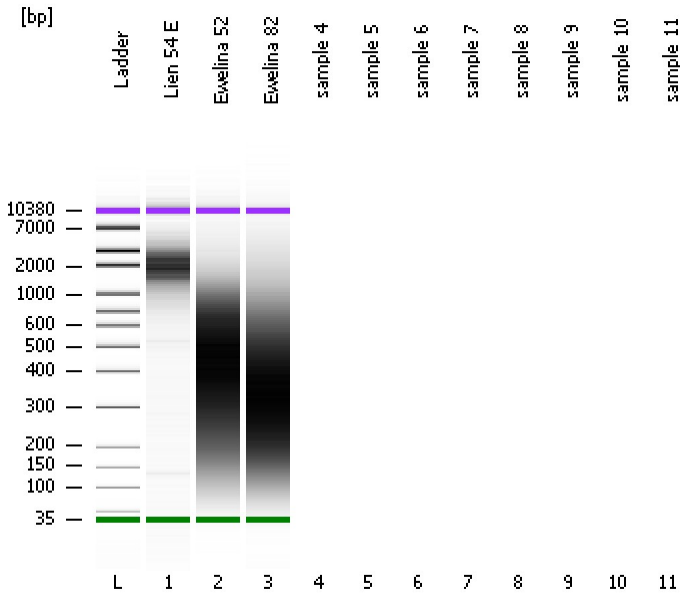


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
Modified: 12/16/2014 3:10:57 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

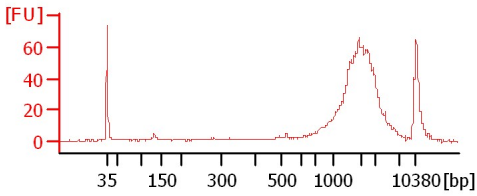
Assay Information:

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

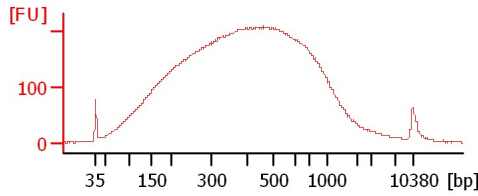
Chip Information:

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

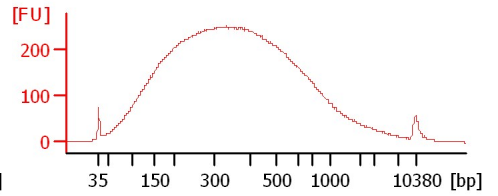
**Lien 54 E**



**Ewelina 52**



**Ewelina 82**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
 Modified: 12/16/2014 3:10:57 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lien 54 E		<input type="checkbox"/>				
Ewelina 52		<input type="checkbox"/>		✓		
Ewelina 82		<input type="checkbox"/>		✓		
sample 4		<input type="checkbox"/>				
sample 5		<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\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
Modified: 12/16/2014 3:10:57 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

