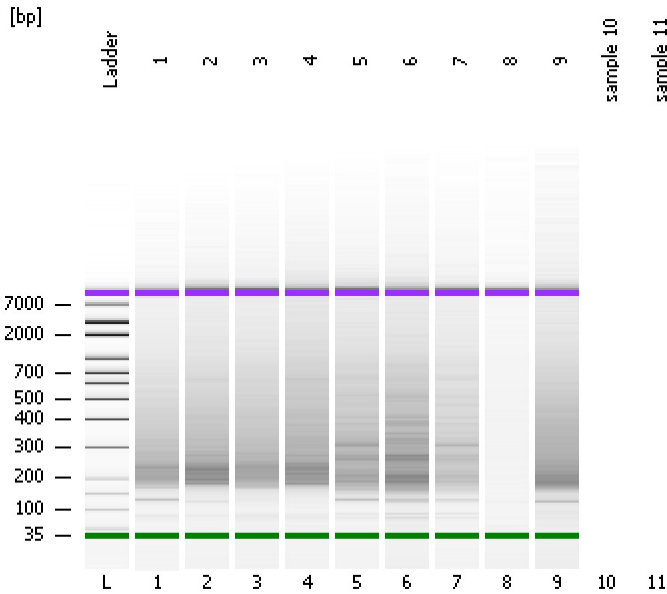


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
Modified: 5/14/2015 5:07:50 PM

Electrophoresis File Run Summary



Instrument Information:

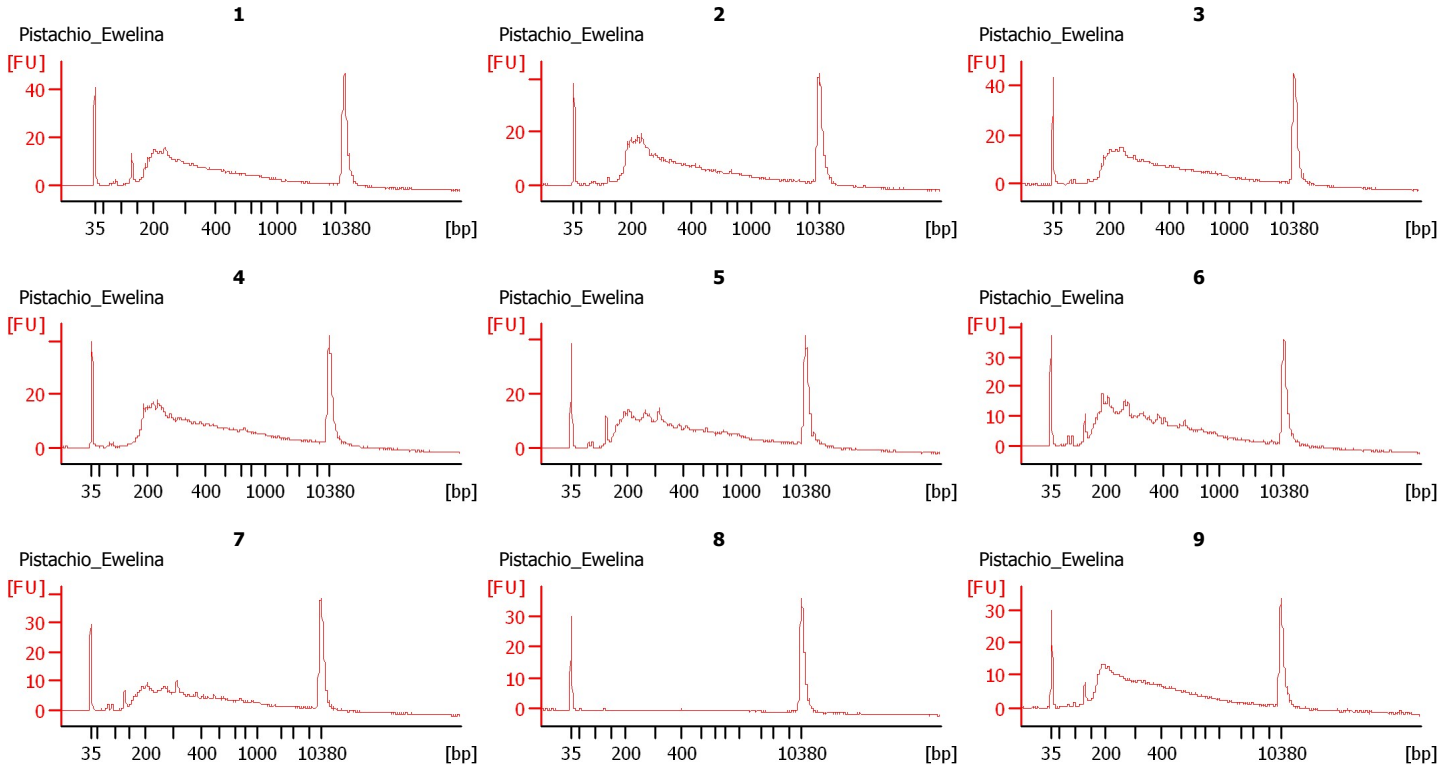
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
Modified: 5/14/2015 5:07:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1	Pistachio_Ewelina	<input type="checkbox"/>	✓			
2	Pistachio_Ewelina	<input type="checkbox"/>	✓			
3	Pistachio_Ewelina	<input type="checkbox"/>	✓			
4	Pistachio_Ewelina	<input type="checkbox"/>	✓			
5	Pistachio_Ewelina	<input type="checkbox"/>	✓			
6	Pistachio_Ewelina	<input type="checkbox"/>	✓			
7	Pistachio_Ewelina	<input type="checkbox"/>	✓			
8	Pistachio_Ewelina	<input type="checkbox"/>	✓			
9	Pistachio_Ewelina	<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\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
Modified: 5/14/2015 5:07:50 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

