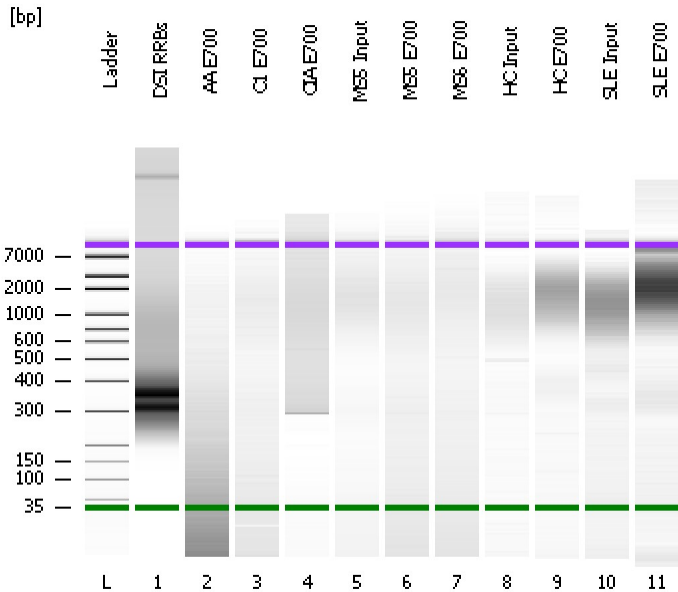


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
Modified: 12/9/2013 1:15:05 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

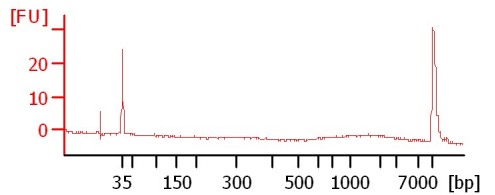
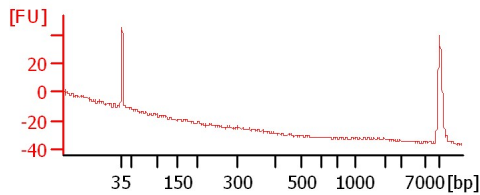
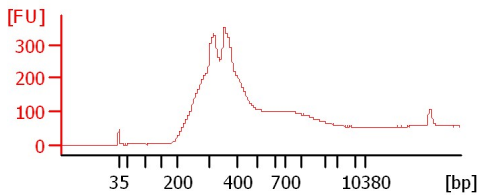
Chip Information:

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

DSI RRBs

AA E700

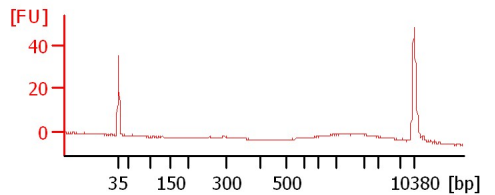
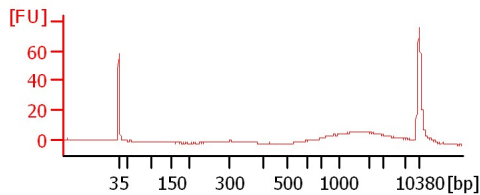
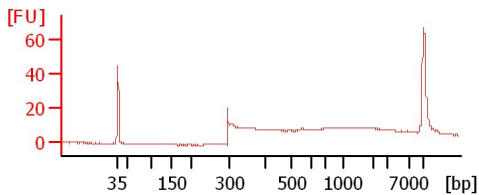
C1 E700



CIA E700

MS5 Input

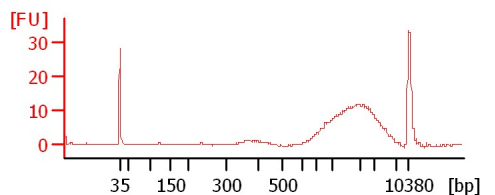
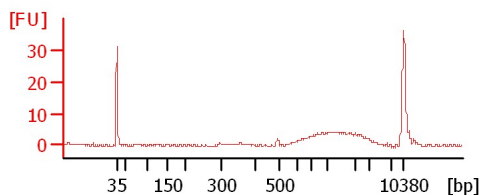
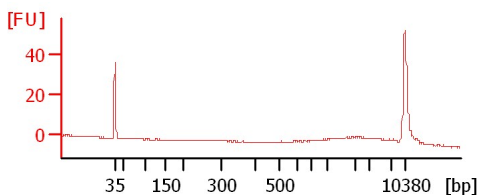
MS5 E700



MS6 E700

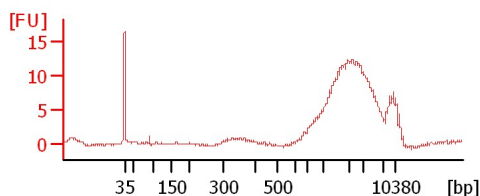
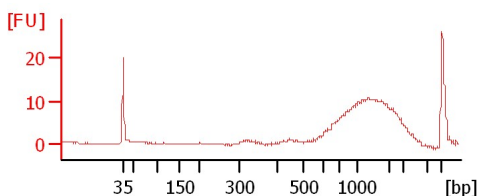
HC Input

HC E700



SLE Input

SLE E700



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DSI RRBs		<input type="checkbox"/>	✓			
AA E700		<input type="checkbox"/>	✓			
C1 E700		<input type="checkbox"/>	✓			
CIA E700		<input type="checkbox"/>	✓			
MS5 Input		<input type="checkbox"/>	✓			
MS5 E700		<input type="checkbox"/>	✓			
MS6 E700		<input type="checkbox"/>	✓			
HC Input		<input type="checkbox"/>	✓			
HC E700		<input type="checkbox"/>	✓			
SLE Input		<input type="checkbox"/>	✓			
SLE E700		<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\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
Modified: 12/9/2013 1:15:05 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