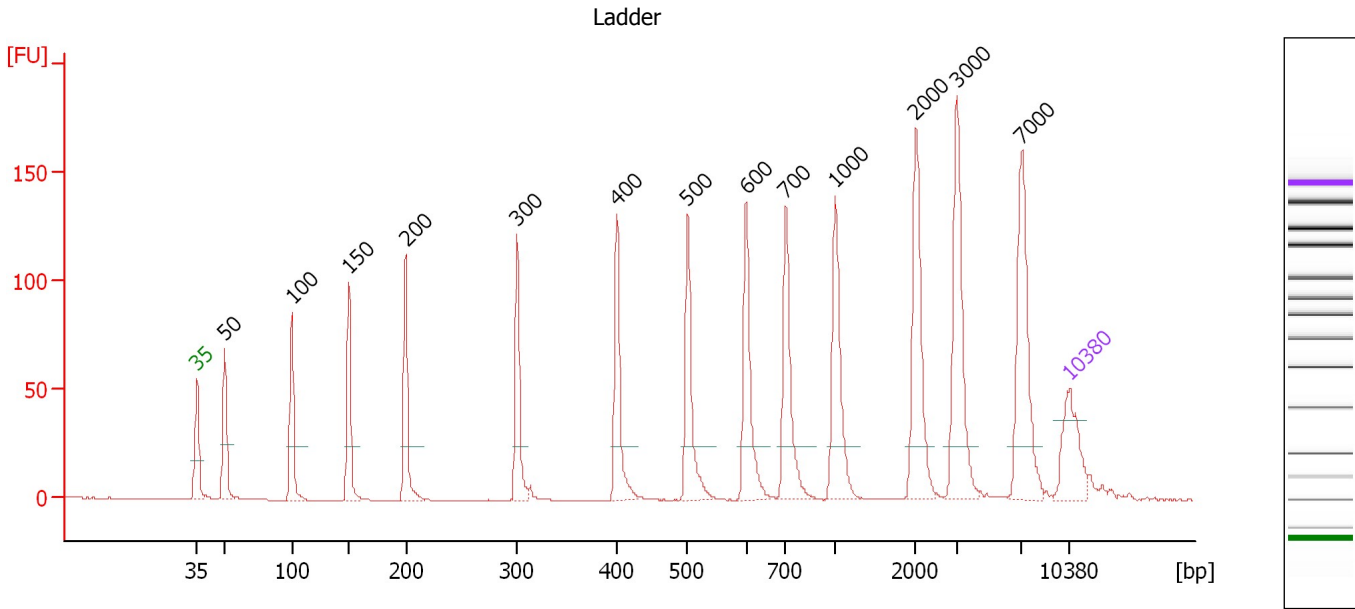
**Ladder**

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\2014-12-16\2014-12-16\_004.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

