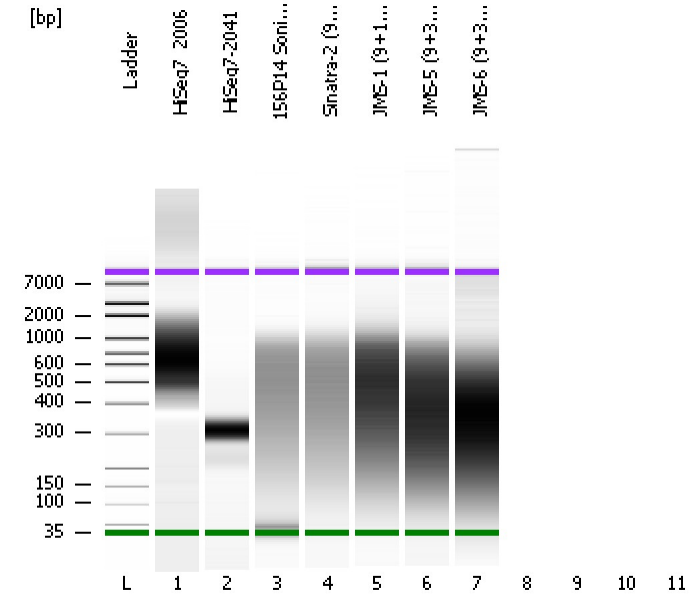
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

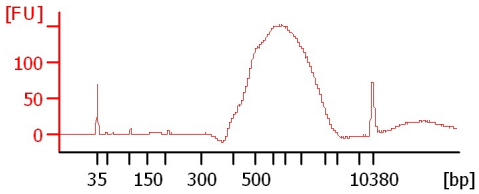
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

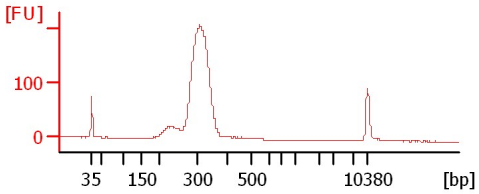
Chip Information:

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

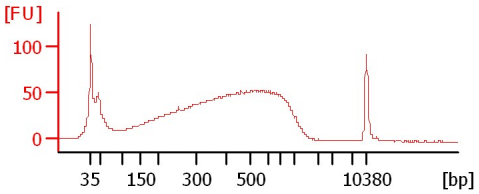
HiSeq7_2006



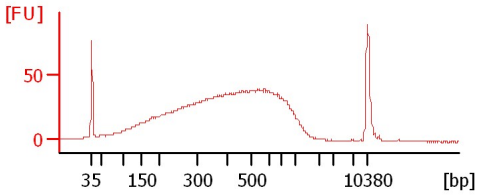
HiSeq7-2041



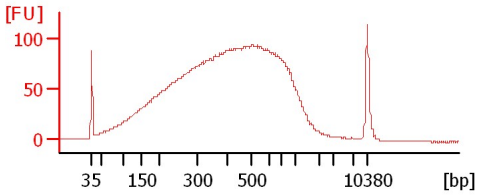
156P14 Soni 1:6



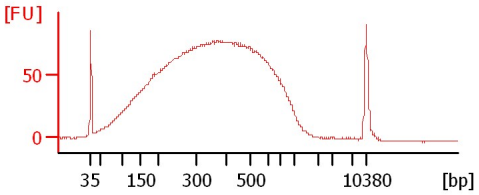
Sinatra-2 (9+2+1 = 12cyc 1:10)



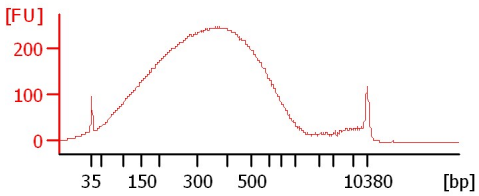
JMS-1 (9+1+1=11cyc 1:5)



JMS-5 (9+3=12cyc 1:4)



JMS-6 (9+3=12cyc 1:10)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq7_2006		☐	✔			
HiSeq7-2041		☐	✔			
156P14 Soni 1:6		☐	✔			
Sinatra-2 (9+2+1 = 12cyc 1:10)		☐	✔			
JMS-1 (9+1+1=11cyc 1:5)		☐	✔			
JMS-5 (9+3=12cyc 1:4)		☐	✔			
JMS-6 (9+3=12cyc 1:10)		☐	✔			
		☐				
		☐				
		☐				
		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 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