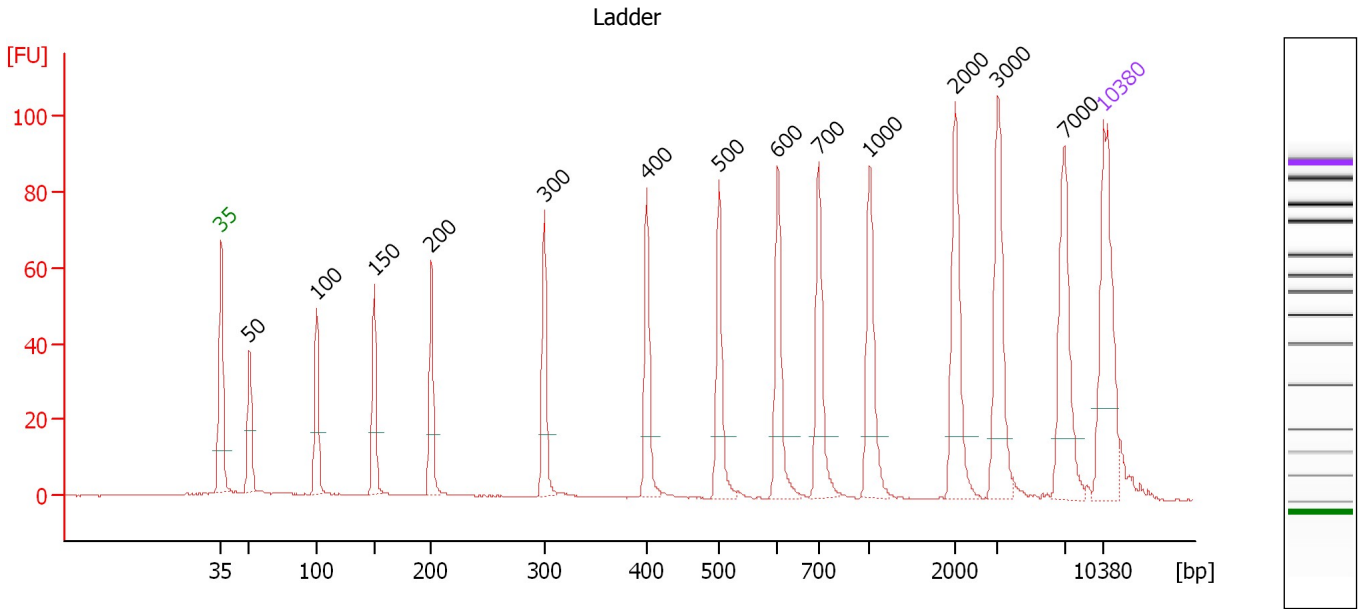
Ladder

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\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

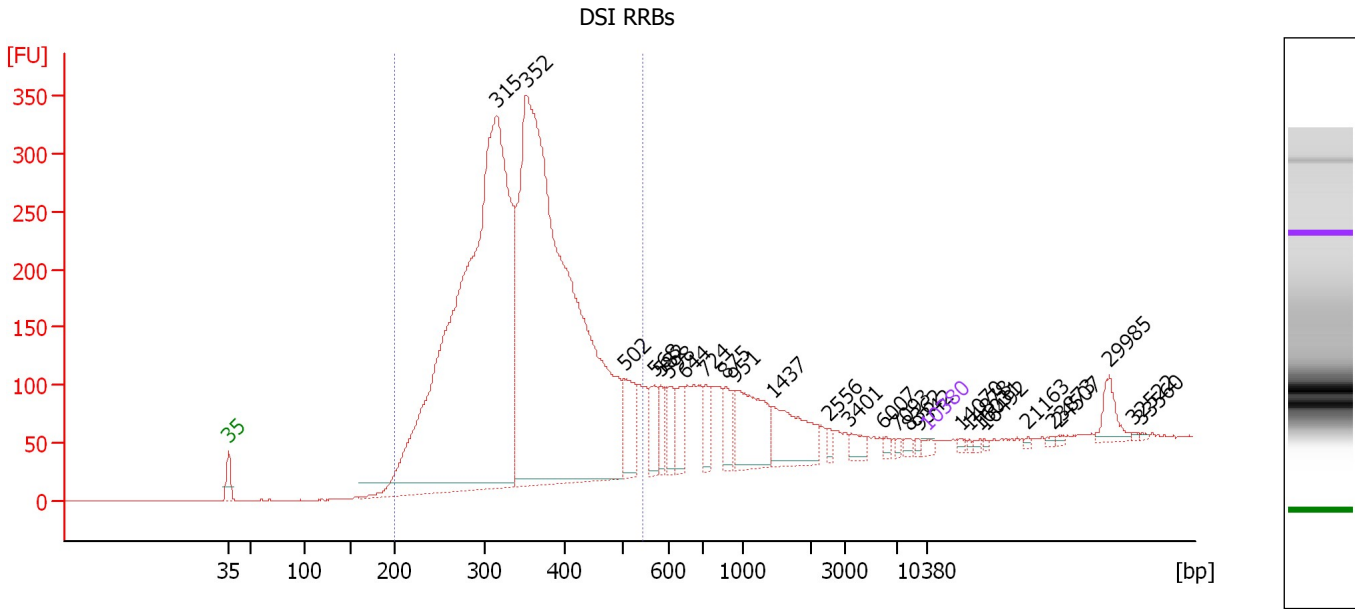
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.24	50	150.00	4,545.5	Ladder Peak
3	50.57	100	150.00	2,272.7	Ladder Peak
4	55.14	150	150.00	1,515.2	Ladder Peak
5	59.66	200	150.00	1,136.4	Ladder Peak
6	68.63	300	150.00	757.6	Ladder Peak
7	76.75	400	150.00	568.2	Ladder Peak
8	82.50	500	150.00	454.5	Ladder Peak
9	87.16	600	150.00	378.8	Ladder Peak
10	90.41	700	150.00	324.7	Ladder Peak
11	94.43	1,000	150.00	227.3	Ladder Peak
12	101.24	2,000	150.00	113.6	Ladder Peak
13	104.63	3,000	150.00	75.8	Ladder Peak
14	109.87	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DSI RRBs

