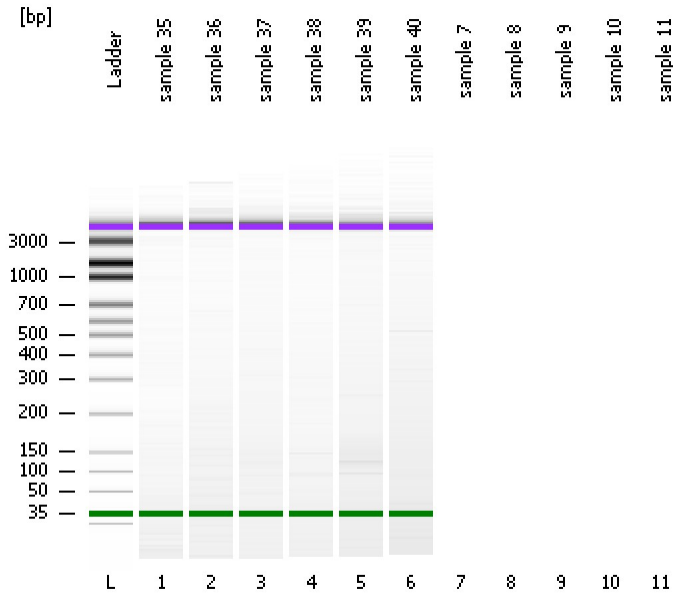


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
Modified: 2/3/2015 2:45:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

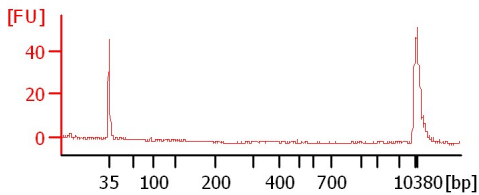
Assay Information:

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

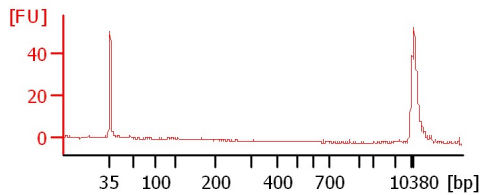
Chip Information:

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

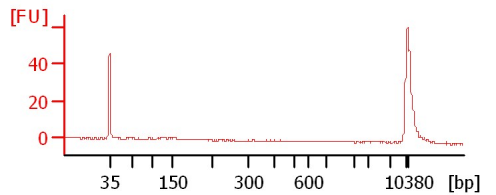
sample 35



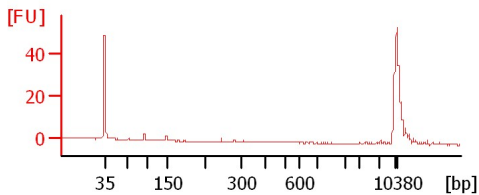
sample 36



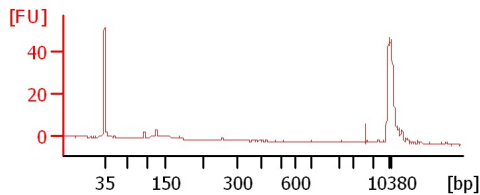
sample 37



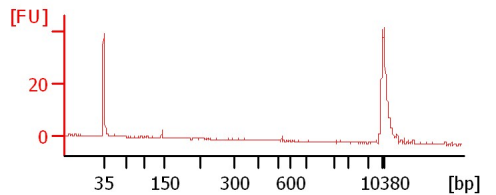
sample 38



sample 39



sample 40



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 35		<input type="checkbox"/>				
sample 36		<input type="checkbox"/>				
sample 37		<input type="checkbox"/>				
sample 38		<input type="checkbox"/>				
sample 39		<input type="checkbox"/>				
sample 40		<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\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
Modified: 2/3/2015 2:45:41 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