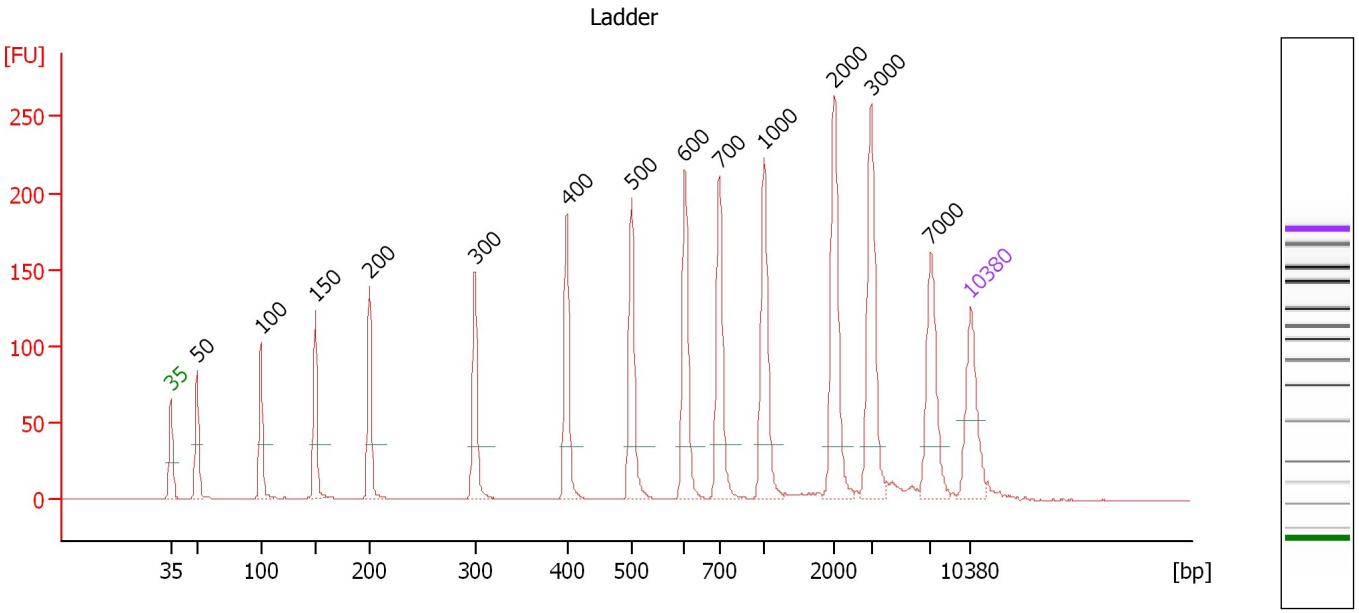
Ladder

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:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

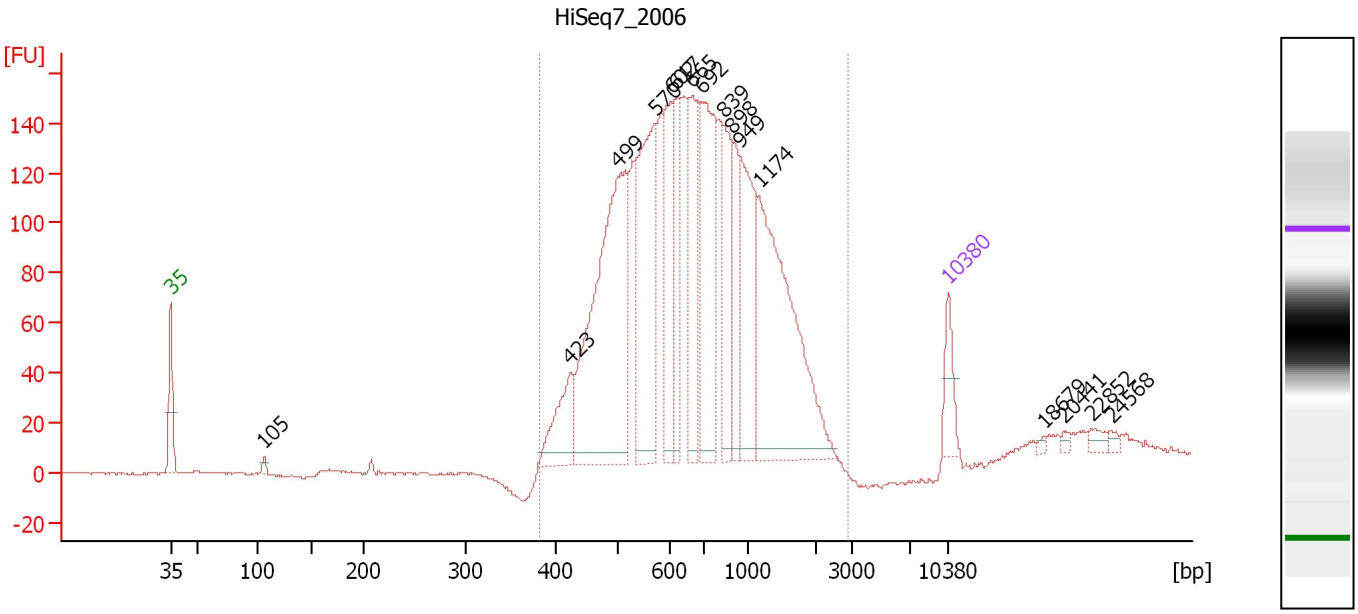
Peak table for Ladder

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\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HiSeq7_2006