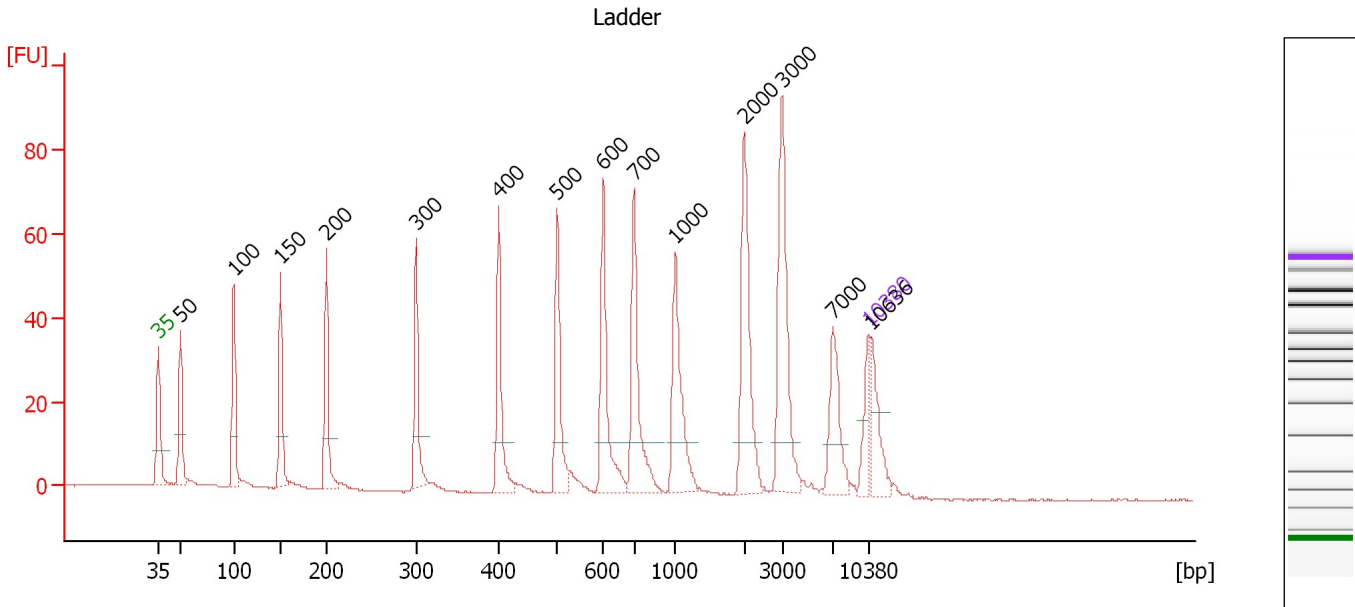
Ladder

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\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

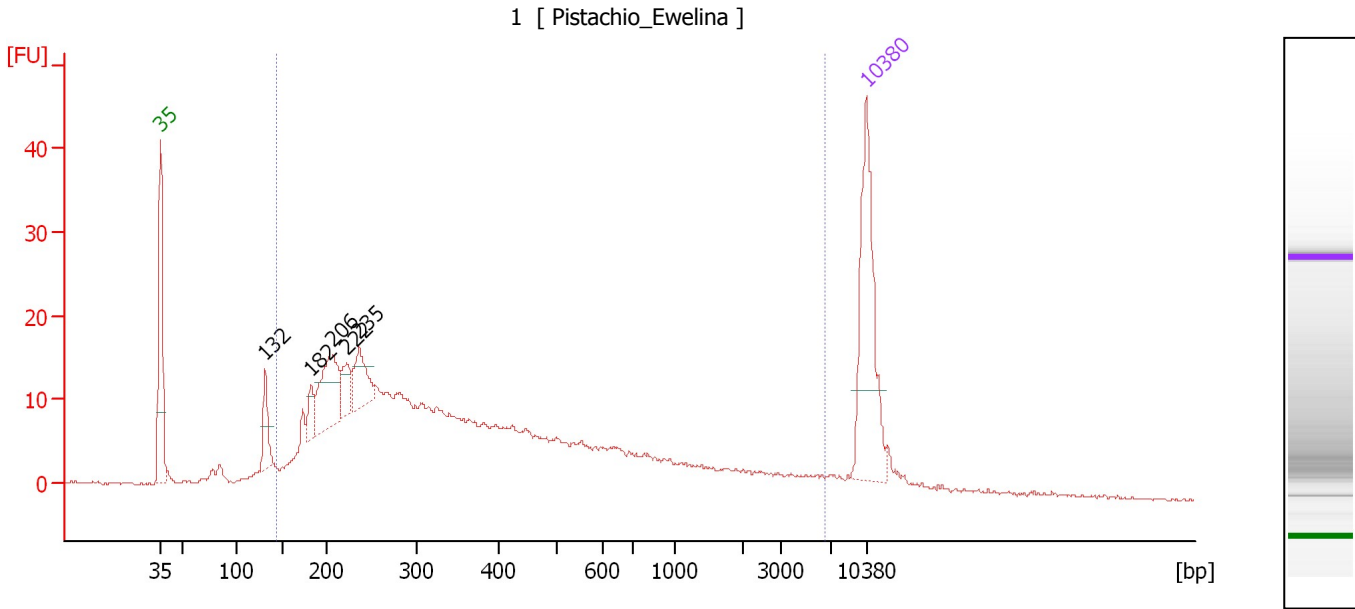
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.21
3	100	150.00	2,272.7	Ladder Peak	50.46
4	150	150.00	1,515.2	Ladder Peak	55.03
5	200	150.00	1,136.4	Ladder Peak	59.55
6	300	150.00	757.6	Ladder Peak	68.44
7	400	150.00	568.2	Ladder Peak	76.58
8	500	150.00	454.5	Ladder Peak	82.31
9	600	150.00	378.8	Ladder Peak	86.83
10	700	150.00	324.7	Ladder Peak	89.88
11	1,000	150.00	227.3	Ladder Peak	93.98
12	2,000	150.00	113.6	Ladder Peak	100.76
13	3,000	150.00	75.8	Ladder Peak	104.49
14	7,000	150.00	32.5	Ladder Peak	109.53
15	10,380	75.00	10.9	Upper Marker	113.00
16	10,636	0.00	0.0		113.26

