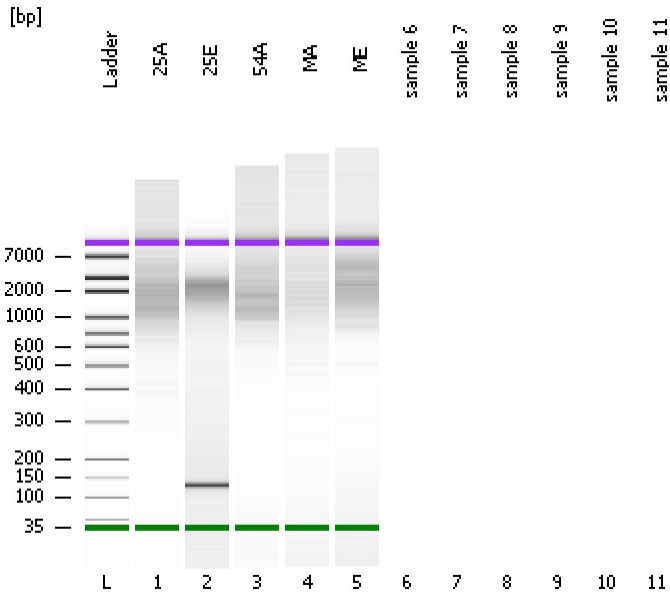


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
Modified: 12/19/2014 1:55:22 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

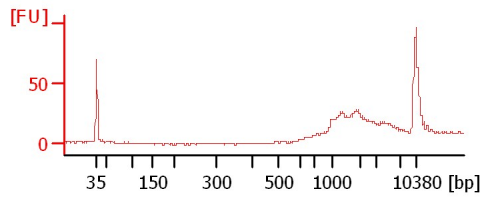
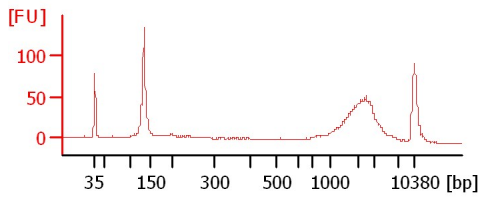
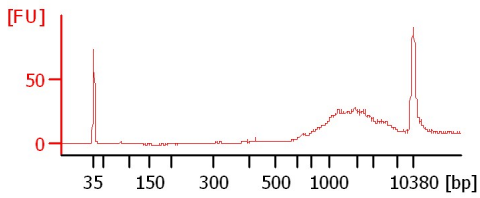
Chip Information:

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

25A

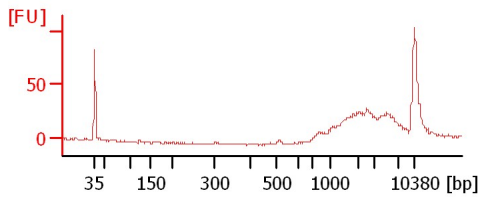
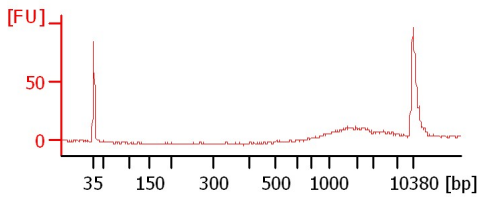
25E

54A



MA

ME



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
Modified: 12/19/2014 1:55:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
25A		<input type="checkbox"/>	✓			
25E		<input type="checkbox"/>	✓			
54A		<input type="checkbox"/>	✓			
MA		<input type="checkbox"/>	✓			
ME		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<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\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
Modified: 12/19/2014 1:55:22 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