Number of peaks found:	16	Corr. Area 1:	2,745.4
Noise:	0.1		

Peak table for sample 1 : HiSeq7_2006

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	105	16.80	241.5	
3	423	189.28	678.3	
4	499	1,061.22	3,220.2	
5	570	573.38	1,523.7	
6	602	281.15	708.1	
7	617	206.91	507.8	
8	665	304.35	693.6	
9	692	482.92	1,057.7	
10	839	241.17	435.6	
11	898	160.77	271.3	
12	949	361.75	577.5	
13	1,174	727.61	939.0	
14	10,380	75.00	10.9	Upper Marker
15	18,679	0.00	0.0	
16	20,441	0.00	0.0	
17	22,852	0.00	0.0	
18	24,568	0.00	0.0	

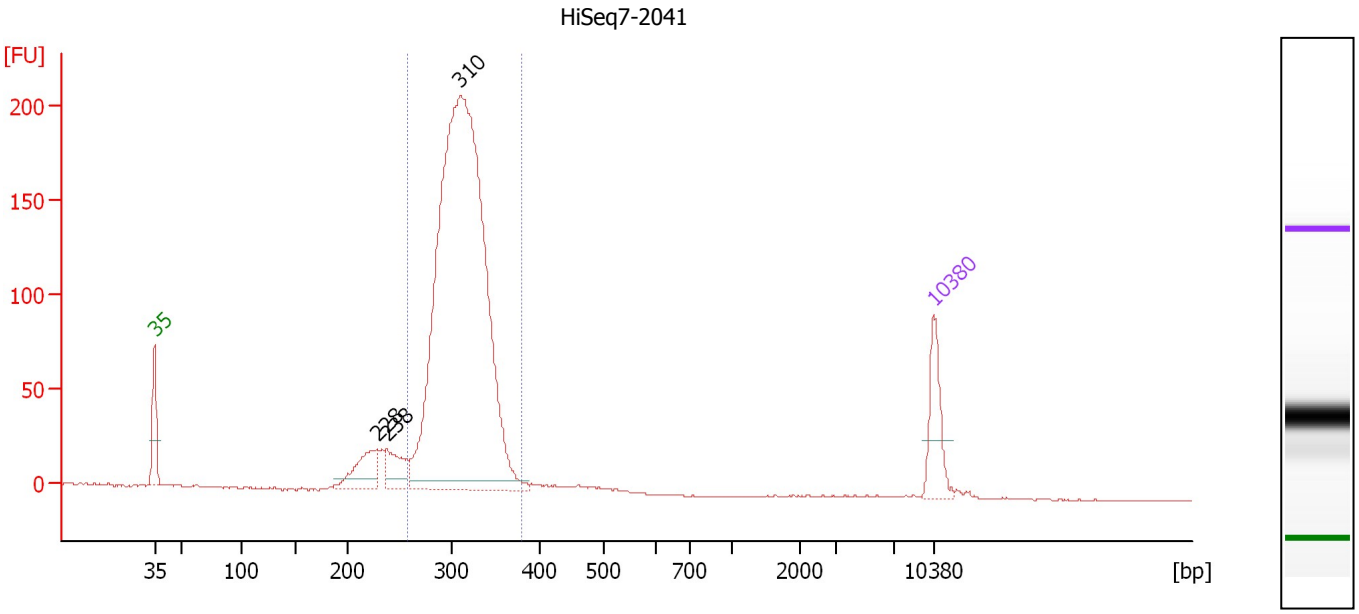
Region table for sample 1 : HiSeq7_2006

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
383	2,884	797	12,423.1	5,381.14	2,745.4	97	47.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq7-2041

Number of peaks found:	3	Corr. Area 1:	1,543.2
Noise:	0.3		

Peak table for sample 2 : HiSeq7-2041

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		228	98.94	658.4	
3		238	77.62	494.7	
4		310	1,857.37	9,083.7	
5	▶	10,380	75.00	10.9	Upper Marker