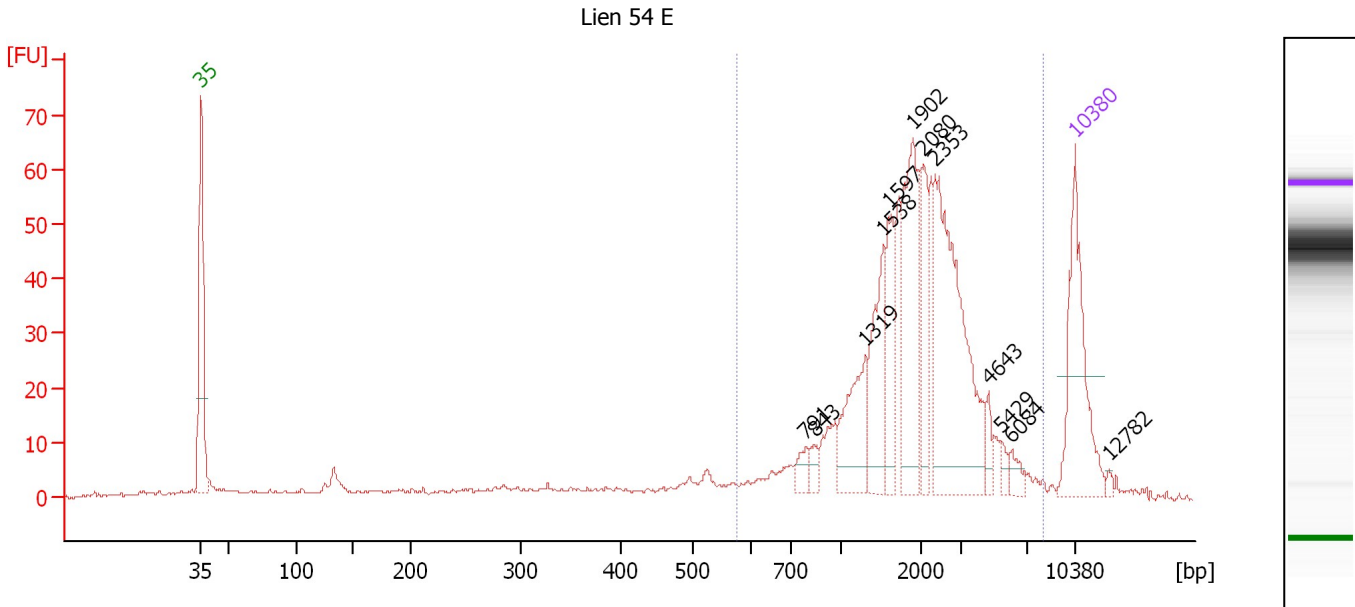
**Peak table for Ladder**

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	45.22
3	100	150.00	2,272.7	Ladder Peak	50.57
4	150	150.00	1,515.2	Ladder Peak	55.19
5	200	150.00	1,136.4	Ladder Peak	59.72
6	300	150.00	757.6	Ladder Peak	68.66
7	400	150.00	568.2	Ladder Peak	76.65
8	500	150.00	454.5	Ladder Peak	82.34
9	600	150.00	378.8	Ladder Peak	87.04
10	700	150.00	324.7	Ladder Peak	90.21
11	1,000	150.00	227.3	Ladder Peak	94.19
12	2,000	150.00	113.6	Ladder Peak	100.64
13	3,000	150.00	75.8	Ladder Peak	103.93
14	7,000	150.00	32.5	Ladder Peak	109.15
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Lien 54 E**

Number of peaks found: 12                      Corr. Area 1: 585.5  
 Noise: 0.4

**Peak table for sample 1 : Lien 54 E**

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	791	11.38	21.8		91.42
3	843	8.72	15.7		92.10
4	1,319	53.45	61.4		96.25
5	1,538	55.03	54.2		97.66
6	1,597	41.46	39.3		98.04
7	1,902	84.39	67.2		100.01
8	2,080	38.32	27.9		100.91
9	2,353	158.81	102.3		101.80
10	4,643	8.95	2.9		106.08
11	5,429	5.14	1.4		107.10
12	6,084	7.49	1.9		107.96
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,782	0.00	0.0		115.74

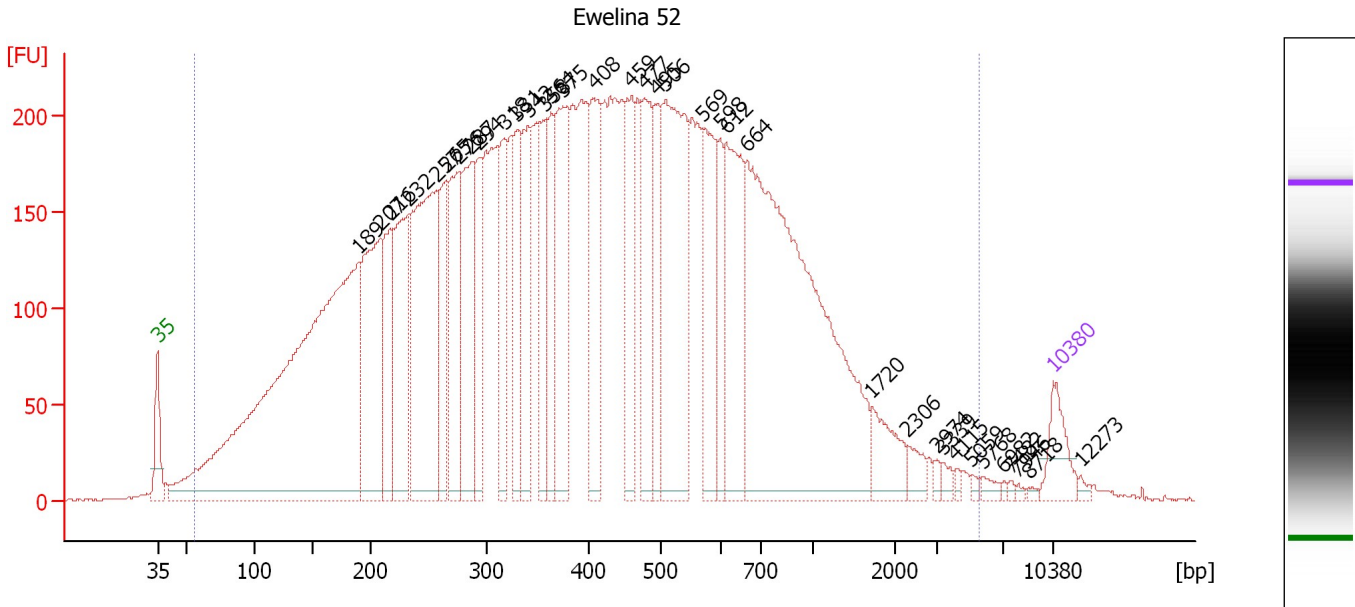
**Region table for sample 1 : Lien 54 E**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
574	2,210	8,152	585.5	82	53.9	600.71	535.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Ewelina 52**