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 5 Corr. Area 1: 484.8
 Noise: 0.2

Peak table for sample 1 : 1

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	132	27.47	314.8		53.41
3	182	17.15	143.0		57.90
4	206	61.88	455.7		60.06
5	222	20.16	137.7		61.49
6	235	33.61	216.2		62.71
7	10,380	75.00	10.9	Upper Marker	113.00

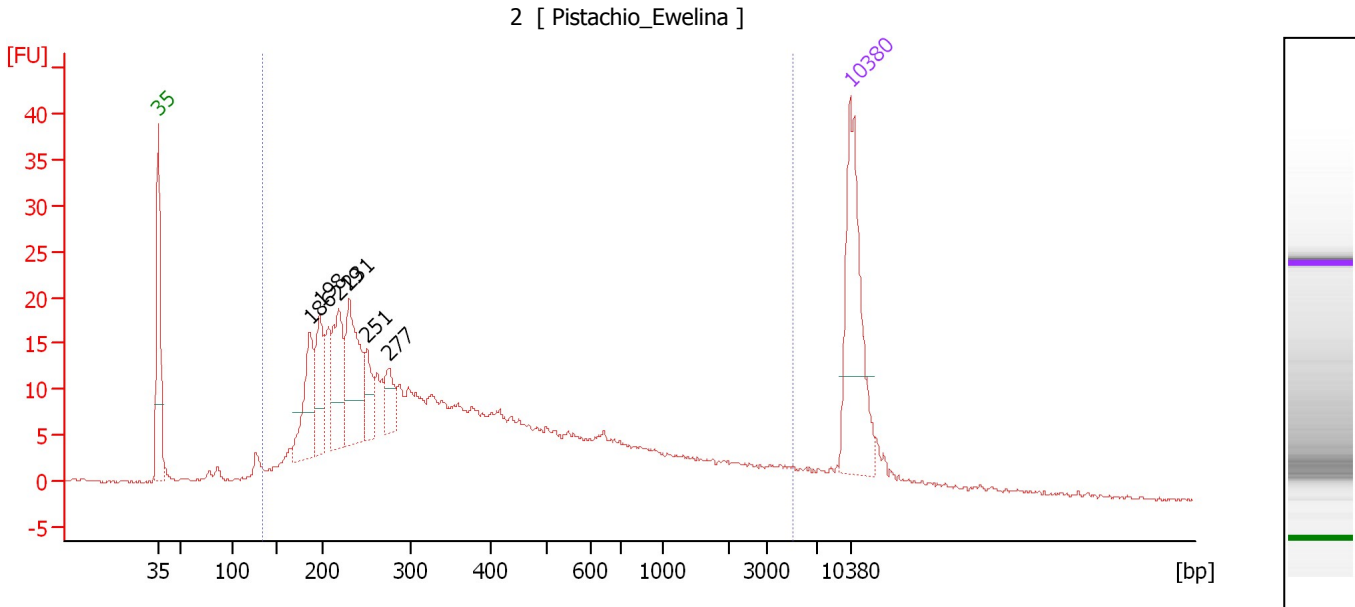
Region table for sample 1 : 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
145	594	6,436	484.8	4,728.9	90	100.0	911.80	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2

Number of peaks found: 6 Corr. Area 1: 526.6
 Noise: 0.2

Peak table for sample 2 : 2

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	186	60.47	491.8		58.32
3	198	46.51	356.6		59.34
4	219	60.50	417.7		61.28
5	231	76.90	504.4		62.31
6	251	24.82	149.8		64.09
7	277	21.84	119.7		66.35
8	10,380	75.00	10.9	Upper Marker	113.00

