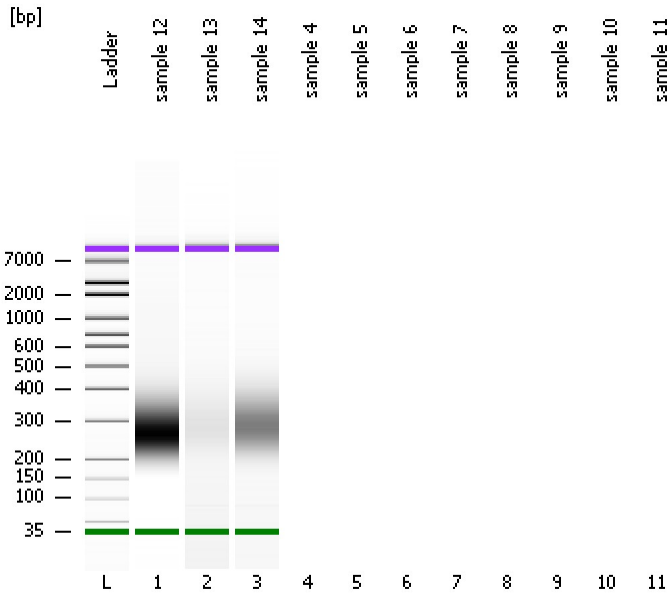


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
Modified: 8/2/2019 4:17:01 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

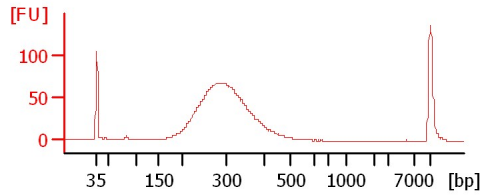
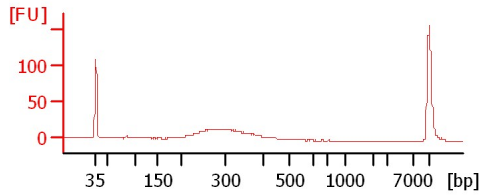
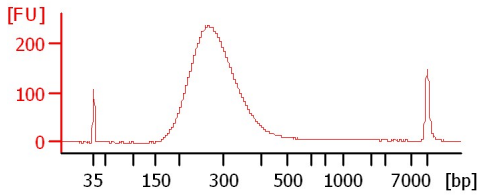
Chip Information:

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

**sample 12**

**sample 13**

**sample 14**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
Modified: 8/2/2019 4:17:01 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12		<input type="checkbox"/>	✓			
sample 13		<input type="checkbox"/>	✓			
sample 14		<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:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
Modified: 8/2/2019 4:17:01 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