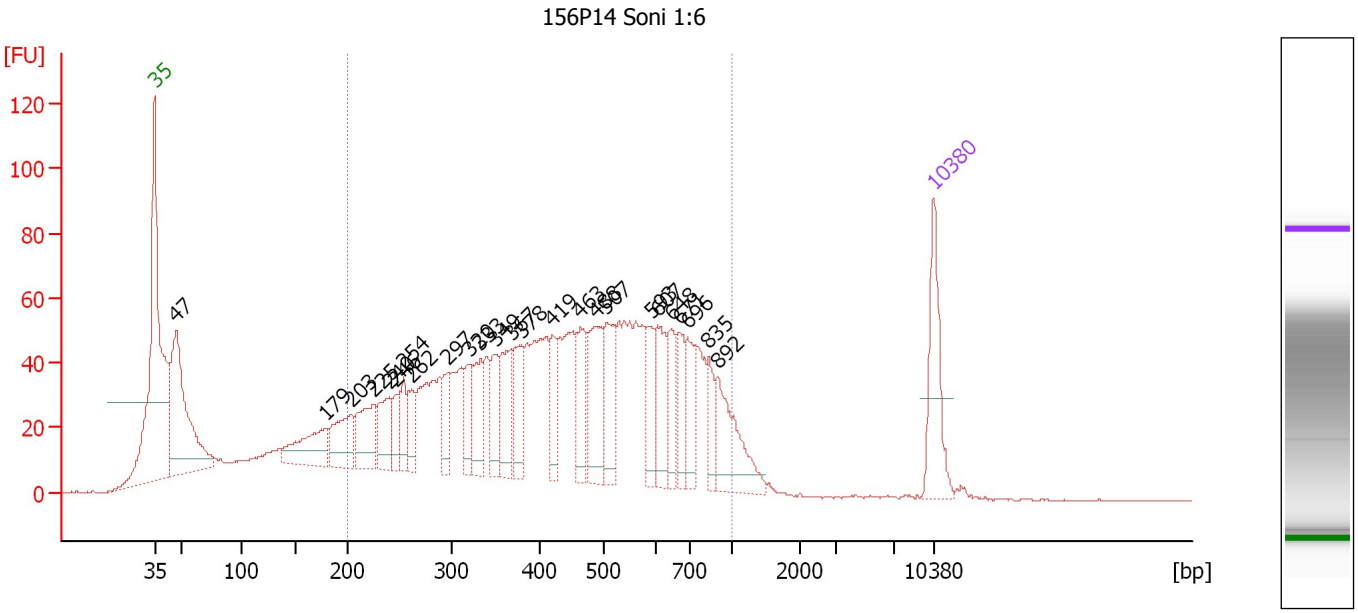
Region table for sample 2 : HiSeq7-2041

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
258	379	312	8,976.9	1,838.98	1,543.2	90	7.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 156P14 Soni 1:6

Number of peaks found:	25	Corr. Area 1:	1,933.4
Noise:	0.2		

Peak table for sample 3 : 156P14 Soni 1:6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	301.87	9,632.8	
3	179	95.67	808.5	
4	203	82.24	614.1	
5	225	85.54	576.1	
6	240	68.78	434.1	
7	246	34.13	210.2	
8	254	40.08	239.0	
9	262	37.88	218.9	
10	297	42.96	219.4	
11	320	51.00	241.7	
12	333	60.53	275.6	
13	349	52.45	227.4	
14	367	75.36	310.7	
15	378	63.61	255.0	
16	419	44.33	160.3	
17	463	63.06	206.3	
18	488	98.07	304.6	
19	507	81.19	242.8	
20	593	49.85	127.4	
21	607	66.64	166.3	
22	648	45.54	106.4	
23	671	47.55	107.3	
24	696	45.91	100.0	
25	835	33.11	60.1	
26	892	90.44	153.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 156P14 Soni 1:6