Number of peaks found: 36                      Corr. Area 1: 11,087.6  
 Noise: 0.7

**Peak table for sample 2 : Ewelina 52**

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	189	2,484.04	19,880.4		58.75
3	207	600.68	4,388.7		60.38
4	216	303.22	2,124.6		61.17
5	232	463.48	3,020.6		62.62
6	257	837.62	4,945.8		64.78
7	265	216.18	1,236.1		65.53
8	276	382.55	2,101.6		66.49
9	287	382.62	2,019.0		67.51
10	294	217.54	1,122.9		68.08
11	318	248.67	1,184.5		70.10
12	331	230.77	1,057.2		71.11
13	342	291.05	1,290.4		71.99
14	358	222.91	942.8		73.31
15	364	222.84	928.2		73.75
16	375	394.28	1,591.8		74.68
17	408	317.49	1,179.5		77.10
18	459	247.42	816.9		80.00
19	477	271.03	860.1		81.06
20	495	223.30	683.2		82.07
21	506	665.09	1,989.9		82.64
22	569	301.55	802.9		85.59
23	598	141.18	357.7		86.95
24	612	389.68	964.1		87.44
25	664	1,515.85	3,459.6		89.07

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad


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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : Ewelina 52**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,720	105.27	92.7		98.83
27	2,306	35.83	23.5		101.65
28	2,974	11.35	5.8		103.85
29	3,339	14.64	6.6		104.38
30	4,115	8.09	3.0		105.39
31	5,059	8.27	2.5		106.62
32	5,768	14.64	3.8		107.54
33	6,982	4.82	1.0		109.13
34	7,482	5.07	1.0		109.70
35	7,946	4.47	0.9		110.23
36	8,718	4.96	0.9		111.11
37	10,380	75.00	10.9	Upper Marker	113.00
38	12,273	0.00	0.0		115.16