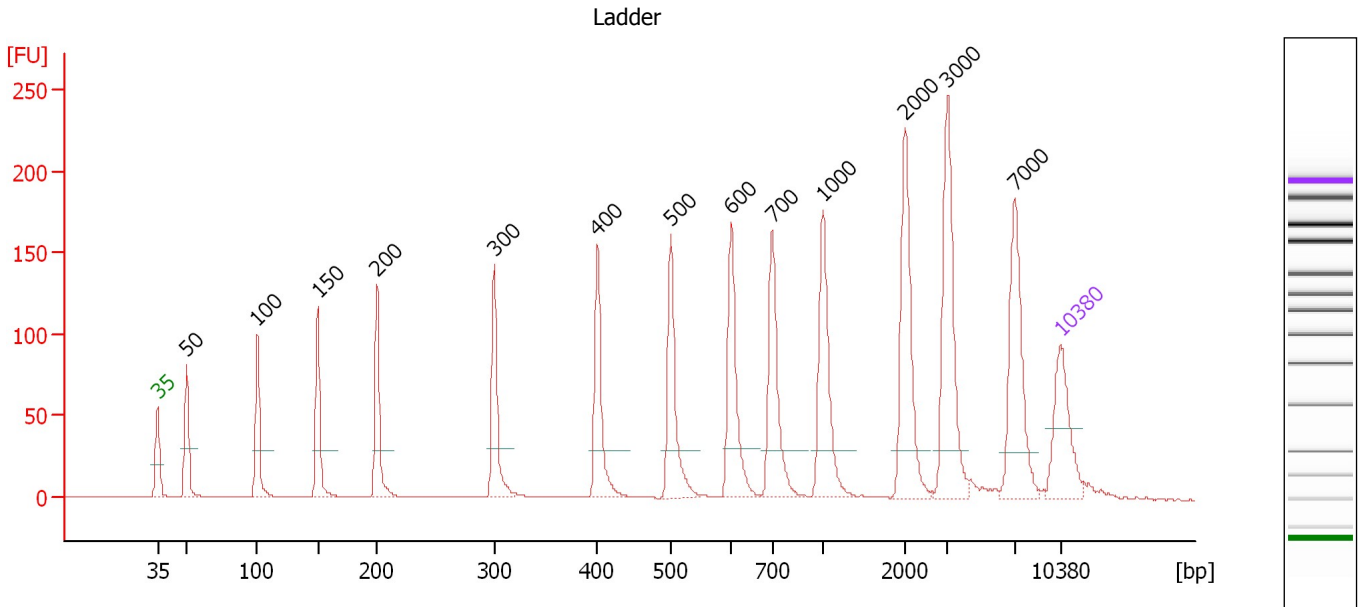
Ladder

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\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