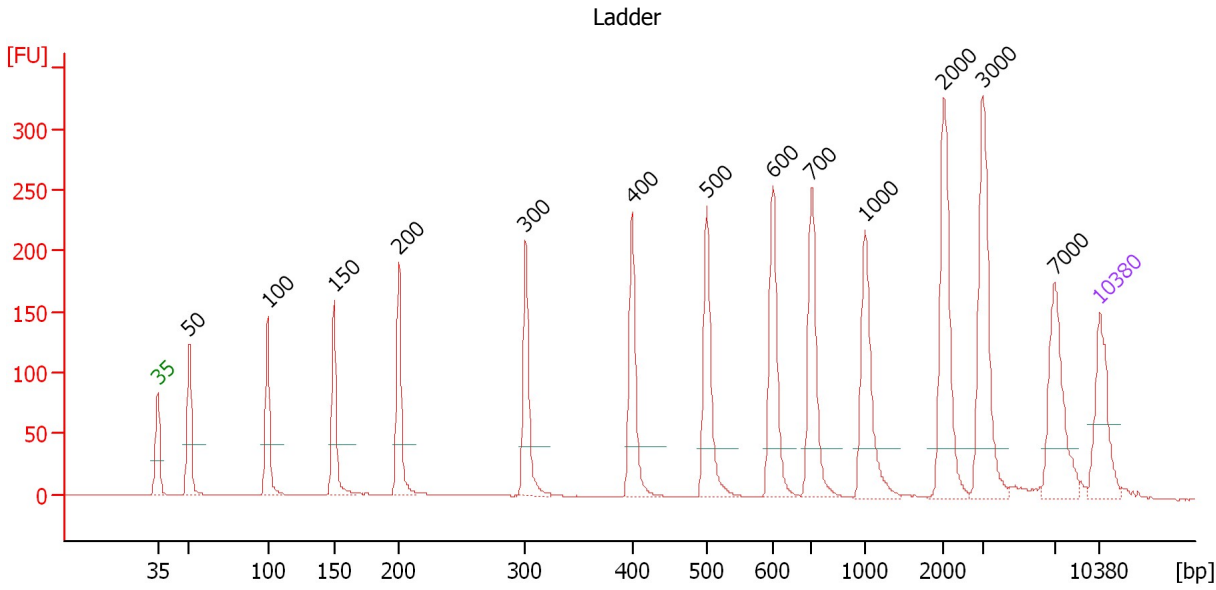
**Ladder**

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\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
 Modified: 8/2/2019 4:17:01 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

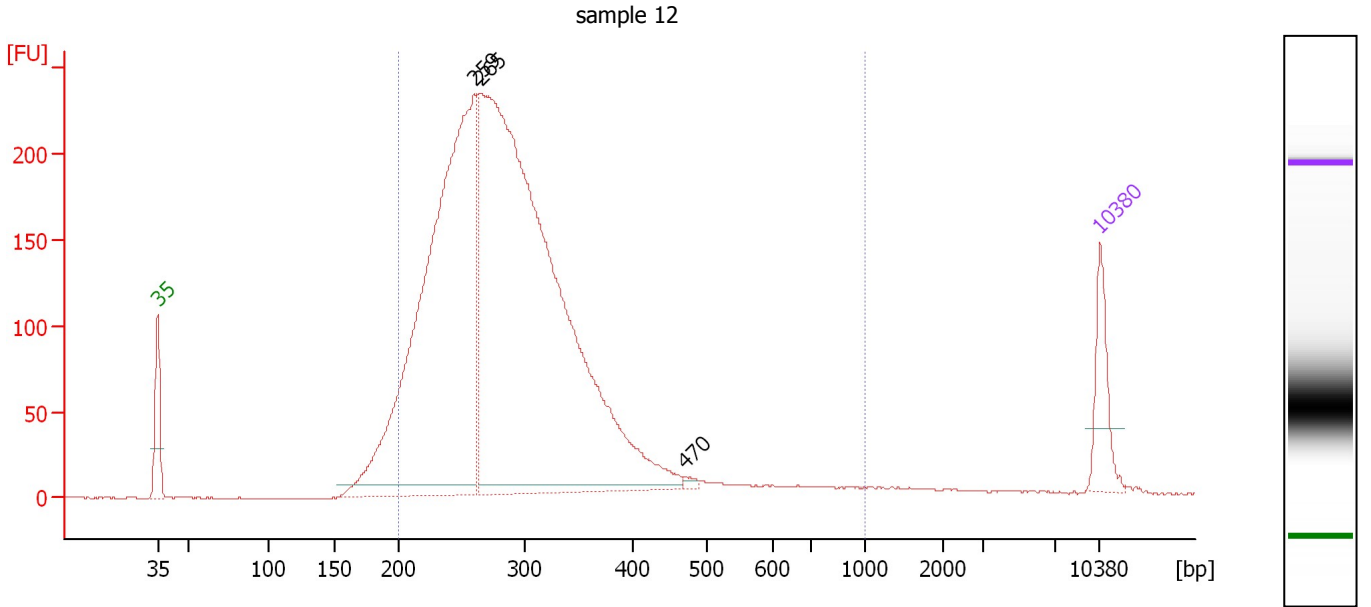
**Peak table for Ladder**

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.17
4	150	150.00	1,515.2	Ladder Peak	56.12
5	200	150.00	1,136.4	Ladder Peak	60.94
6	300	150.00	757.6	Ladder Peak	70.34
7	400	150.00	568.2	Ladder Peak	78.23
8	500	150.00	454.5	Ladder Peak	83.78
9	600	150.00	378.8	Ladder Peak	88.69
10	700	150.00	324.7	Ladder Peak	91.58
11	1,000	150.00	227.3	Ladder Peak	95.52
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.61
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
 Modified: 8/2/2019 4:17:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 12**