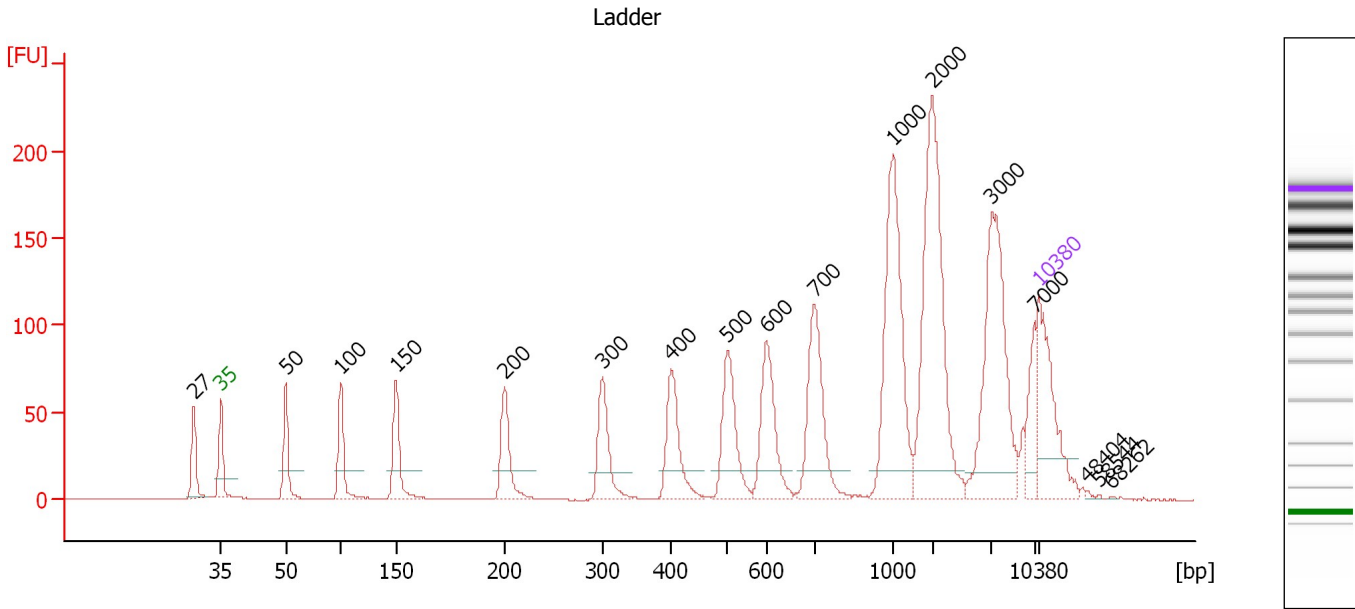
Ladder

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\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