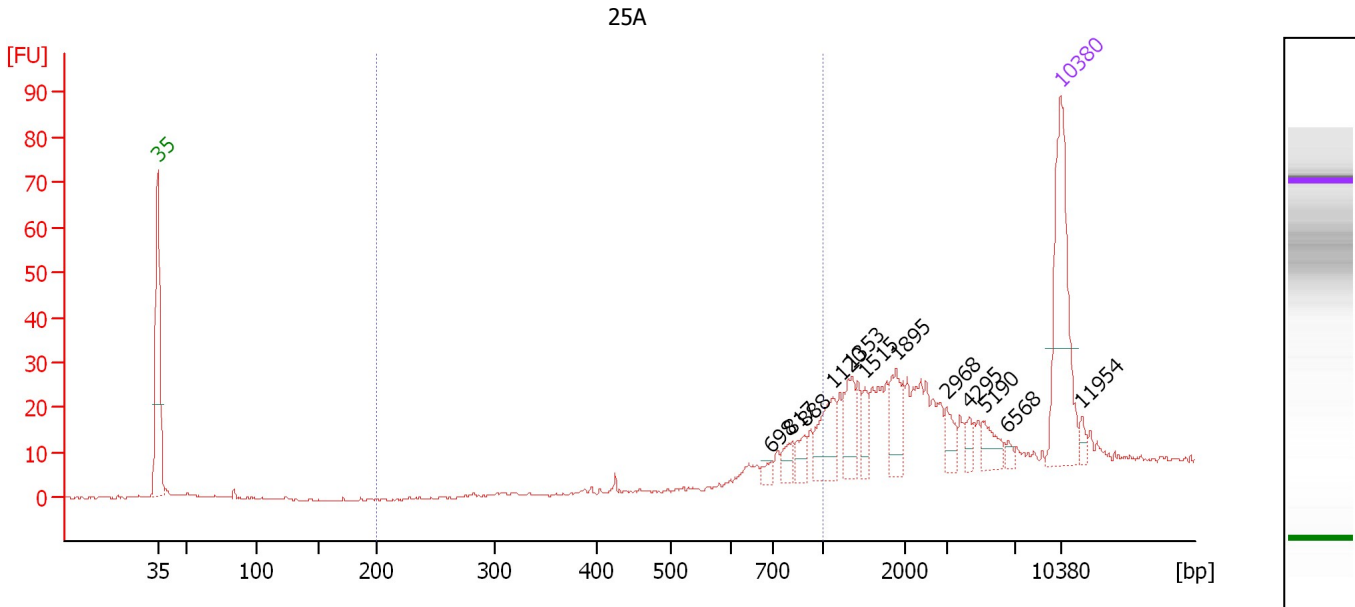
Peak table for Ladder

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.41
5	200	150.00	1,136.4	Ladder Peak	60.03
6	300	150.00	757.6	Ladder Peak	69.11
7	400	150.00	568.2	Ladder Peak	77.11
8	500	150.00	454.5	Ladder Peak	82.76
9	600	150.00	378.8	Ladder Peak	87.47
10	700	150.00	324.7	Ladder Peak	90.63
11	1,000	150.00	227.3	Ladder Peak	94.59
12	2,000	150.00	113.6	Ladder Peak	100.95
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.44
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 25A

Number of peaks found: 12 Corr. Area 1: 41.2
 Noise: 0.2

Peak table for sample 1 : 25A

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	698	5.25	11.4		90.56
3	817	9.49	17.6		92.17
4	888	8.83	15.1		93.12
5	1,120	28.11	38.0		95.35
6	1,353	20.71	23.2		96.83
7	1,515	10.88	10.9		97.86
8	1,895	22.93	18.3		100.28
9	2,968	10.16	5.2		104.13
10	4,295	6.01	2.1		105.92
11	5,190	12.56	3.7		107.09
12	6,568	3.53	0.8		108.88
13	10,380	75.00	10.9	Upper Marker	113.00
14	11,954	0.00	0.0		114.66