Number of peaks found: 3                      Corr. Area 1: 4,003.6  
 Noise: 0.3

**Peak table for sample 1 : sample 12**

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	259	1,546.47	9,032.5		66.52
3	265	2,304.20	13,177.0		67.04
4	470	7.51	24.2		82.14
5	10,380	75.00	10.9	Upper Marker	113.00

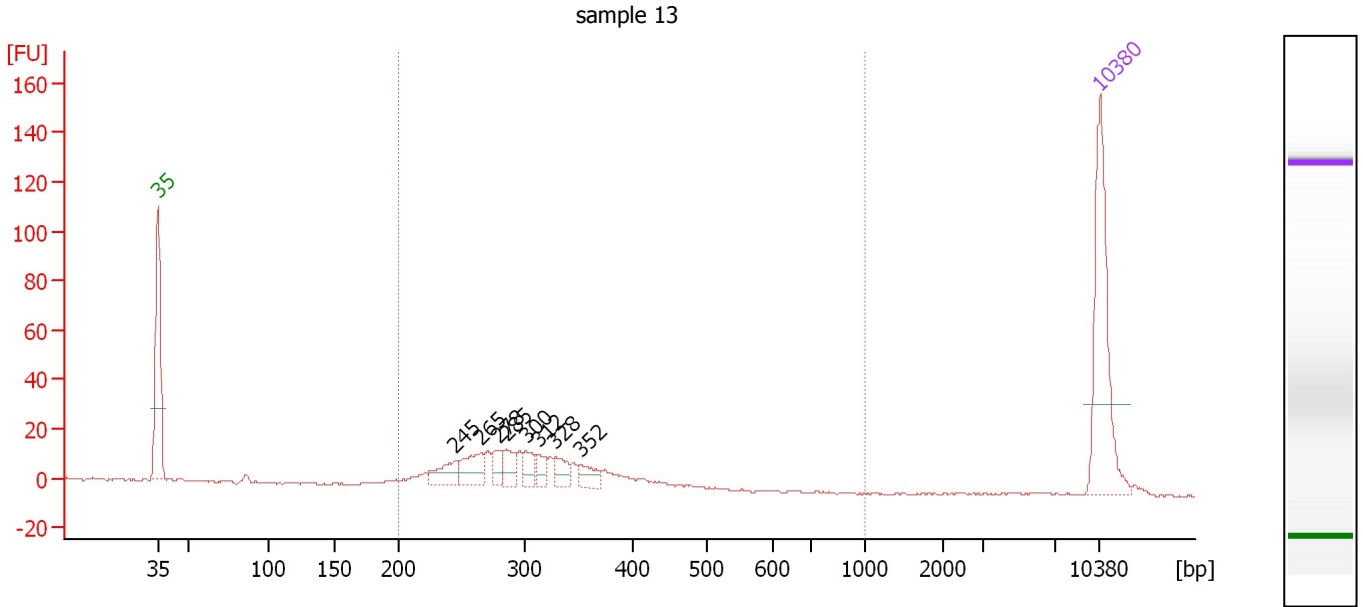
**Region table for sample 1 : sample 12**

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	296	3,700.60	4,003.6	20,094.4	94	27.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
 Modified: 8/2/2019 4:17:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 13**