Number of peaks found: 27 Corr. Area 1: 4,943.4
 Noise: 0.1

Peak table for sample 1 : DSI RRBs

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	69.86	315	20,181.29	97,042.3	
3	72.85	352	19,223.46	82,765.3	
4	82.62	502	914.03	2,756.3	
5	85.66	568	504.53	1,346.1	
6	86.30	582	404.80	1,054.5	
7	87.05	598	500.50	1,268.7	
8	88.60	644	471.51	1,108.9	
9	90.73	724	436.32	913.2	
10	92.76	875	473.37	819.3	
11	93.78	951	1,326.43	2,112.9	
12	97.41	1,437	1,080.59	1,139.2	
13	103.12	2,556	97.76	58.0	
14	105.15	3,401	189.54	84.4	
15	108.57	6,007	62.29	15.7	
16	109.96	7,093	52.21	11.2	
17	111.13	8,362	74.10	13.4	
18	112.04	9,342	47.18	7.7	
19	113.00	10,380	75.00	10.9	Upper Marker
20	116.42	14,070	0.00	0.0	
21	117.16	14,878	0.00	0.0	
22	118.23	16,031	0.00	0.0	
23	118.66	16,492	0.00	0.0	
24	122.98	21,163	0.00	0.0	
25	125.49	23,873	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad


Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : DSI RRBs

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	126.08	24,507	0.00	0.0	
27	131.15	29,985	0.00	0.0	
28	133.50	32,522	0.00	0.0	
29	134.46	33,560	0.00	0.0	

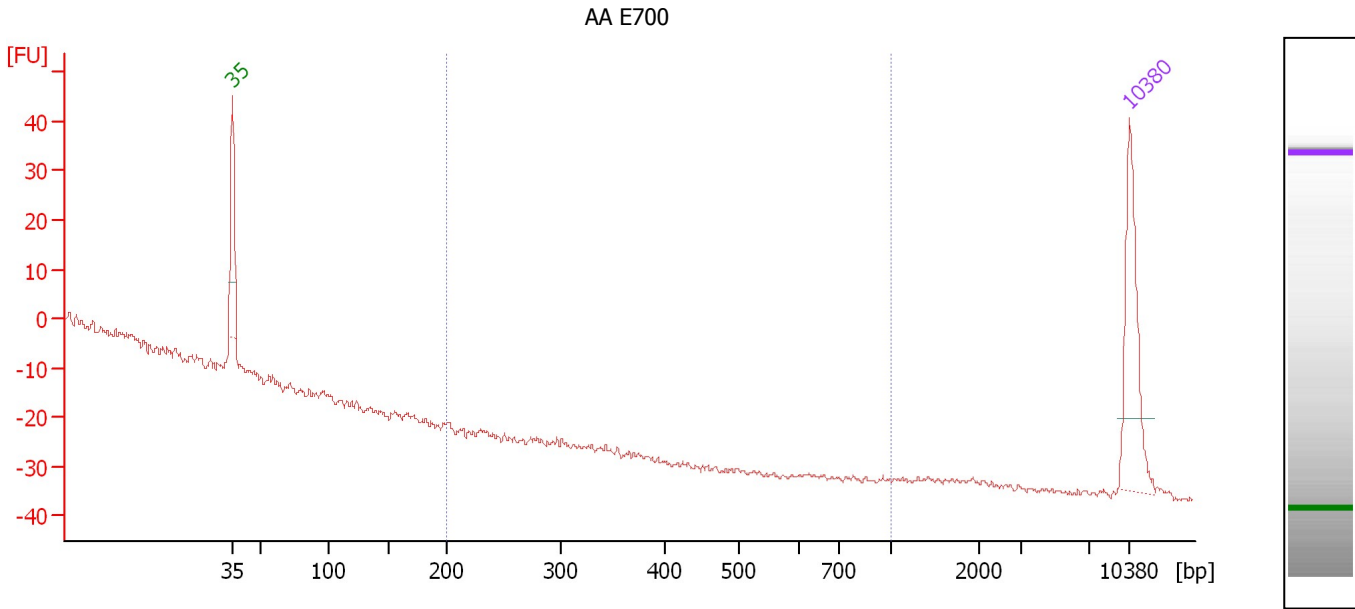
Region table for sample 1 : DSI RRBs

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	542	349	176,155.4	38,441.56	4,943.4	79	20.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AA E700

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.7

Peak table for sample 2 : AA E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

