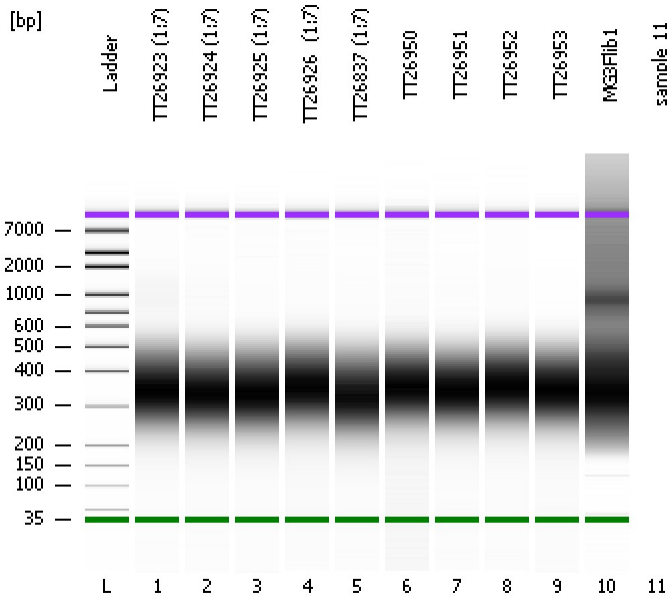


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
Modified: 10/27/2014 5:47:42 PM

Electrophoresis File Run Summary



Instrument Information:

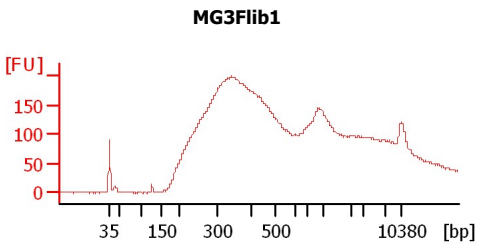
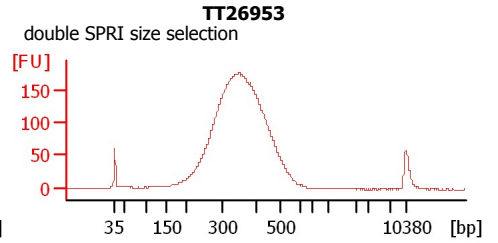
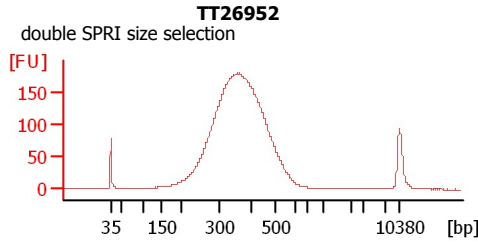
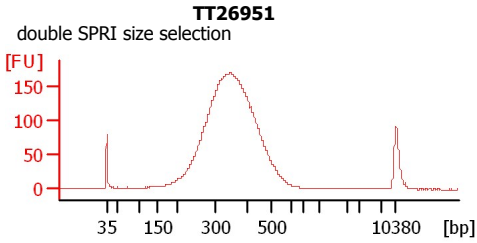
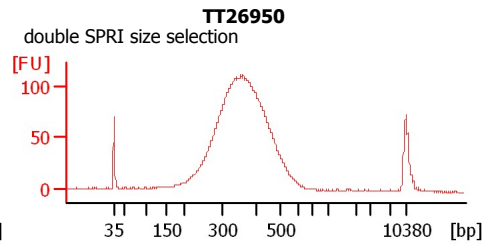
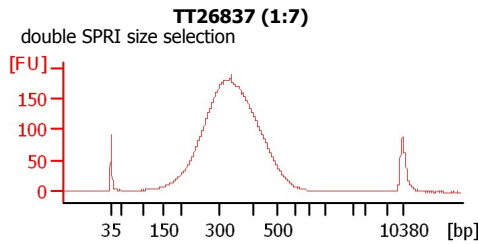
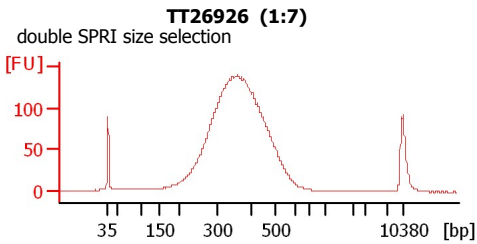
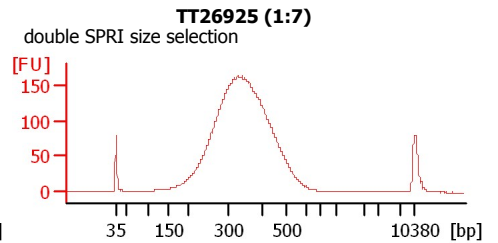
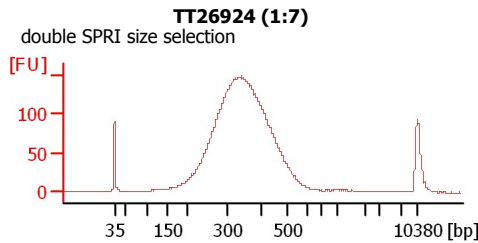
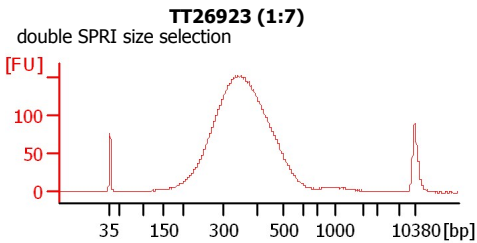
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
Modified: 10/27/2014 5:47:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TT26923 (1:7)	double SPRI size selection	<input type="checkbox"/>	✓			
TT26924 (1:7)	double SPRI size selection	<input type="checkbox"/>	✓			
TT26925 (1:7)	double SPRI size selection	<input type="checkbox"/>	✓			
TT26926 (1:7)	double SPRI size selection	<input type="checkbox"/>	✓			
TT26837 (1:7)	double SPRI size selection	<input type="checkbox"/>	✓			
TT26950	double SPRI size selection	<input type="checkbox"/>	✓			
TT26951	double SPRI size selection	<input type="checkbox"/>	✓			
TT26952	double SPRI size selection	<input type="checkbox"/>	✓			
TT26953	double SPRI size selection	<input type="checkbox"/>	✓			
MG3Flib1		<input type="checkbox"/>	✓			
sample 11		<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\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
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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

