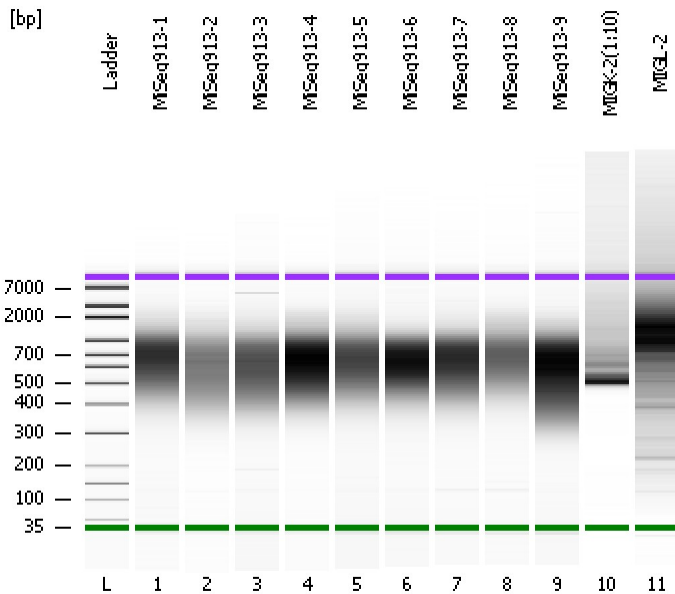


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
Modified: 11/6/2019 2:34:23 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

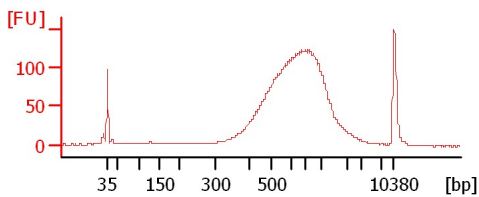
Assay Information:

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

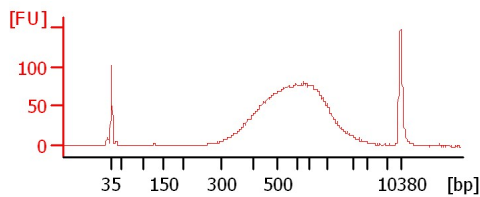
Chip Information:

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

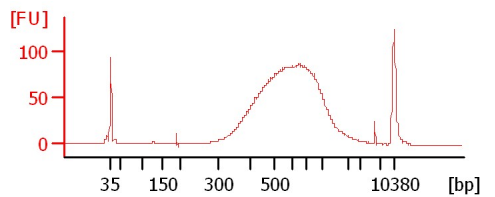
MiSeq913-1



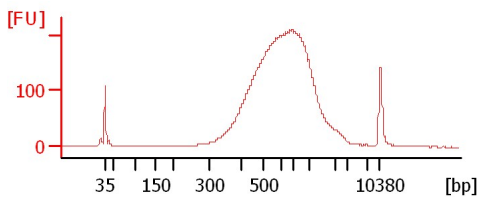
MiSeq913-2



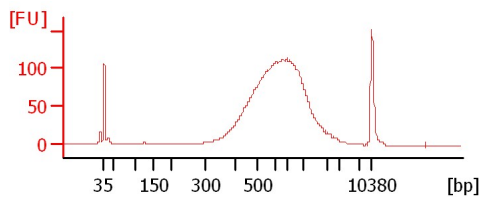
MiSeq913-3



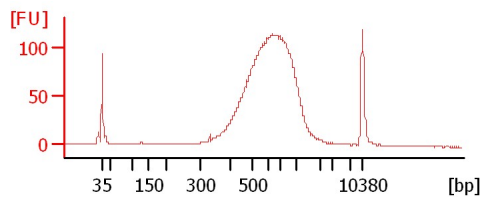
MiSeq913-4



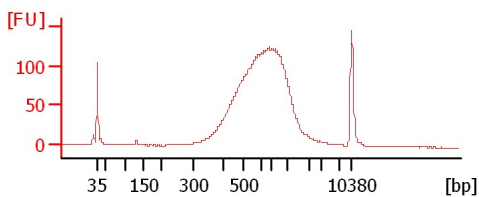
MiSeq913-5



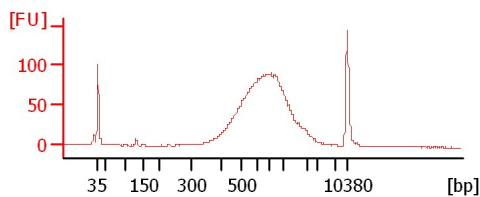
MiSeq913-6



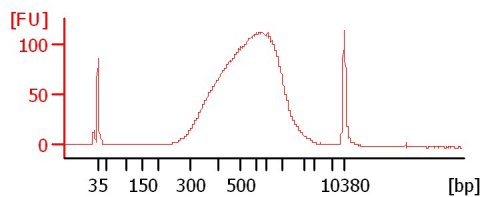
MiSeq913-7



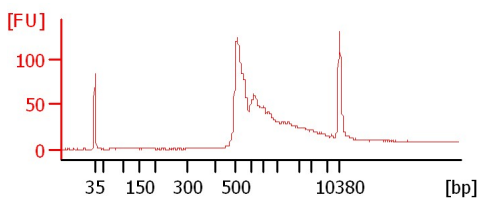
MiSeq913-8



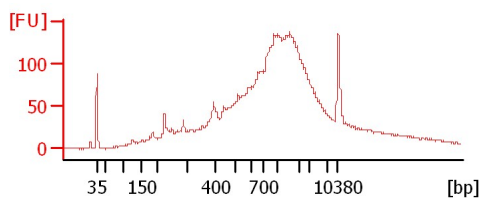
MiSeq913-9



MIGK-2(1:10)



MIGL-2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
Modified: 11/6/2019 2:34:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MiSeq913-1		<input type="checkbox"/>	✓			
MiSeq913-2		<input type="checkbox"/>	✓			
MiSeq913-3		<input type="checkbox"/>	✓			
MiSeq913-4		<input type="checkbox"/>	✓			
MiSeq913-5		<input type="checkbox"/>	✓			
MiSeq913-6		<input type="checkbox"/>	✓			
MiSeq913-7		<input type="checkbox"/>	✓			
MiSeq913-8		<input type="checkbox"/>	✓			
MiSeq913-9		<input type="checkbox"/>	✓			
MIGK-2(1:10)		<input type="checkbox"/>	✓			
MIGL-2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
Modified: 11/6/2019 2:34:23 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

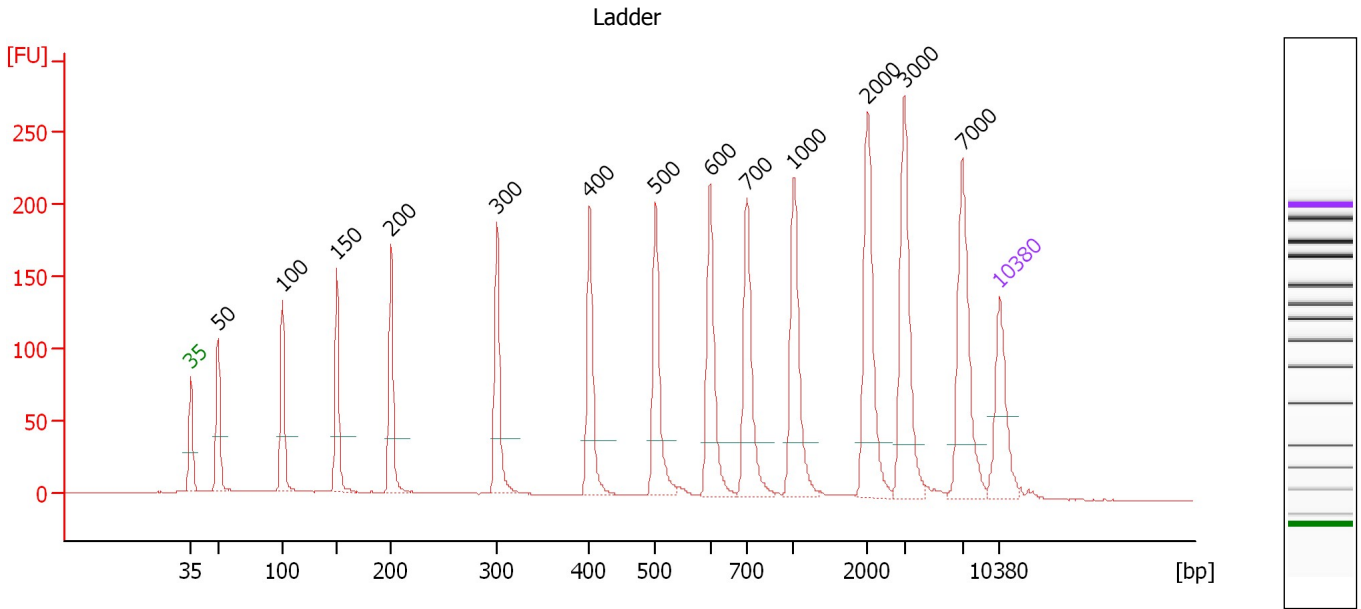
Ladder

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:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
 Modified: 11/6/2019 2:34:23 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