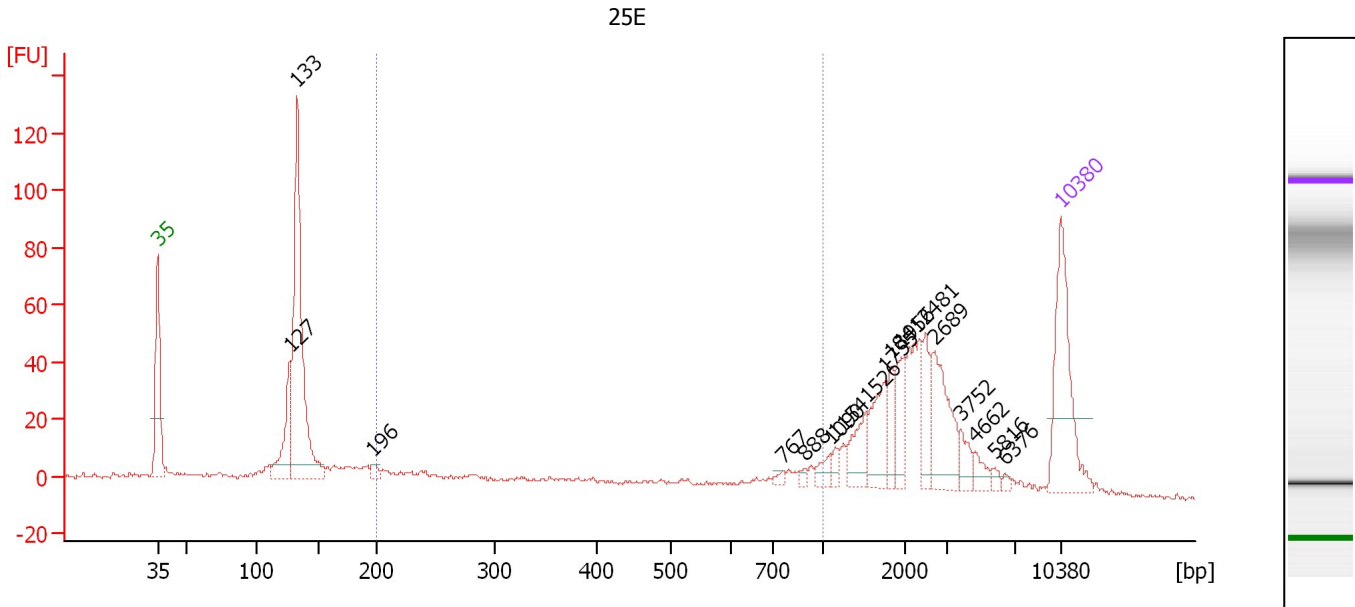
Region table for sample 1 : 25A

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	840	1,000	41.2	13	13.3	42.35	77.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 25E

Number of peaks found: 17 Corr. Area 1: 151.7
 Noise: 0.7

Peak table for sample 2 : 25E

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	127	66.27	791.9		53.24
3	133	247.53	2,817.1		53.83
4	196	6.85	52.9		59.66
5	767	3.54	7.0		91.52
6	888	3.64	6.2		93.11
7	1,090	9.43	13.1		95.16
8	1,154	6.76	8.9		95.57
9	1,526	24.28	24.1		97.93
10	1,755	32.77	28.3		99.39
11	1,841	18.50	15.2		99.94
12	1,956	24.15	18.7		100.67
13	2,481	22.40	13.7		102.53
14	2,689	55.16	31.1		103.21
15	3,752	11.47	4.6		105.22
16	4,662	9.97	3.2		106.40
17	5,816	3.74	1.0		107.90
18	6,376	2.43	0.6		108.63
19	10,380	75.00	10.9	Upper Marker	113.00

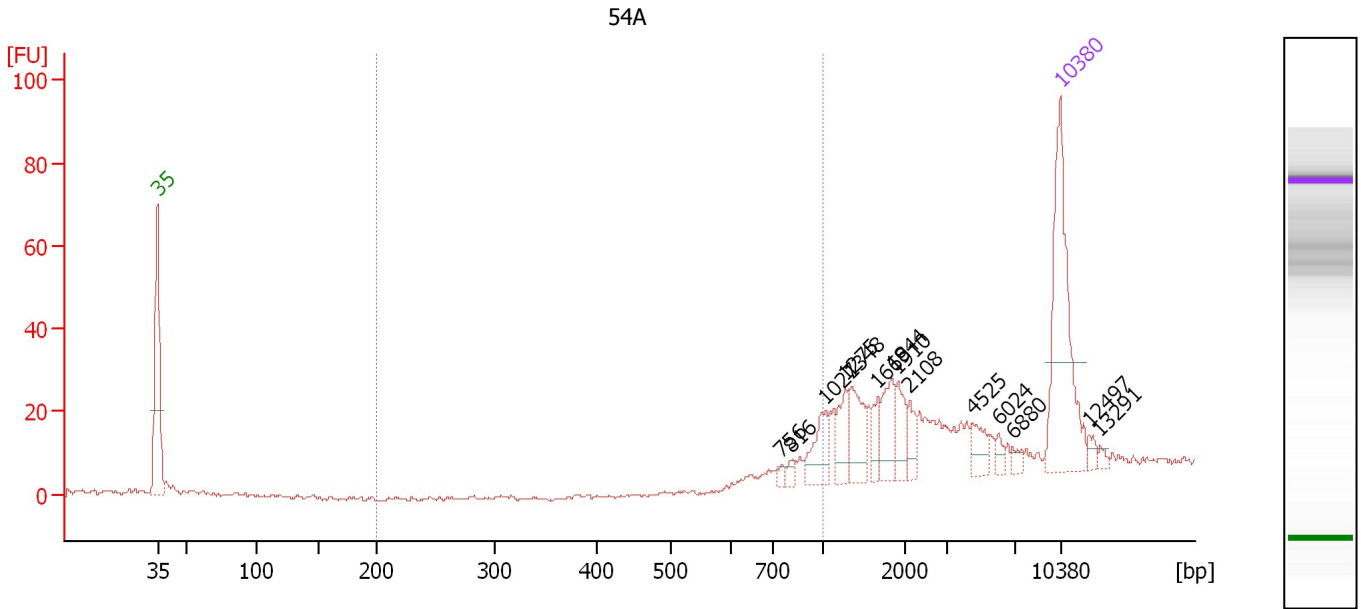
Region table for sample 2 : 25E

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	508	1,000	151.7	16	48.4	144.88	615.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 54A

Number of peaks found: 14 Corr. Area 1: 18.1
 Noise: 0.5

Peak table for sample 3 : 54A

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	756	3.22	6.4		91.37
3	816	4.54	8.4		92.16
4	1,027	21.69	32.0		94.76
5	1,275	16.52	19.6		96.34
6	1,348	24.10	27.1		96.80
7	1,669	10.30	9.4		98.84
8	1,844	20.49	16.8		99.96
9	1,910	14.05	11.1		100.37
10	2,108	9.30	6.7		101.30
11	4,525	11.69	3.9		106.22
12	6,024	4.18	1.1		108.17
13	6,880	3.59	0.8		109.29
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,497	0.00	0.0		115.23
16	13,291	0.00	0.0		116.06

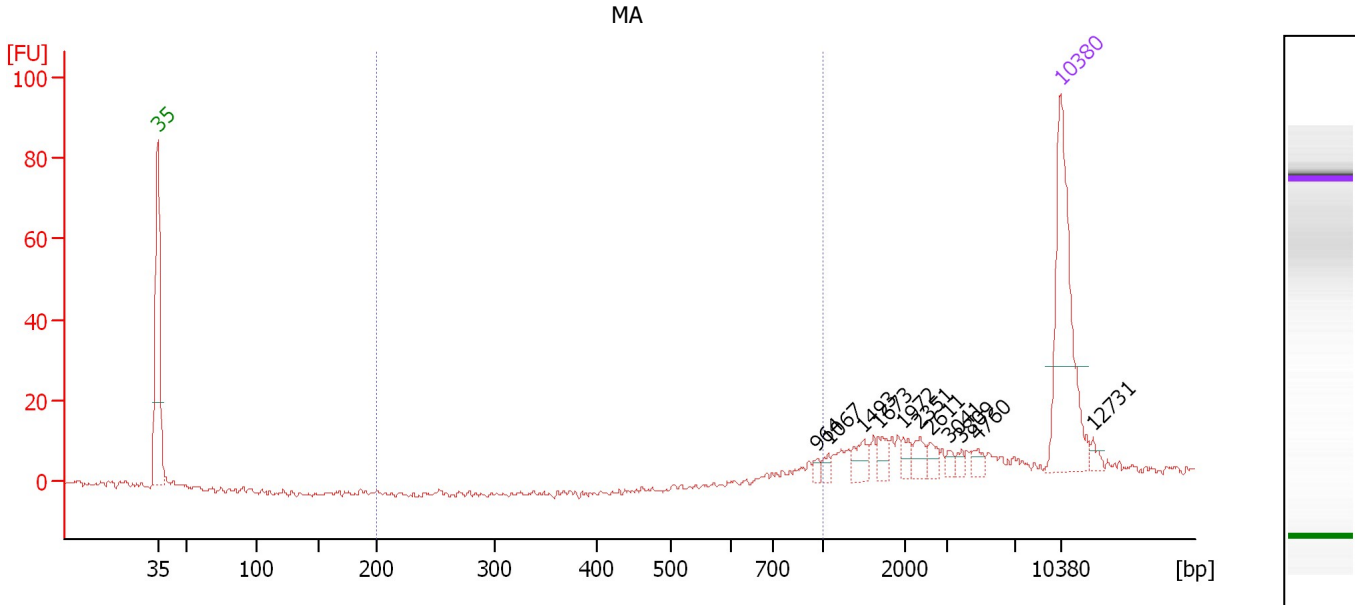
Region table for sample 3 : 54A

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	908	1,000	18.1	7	8.8	15.23	25.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MA