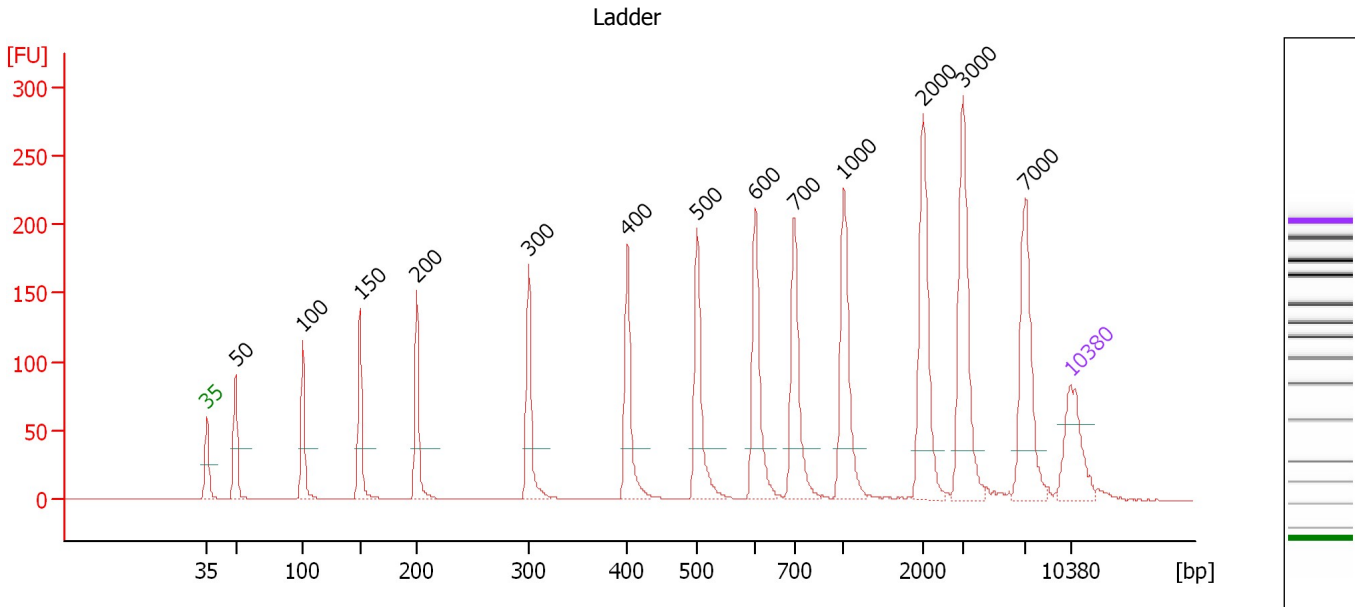
Ladder

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\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

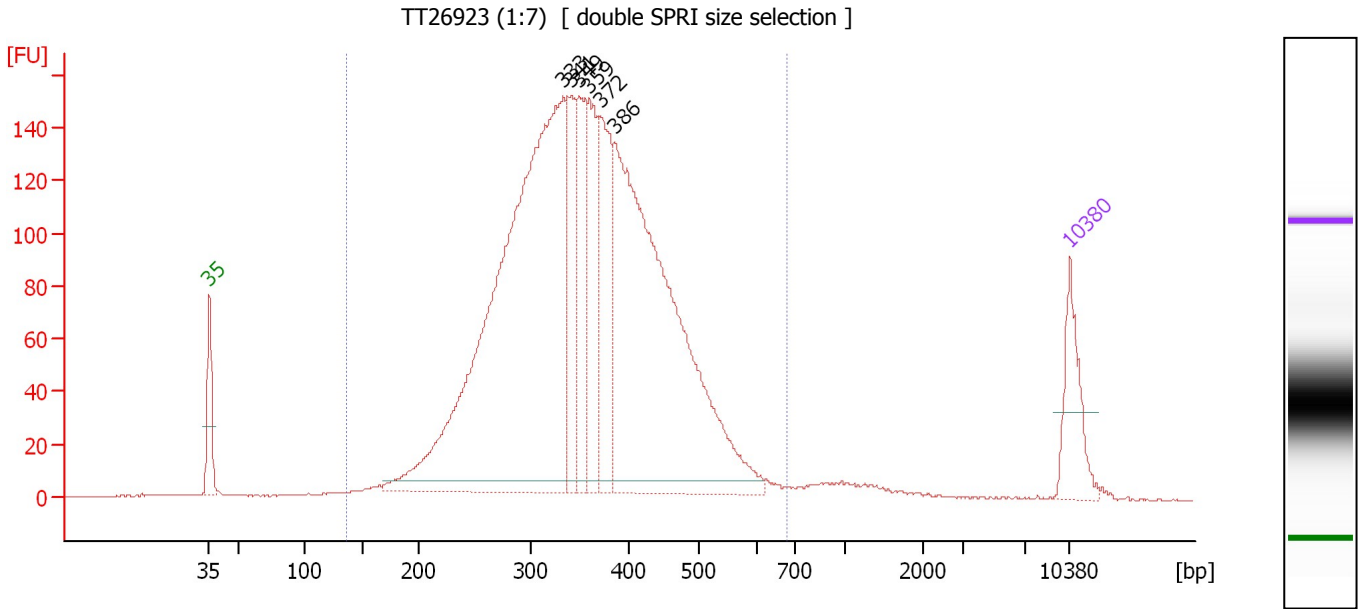
Peak table for Ladder

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\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : TT26923 (1:7)