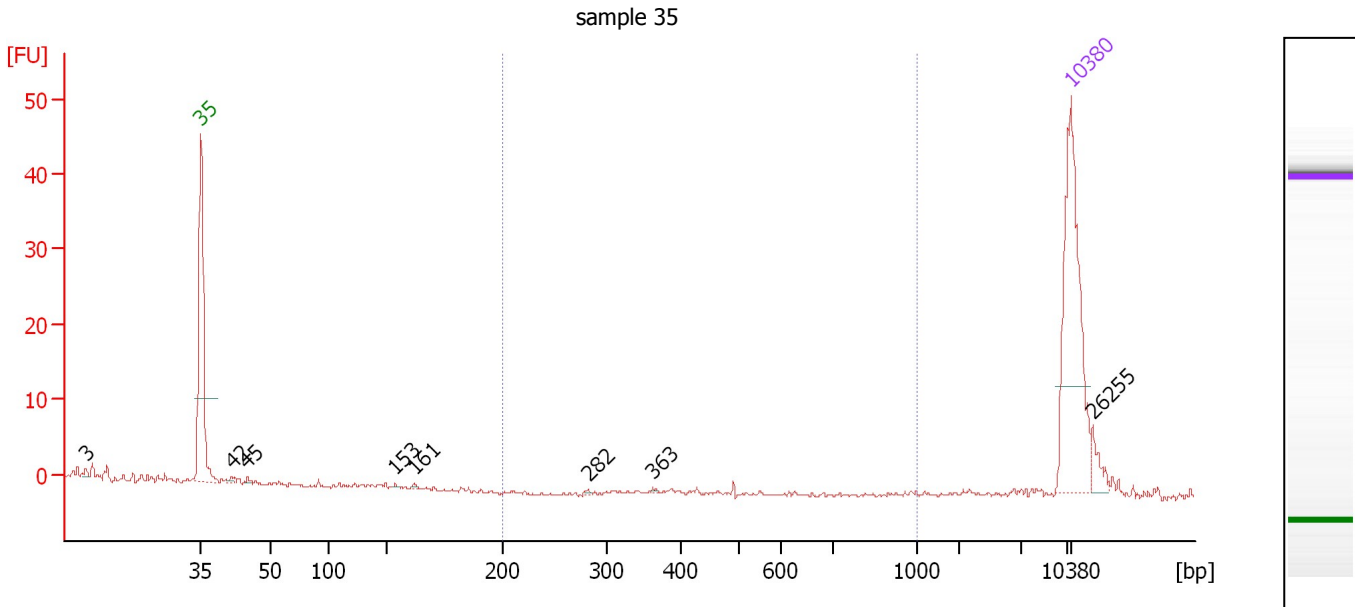
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.67
2	35	125.00	5,411.3	Lower Marker	43.00
3	50	150.00	4,545.5	Ladder Peak	48.53
4	100	150.00	2,272.7	Ladder Peak	53.27
5	150	150.00	1,515.2	Ladder Peak	57.98
6	200	150.00	1,136.4	Ladder Peak	67.29
7	300	150.00	757.6	Ladder Peak	75.65
8	400	150.00	568.2	Ladder Peak	81.54
9	500	150.00	454.5	Ladder Peak	86.33
10	600	150.00	378.8	Ladder Peak	89.67
11	700	150.00	324.7	Ladder Peak	93.78
12	1,000	150.00	227.3	Ladder Peak	100.58
13	2,000	150.00	113.6	Ladder Peak	103.91
14	3,000	150.00	75.8	Ladder Peak	108.98
15	7,000	150.00	32.5	Ladder Peak	112.63
16	10,380	75.00	10.9	Upper Marker	113.00
17	48,404	0.00	0.0		117.11
18	58,544	0.00	0.0		118.21
19	68,262	0.00	0.0		119.26

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : sample 35

Height Threshold [FU] : 0.1

Overall Results for sample 1 : sample 35

Number of peaks found: 8 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for sample 1 : sample 35

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	3	0.00	0.0		33.74
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	2.03	73.6		45.49
4	45	1.35	45.4		46.73
5	153	0.40	4.0		58.61
6	161	0.74	6.9		60.11
7	282	0.67	3.6		74.14
8	363	0.42	1.7		79.37
9	10,380	75.00	10.9	Upper Marker	113.00
10	26,255	0.00	0.0		114.72