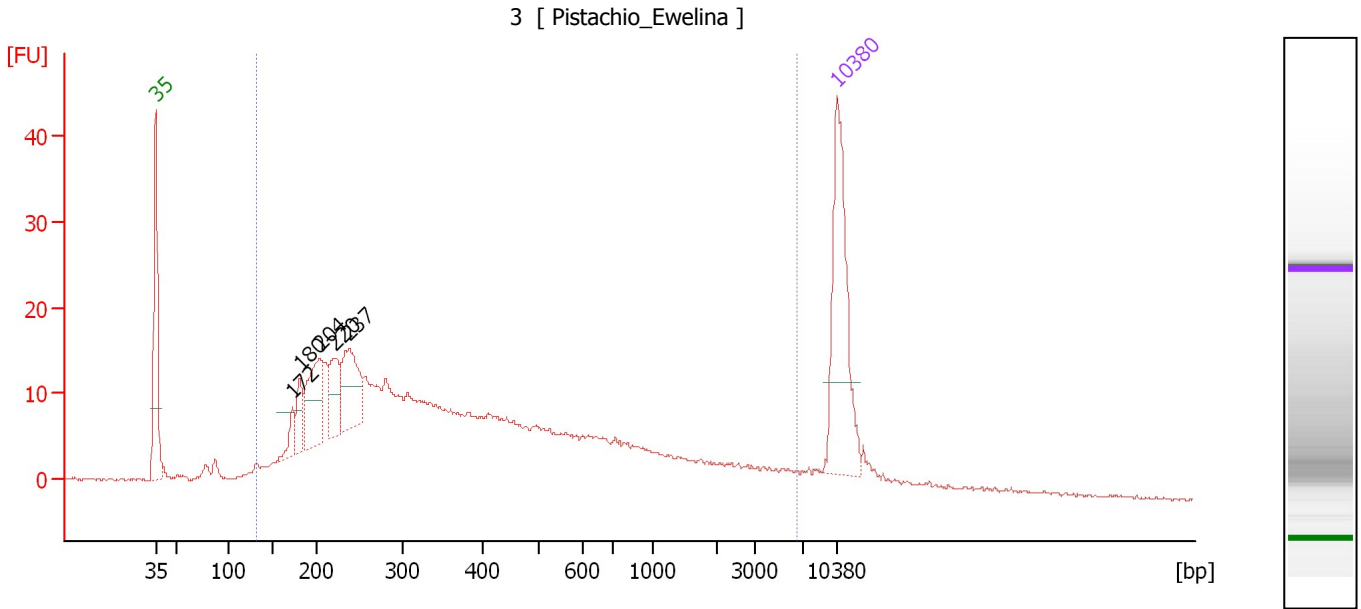
Region table for sample 2 : 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
135	562	5,226	526.6	5,033.4	93	100.0	960.51	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

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 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3

Number of peaks found: 5 Corr. Area 1: 524.0
 Noise: 0.2

Peak table for sample 3 : 3

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	172	14.93	131.6		57.02
3	180	21.15	177.5		57.79
4	204	58.32	434.1		59.87
5	220	32.65	225.3		61.29
6	237	55.16	351.9		62.88
7	10,380	75.00	10.9	Upper Marker	113.00

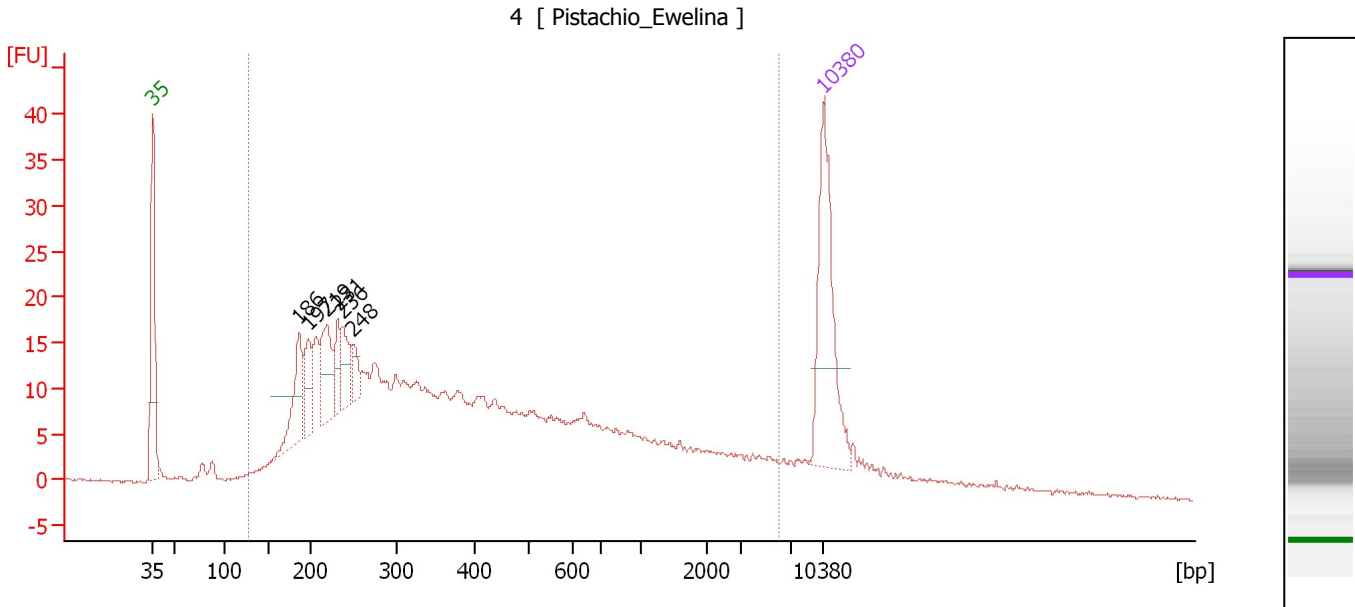
Region table for sample 3 : 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
131	633	6,419	524.0	4,735.5	92	100.0	927.36	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