Number of peaks found: 8                      Corr. Area 1: 255.0  
 Noise: 0.3

**Peak table for sample 2 : sample 13**

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	245	21.67	134.2		65.13
3	265	25.73	147.4		67.01
4	278	12.68	69.0		68.31
5	285	14.80	78.8		68.88
6	300	13.02	65.7		70.37
7	312	11.64	56.5		71.29
8	328	13.61	62.9		72.54
9	352	12.91	55.6		74.42
10	10,380	75.00	10.9	Upper Marker	113.00

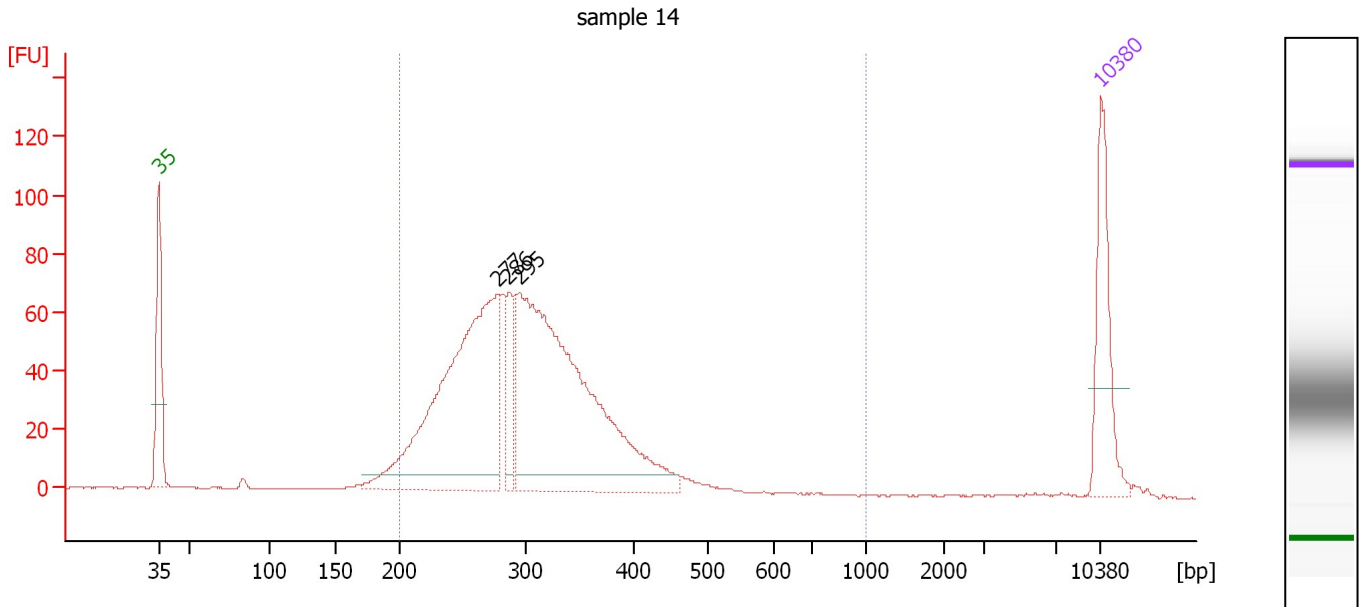
**Region table for sample 2 : sample 13**

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	306	190.55	255.0	982.3	90	18.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
 Modified: 8/2/2019 4:17:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 14**

Number of peaks found: 3                      Corr. Area 1: 1,203.9  
 Noise: 0.2

**Peak table for sample 3 : sample 14**

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	277	448.92	2,457.6		68.15
3	286	59.07	313.3		68.99
4	295	546.93	2,813.2		69.83
5	10,380	75.00	10.9	Upper Marker	113.00