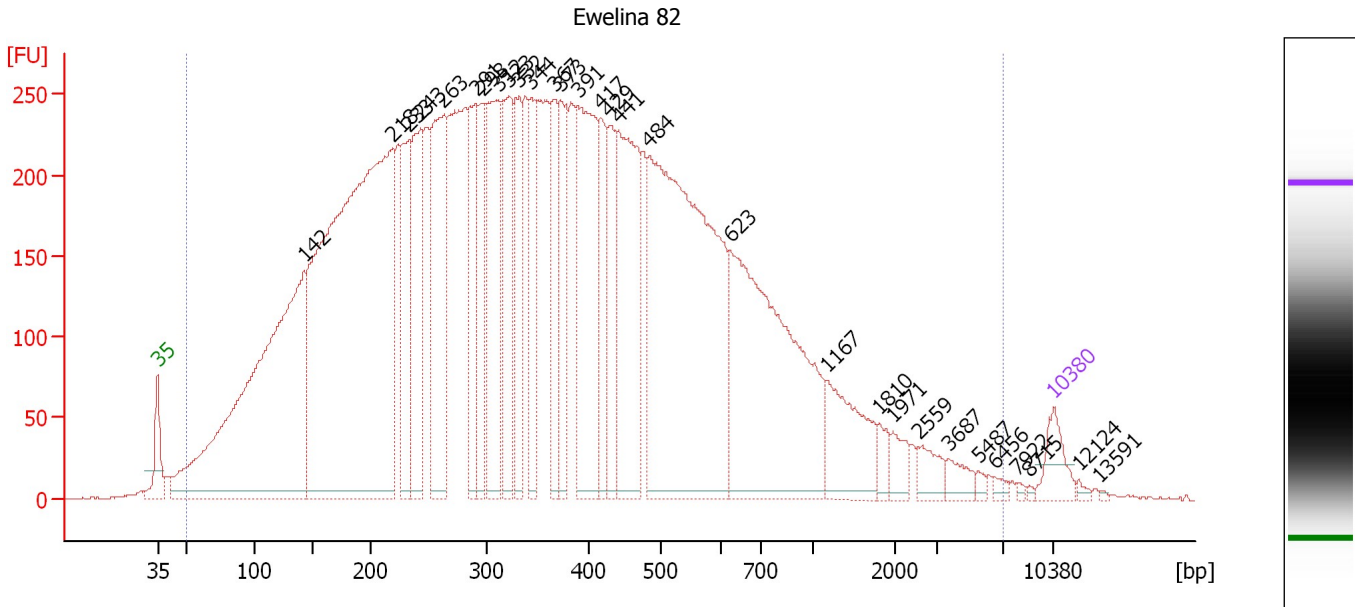
**Region table for sample 2 : Ewelina 52**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
56	511	5,539	11,087.6	99	93.4	14,617.01	82,367.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Ewelina 82**

Number of peaks found: 30                      Corr. Area 1: 13,629.9  
 Noise: 0.7

**Peak table for sample 3 : Ewelina 82**

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	142	2,379.87	25,363.3		54.46
3	218	3,327.57	23,132.9		61.32
4	233	453.40	2,947.1		62.68
5	243	527.29	3,285.1		63.58
6	263	693.85	3,998.9		65.34
7	291	359.19	1,869.1		67.87
8	298	331.80	1,688.5		68.45
9	312	507.32	2,467.0		69.58
10	323	384.01	1,802.1		70.49
11	332	352.60	1,606.9		71.25
12	344	320.94	1,412.3		72.20
13	367	263.01	1,086.2		74.01
14	373	317.47	1,291.2		74.46
15	391	669.47	2,596.9		75.90
16	417	245.60	892.5		77.62
17	429	256.65	906.8		78.29
18	441	702.88	2,416.3		78.97
19	484	1,866.77	5,848.7		81.41
20	623	1,159.94	2,821.1		87.77
21	1,167	258.18	335.2		95.26
22	1,810	42.74	35.8		99.42
23	1,971	56.66	43.6		100.45
24	2,559	60.92	36.1		102.48
25	3,687	45.59	18.7		104.83



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : Ewelina 82

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,487	12.92	3.6		107.18
27	6,456	14.60	3.4		108.44
28	7,922	6.56	1.3		110.20
29	8,715	4.16	0.7		111.10
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,124	0.00	0.0		114.99
32	13,591	0.00	0.0		116.66