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 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4

Number of peaks found: 6 Corr. Area 1: 587.2
 Noise: 0.2

Peak table for sample 4 : 4

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	186	50.18	409.5		58.26
3	197	29.88	230.1		59.26
4	219	46.54	322.5		61.21
5	231	23.02	150.9		62.32
6	236	24.55	157.5		62.77
7	248	14.96	91.4		63.83
8	10,380	75.00	10.9	Upper Marker	113.00

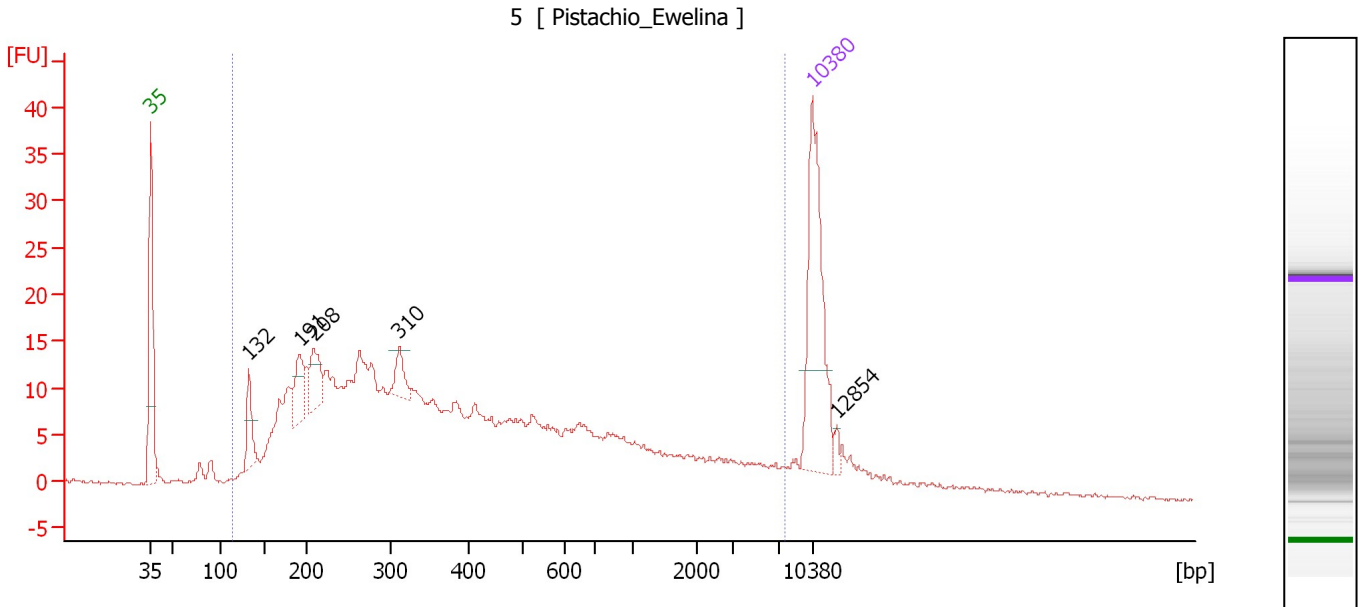
Region table for sample 4 : 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
126	665	6,170	587.2	5,512.6	92	100.0	1,106.65	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5

Number of peaks found: 5 Corr. Area 1: 544.8
 Noise: 0.2

Peak table for sample 5 : 5

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	132	26.85	308.4		53.38
3	191	29.35	232.9		58.74
4	208	28.25	205.9		60.26
5	310	15.57	76.0		69.29
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,854	0.00	0.0		115.54