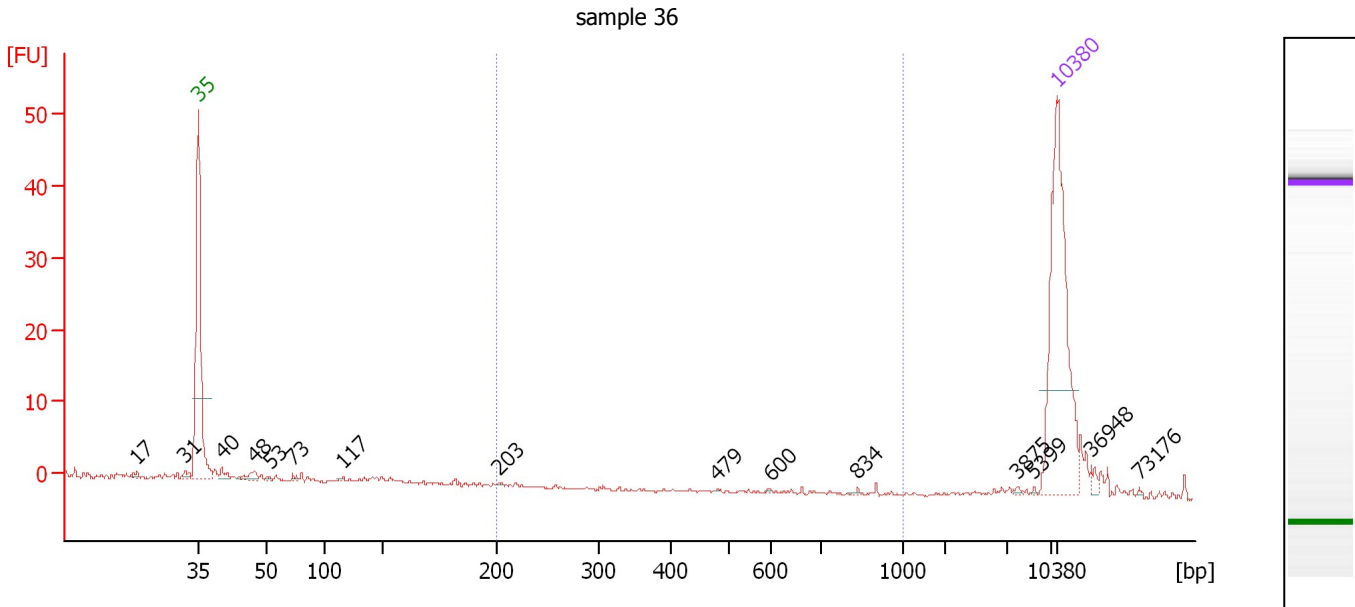
Region table for sample 1 : sample 35

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	489	1,000	0.1	1	0.1	0.13	0.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : sample 36

Height Threshold [FU] : 0.1

Overall Results for sample 2 : sample 36

Number of peaks found: 15 Corr. Area 1: 0.4
 Noise: 0.2

Peak table for sample 2 : sample 36

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	17	0.00	0.0		37.95
2	31	0.00	0.0		41.91
3	35	125.00	5,411.3	Lower Marker	43.00
4	40	4.25	160.1		44.91
5	48	5.22	166.5		47.61
6	53	0.78	22.2		48.83
7	73	1.22	25.3		50.70
8	117	0.57	7.4		54.83
9	203	0.41	3.0		67.54
10	479	0.21	0.7		85.33
11	600	0.23	0.6		89.68
12	834	0.45	0.8		96.82
13	3,875	0.53	0.2		109.78
14	5,399	0.29	0.1		111.17
15	10,380	75.00	10.9	Upper Marker	113.00
16	36,948	0.00	0.0		115.87
17	73,176	0.00	0.0		119.79