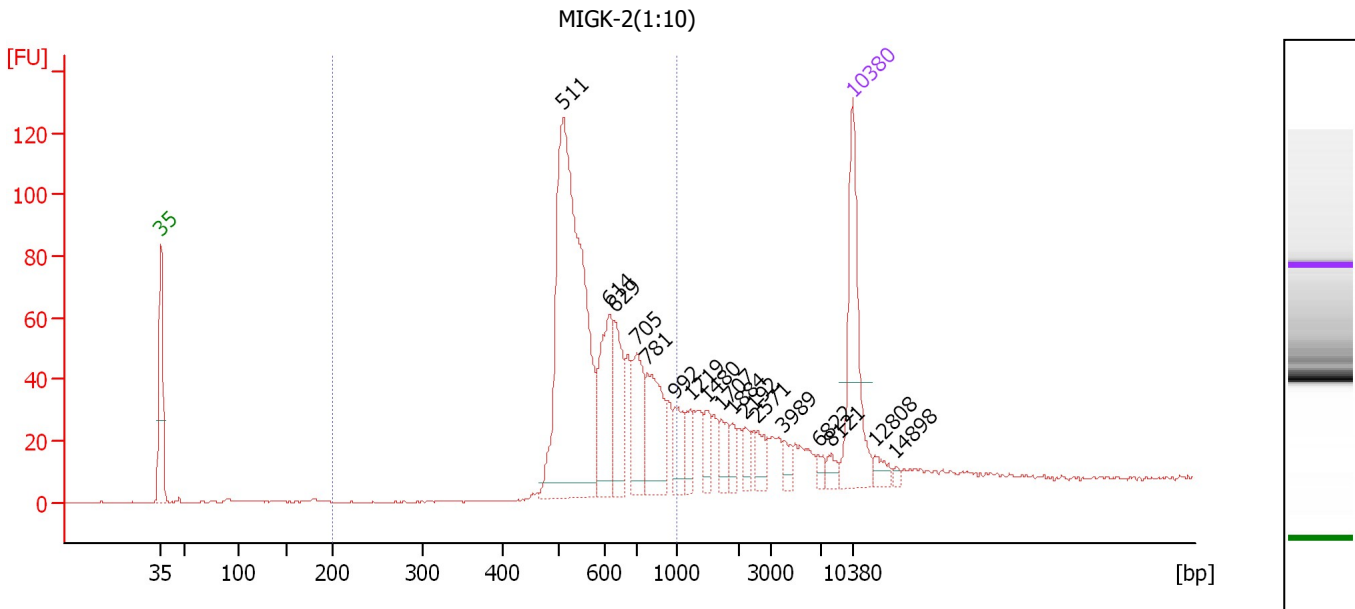
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.35
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.49
7	400	150.00	568.2	Ladder Peak	77.52
8	500	150.00	454.5	Ladder Peak	83.24
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.13
11	1,000	150.00	227.3	Ladder Peak	95.19
12	2,000	150.00	113.6	Ladder Peak	101.60
13	3,000	150.00	75.8	Ladder Peak	104.74
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
 Modified: 11/6/2019 2:34:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MIGK-2(1:10)

Number of peaks found: 17 Corr. Area 1: 785.0
 Noise: 0.2

Peak table for sample 10 : MIGK-2(1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	511	354.69	1,052.0		83.75
3	614	69.07	170.4		88.39
4	629	49.29	118.7		88.88
5	705	49.69	106.8		91.20
6	781	60.70	117.8		92.22
7	992	22.54	34.4		95.08
8	1,219	14.40	17.9		96.59
9	1,480	13.38	13.7		98.27
10	1,707	14.16	12.6		99.72
11	1,884	9.59	7.7		100.86
12	2,192	9.28	6.4		102.21
13	2,571	11.71	6.9		103.39
14	3,989	8.18	3.1		105.98
15	6,822	4.95	1.1		109.55
16	8,121	7.06	1.3		110.84
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,808	0.00	0.0		115.32
19	14,898	0.00	0.0		117.32