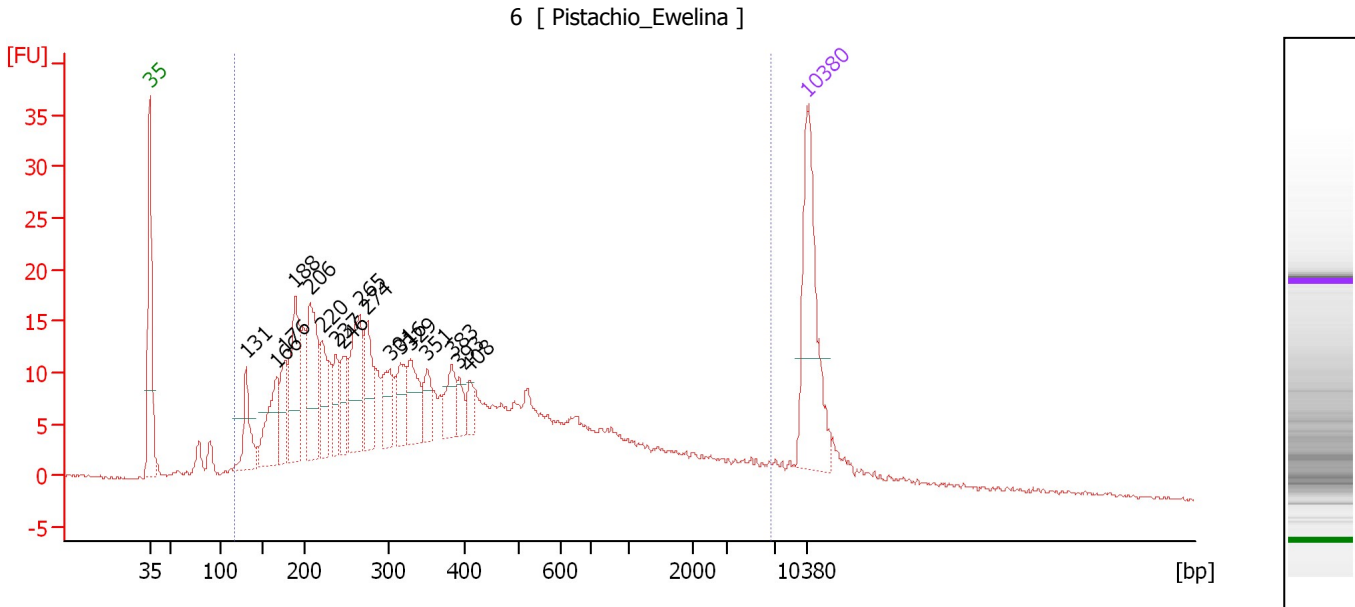
Region table for sample 5 : 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
114	701	7,436	544.8	5,529.8	93	100.0	1,045.75	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6

Number of peaks found: 17 Corr. Area 1: 580.5
 Noise: 0.1

Peak table for sample 6 : 6

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	131	41.40	479.7		53.28
3	166	56.74	518.8		56.45
4	176	35.96	308.9		57.42
5	188	73.91	594.6		58.50
6	206	78.76	579.2		60.09
7	220	35.67	245.6		61.34
8	237	26.06	166.8		62.81
9	246	25.62	158.0		63.61
10	265	63.71	363.6		65.37
11	274	41.44	228.8		66.16
12	301	29.29	147.2		68.55
13	316	24.31	116.6		69.74
14	329	32.61	150.1		70.82
15	351	20.74	89.6		72.58
16	383	21.78	86.2		75.19
17	393	11.34	43.8		75.98
18	408	10.12	37.5		77.06
19	10,380	75.00	10.9	Upper Marker	113.00

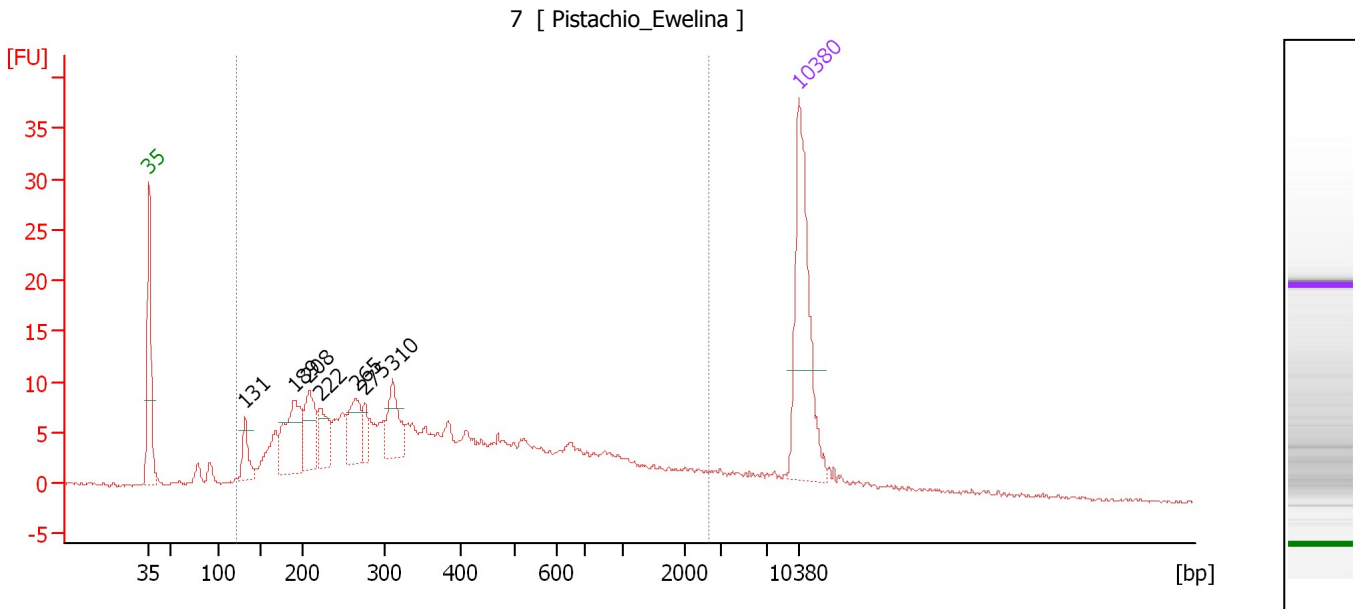
Region table for sample 6 : 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
116	609	6,606	580.5	7,149.9	92	100.0	1,309.57	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : 7