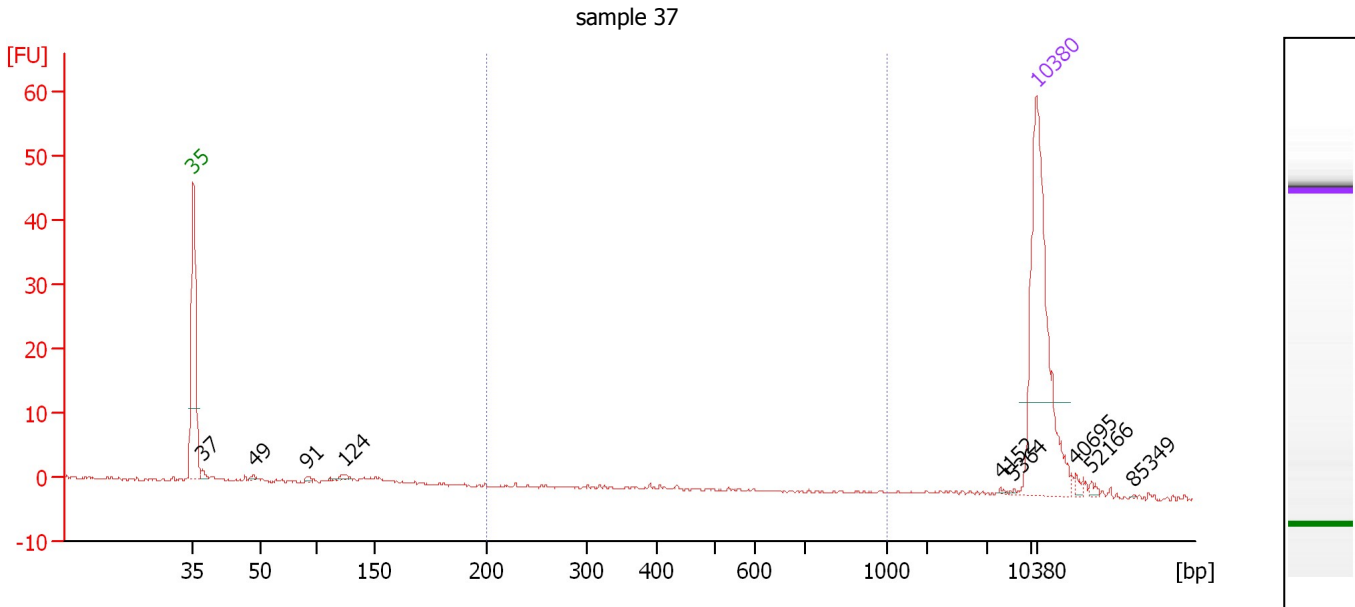
Region table for sample 2 : sample 36

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	840	1,000	0.4	2	11.6	0.53	1.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : sample 37

Height Threshold [FU] : 0.1

Overall Results for sample 3 : sample 37

Number of peaks found: 9 Corr. Area 1: 9.0
 Noise: 0.2

Peak table for sample 3 : sample 37

Pea k	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	37	2.75	112.4		43.75
3	49	1.25	39.0		48.05
4	91	1.58	26.4		52.39
5	124	2.95	36.2		55.49
6	4,152	0.31	0.1	Upper Marker	110.03
7	5,364	0.24	0.1		111.14
8	10,380	75.00	10.9		113.00
9	40,695	0.00	0.0		116.28
10	52,166	0.00	0.0		117.52
11	85,349	0.00	0.0		121.10

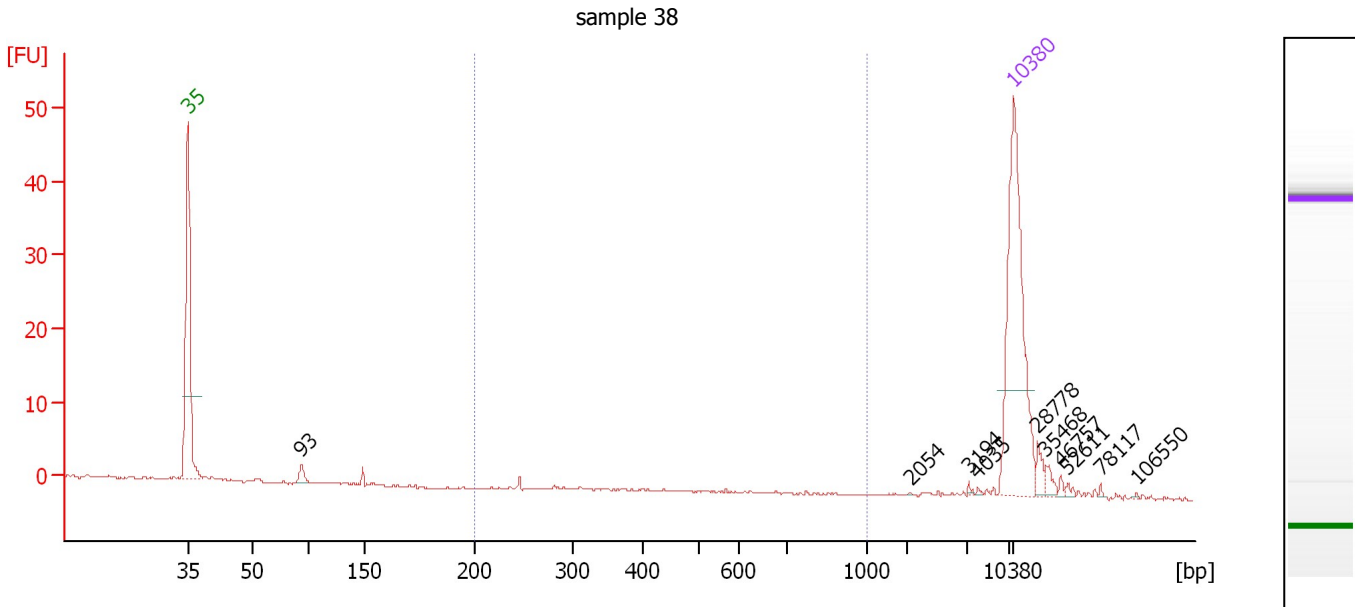
Region table for sample 3 : sample 37

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	548	1,000	9.0	21	41.5	10.63	38.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : sample 38