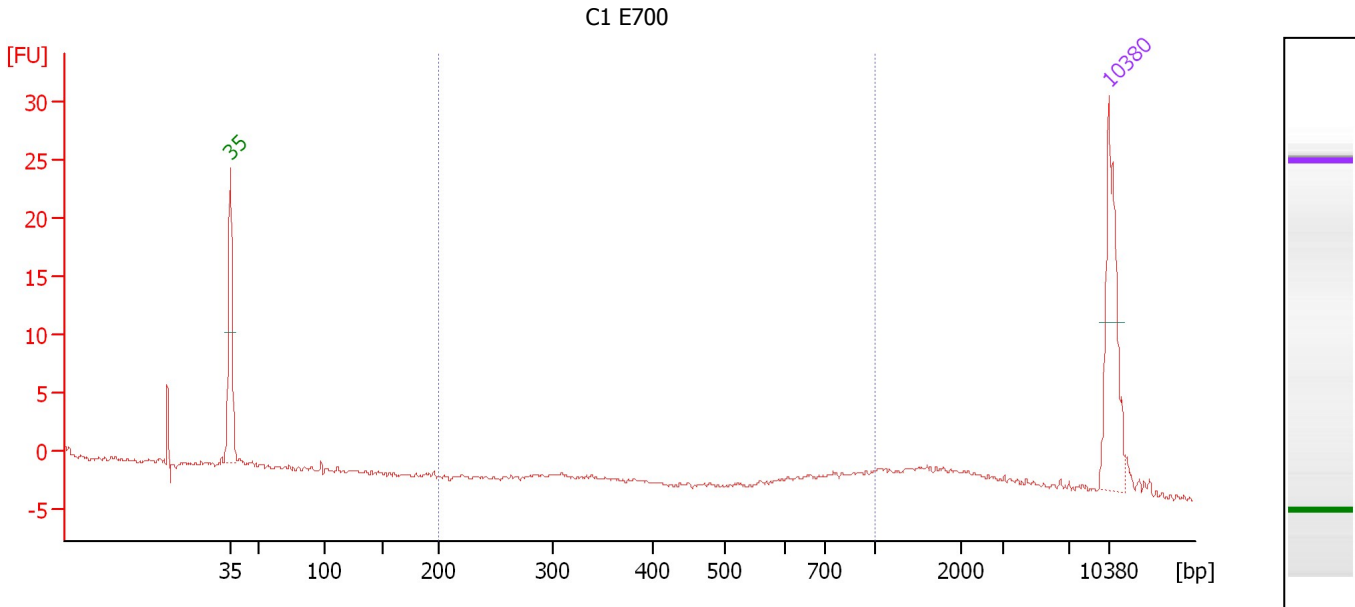
Region table for sample 2 : AA E700

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C1 E700

Number of peaks found: 0 Corr. Area 1: 6.8
 Noise: 0.2

Peak table for sample 3 : C1 E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

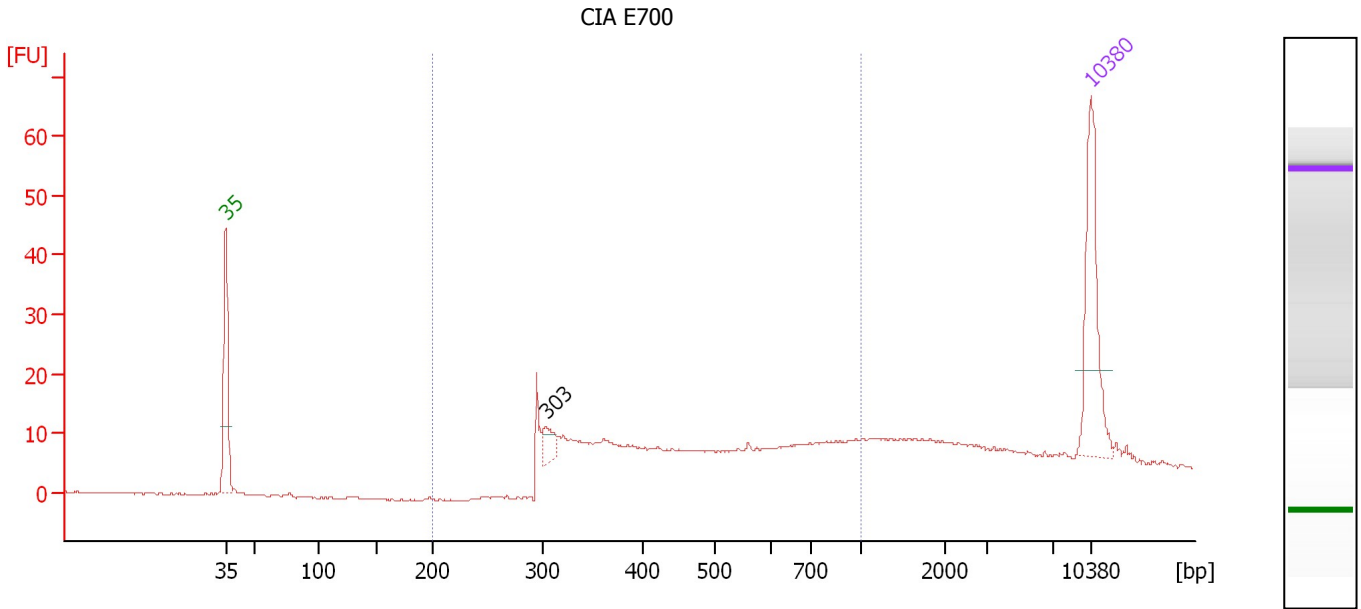
Region table for sample 3 : C1 E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	786	44.8	22.41	6.8	20	16.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CIA E700

Number of peaks found: 1 Corr. Area 1: 193.5
 Noise: 0.2

Peak table for sample 4 : CIA E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.89	303	19.24	96.2	
3	113.00	10,380	75.00	10.9	Upper Marker

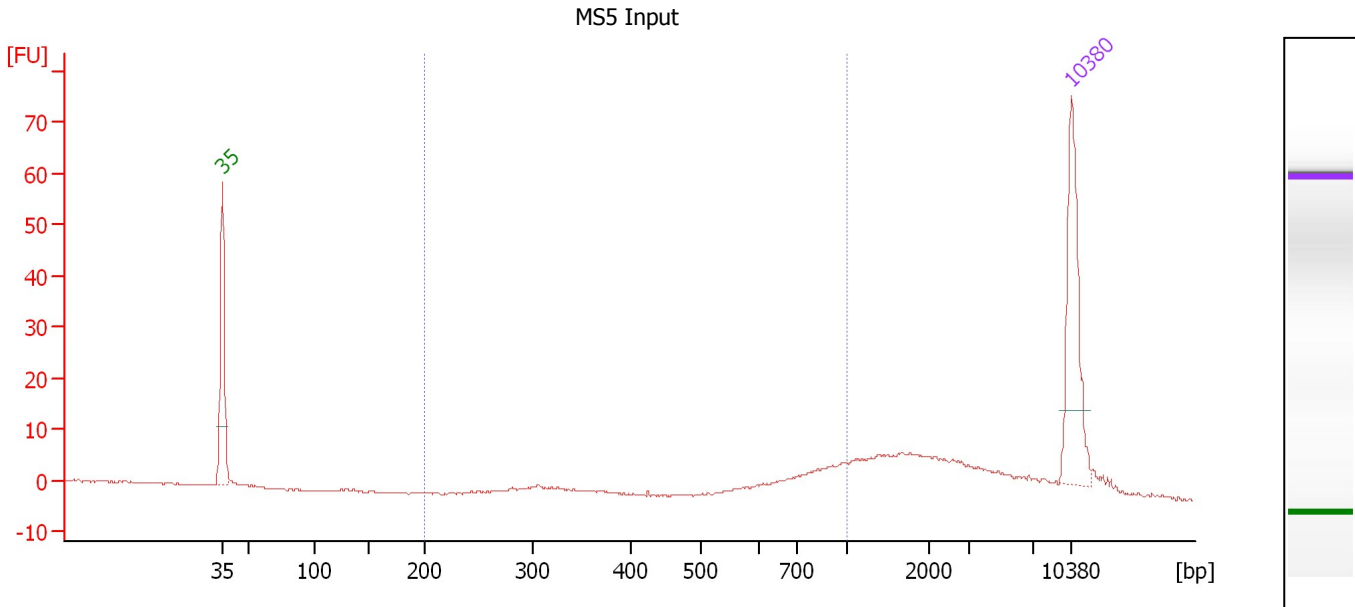
Region table for sample 4 : CIA E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	503	1,238.9	349.23	193.5	70	36.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MS5 Input