Number of peaks found: 7 Corr. Area 1: 332.6
 Noise: 0.1

Peak table for sample 7 : 7

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	131	21.07	244.0		53.28
3	189	58.86	471.8		58.56
4	208	39.01	284.7		60.23
5	222	27.31	186.6		61.49
6	265	31.99	182.8		65.34
7	275	12.32	67.8		66.26
8	310	31.73	155.1		69.24
9	10,380	75.00	10.9	Upper Marker	113.00

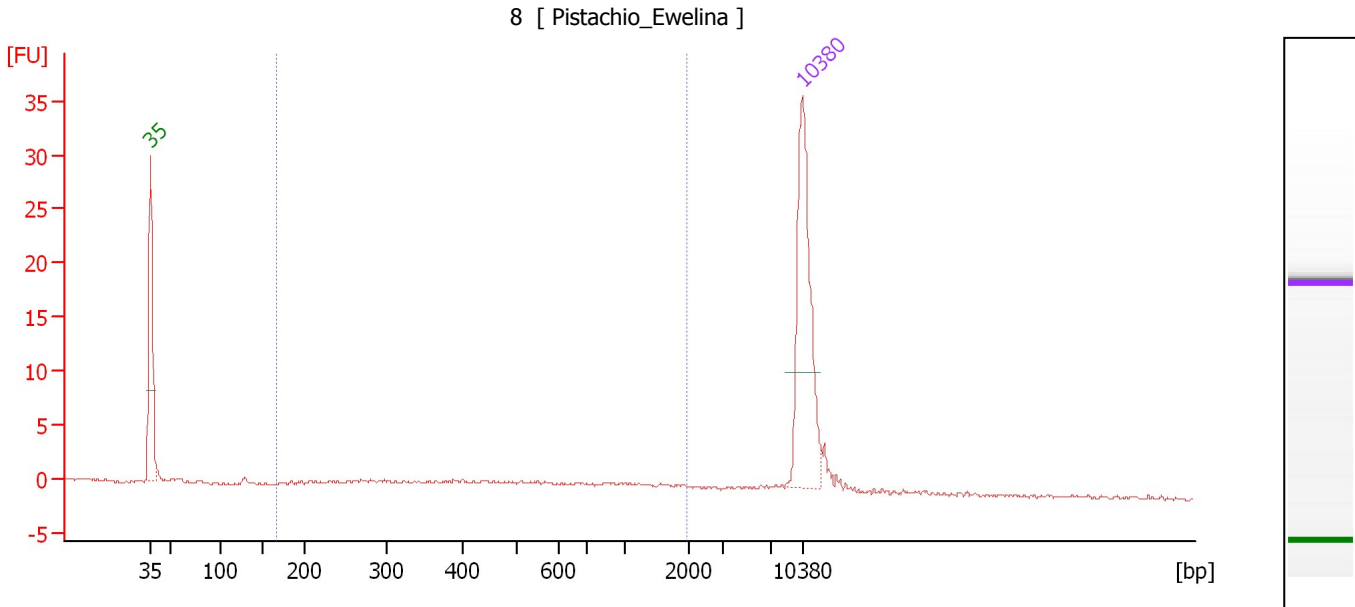
Region table for sample 7 : 7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
122	498	2,696	332.6	3,768.8	89	90.0	703.25	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8

Number of peaks found: 0 Corr. Area 1: 21.2
 Noise: 0.2

Peak table for sample 8 : 8

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	10,380	75.00	10.9	Upper Marker	113.00

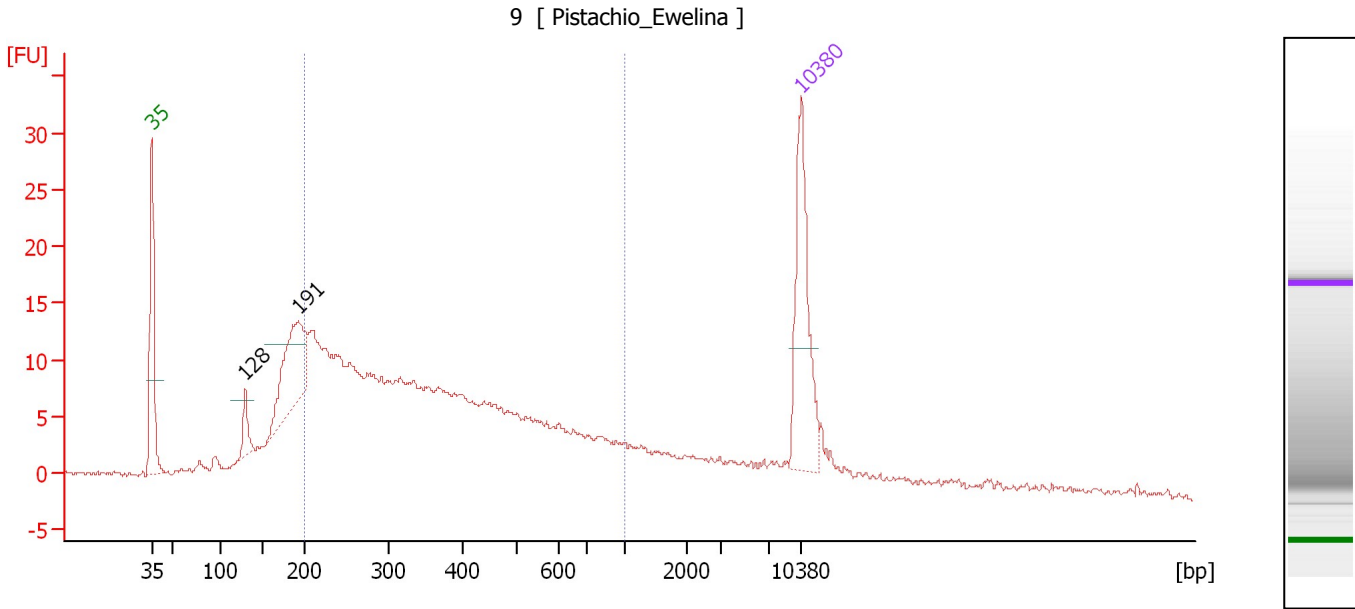
Region table for sample 8 : 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
167	679	1,984	21.2	154.3	57	65.2	43.56	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
 Modified: 5/14/2015 5:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 9