Height Threshold [FU] : 0.1

Overall Results for sample 4 : sample 38

Number of peaks found: 10 Corr. Area 1: 0.5
 Noise: 0.1

Peak table for sample 4 : sample 38

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	93	5.51	90.1		52.58
3	2,054	0.15	0.1		104.19
4	3,194	0.44	0.2		109.16
5	4,035	0.37	0.1		109.93
6	10,380	75.00	10.9	Upper Marker	113.00
7	28,778	0.00	0.0		114.99
8	35,468	0.00	0.0		115.71
9	46,757	0.00	0.0		116.93
10	52,611	0.00	0.0		117.56
11	78,117	0.00	0.0		120.32
12	106,550	0.00	0.0		123.39

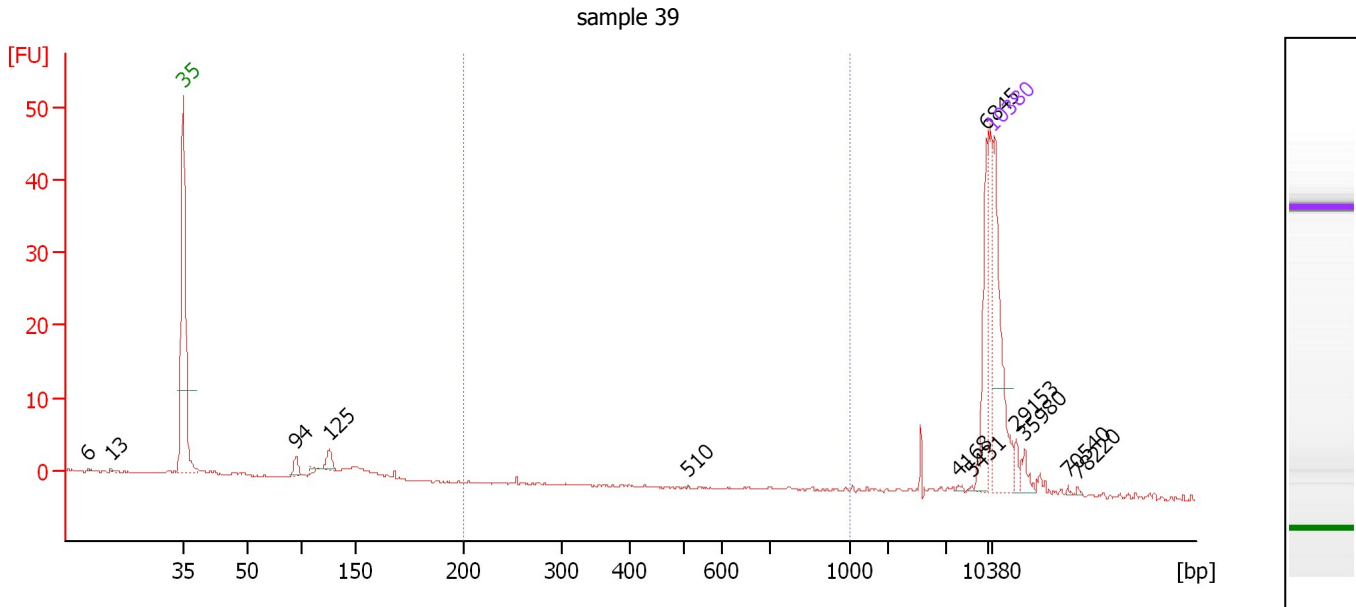
Region table for sample 4 : sample 38

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	361	1,000	0.5	3	50.4	0.87	4.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : sample 39

Height Threshold [FU] : 0.1

Overall Results for sample 5 : sample 39

Number of peaks found: 12 Corr. Area 1: 1.4
 Noise: 0.1

Peak table for sample 5 : sample 39

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	6	0.00	0.0		34.75
2	13	0.00	0.0		36.73
3	35	125.00	5,411.3	Lower Marker	43.00
4	94	10.79	173.4		52.73
5	125	11.57	140.1		55.64
6	510	0.51	1.5		86.67
7	4,168	0.87	0.3		110.05
8	5,431	0.51	0.1		111.20
9	6,845	47.82	10.6		112.49
10	10,380	75.00	10.9	Upper Marker	113.00
11	29,153	0.00	0.0		115.03
12	35,980	0.00	0.0		115.77
13	70,540	0.00	0.0		119.50
14	78,220	0.00	0.0		120.33