Number of peaks found: 0 Corr. Area 1: 31.2
 Noise: 0.2

Peak table for sample 5 : MS5 Input

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

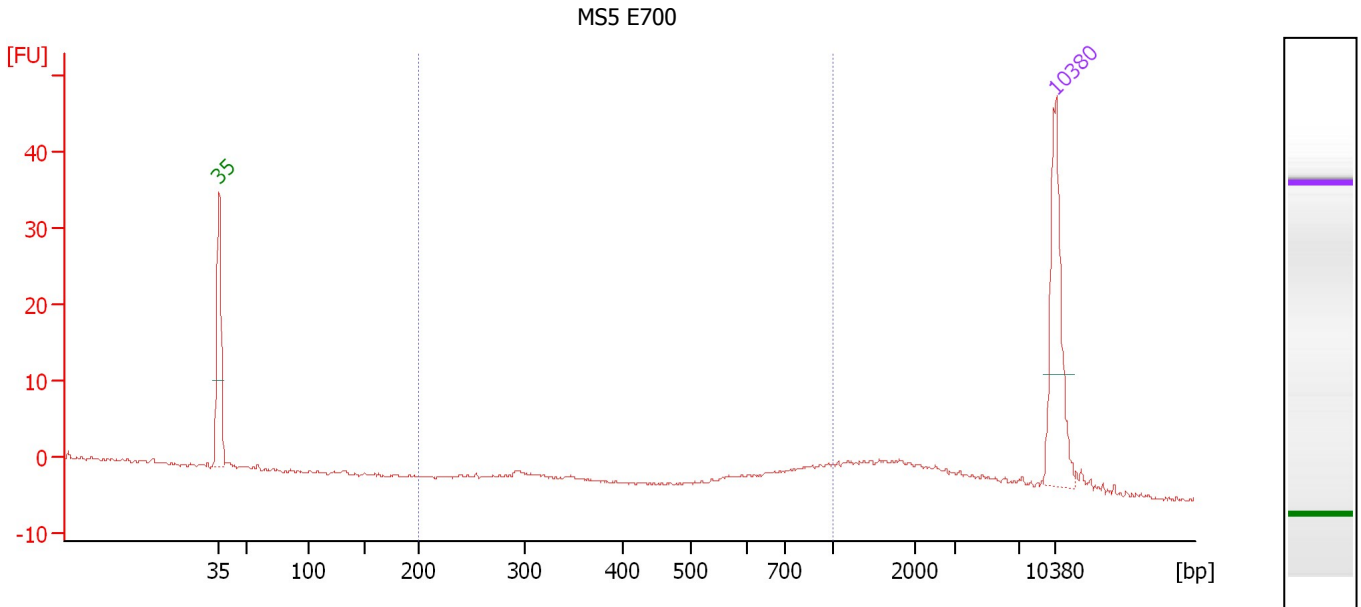
Region table for sample 5 : MS5 Input

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	785	81.7	40.03	31.2	21	17.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MS5 E700

Number of peaks found: 0 Corr. Area 1: 21.0
 Noise: 0.2

Peak table for sample 6 : MS5 E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

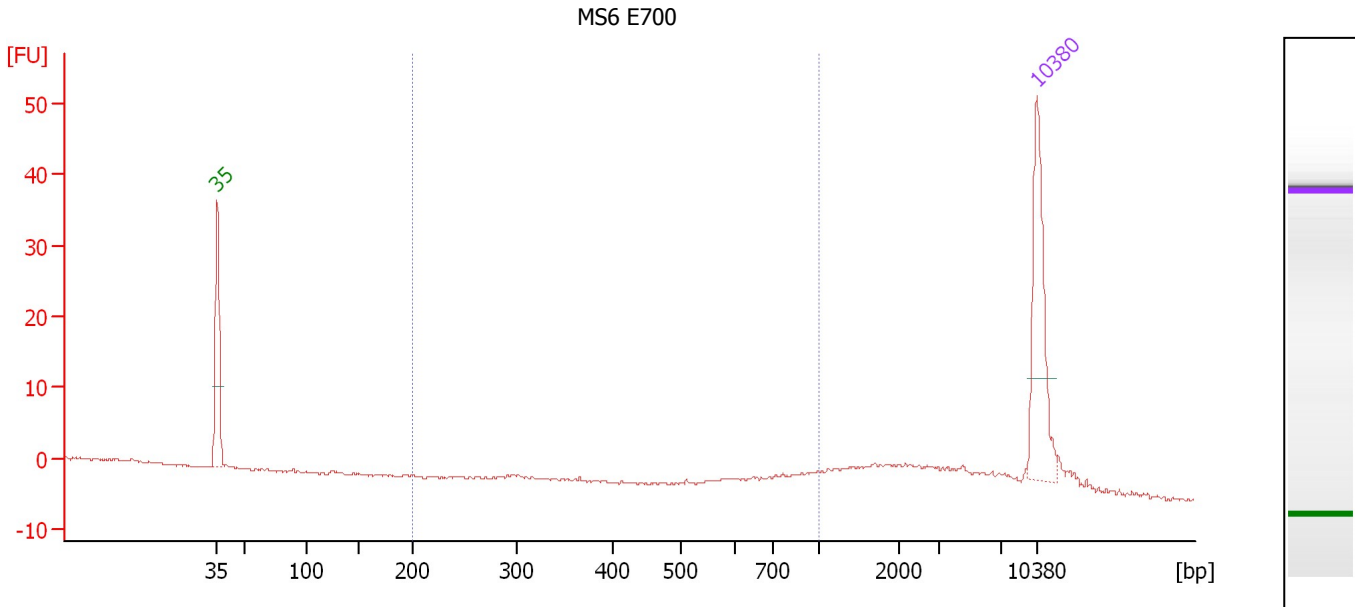
Region table for sample 6 : MS5 E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	739	98.6	42.93	21.0	27	22.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MS6 E700