Number of peaks found: 6 Corr. Area 1: 3,373.1
 Noise: 0.2

Peak table for sample 1 : TT26923 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	333	1,372.03	6,238.5	
3	341	176.13	781.8	
4	349	172.38	748.4	
5	359	198.64	837.7	
6	372	207.16	844.3	
7	386	966.80	3,796.4	
8	10,380	75.00	10.9	Upper Marker

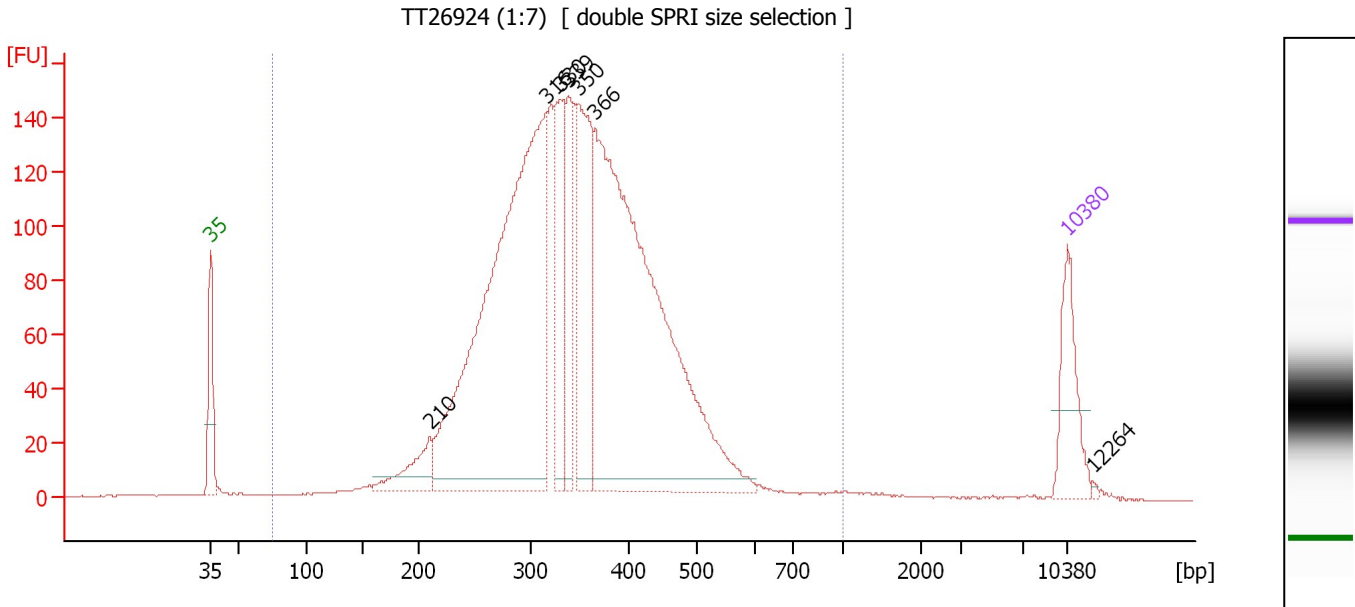
Region table for sample 1 : TT26923 (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
137	359	681	3,373.1	97	23.1	3,331.97	15,260.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
 Modified: 10/27/2014 5:47:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TT26924 (1:7)

Number of peaks found: 7 Corr. Area 1: 3,224.5
 Noise: 0.2

Peak table for sample 2 : TT26924 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	210	74.66	539.5	
3	316	1,034.78	4,957.4	
4	330	161.03	738.4	
5	339	125.23	559.5	
6	350	235.24	1,019.8	
7	366	986.50	4,079.5	
8	10,380	75.00	10.9	Upper Marker
9	12,264	0.00	0.0	

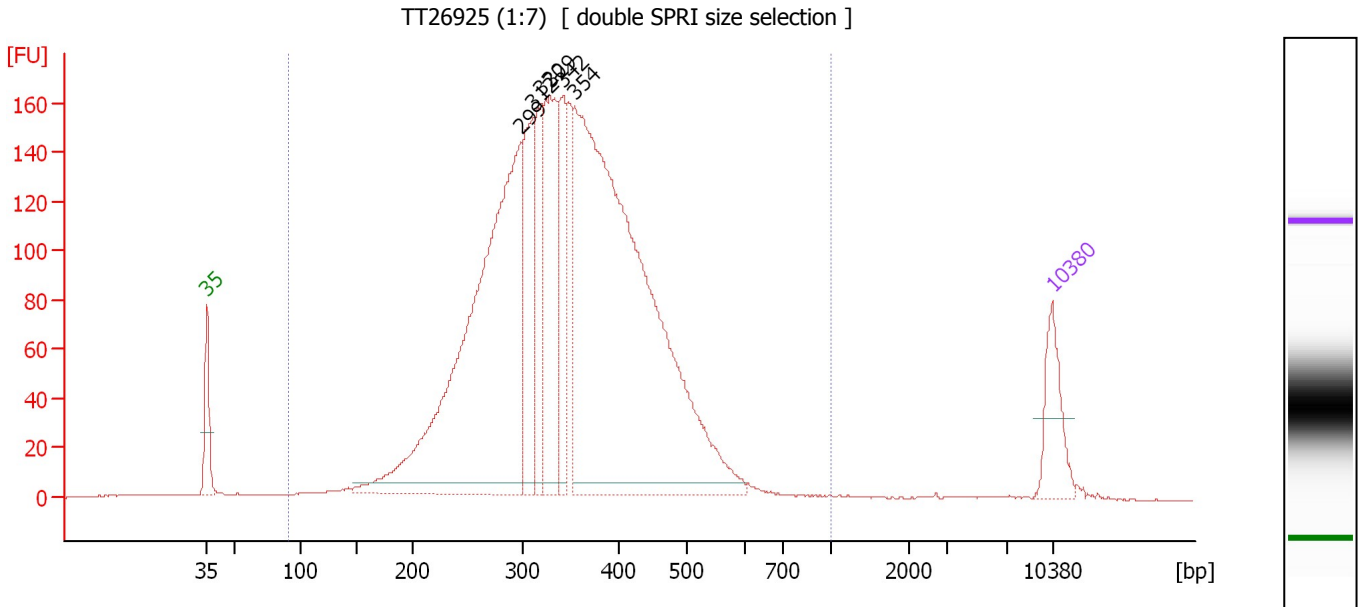
Region table for sample 2 : TT26924 (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
74	350	1,000	3,224.5	98	25.0	2,987.16	14,250.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
 Modified: 10/27/2014 5:47:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TT26925 (1:7)

Number of peaks found: 6 Corr. Area 1: 3,667.1
 Noise: 0.1

Peak table for sample 3 : TT26925 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	1,179.42	5,979.2	
3	312	247.58	1,202.4	
4	320	176.87	836.8	
5	329	310.32	1,428.7	
6	342	183.47	813.4	
7	354	1,589.36	6,793.3	
8	10,380	75.00	10.9	Upper Marker

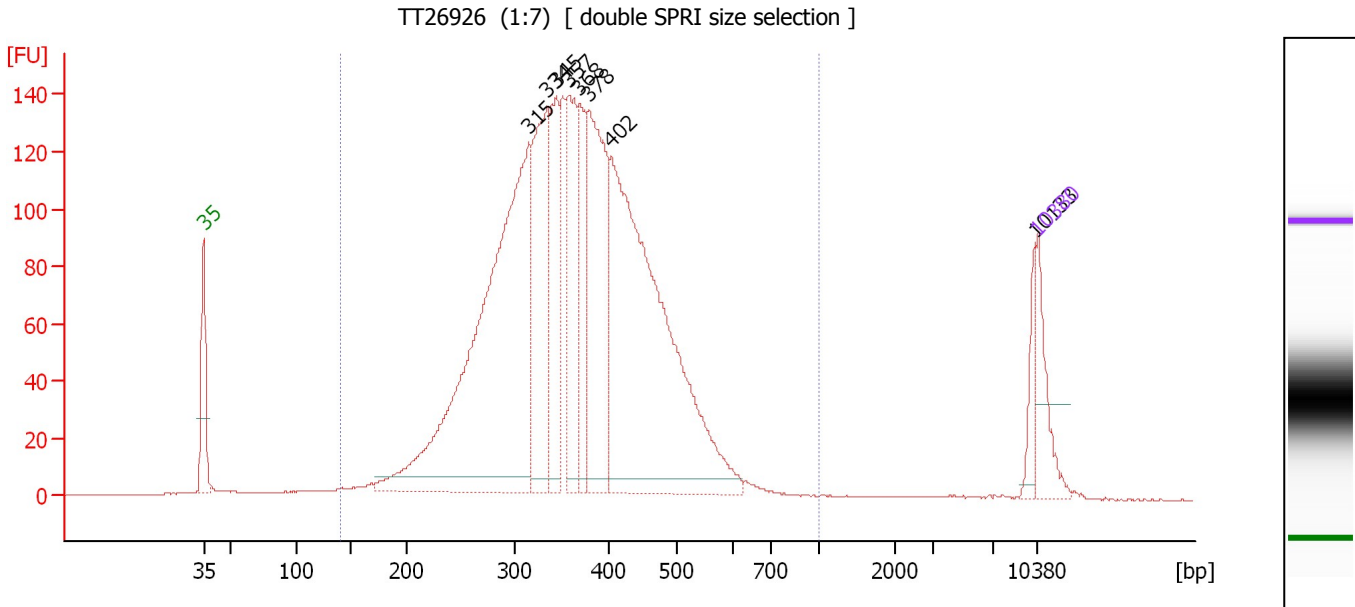
Region table for sample 3 : TT26925 (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	350	1,000	3,667.1	98	24.8	3,941.20	18,781.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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 Modified: 10/27/2014 5:47:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TT26926 (1:7)

Number of peaks found: 8 Corr. Area 1: 3,020.0
 Noise: 0.1

Peak table for sample 4 : TT26926 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	315	1,195.04	5,747.2	
3	334	379.34	1,720.4	
4	345	218.16	958.9	
5	357	247.90	1,052.0	
6	368	172.43	710.6	
7	378	414.05	1,658.3	
8	402	1,010.72	3,811.3	
9	10,133	39.42	5.9	
10	10,380	75.00	10.9	Upper Marker

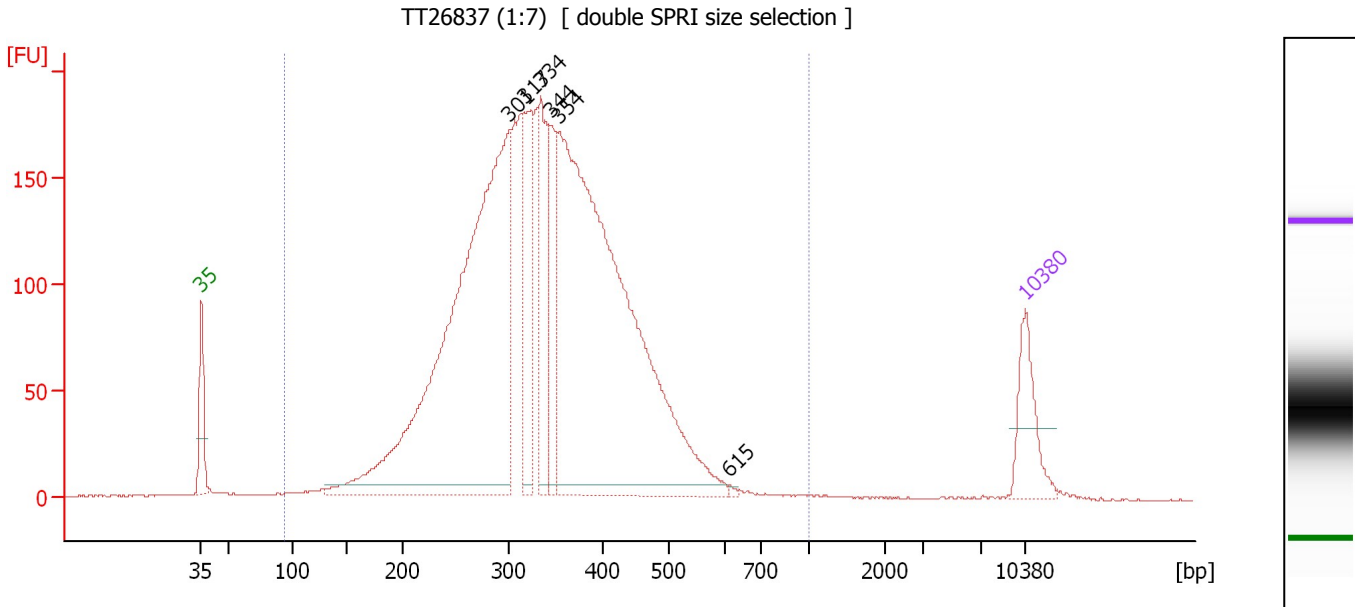
Region table for sample 4 : TT26926 (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
140	367	1,000	3,020.0	96	23.7	4,011.70	17,973.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : TT26837 (1:7)

Number of peaks found: 6 Corr. Area 1: 4,177.5
 Noise: 0.3

Peak table for sample 5 : TT26837 (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	301	1,312.32	6,598.7	
3	317	213.40	1,019.3	
4	334	204.10	925.3	
5	344	124.60	548.1	
6	354	1,385.54	5,938.6	
7	615	2.67	6.6	
8	10,380	75.00	10.9	Upper Marker

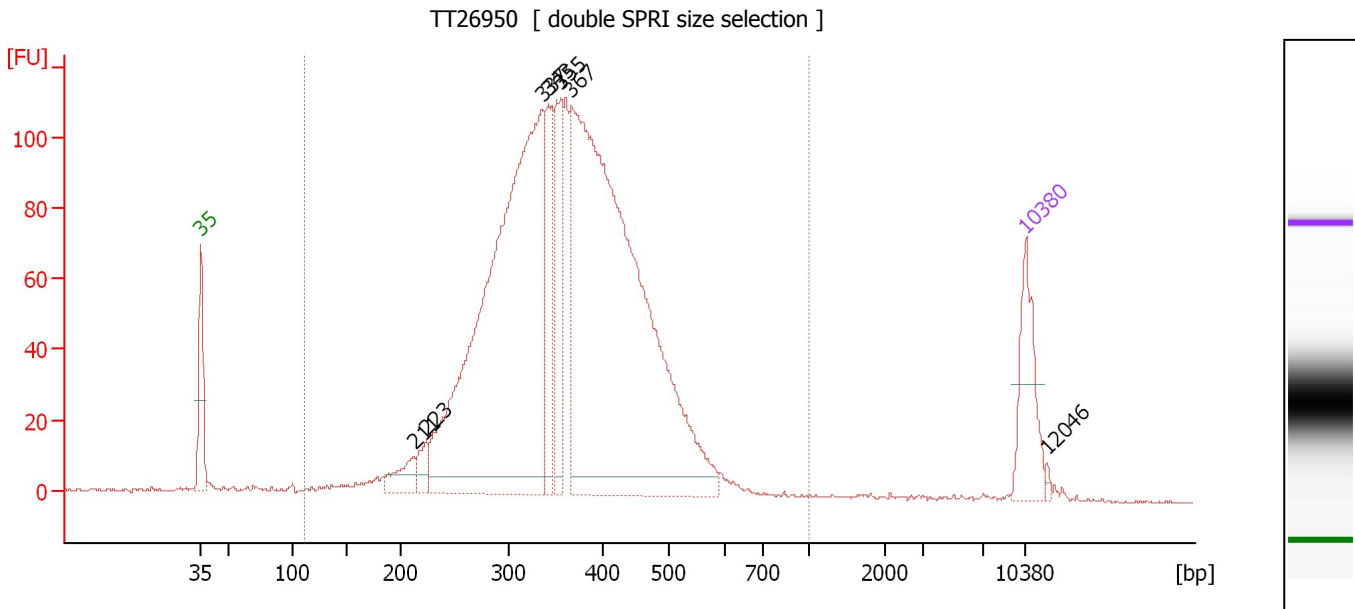
Region table for sample 5 : TT26837 (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
93	342	1,000	4,177.5	98	25.6	3,687.65	18,085.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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 Modified: 10/27/2014 5:47:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TT26950

Number of peaks found: 7 Corr. Area 1: 2,315.7
 Noise: 0.4

Peak table for sample 6 : TT26950

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	211	44.28	317.4	
3	223	30.07	204.5	
4	337	1,023.72	4,603.8	
5	343	127.16	562.4	
6	355	149.85	639.5	
7	367	1,174.97	4,851.9	
8	10,380	75.00	10.9	Upper Marker
9	12,046	0.00	0.0	

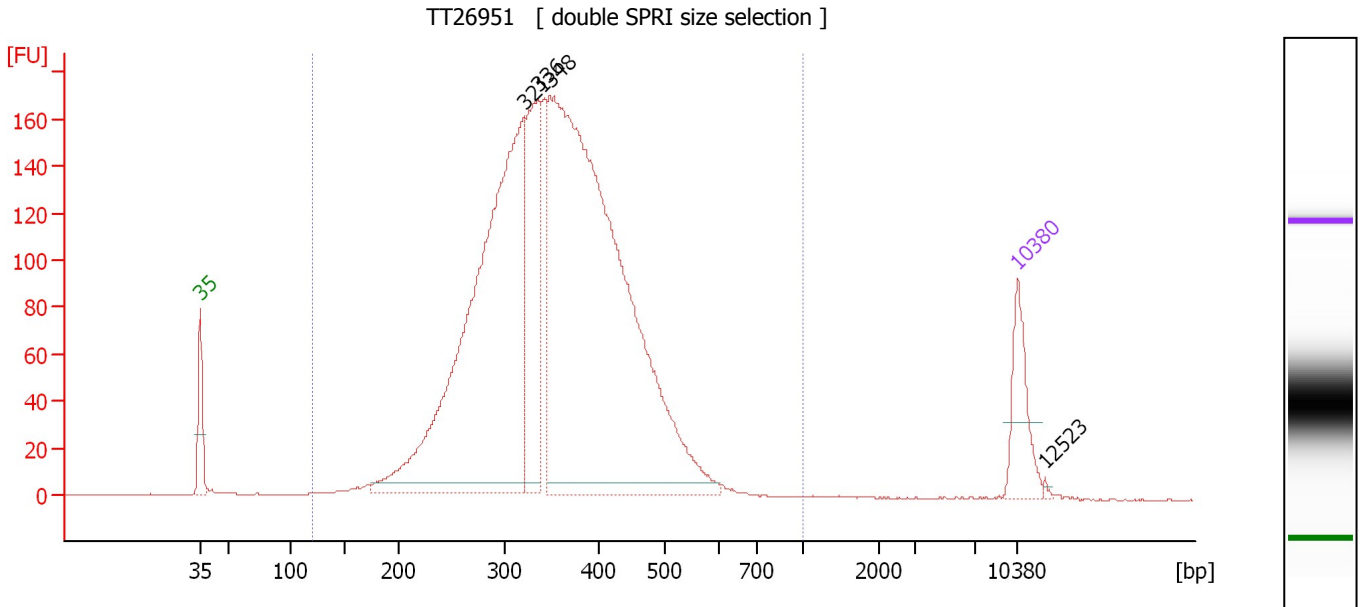
Region table for sample 6 : TT26950

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
111	364	1,000	2,315.7	98	23.0	2,773.44	12,526.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : TT26951

Number of peaks found: 4 Corr. Area 1: 3,465.9
 Noise: 0.2

Peak table for sample 7 : TT26951

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	321	1,166.51	5,509.2	
3	336	310.28	1,400.5	
4	348	1,659.45	7,220.2	
5	10,380	75.00	10.9	Upper Marker
6	12,523	0.00	0.0	

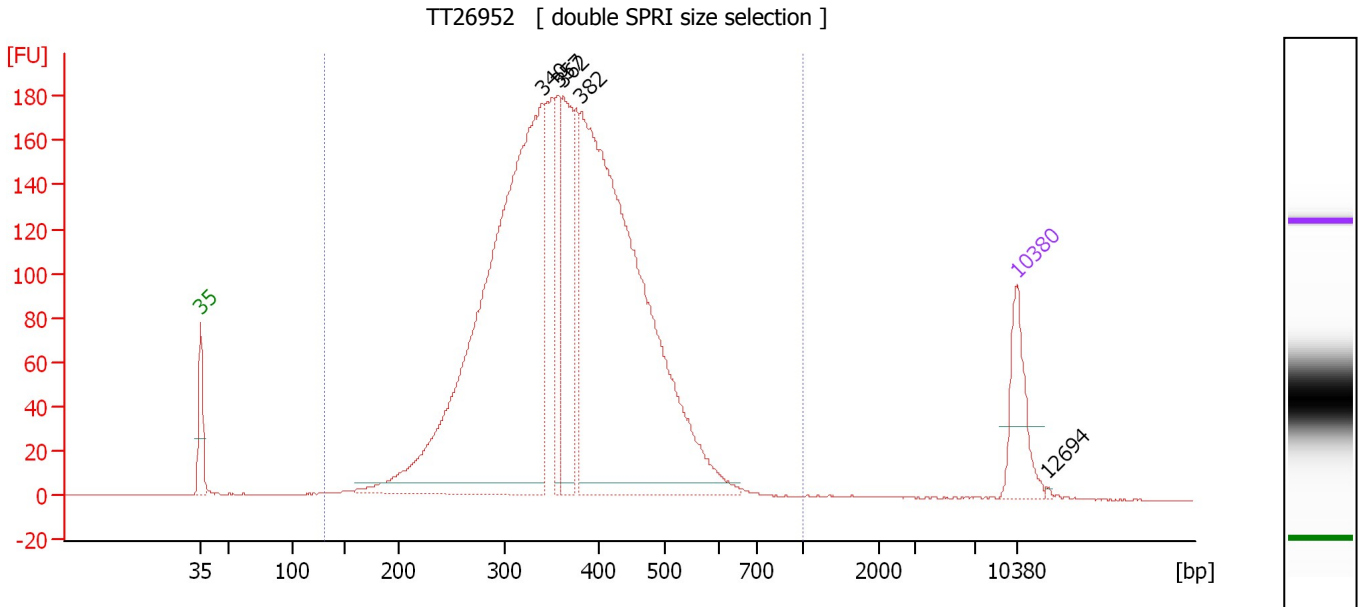
Region table for sample 7 : TT26951

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
119	355	1,000	3,465.9	99	22.3	3,323.21	15,244.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : TT26952

Number of peaks found: 5 Corr. Area 1: 3,751.7
 Noise: 0.1

Peak table for sample 8 : TT26952

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	340	1,298.66	5,784.8	
3	357	129.45	549.0	
4	362	232.77	974.6	
5	382	1,217.06	4,828.6	
6	10,380	75.00	10.9	Upper Marker
7	12,694	0.00	0.0	

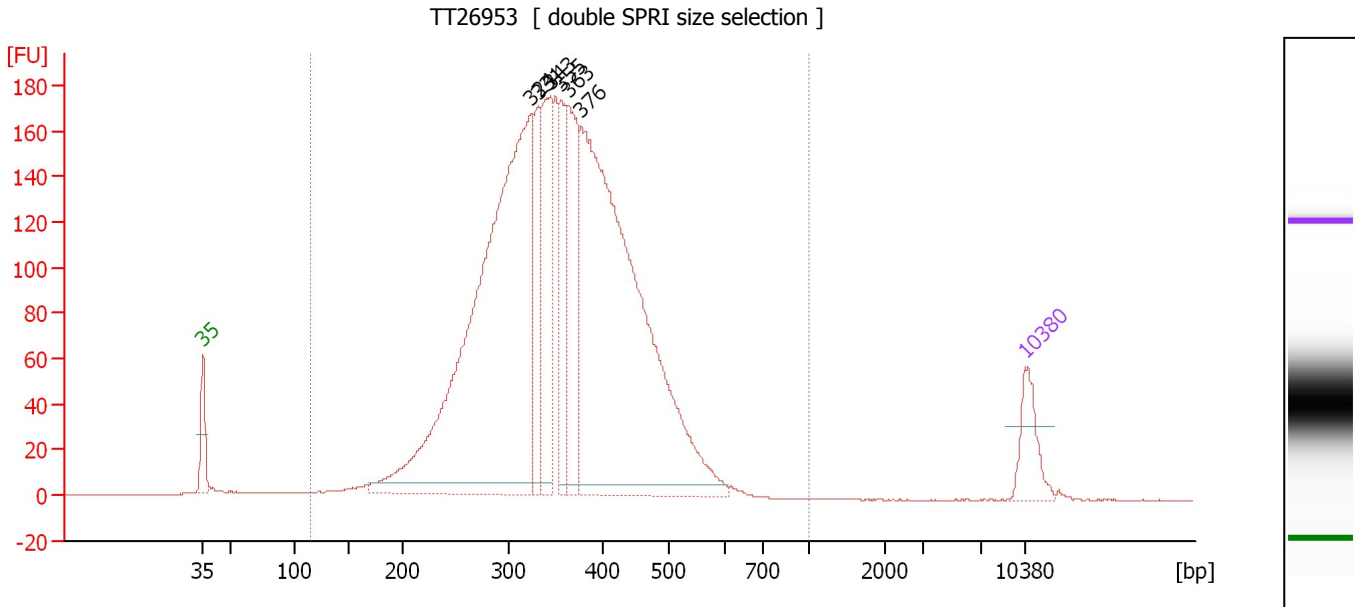
Region table for sample 8 : TT26952

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
130	369	1,000	3,751.7	99	22.7	3,314.55	14,655.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : TT26953

Number of peaks found: 6 Corr. Area 1: 3,666.9
 Noise: 0.1

Peak table for sample 9 : TT26953

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	324	1,817.15	8,509.3	
3	331	195.31	894.2	
4	343	343.42	1,515.0	
5	355	202.43	864.4	
6	363	302.54	1,263.6	
7	376	1,665.96	6,706.0	
8	10,380	75.00	10.9	Upper Marker

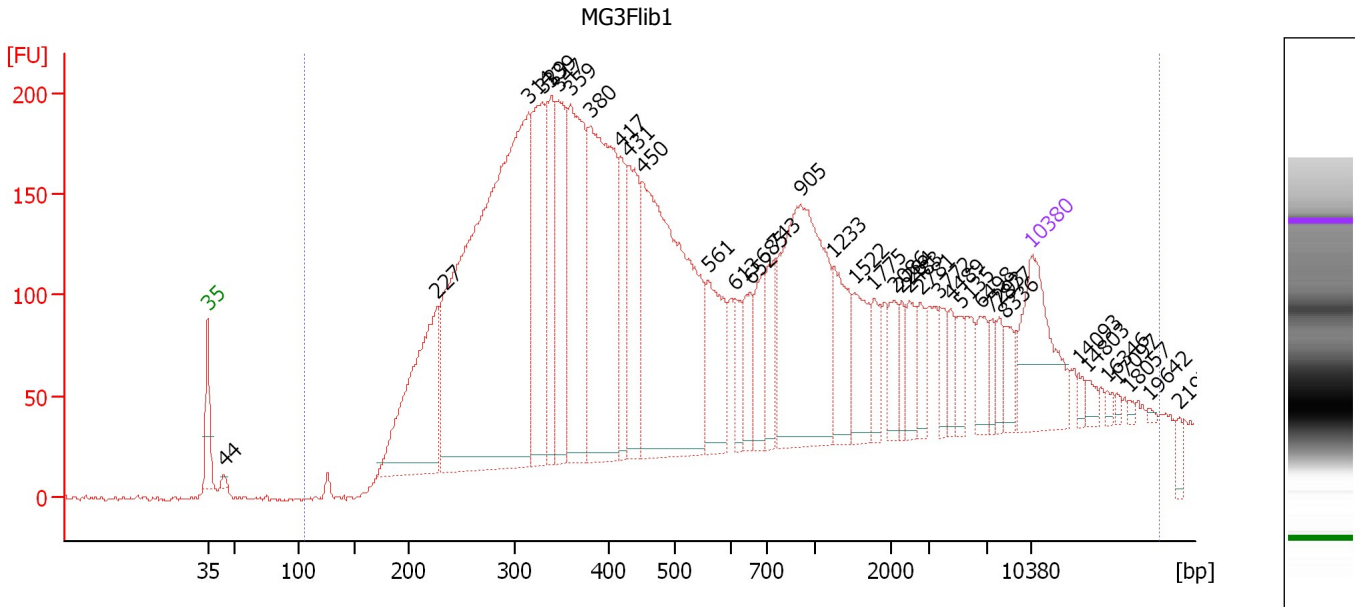
Region table for sample 9 : TT26953

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
114	356	1,000	3,666.9	99	22.0	4,942.51	22,696.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : MG3Flib1

Number of peaks found: 38 Corr. Area 1: 7,049.7
 Noise: 1.1

Peak table for sample 10 : MG3Flib1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	4.77	165.2	
3	227	219.10	1,461.0	
4	314	760.78	3,666.7	
5	329	176.61	813.1	
6	339	81.79	365.8	
7	347	124.63	544.7	
8	359	195.80	826.0	
9	380	279.53	1,114.1	
10	417	61.76	224.5	
11	431	97.55	342.7	
12	450	356.74	1,202.0	
13	561	75.85	204.9	
14	613	25.32	62.6	
15	652	34.69	80.6	
16	685	39.57	87.5	
17	743	42.27	86.2	
18	905	223.72	374.4	
19	1,233	54.35	66.8	
20	1,522	43.11	42.9	
21	1,775	20.47	17.5	
22	2,086	21.54	15.6	
23	2,284	13.74	9.1	
24	2,483	20.82	12.7	
25	2,781	17.36	9.5	
26	3,772	17.44	7.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad


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Electropherogram Summary Continued ...

... Peak table for sample 10 : MG3Flib1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,489	13.07	4.4	
28	5,135	15.25	4.5	
29	6,498	21.61	5.0	
30	7,293	10.86	2.3	
31	7,877	12.11	2.3	
32	8,336	15.04	2.7	
33	10,380	75.00	10.9	Upper Marker
34	14,093	0.00	0.0	
35	14,803	0.00	0.0	
36	16,346	0.00	0.0	
37	17,097	0.00	0.0	
38	18,057	0.00	0.0	
39	19,642	0.00	0.0	
40	21,979	0.00	0.0	

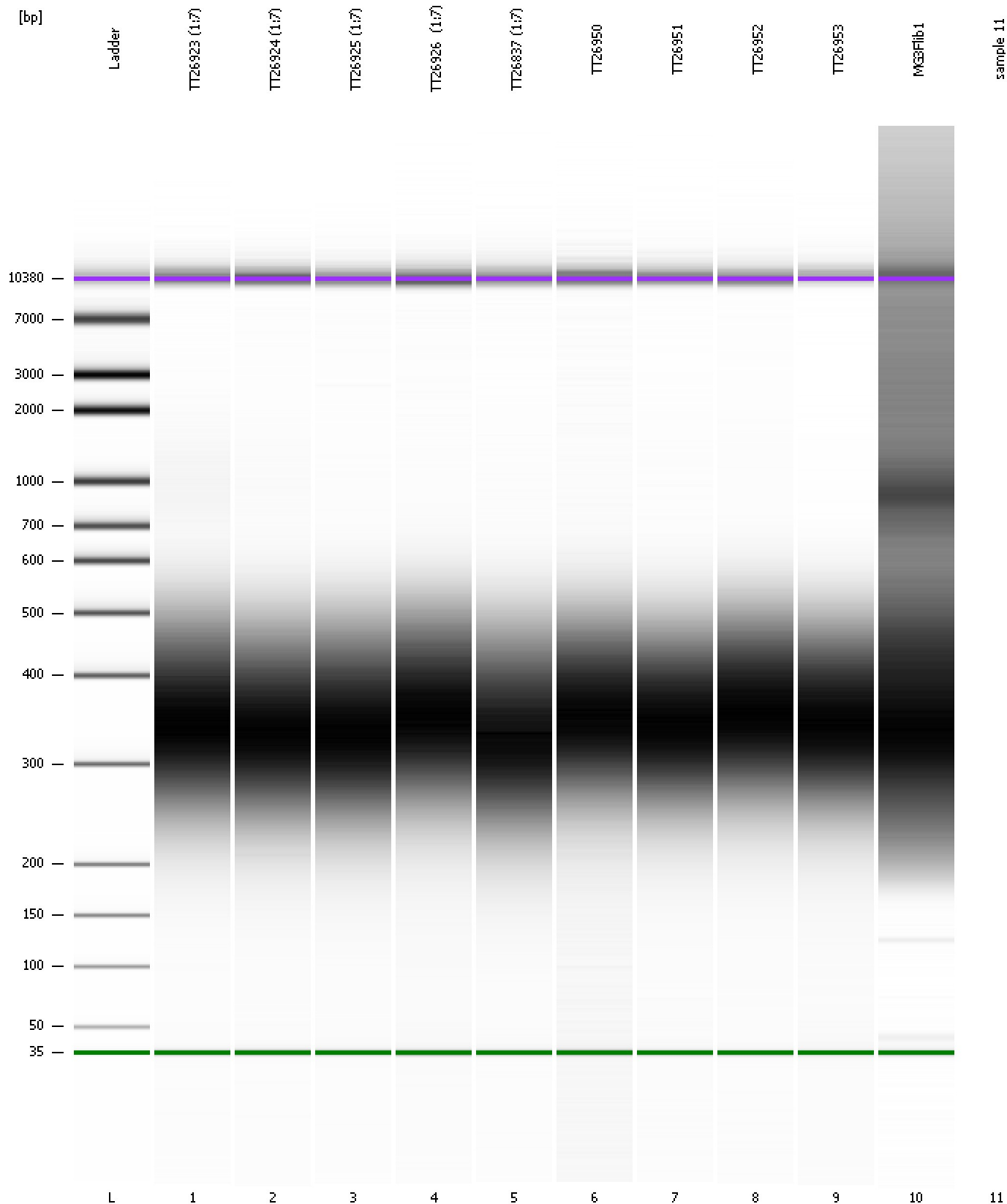
Region table for sample 10 : MG3Flib1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
104	1,840	20,436	7,049.7	100	100.0	3,310.05	12,626.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
Modified: 10/27/2014 5:47:42 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
Modified: 10/27/2014 5:47:42 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad

Created: 10/27/2014 5:08:21 PM
 Modified: 10/27/2014 5:47:42 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		10/27/2014 5:46:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-27\2014-10-27_004.xad)		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/27/2014 5:08:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1