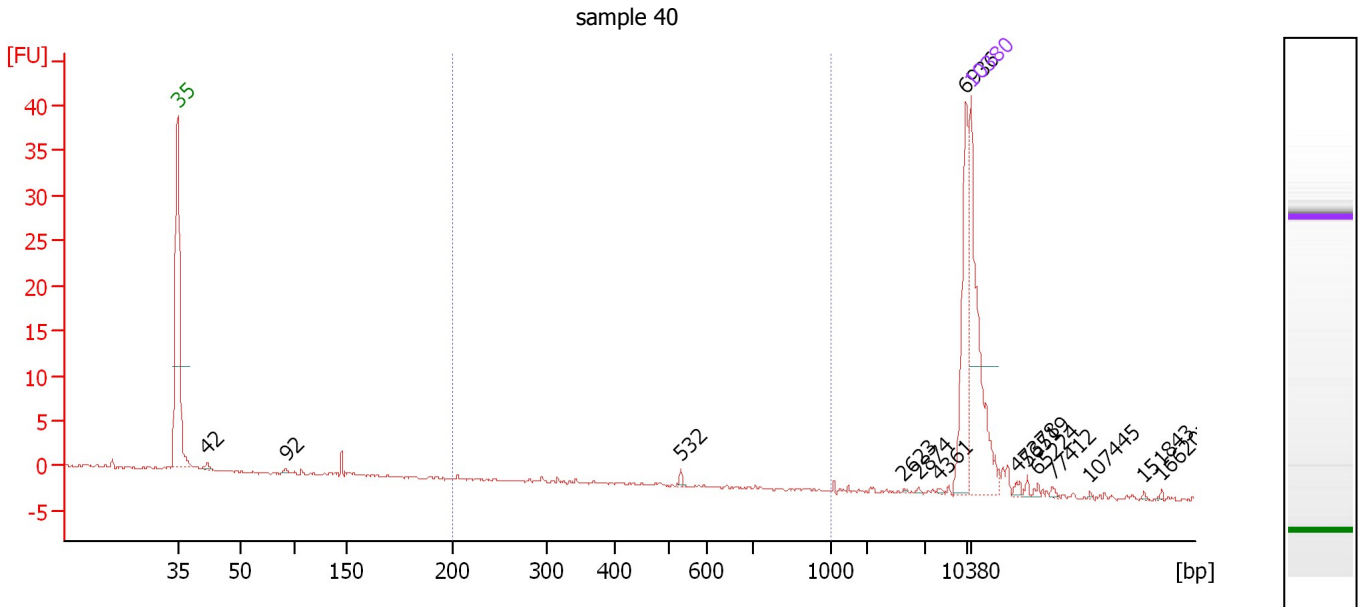
Region table for sample 5 : sample 39

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	748	1,000	1.4	2	29.5	3.51	9.4	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
 Modified: 2/3/2015 2:45:41 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : sample 40

Height Threshold [FU] : 0.1

Overall Results for sample 6 : sample 40

Number of peaks found: 14 Corr. Area 1: 0.7
 Noise: 0.1

Peak table for sample 6 : sample 40

Pea k	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	42	2.89	104.2		45.59
3	92	1.39	22.9		52.55
4	532	1.46	4.2		87.41
5	2,623	0.36	0.2		107.07
6	2,874	0.43	0.2		108.34
7	4,361	0.59	0.2		110.22
8	6,936	54.46	11.9		112.58
9	10,380	75.00	10.9	Upper Marker	113.00
10	47,378	0.00	0.0		117.00
11	56,519	0.00	0.0		117.99
12	65,224	0.00	0.0		118.93
13	77,412	0.00	0.0		120.24
14	107,445	0.00	0.0		123.49
15	151,843	0.00	0.0		128.29
16	166,207	0.00	0.0		129.84