Number of peaks found: 0 Corr. Area 1: 9.8
 Noise: 0.2

Peak table for sample 7 : MS6 E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

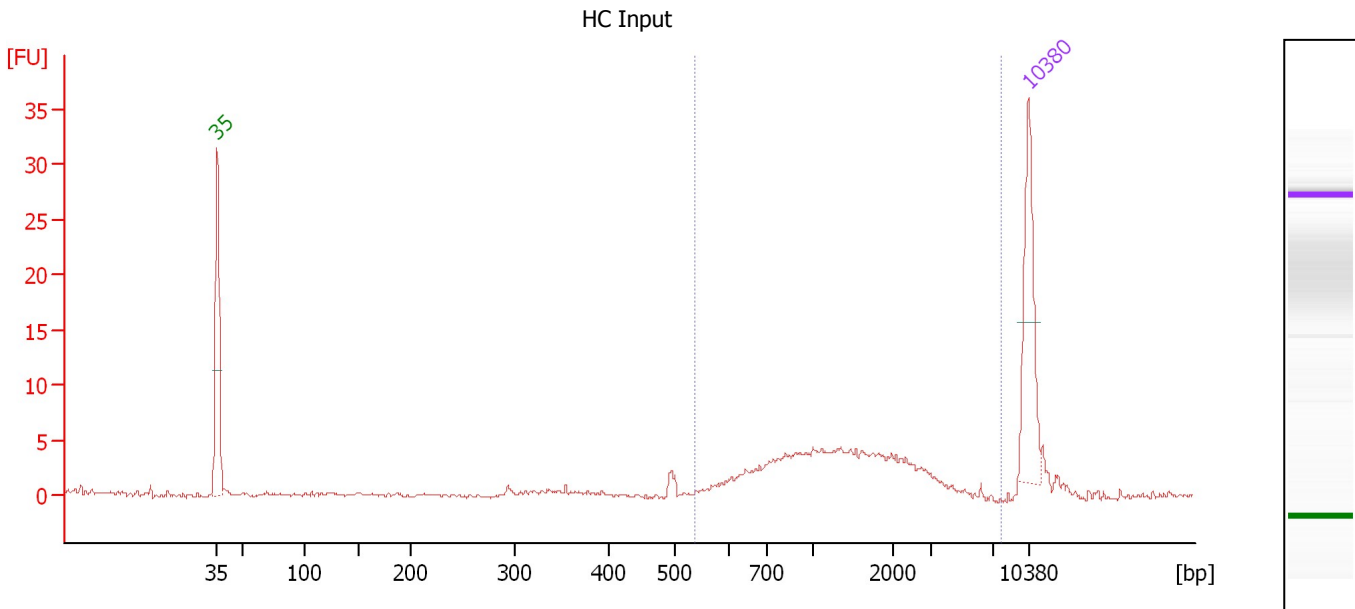
Region table for sample 7 : MS6 E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	783	34.8	17.39	9.8	14	17.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HC Input

Number of peaks found: 0 Corr. Area 1: 60.4
 Noise: 0.1

Peak table for sample 8 : HC Input

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

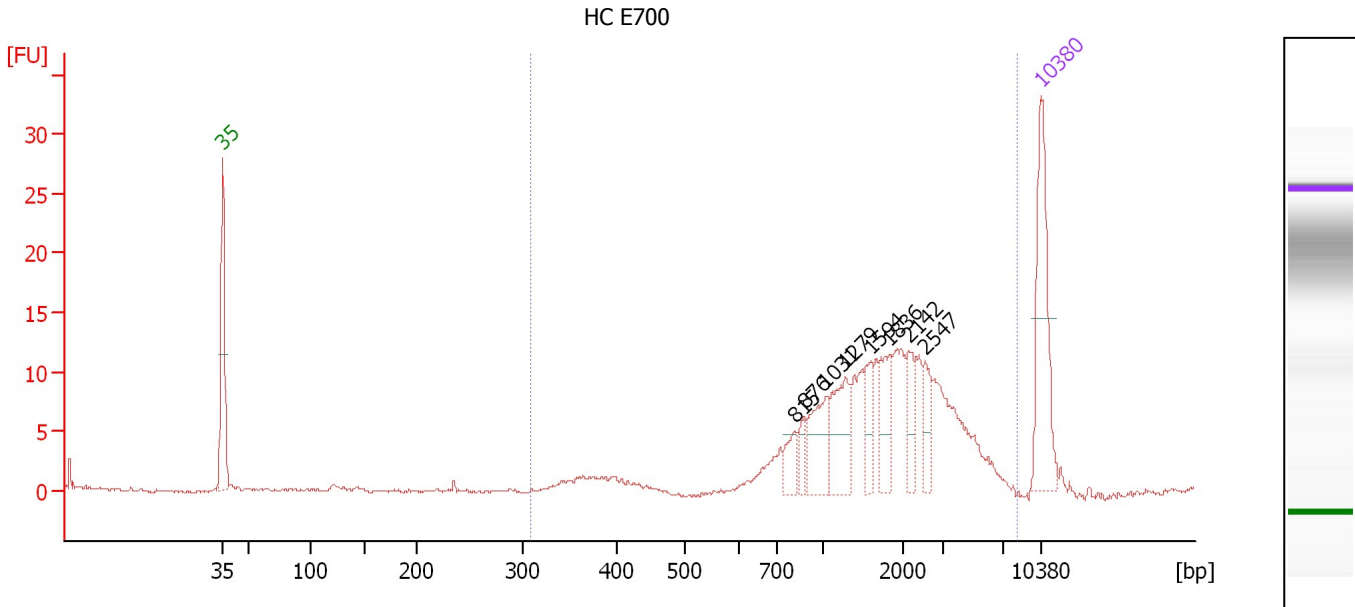
Region table for sample 8 : HC Input

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
537	7,766	1,488	245.5	180.51	60.4	90	55.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HC E700

Number of peaks found: 8 Corr. Area 1: 159.2
 Noise: 0.1

Peak table for sample 9 : HC E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	91.95	815	18.54	34.5	
3	92.77	876	11.46	19.8	
4	94.64	1,031	38.80	57.0	
5	96.33	1,279	44.99	53.3	
6	98.48	1,594	19.81	18.8	
7	100.12	1,836	30.49	25.2	
8	101.72	2,142	22.08	15.6	
9	103.09	2,547	19.57	11.6	
10	113.00	10,380	75.00	10.9	Upper Marker

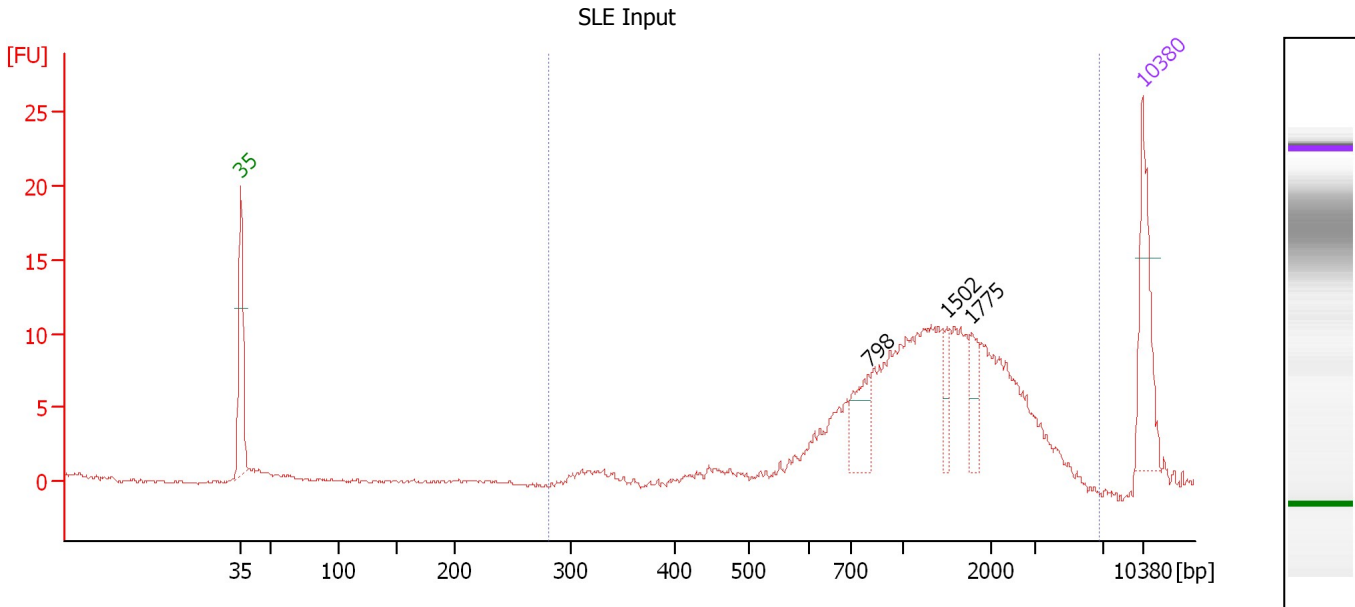
Region table for sample 9 : HC E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
309	8,168	2,021	503.4	427.20	159.2	99	62.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SLE Input

Number of peaks found: 3 Corr. Area 1: 151.0
 Noise: 0.1

Peak table for sample 10 : SLE Input

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	91.72	798	49.13	93.3	
3	97.85	1,502	25.35	25.6	
4	99.71	1,775	27.24	23.2	
5	113.00	10,380	75.00	10.9	Upper Marker

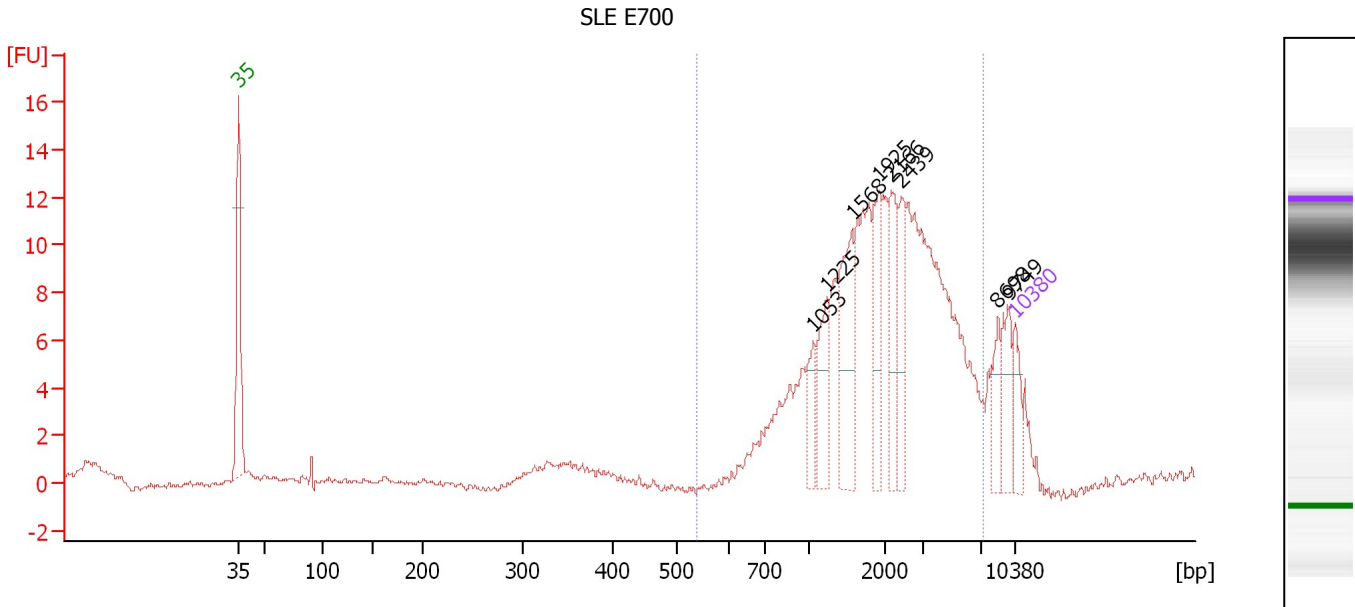
Region table for sample 10 : SLE Input

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	6,869	1,508	860.0	631.31	151.0	99	53.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
 Modified: 12/9/2013 1:15:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SLE E700

Number of peaks found: 8 Corr. Area 1: 142.6
 Noise: 0.1

Peak table for sample 11 : SLE E700

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	94.79	1,053	78.07	112.3	
3	95.96	1,225	152.04	188.1	
4	98.30	1,568	259.64	250.9	
5	100.73	1,925	153.56	120.8	
6	101.80	2,166	152.51	106.7	
7	102.73	2,439	129.33	80.3	
8	111.44	8,698	80.03	13.9	
9	112.42	9,749	110.76	17.2	
10	113.00	10,380	75.00	10.9	Upper Marker

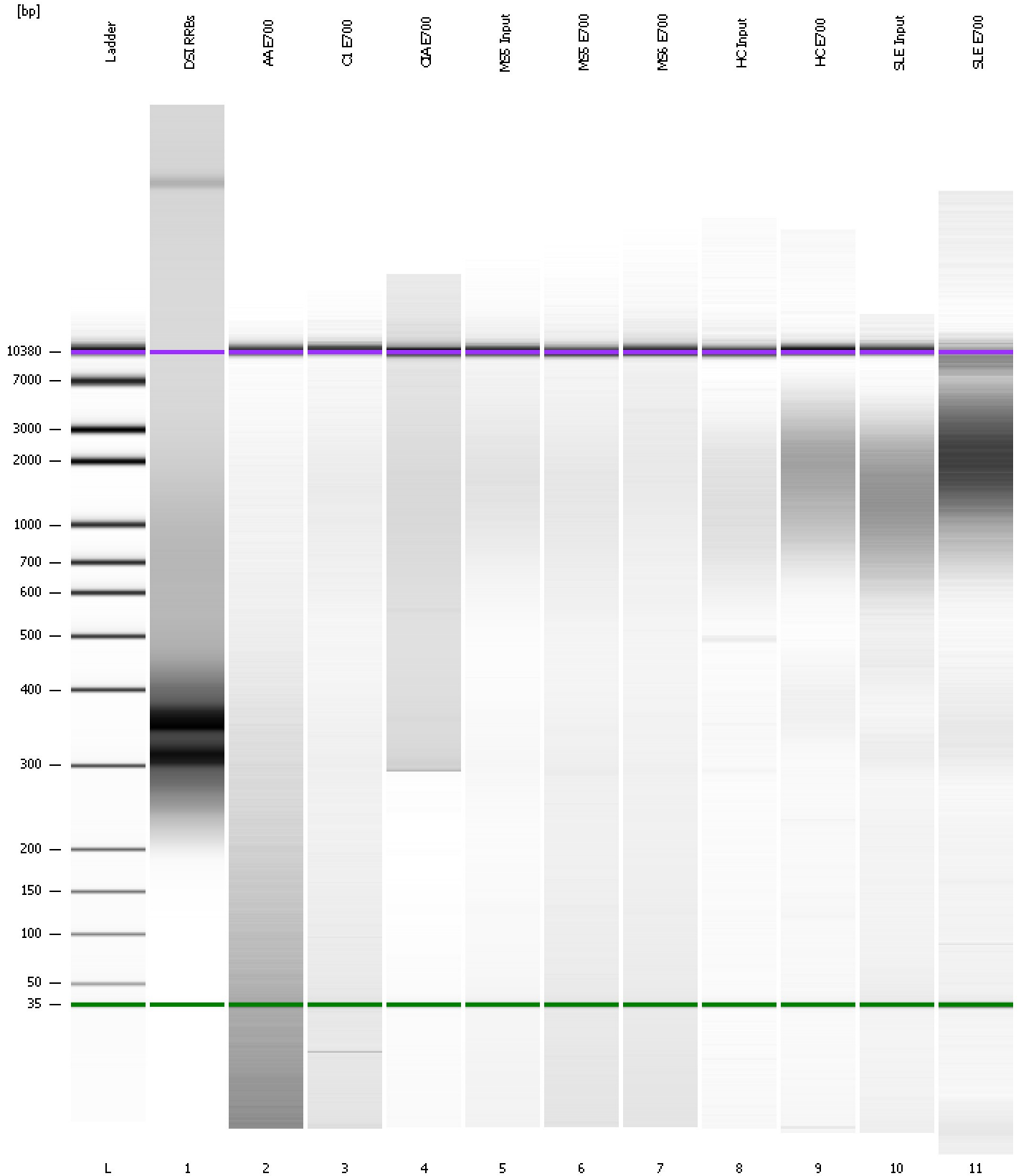
Region table for sample 11 : SLE E700

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
540	7,242	2,480	2,268.4	2,678.54	142.6	89	59.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
Modified: 12/9/2013 1:15:05 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-09\2013-12-09_004.xad

Created: 12/9/2013 12:33:44 PM
Modified: 12/9/2013 1:15:05 PM

Curves

Standard Curve

