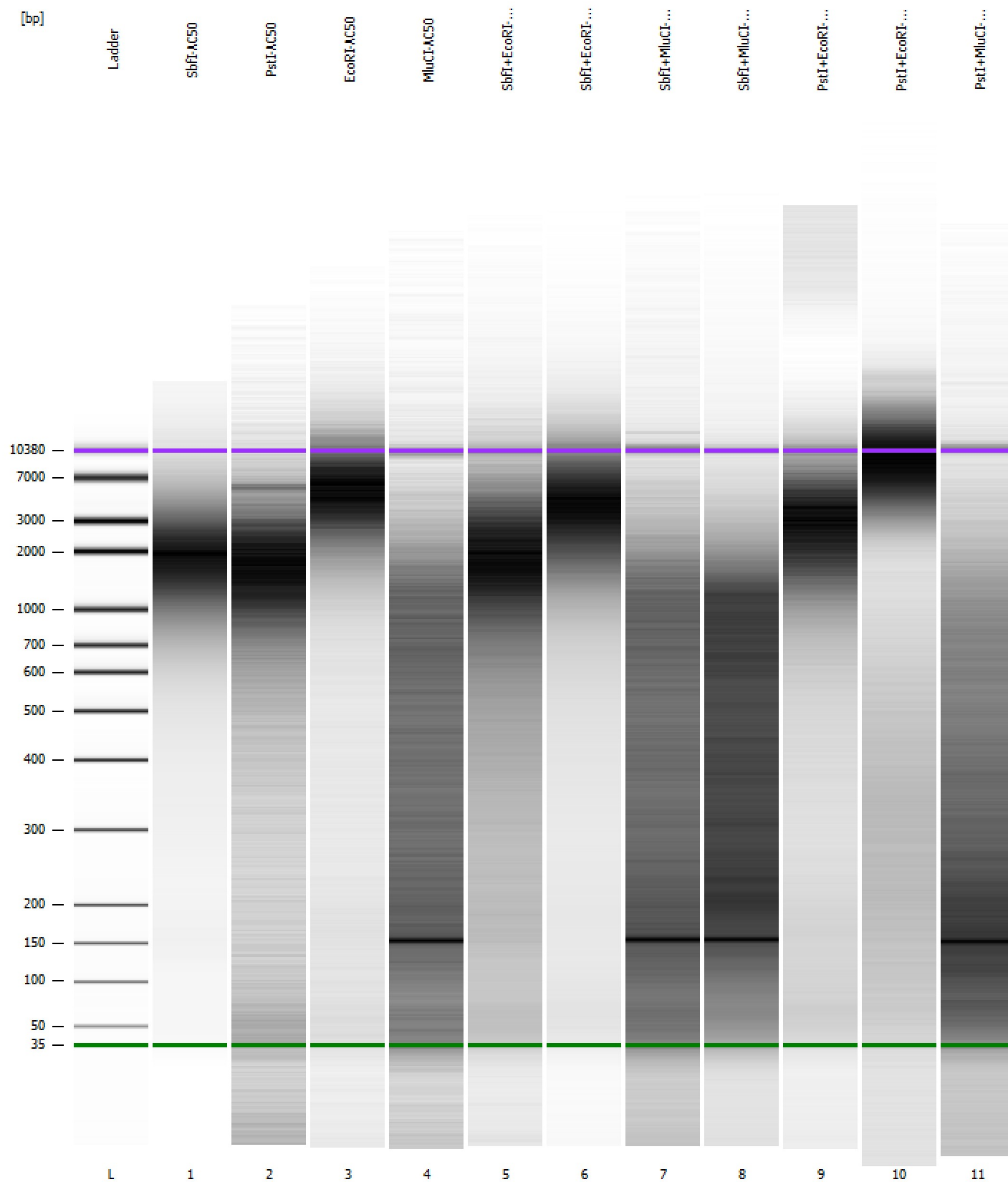
**Electropherogram Summary Continued ...****... Region table for sample 11 :****PstI+MluCI-AC50**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
810	990	15.6	3	896	5.9	257.08	436.3	



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
Modified: 5/13/2014 9:54:13 AM