Number of peaks found: 11 Corr. Area 1: 3.4
 Noise: 0.6

Peak table for sample 4 : MA

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	964	3.03	4.8		94.11
3	1,067	3.95	5.6		95.01
4	1,493	9.80	9.9		97.72
5	1,673	6.57	5.9		98.87
6	1,972	5.49	4.2		100.77
7	2,351	6.94	4.5		102.10
8	2,611	5.49	3.2		102.96
9	3,041	3.01	1.5		104.29
10	3,809	2.88	1.1		105.29
11	4,760	4.58	1.5		106.53
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,731	0.00	0.0		115.47

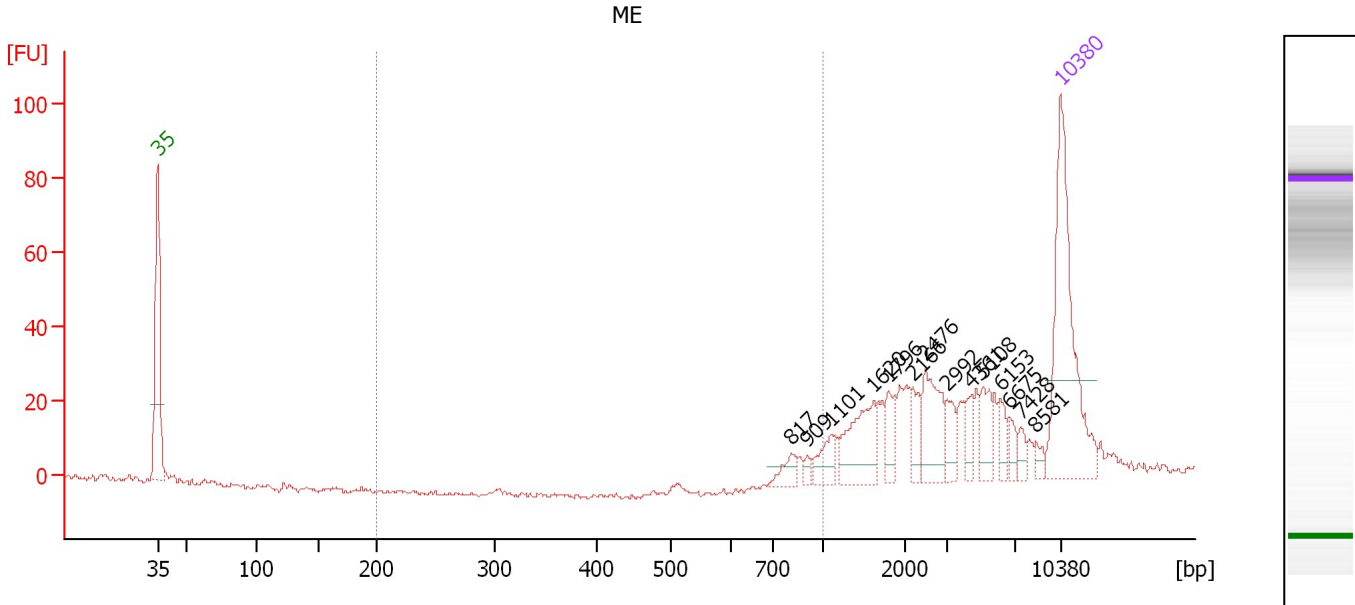
Region table for sample 4 : MA

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	943	1,000	3.4	4	4.0	2.74	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ME

Number of peaks found: 14 Corr. Area 1: 14.2
 Noise: 0.7

Peak table for sample 5 : ME

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	817	8.36	15.5		92.17
3	909	3.33	5.6		93.39
4	1,101	12.24	16.8		95.23
5	1,620	31.86	29.8		98.53
6	1,796	10.55	8.9		99.65
7	2,166	10.59	7.4		101.50
8	2,476	27.47	16.8		102.51
9	2,992	9.44	4.8		104.21
10	4,361	7.61	2.6		106.01
11	5,108	12.44	3.7		106.98
12	6,153	7.61	1.9		108.34
13	6,675	5.48	1.2		109.02
14	7,428	5.41	1.1		109.89
15	8,581	3.75	0.7		111.11
16	10,380	75.00	10.9	Upper Marker	113.00