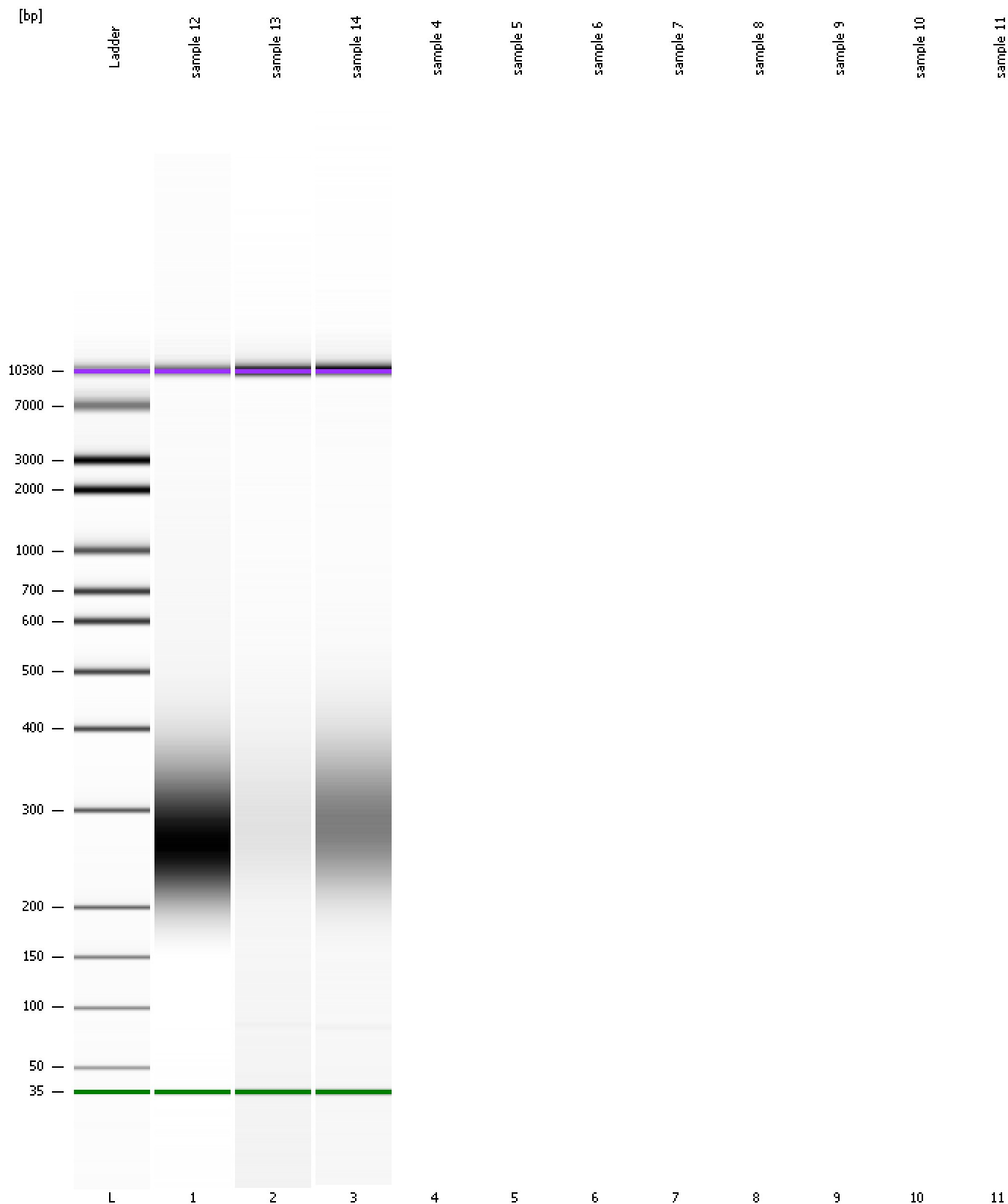
**Region table for sample 3 : sample 14**

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	304	1,084.53	1,203.9	5,649.9	96	19.9

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
Modified: 8/2/2019 4:17:01 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
Modified: 8/2/2019 4:17:01 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:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02\_005.xad

Created: 8/2/2019 3:58:34 PM  
 Modified: 8/2/2019 4:17:01 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		8/2/2019 4:17:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_005.xad)		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/2/2019 3:58:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1