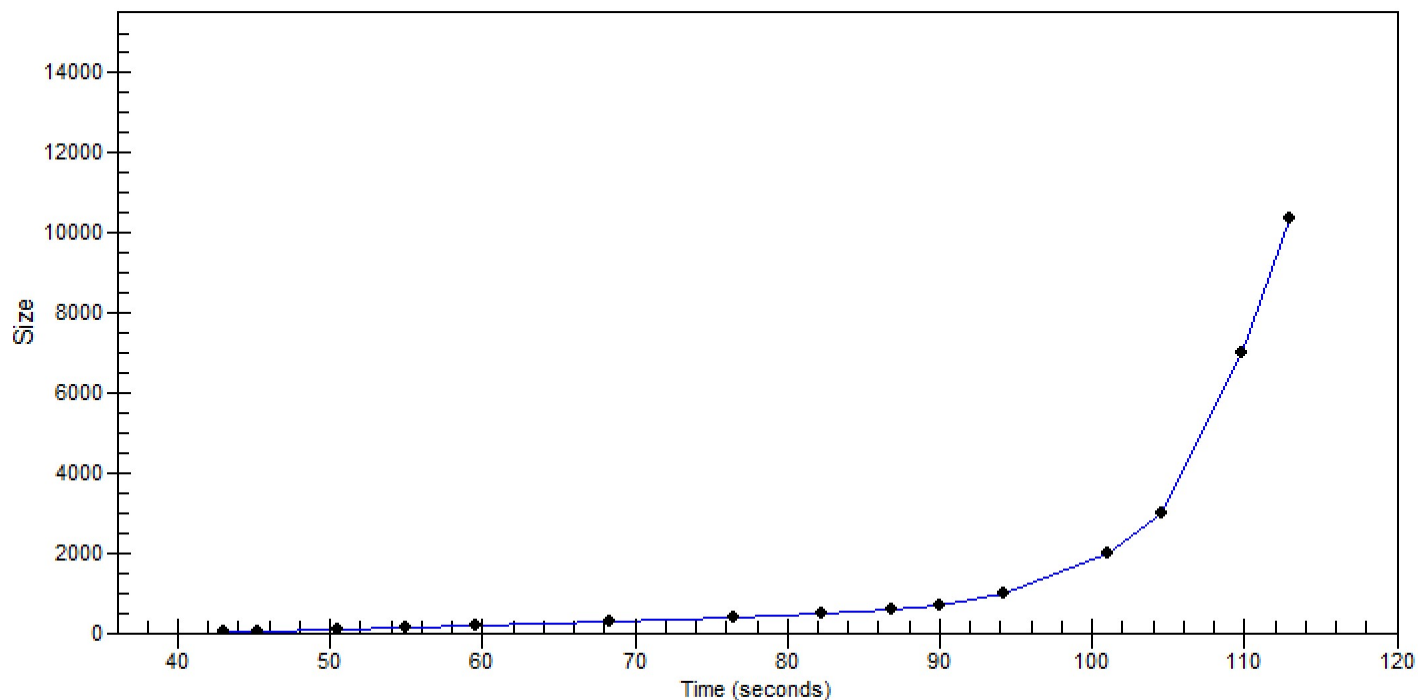
**Gel Image**

Assay Class: High Sensitivity DNA Assay

Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM

Modified: 5/13/2014 9:54:13 AM

**Curves****Standard Curve**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...-17\_14-18-46\_APCL Edited\_Pinsky\_HS\_DNA Assay\_DE04103186.xad

Created: 1/17/2014 2:18:46 PM  
 Modified: 5/13/2014 9:54:13 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 4 (Number of wells acquired: 12)		Instrument	Run		1/17/2014 3:00:05 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Run started on port 4 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2014-01-17\2100 expert_High Sensitivity DNA Assay_DE04103186_2014-01-17_14-18-46.xad)		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Product Number : G2939A		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Name :		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Vendor : Agilent Technologies		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Serial# : DE04103186		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Firmware : C.01.069		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Cartridge : Electrode		Instrument	Run		1/17/2014 2:18:51 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP