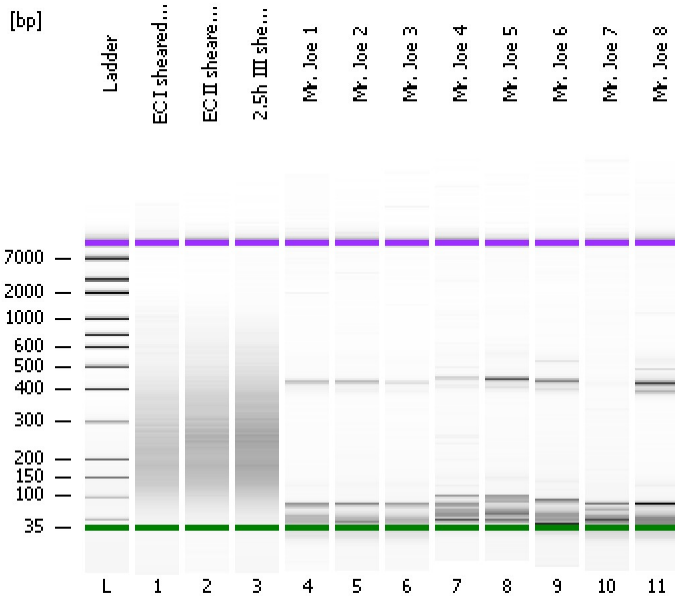


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
Modified: 8/3/2012 1:55:49 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

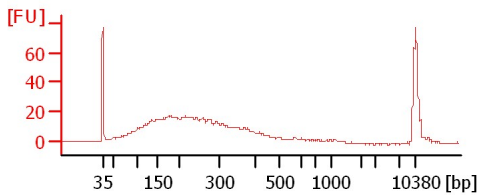
Chip Information:

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

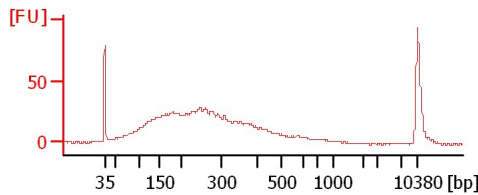
EC I sheared 8/2

EC II sheared 8/2

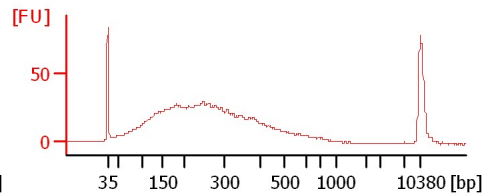
2.5h III sheared 8/2



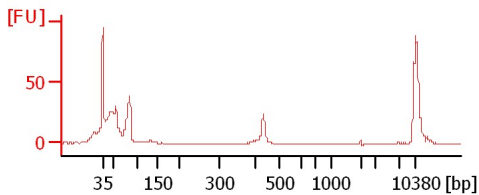
Mr. Joe 1



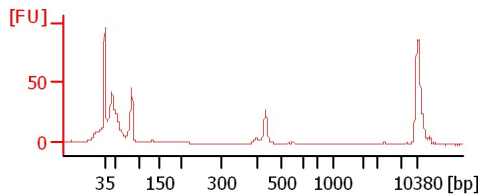
Mr. Joe 2



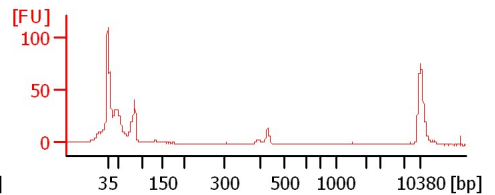
Mr. Joe 3



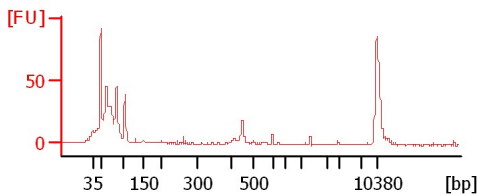
Mr. Joe 4



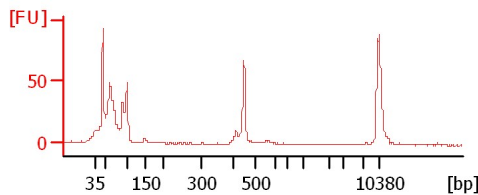
Mr. Joe 5



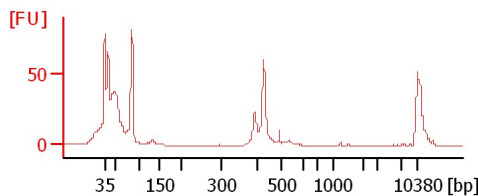
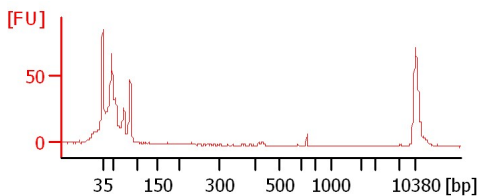
Mr. Joe 6



Mr. Joe 7



Mr. Joe 8



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
EC I sheared 8/2		<input type="checkbox"/>	✓			
EC II sheared 8/2		<input type="checkbox"/>	✓			
2.5h III sheared 8/2		<input type="checkbox"/>	✓			
Mr. Joe 1		<input type="checkbox"/>	✓			
Mr. Joe 2		<input type="checkbox"/>	✓			
Mr. Joe 3		<input type="checkbox"/>	✓			
Mr. Joe 4		<input type="checkbox"/>	✓			
Mr. Joe 5		<input type="checkbox"/>	✓			
Mr. Joe 6		<input type="checkbox"/>	✓			
Mr. Joe 7		<input type="checkbox"/>	✓			
Mr. Joe 8		<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\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
Modified: 8/3/2012 1:55:49 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

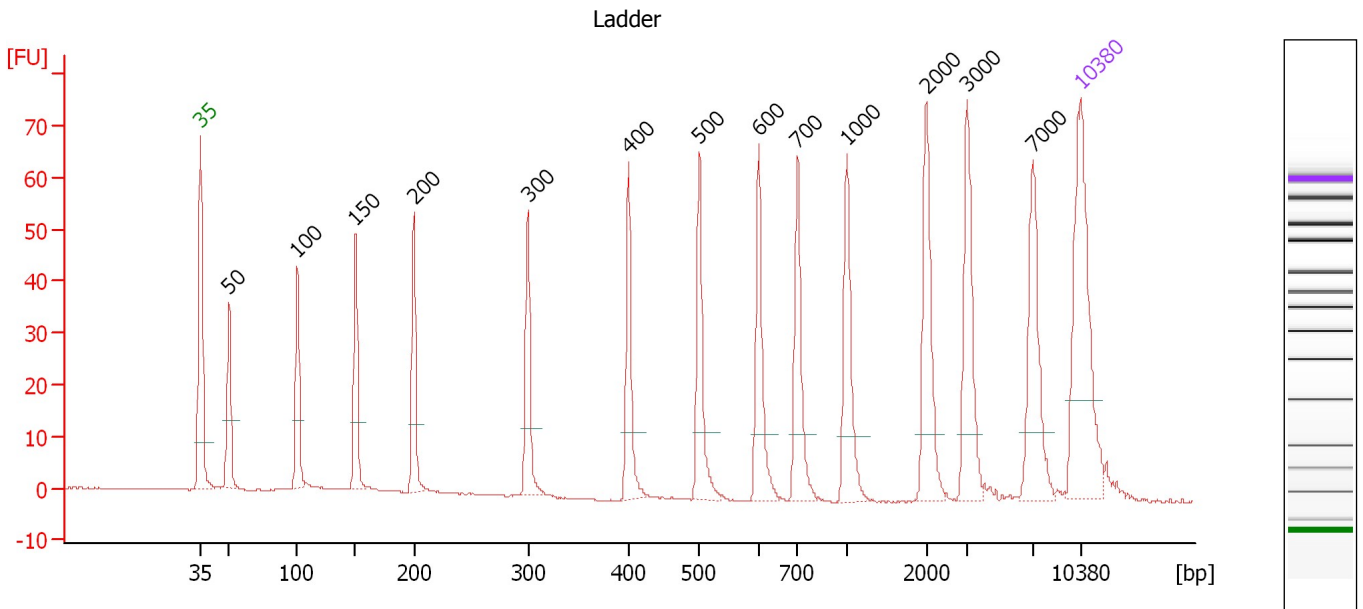
Ladder

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\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

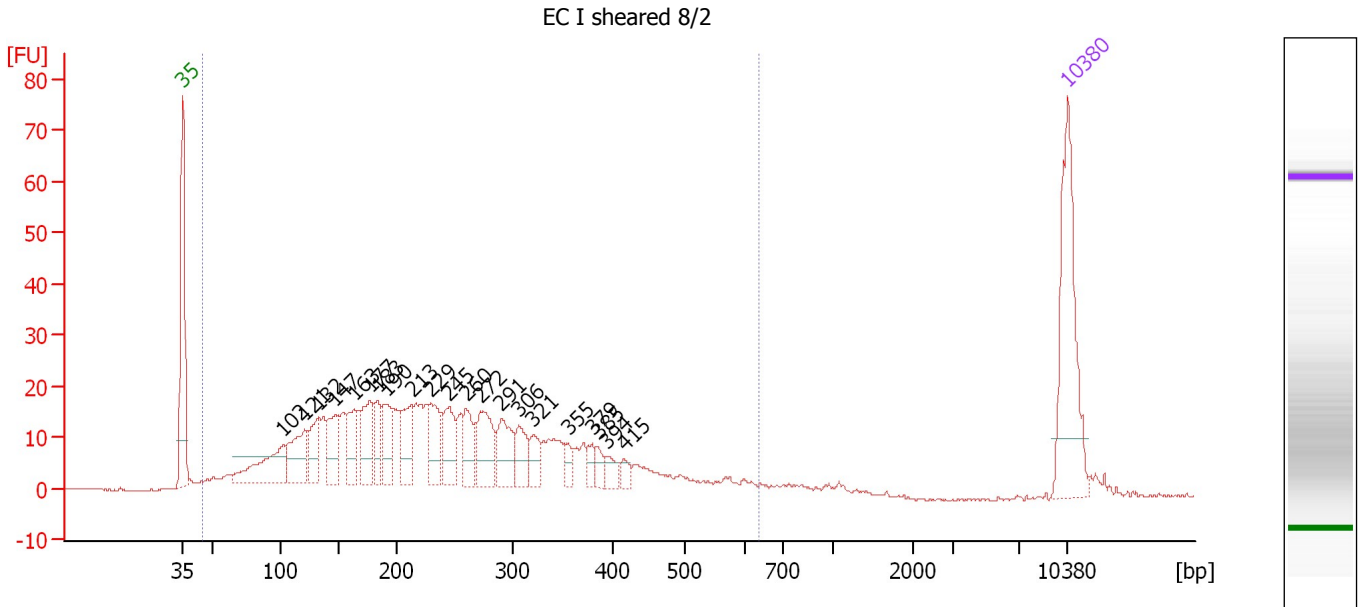
Peak table for Ladder

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\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EC I sheared 8/2

Number of peaks found: 21 Corr. Area 1: 695.0
 Noise: 0.2

Peak table for sample 1 : EC I sheared 8/2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	102	62.84	932.0	
3	121	51.22	642.6	
4	132	33.17	379.5	
5	147	38.81	400.4	
6	163	32.77	304.4	
7	177	43.48	372.9	
8	183	26.68	220.7	
9	190	37.68	300.2	
10	213	35.84	255.3	
11	229	36.59	242.3	
12	245	32.90	203.5	
13	260	26.71	155.9	
14	272	43.11	239.7	
15	291	35.58	185.3	
16	306	23.90	118.2	
17	321	16.63	78.5	
18	355	8.61	36.7	
19	379	8.78	35.0	
20	385	8.22	32.4	
21	394	9.01	34.7	
22	415	6.87	25.1	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...

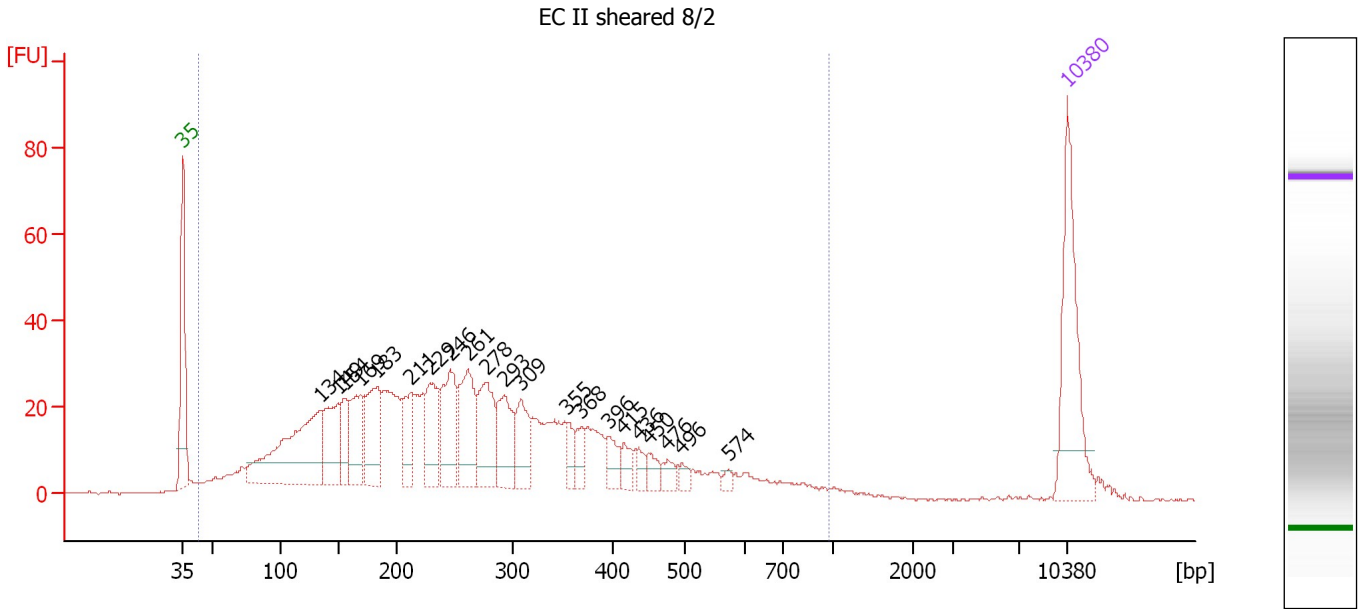
... Region table for sample 1 : EC I sheared 8/2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
45	639	247	8,616.3	999.16	695.0	97	45.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : EC II sheared 8/2

Number of peaks found: 21 Corr. Area 1: 1,135.9
 Noise: 0.1

Peak table for sample 2 : EC II sheared 8/2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	134	174.67	1,980.2	
3	149	64.99	661.1	
4	154	30.12	296.0	
5	169	59.32	533.3	
6	183	72.30	598.9	
7	211	36.84	264.1	
8	229	53.69	354.7	
9	246	65.77	404.4	
10	261	71.19	412.5	
11	278	62.32	339.6	
12	293	51.05	263.9	
13	309	39.17	192.2	
14	355	12.86	54.9	
15	368	16.54	68.0	
16	396	17.26	66.0	
17	415	11.41	41.7	
18	436	9.55	33.2	
19	450	10.63	35.8	
20	476	9.60	30.5	
21	496	7.11	21.7	
22	574	4.68	12.4	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...

... Region table for sample 2 : EC II sheared 8/2

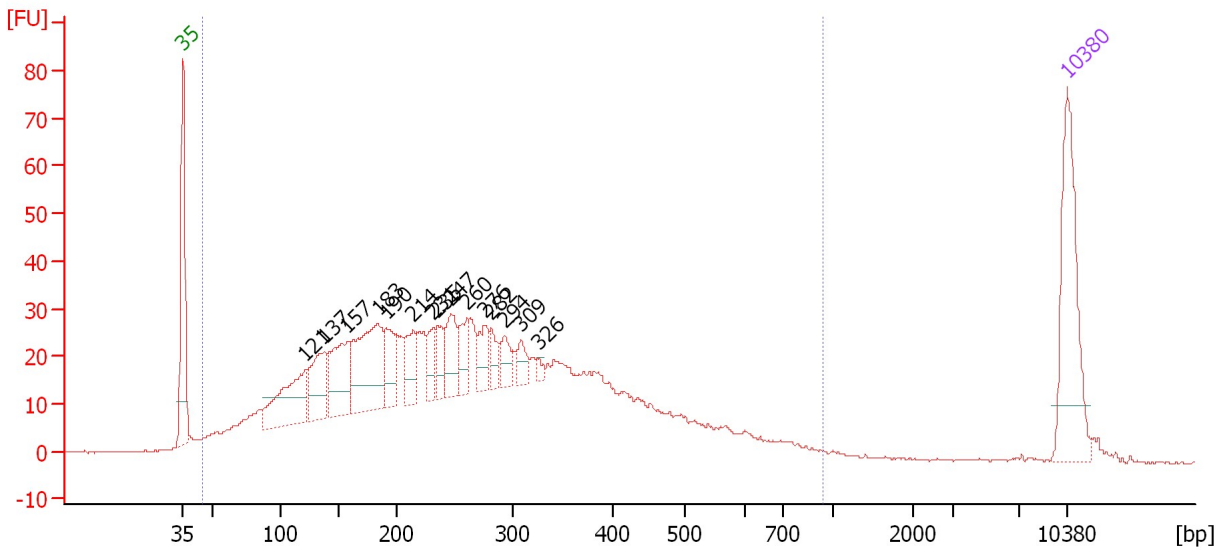
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
43	979	275	11,630.0	1,403.92	1,135.9	98	51.6	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...

2.5h III sheared 8/2



Overall Results for sample 3 : 2.5h III sheared 8/2

Number of peaks found: 15 Corr. Area 1: 1,210.3
 Noise: 0.2

Peak table for sample 3 : 2.5h III sheared 8/2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	84.25	1,052.4	
3	137	53.22	587.0	
4	157	69.29	669.2	
5	183	110.10	910.7	
6	190	38.71	308.7	
7	214	30.27	214.7	
8	231	18.82	123.4	
9	235	20.48	132.0	
10	247	36.28	222.2	
11	260	26.21	152.6	
12	276	22.60	124.0	
13	282	14.27	76.6	
14	294	16.64	85.9	
15	309	13.86	67.9	
16	326	4.05	18.8	
17	10,380	75.00	10.9	Upper Marker

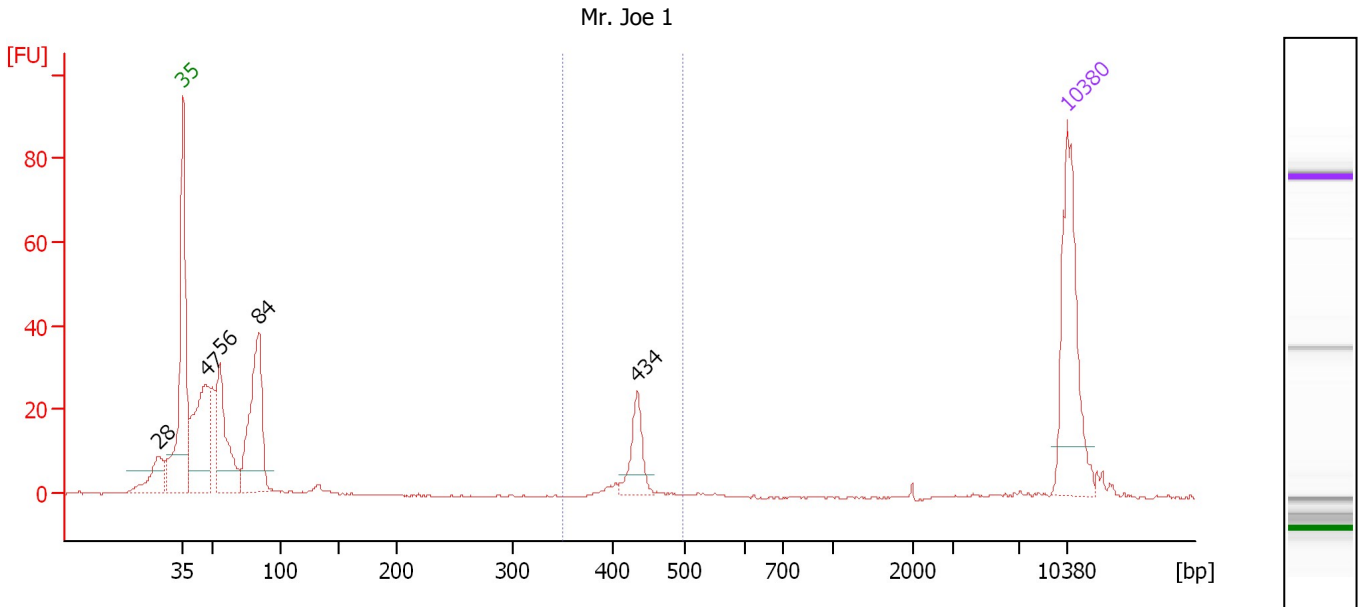
Region table for sample 3 : 2.5h III sheared 8/2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
45	947	274	12,978.3	1,577.92	1,210.3	99	49.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mr. Joe 1

Number of peaks found: 5 Corr. Area 1: 38.9
 Noise: 0.1

Peak table for sample 4 : Mr. Joe 1

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	47	122.20	3,959.8	
4	56	96.14	2,599.1	
5	84	132.03	2,368.8	
6	434	32.27	112.8	
7	10,380	75.00	10.9	Upper Marker

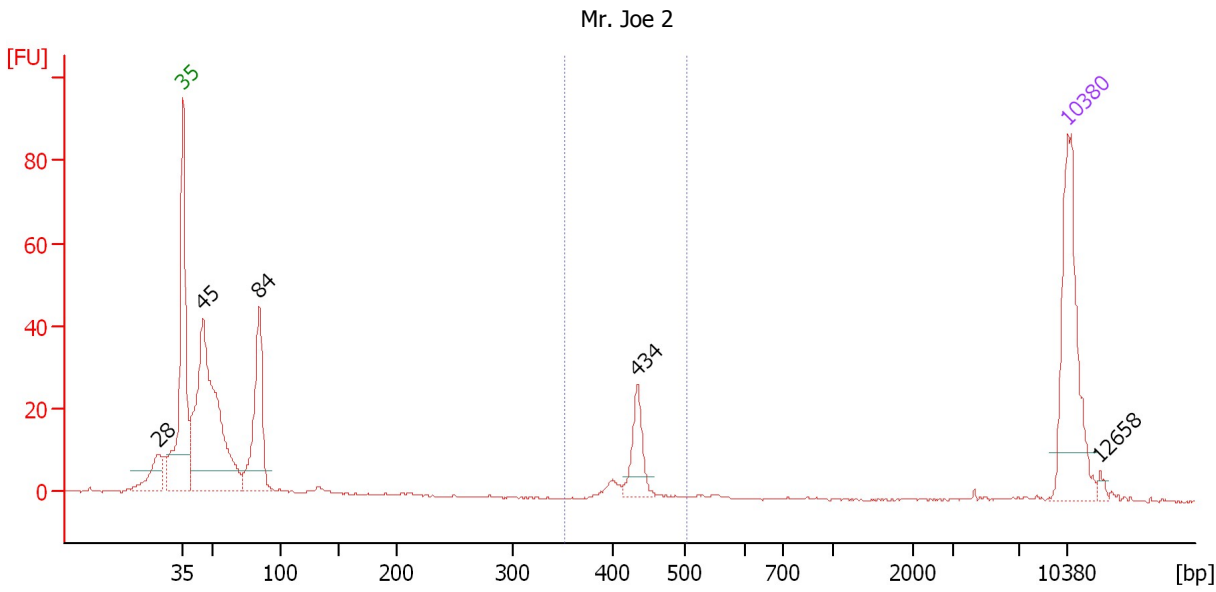
Region table for sample 4 : Mr. Joe 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
350	499	429	133.2	37.73	38.9	10	3.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Mr. Joe 2

Number of peaks found: 5 Corr. Area 1: 38.9
 Noise: 0.2

Peak table for sample 5 : Mr. Joe 2

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	45	264.65	8,829.1	
4	84	101.24	1,815.7	
5	434	30.76	107.4	
6	10,380	75.00	10.9	Upper Marker
7	12,658	0.00	0.0	

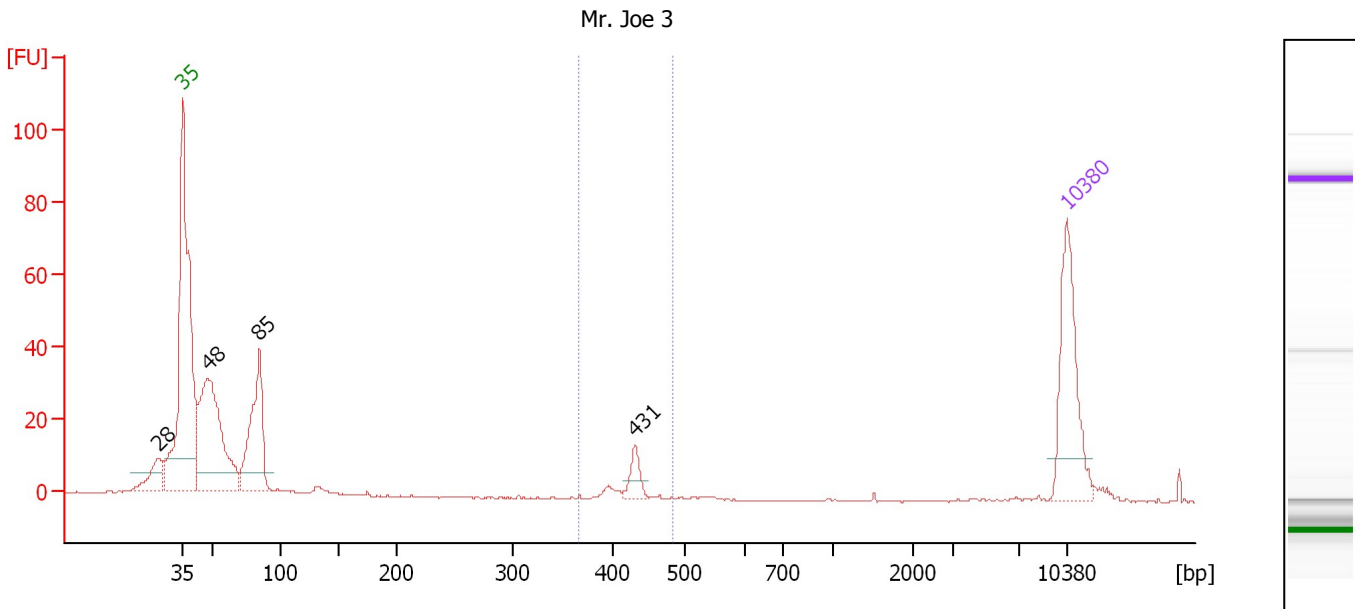
Region table for sample 5 : Mr. Joe 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
353	504	429	127.4	36.03	38.9	11	3.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mr. Joe 3

Number of peaks found: 4 Corr. Area 1: 20.8
 Noise: 0.2

Peak table for sample 6 : Mr. Joe 3

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	230.24	7,315.2	
4	85	131.64	2,357.5	
5	431	17.51	61.5	
6	10,380	75.00	10.9	Upper Marker

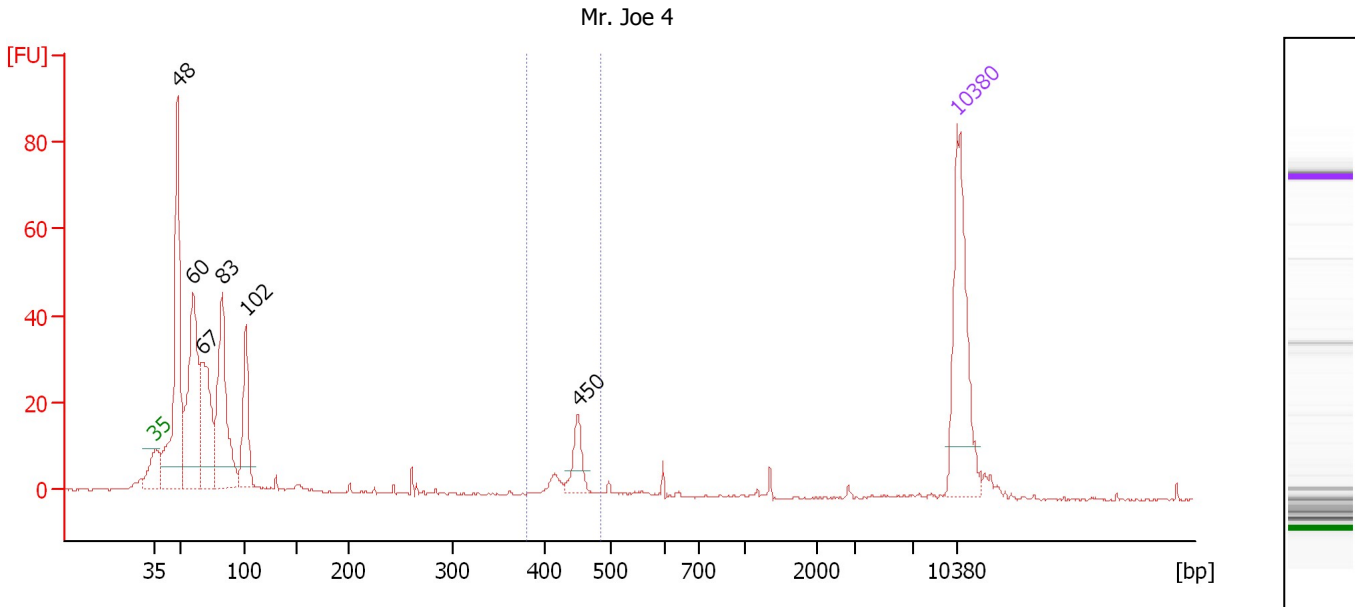
Region table for sample 6 : Mr. Joe 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
365	482	424	77.8	21.72	20.8	6	3.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Mr. Joe 4

Number of peaks found: 6 Corr. Area 1: 31.7
 Noise: 0.2

Peak table for sample 7 : Mr. Joe 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	198.83	6,302.6	
3	60	161.93	4,105.6	
4	67	103.21	2,332.4	
5	83	136.57	2,496.1	
6	102	66.67	989.7	
7	450	21.42	72.1	
8	10,380	75.00	10.9	Upper Marker

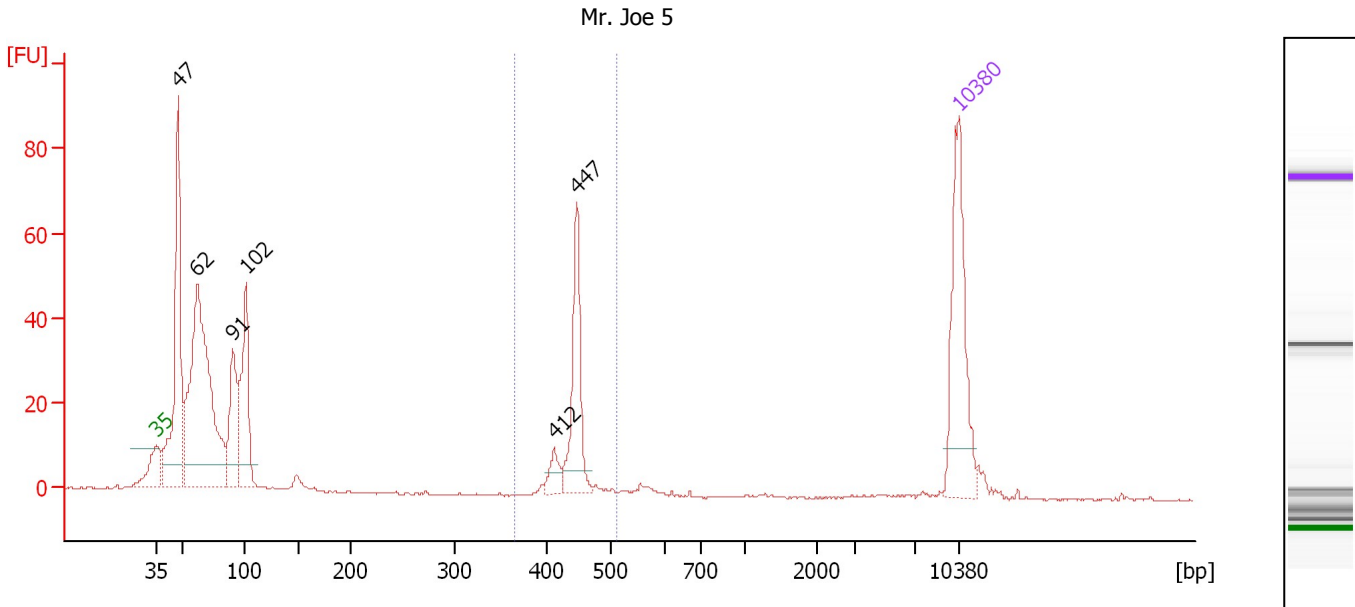
Region table for sample 7 : Mr. Joe 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
379	486	440	109.9	31.93	31.7	6	4.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Mr. Joe 5

Number of peaks found: 6 Corr. Area 1: 94.2
 Noise: 0.2

Peak table for sample 8 : Mr. Joe 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	198.75	6,340.7	
3	62	323.86	7,927.0	
4	91	74.48	1,245.4	
5	102	106.66	1,591.2	
6	412	13.68	50.4	
7	447	71.72	243.1	
8	10,380	75.00	10.9	Upper Marker

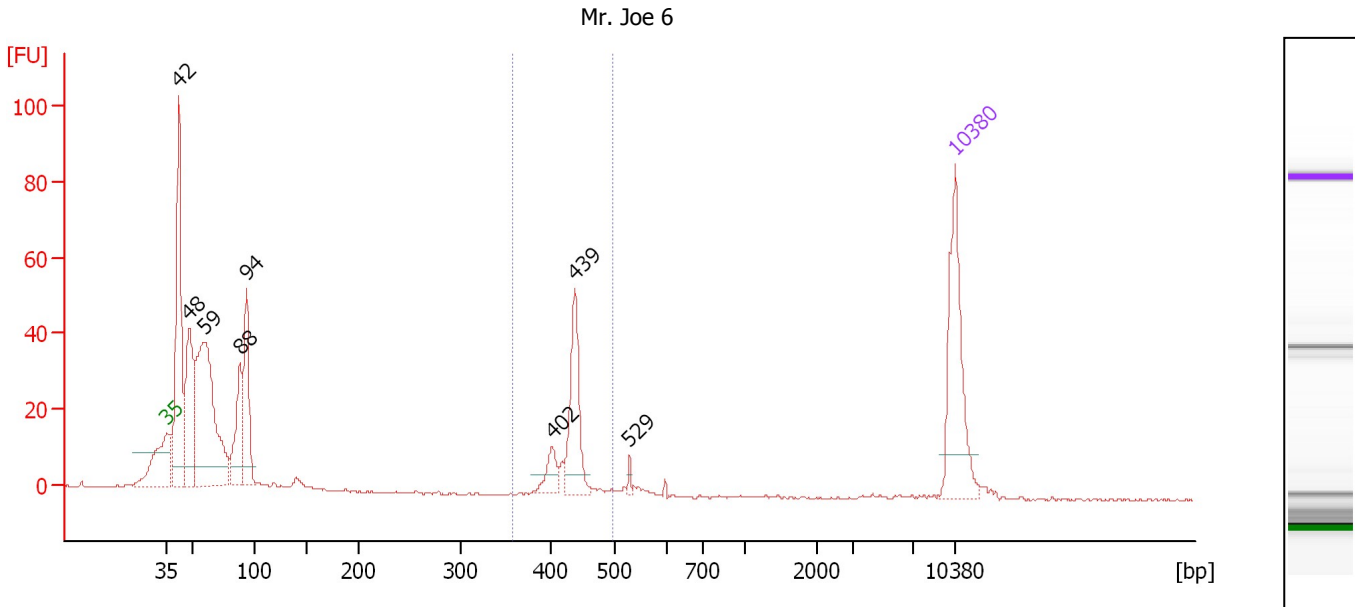
Region table for sample 8 : Mr. Joe 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
365	509	442	312.8	91.14	94.2	15	3.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Mr. Joe 6

Number of peaks found: 8 Corr. Area 1: 87.2
 Noise: 0.2

Peak table for sample 9 : Mr. Joe 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	209.98	7,663.2	
3	48	129.52	4,112.2	
4	59	256.95	6,597.0	
5	88	72.21	1,239.7	
6	94	92.19	1,487.2	
7	402	18.85	71.1	
8	439	67.93	234.6	
9	529	3.60	10.3	
10	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : Mr. Joe 6

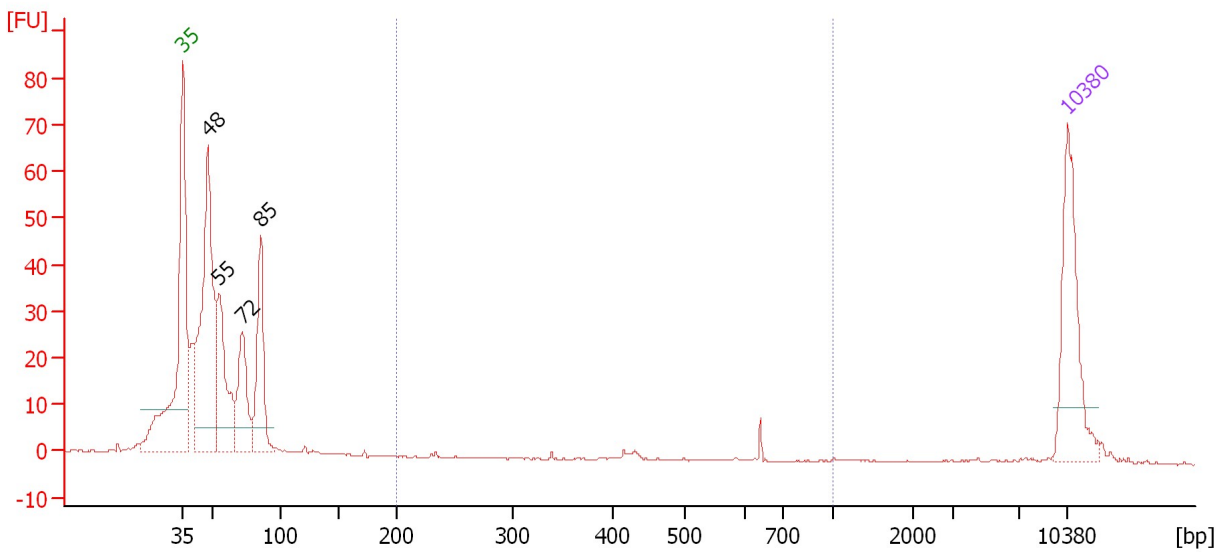
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
357	496	431	322.0	91.46	87.2	14	4.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...

Mr. Joe 7



Overall Results for sample 10 : Mr. Joe 7

Number of peaks found: 4 Corr. Area 1: 3.5
 Noise: 0.2

Peak table for sample 10 : Mr. Joe 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	264.82	8,350.6	
3	55	111.55	3,055.6	
4	72	78.52	1,645.0	
5	85	100.89	1,792.1	
6	10,380	75.00	10.9	Upper Marker

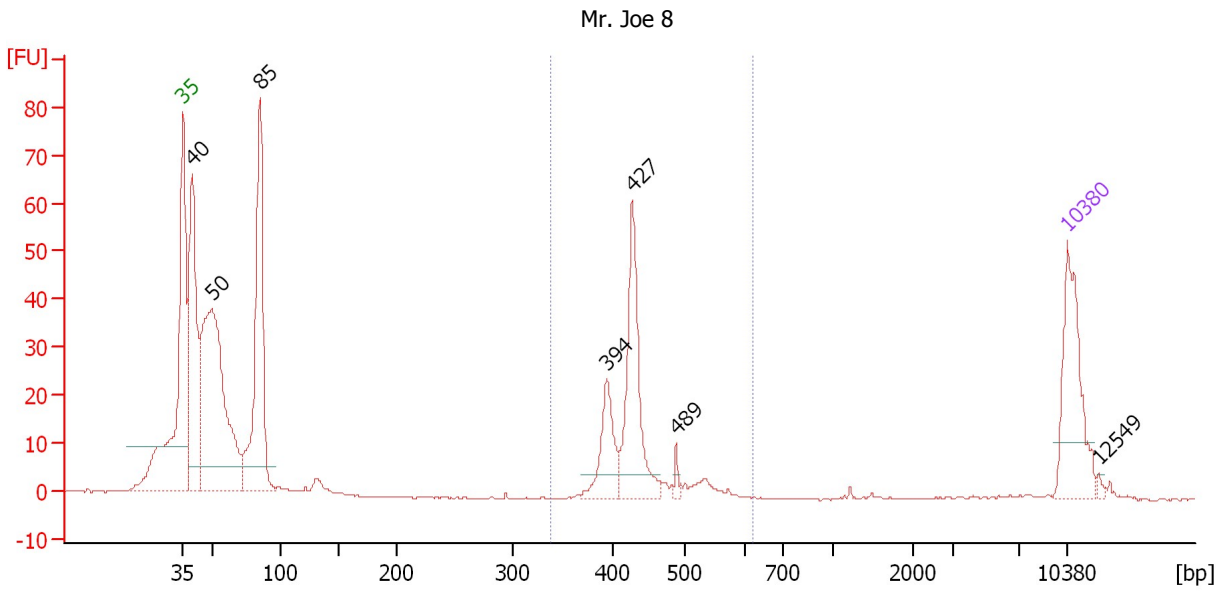
Region table for sample 10 : Mr. Joe 7

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	548	12.6	4.07	3.5	1	22.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
 Modified: 8/3/2012 1:55:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Mr. Joe 8

Number of peaks found: 7 Corr. Area 1: 141.4
 Noise: 0.1

Peak table for sample 11 : Mr. Joe 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	234.42	8,921.1	
3	50	381.38	11,612.0	
4	85	256.32	4,576.0	
5	394	56.78	218.4	
6	427	123.16	437.1	
7	489	6.37	19.7	
8	10,380	75.00	10.9	Upper Marker
9	12,549	0.00	0.0	

Region table for sample 11 : Mr. Joe 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
338	621	432	714.4	202.03	141.4	24	9.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-03\2012-08-03_003.xad

Created: 8/3/2012 1:13:35 PM
Modified: 8/3/2012 1:55:49 PM

Gel Image