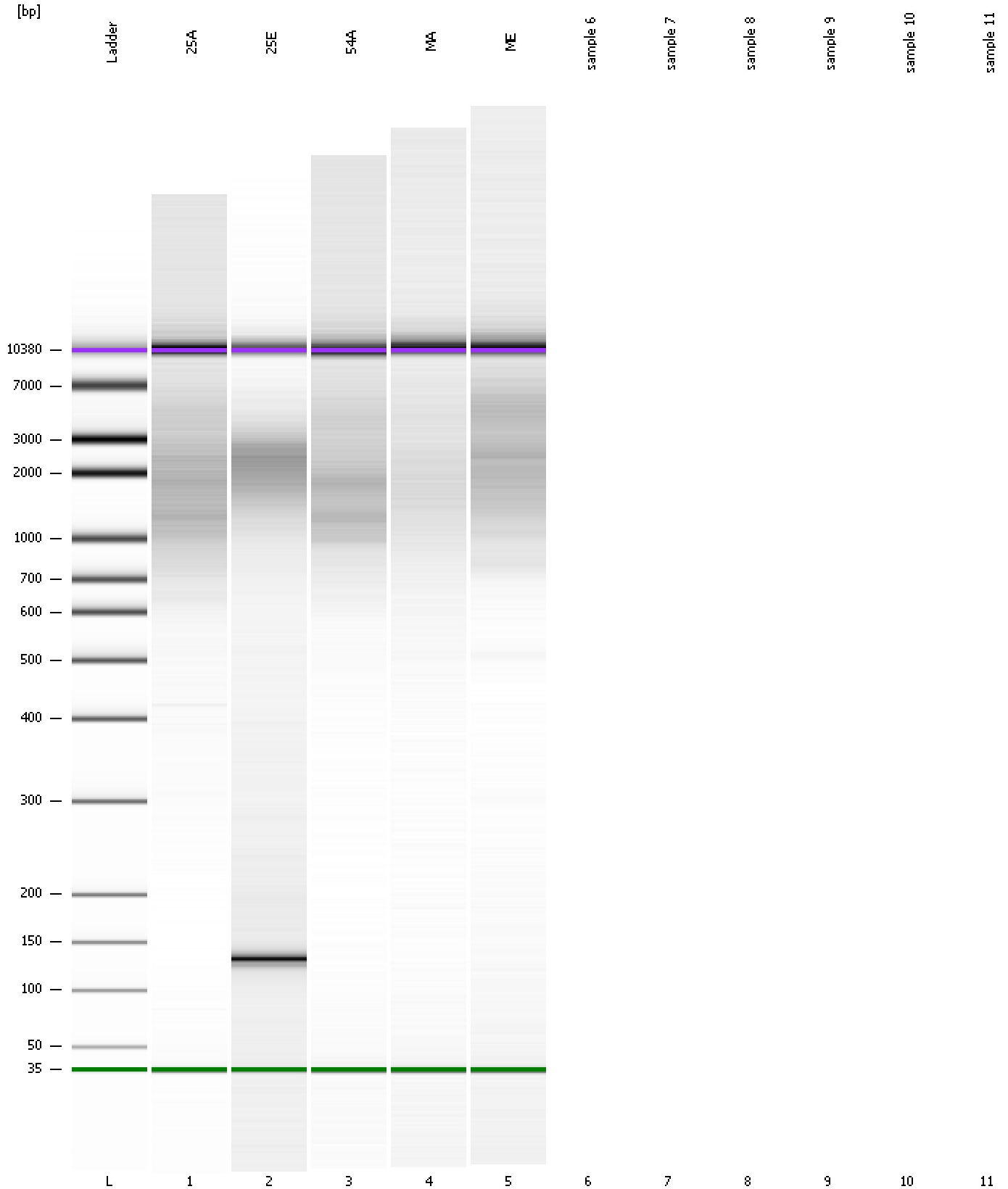
Region table for sample 5 : ME

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	888	1,000	14.2	4	7.8	9.22	15.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
Modified: 12/19/2014 1:55:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
Modified: 12/19/2014 1:55:22 PM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad

Created: 12/19/2014 1:31:04 PM
 Modified: 12/19/2014 1:55:22 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		12/19/2014 1:55:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-19\2014-12-19_002.xad)		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/19/2014 1:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1