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

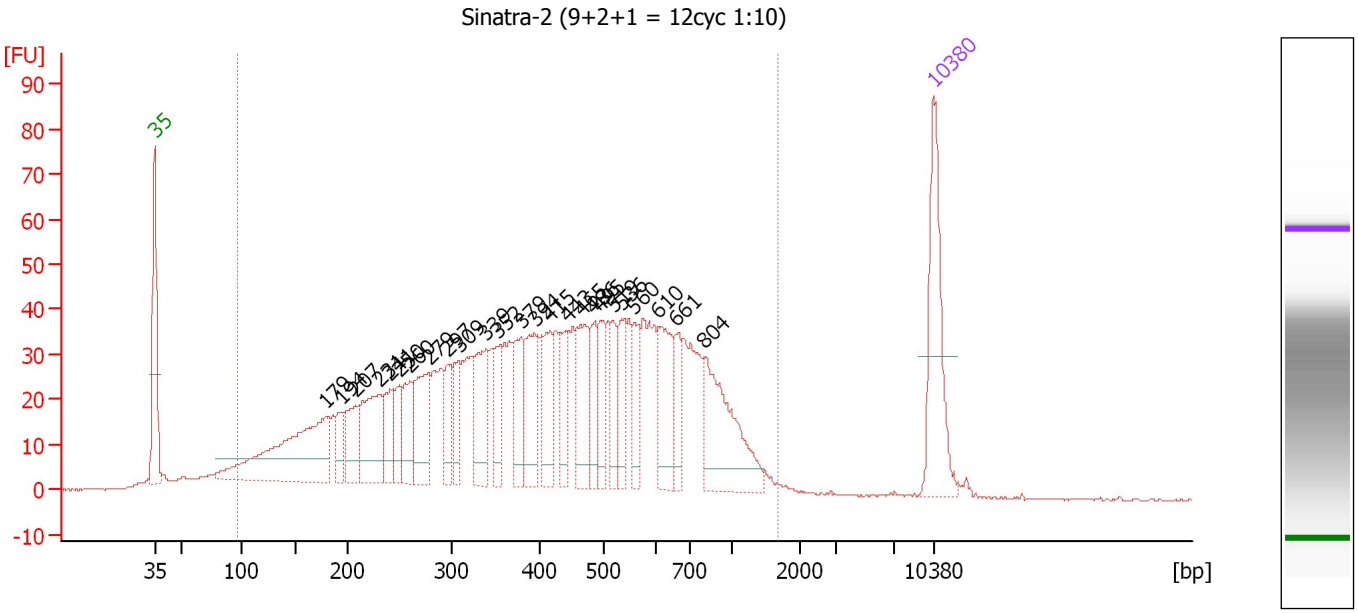
Region table for sample 3 : 156P14 Soni 1:6

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	466	9,560.3	2,376.85	1,933.4	75	38.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sinatra-2 (9+2+1 = 12cyc 1:10)

Number of peaks found:	25	Corr. Area 1:	1,677.3
Noise:	0.1		

Peak table for sample 4 : Sinatra-2 (9+2+1 = 12cyc 1:10)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	179	192.26	1,631.5	
3	194	24.00	187.5	
4	207	47.85	349.5	
5	231	87.44	573.6	
6	241	38.79	244.0	
7	250	33.41	202.4	
8	260	42.86	249.3	
9	279	66.94	364.1	
10	297	31.63	161.6	
11	309	31.57	155.0	
12	339	61.65	275.6	
13	352	32.57	140.1	
14	379	52.03	208.3	
15	394	61.64	237.2	
16	415	48.92	178.5	
17	443	33.93	116.1	
18	465	57.04	185.7	
19	486	32.09	100.1	
20	495	34.95	107.0	
21	519	31.23	91.2	
22	536	37.90	107.1	
23	560	29.21	79.1	
24	610	55.20	137.1	
25	661	29.89	68.5	
26	804	98.51	185.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : Sinatra-2 (9+2+1 = 12cyc 1:10)

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

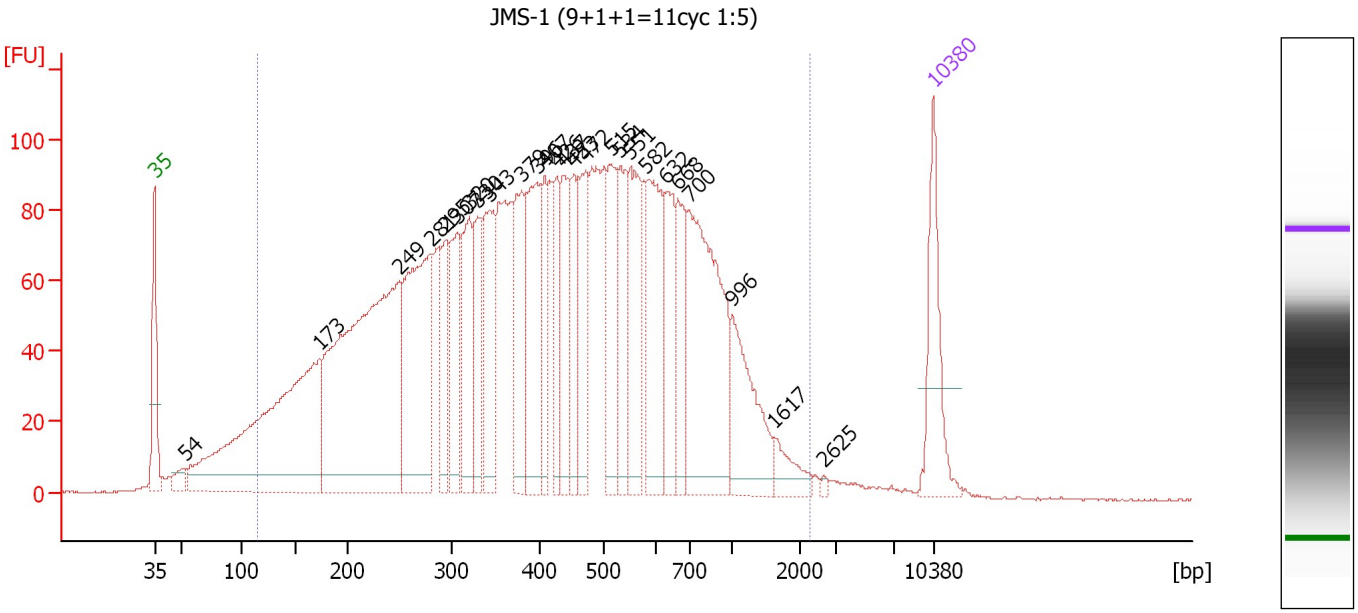
Region table for sample 4 : Sinatra-2 (9+2+1 = 12cyc 1:10)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
97	1,665	454	9,868.1	1,968.82	1,677.3	95	51.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS-1 (9+1+1=11cyc 1:5)

Number of peaks found:	26	Corr. Area 1:	4,128.3
Noise:	0.2		

Peak table for sample 5 : JMS-1 (9+1+1=11cyc 1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	22.03	622.6	
3	173	523.59	4,594.5	
4	249	606.44	3,683.7	
5	281	272.59	1,471.4	
6	295	94.77	487.3	
7	307	111.29	549.8	
8	320	112.62	532.9	
9	330	78.82	362.1	
10	343	117.40	518.1	
11	379	109.68	438.8	
12	396	151.80	580.7	
13	407	70.84	263.6	
14	426	70.18	249.4	
15	437	91.60	317.4	
16	453	69.38	232.2	
17	472	95.55	306.7	
18	515	104.11	306.4	
19	534	85.25	242.1	
20	551	115.67	317.9	
21	582	138.13	359.5	
22	632	88.58	212.3	
23	668	77.75	176.4	
24	700	261.70	566.1	
25	996	103.15	156.8	
26	1,617	25.59	24.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : JMS-1 (9+1+1=11cyc 1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	2,625	2.36	1.4	
28	10,380	75.00	10.9	Upper Marker

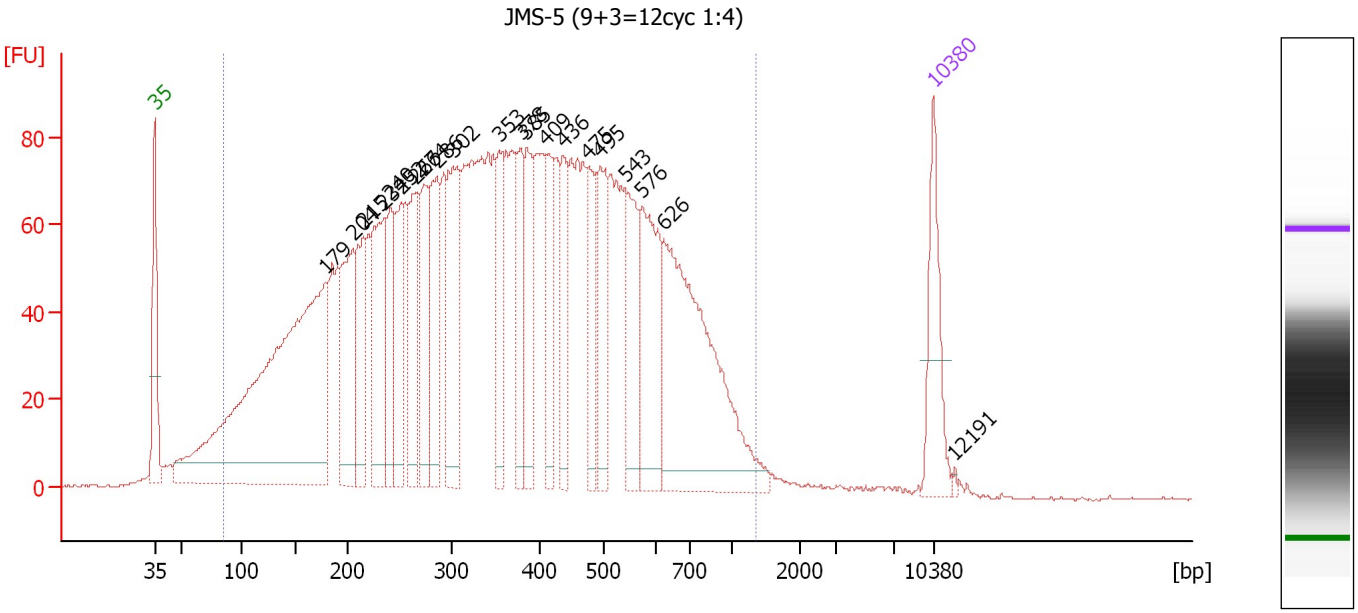
Region table for sample 5 : JMS-1 (9+1+1=11cyc 1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
115	2,278	479	19,358.9	4,030.06	4,128.3	95	59.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JMS-5 (9+3=12cyc 1:4)

Number of peaks found:	21	Corr. Area 1:	3,740.0
Noise:	0.3		

Peak table for sample 6 : JMS-5 (9+3=12cyc 1:4)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	179	862.81	7,321.7	
3	204	174.21	1,291.4	
4	215	111.22	785.5	
5	234	192.25	1,243.4	
6	240	95.48	601.6	
7	252	123.29	742.1	
8	266	116.67	663.5	
9	274	110.67	612.6	
10	286	146.17	774.1	
11	302	182.27	913.9	
12	353	88.68	380.1	
13	378	84.48	338.5	
14	385	101.93	401.6	
15	409	79.02	292.4	
16	436	82.39	286.2	
17	475	88.73	283.0	
18	495	108.92	333.2	
19	543	111.50	310.9	
20	576	159.56	419.9	
21	626	364.03	880.8	
22	10,380	75.00	10.9	Upper Marker
23	12,191	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...

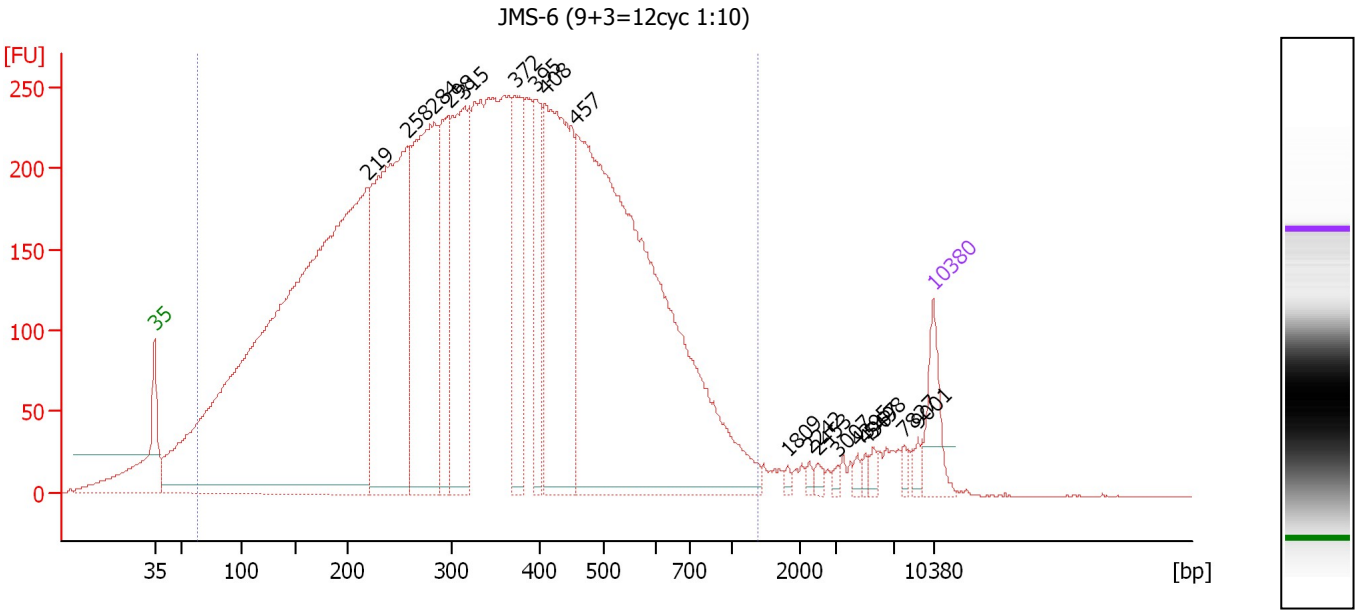
... Region table for sample 6 : JMS-5 (9+3=12cyc 1:4)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
84	1,350	390	28,374.0	4,906.52	3,740.0	96	49.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JMS-6 (9+3=12cyc 1:10)