Number of peaks found: 2 Corr. Area 1: 336.4
 Noise: 0.2

Peak table for sample 9 : 9

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	128	23.02	271.5		53.07
3	191	102.89	815.3		58.76
4	10,380	75.00	10.9	Upper Marker	113.00

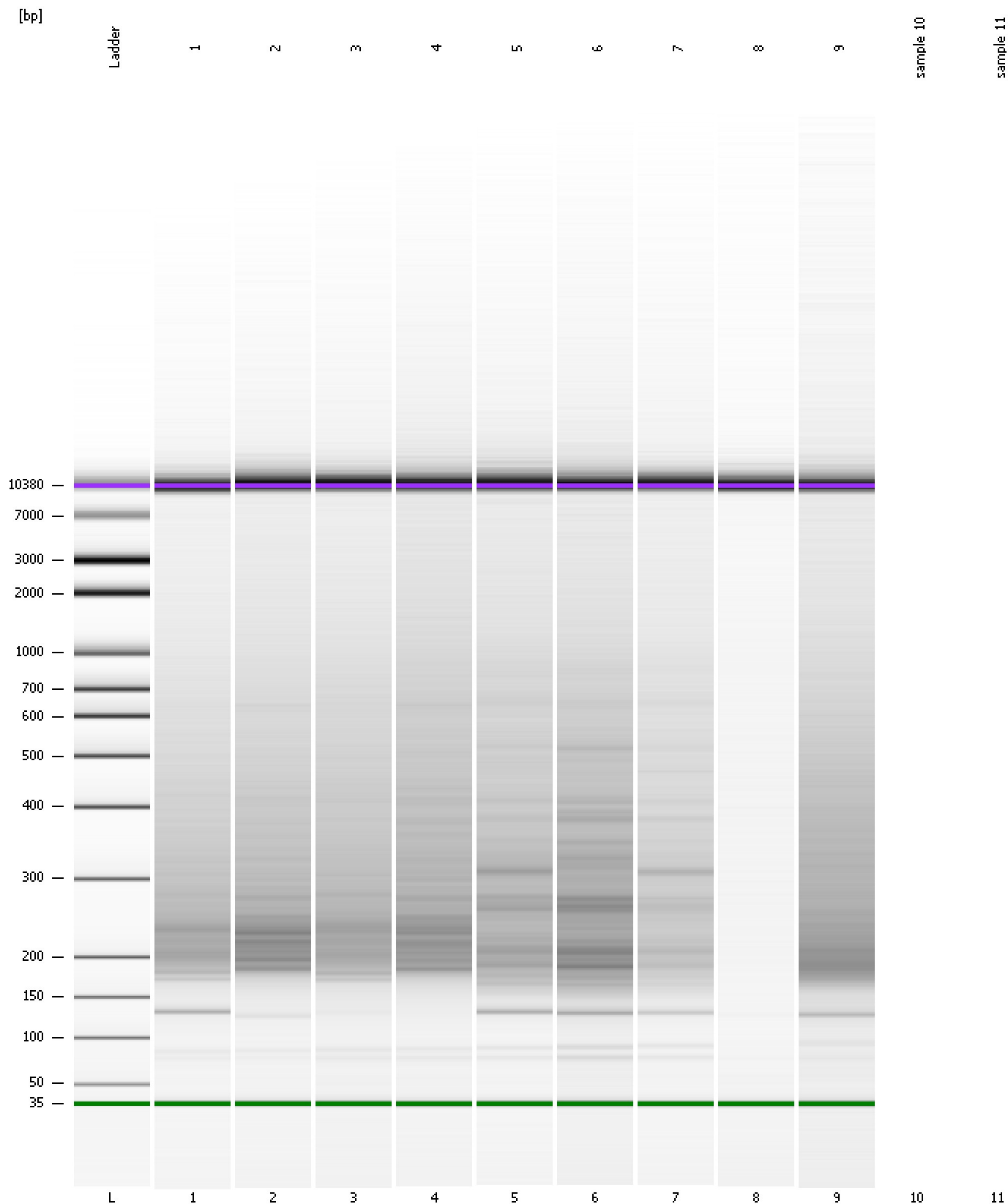
Region table for sample 9 : 9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	394	1,000	336.4	4,184.5	66	43.4	881.15	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
Modified: 5/14/2015 5:07:50 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-14\2015-05-14_004.xad

Created: 5/14/2015 4:32:11 PM
Modified: 5/14/2015 5:07:50 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.