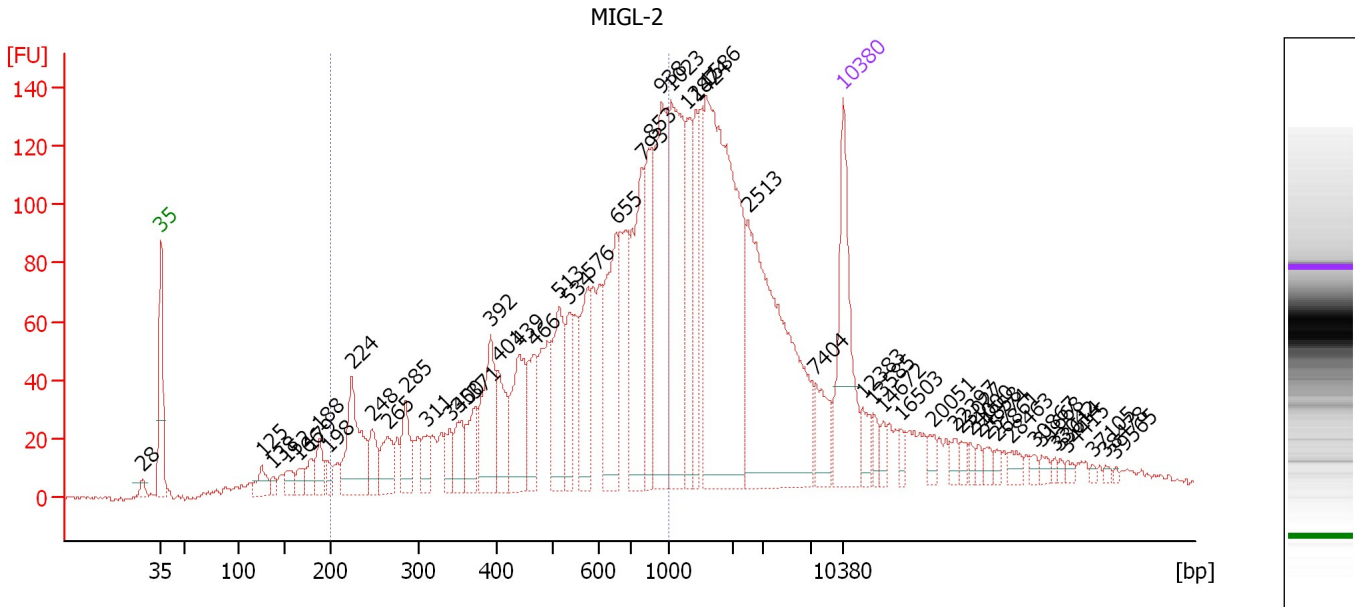
Region table for sample 10 : MIGK-2(1:10)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	618	592.80	785.0	1,516.2	71	20.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
 Modified: 11/6/2019 2:34:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MIGL-2

Number of peaks found: 53 Corr. Area 1: 1,930.8
 Noise: 1.0

Peak table for sample 11 : MIGL-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	125	19.75	238.5		53.34
4	138	6.82	75.0		54.48
5	152	14.46	144.0		55.85
6	166	11.31	103.5		57.11
7	179	15.01	127.1		58.37
8	188	22.72	182.9		59.24
9	198	11.33	86.7		60.17
10	224	81.42	549.8		62.58
11	248	25.84	158.1		64.71
12	265	30.14	172.3		66.30
13	285	33.29	177.1		68.10
14	311	18.38	89.6		70.34
15	340	16.26	72.5		72.70
16	350	25.95	112.3		73.52
17	371	30.76	125.5		75.21
18	392	64.64	250.0		76.85
19	401	37.15	140.4		77.56
20	439	58.85	203.1		79.75
21	466	39.85	129.6		81.28
22	513	64.08	189.3		83.85
23	534	31.36	89.0		84.84
24	576	54.52	143.5		86.80
25	655	89.42	206.8		89.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
 Modified: 11/6/2019 2:34:23 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : MIGL-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	793	91.79	175.4		92.38
27	853	66.30	117.7		93.20
28	938	109.79	177.3		94.35
29	1,023	128.42	190.2		95.34
30	1,287	52.28	61.5		97.03
31	1,424	47.99	51.1		97.91
32	1,586	258.42	246.9		98.95
33	2,513	197.05	118.8		103.21
34	7,404	24.21	5.0		110.16
35	10,380	75.00	10.9	Upper Marker	113.00
36	12,383	0.00	0.0		114.91
37	13,585	0.00	0.0		116.06
38	14,672	0.00	0.0		117.10
39	16,503	0.00	0.0		118.85
40	20,051	0.00	0.0		122.24
41	22,397	0.00	0.0		124.48
42	23,027	0.00	0.0		125.09
43	24,000	0.00	0.0		126.02
44	24,858	0.00	0.0		126.84
45	25,774	0.00	0.0		127.71
46	26,861	0.00	0.0		128.75
47	28,463	0.00	0.0		130.28
48	30,867	0.00	0.0		132.58
49	31,668	0.00	0.0		133.34
50	33,042	0.00	0.0		134.66
51	33,614	0.00	0.0		135.20
52	34,415	0.00	0.0		135.97
53	37,105	0.00	0.0		138.54
54	38,478	0.00	0.0		139.85
55	39,565	0.00	0.0		140.89