Number of peaks found:	18	Corr. Area 1:	11,404.3
Noise:	0.2		

Peak table for sample 7 : JMS-6 (9+3=12cyc 1:10)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	2,979.55	20,637.7	
3	258	1,054.13	6,185.1	
4	284	747.35	3,987.5	
5	298	296.64	1,509.7	
6	315	519.66	2,498.4	
7	372	293.00	1,194.1	
8	395	196.66	754.6	
9	408	679.64	2,526.0	
10	457	1,907.37	6,319.9	
11	1,809	6.74	5.6	
12	2,242	7.25	4.9	
13	2,453	10.17	6.3	
14	3,007	7.09	3.6	
15	4,395	9.32	3.2	
16	4,967	9.23	2.8	
17	5,498	11.17	3.1	
18	7,827	10.82	2.1	
19	9,001	13.76	2.3	
20	10,380	75.00	10.9	Upper Marker

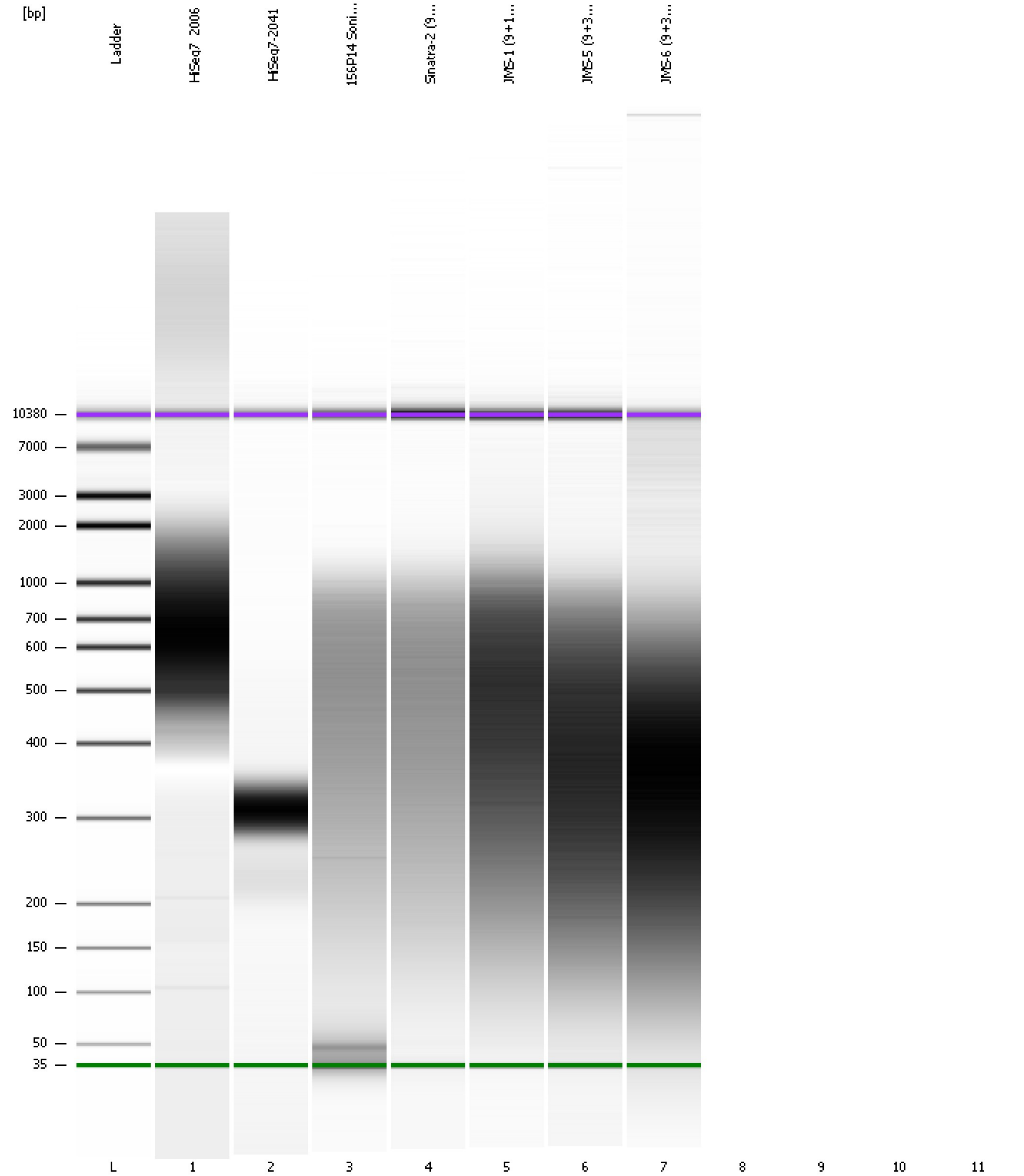
Region table for sample 7 : JMS-6 (9+3=12cyc 1:10)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
64	1,367	356	66,306.3	10,152.11	11,404.3	96	49.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-27\2012-07-27_005.xad

Created: 7/27/2012 4:24:01 PM
Modified: 7/30/2012 9:33:17 AM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.