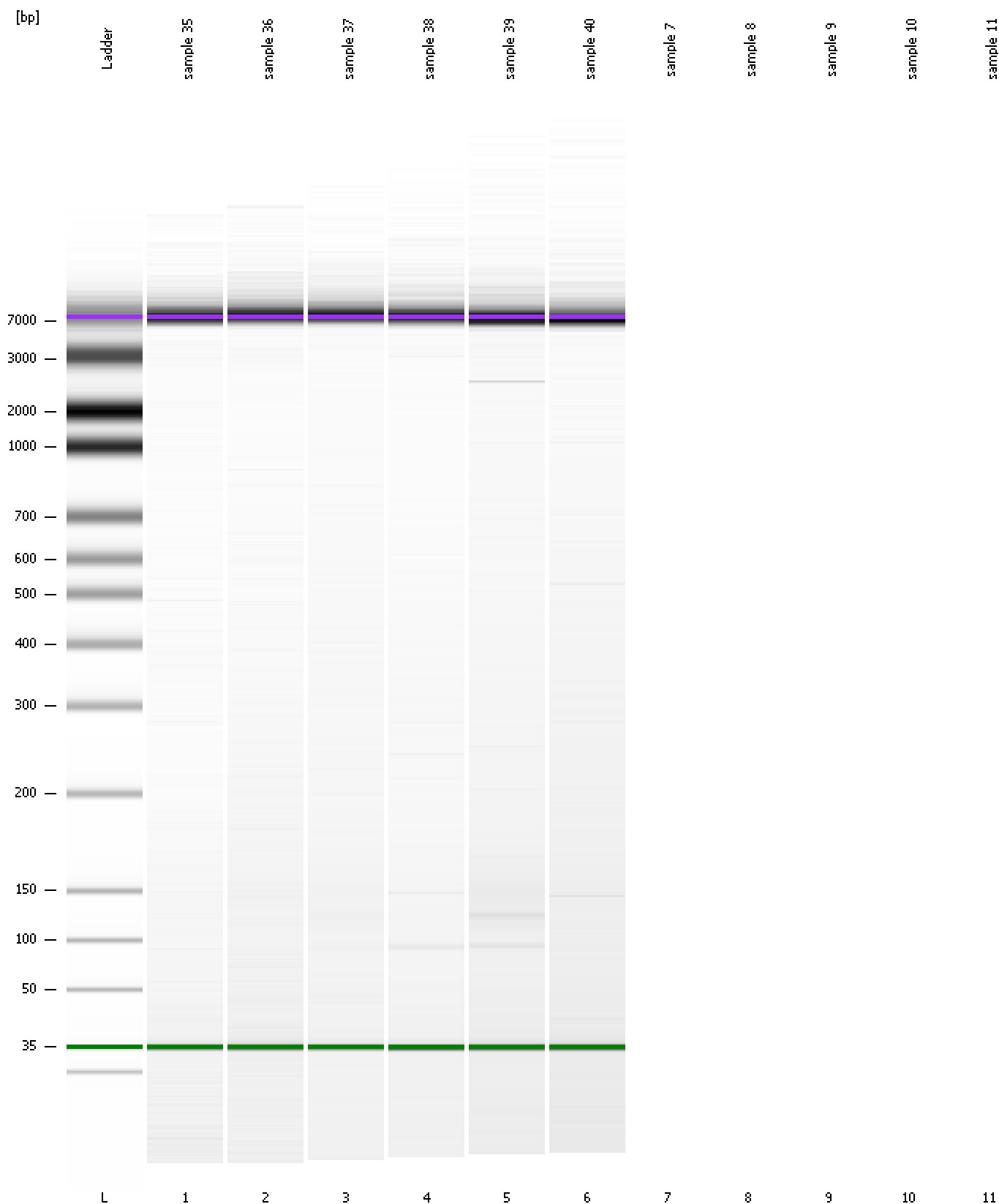
Region table for sample 6 : sample 40

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	452	1,000	0.7	2	28.0	2.10	8.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
Modified: 2/3/2015 2:45:41 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad

Created: 2/3/2015 2:18:37 PM
Modified: 2/3/2015 2:45:41 PM

Invalid Samples

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 Created: 2/3/2015 2:18:37 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad Modified: 2/3/2015 2:45:41 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		2/3/2015 2:45:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-03\2015-02-03_003.xad)		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/3/2015 2:18:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1