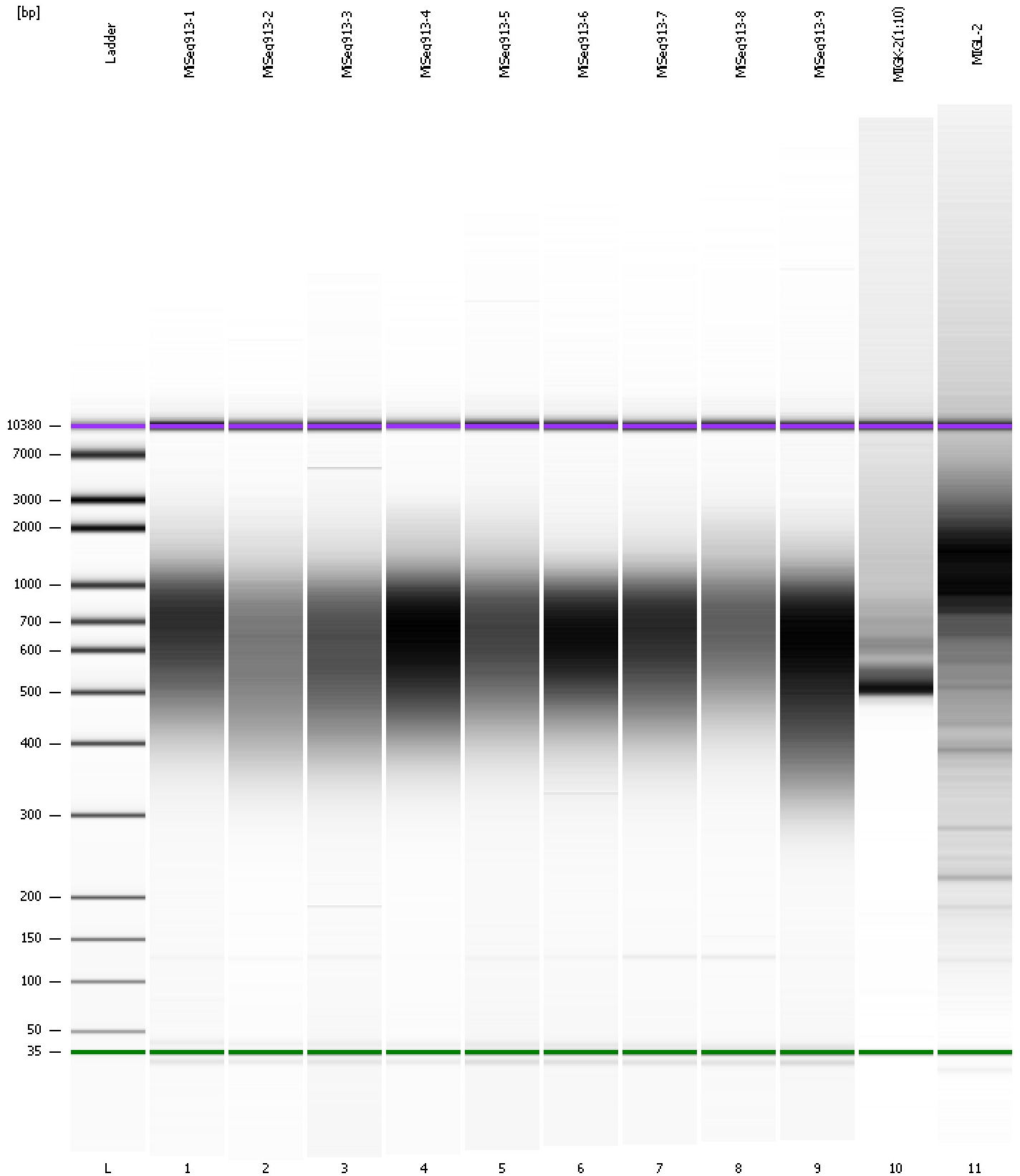
Region table for sample 11 : MIGL-2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	580	1,270.39	1,930.8	4,236.4	51	36.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
Modified: 11/6/2019 2:34:23 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad

Created: 11/6/2019 1:53:04 PM
 Modified: 11/6/2019 2:34:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/6/2019 2:34:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-06\2019-11-06_003.xad)		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/6/2019 1:53:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1