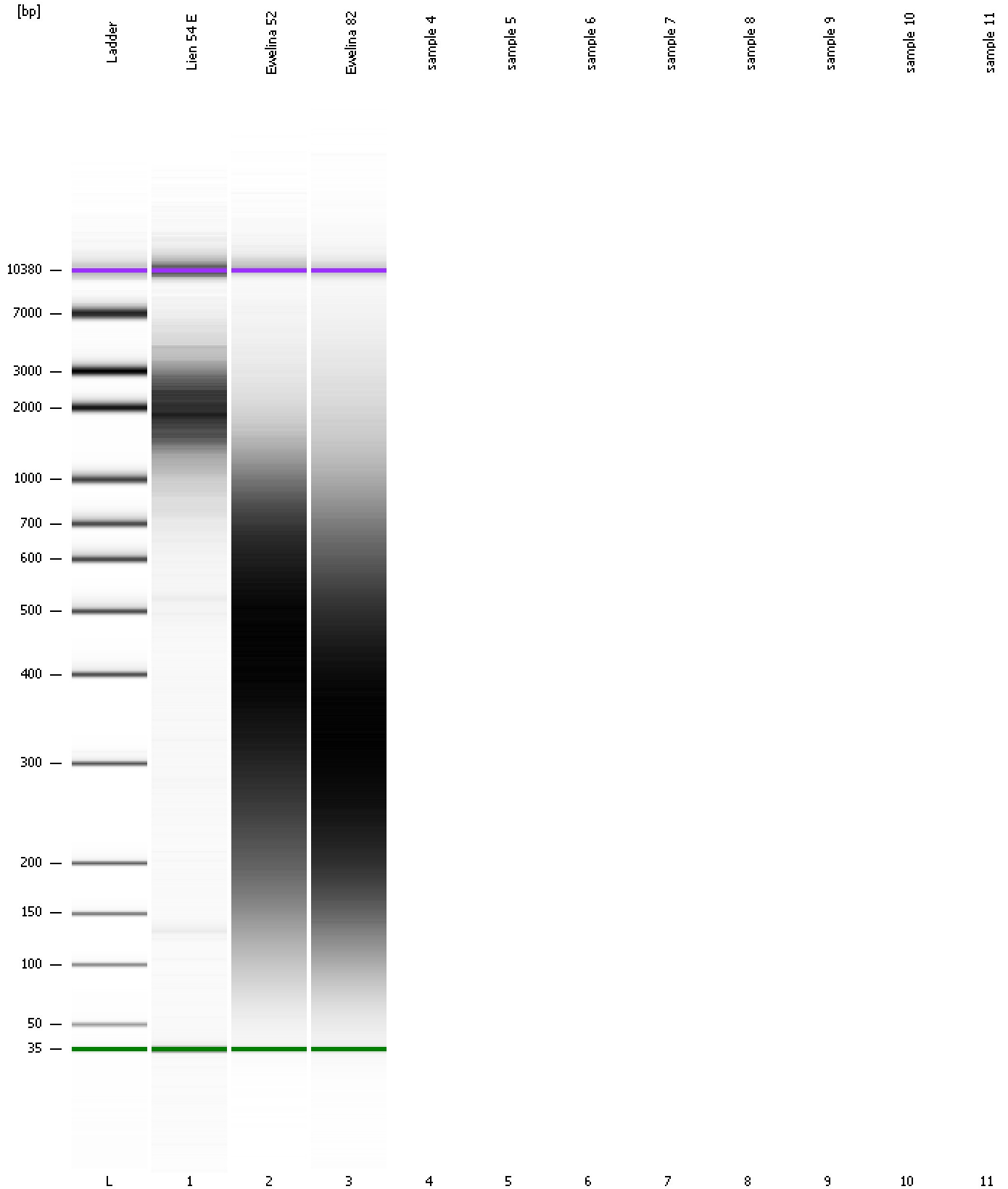
#### Region table for sample 3 : Ewelina 82

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	478	6,981	13,629.9	99	100.0	18,911.20	120,039.2	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
Modified: 12/16/2014 3:10:57 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
Modified: 12/16/2014 3:10:57 PM

**Invalid Samples**

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

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\2014-12-16\2014-12-16\_004.xad

Created: 12/16/2014 2:50:27 PM  
 Modified: 12/16/2014 3:10:57 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		12/16/2014 3:08:55 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-16\2014-12-16_004.xad)		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/16/2014 2:50:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1