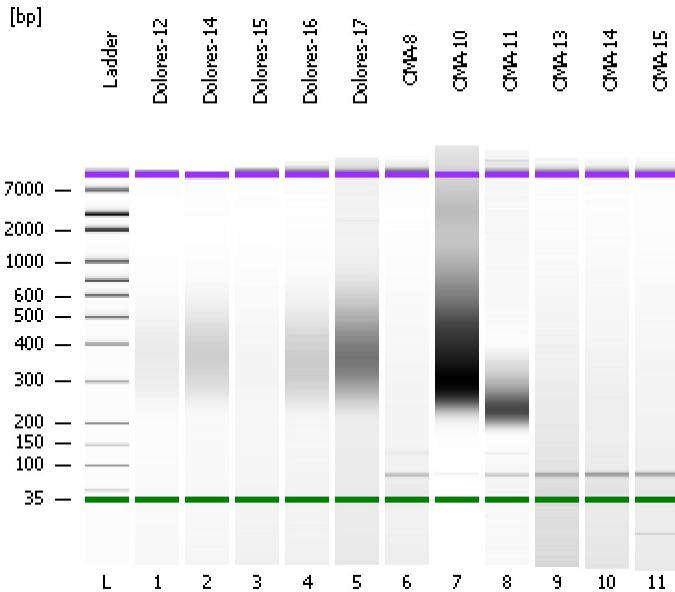


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
Modified: 1/31/2014 11:41:25 AM

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

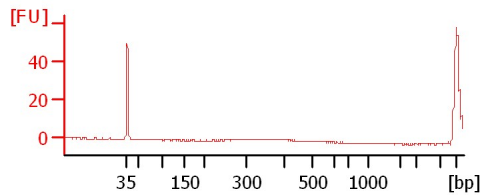
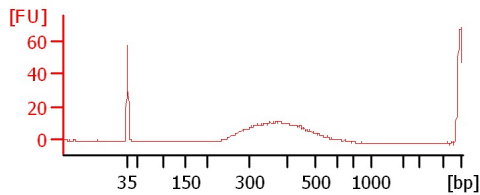
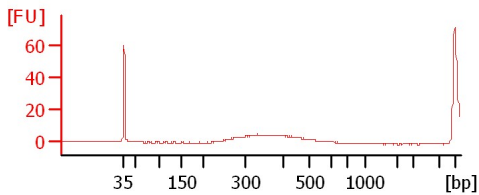
Chip Information:

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

Dolores-12

Dolores-14

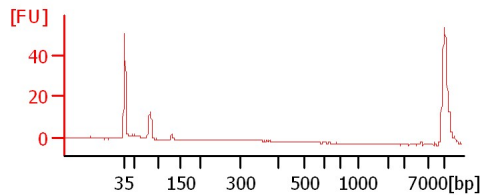
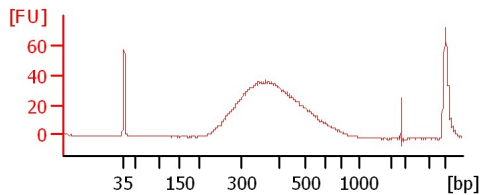
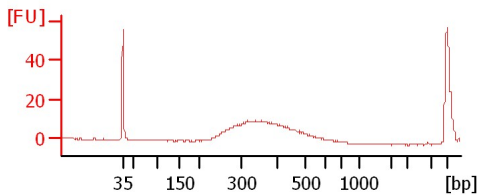
Dolores-15



Dolores-16

Dolores-17

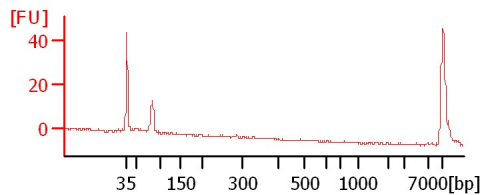
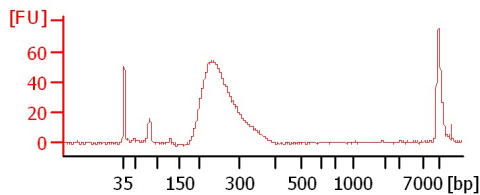
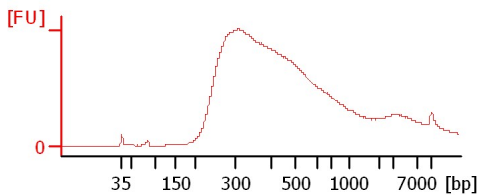
OMA-8



OMA-10

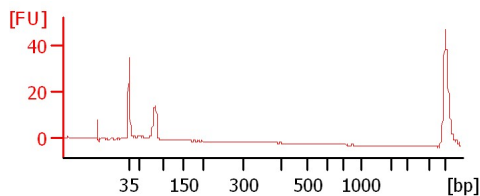
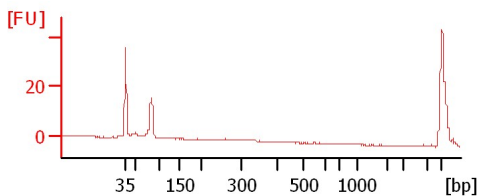
OMA-11

OMA-13



OMA-14

OMA-15



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Dolores-12		<input type="checkbox"/>	✓			
Dolores-14		<input type="checkbox"/>	✓			
Dolores-15		<input type="checkbox"/>	✓			
Dolores-16		<input type="checkbox"/>	✓			
Dolores-17		<input type="checkbox"/>	✓			
OMA-8		<input type="checkbox"/>	✓			
OMA-10		<input type="checkbox"/>	✓			
OMA-11		<input type="checkbox"/>	✓			
OMA-13		<input type="checkbox"/>	✓			
OMA-14		<input type="checkbox"/>	✓			
OMA-15		<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\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
Modified: 1/31/2014 11:41:25 AM

**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

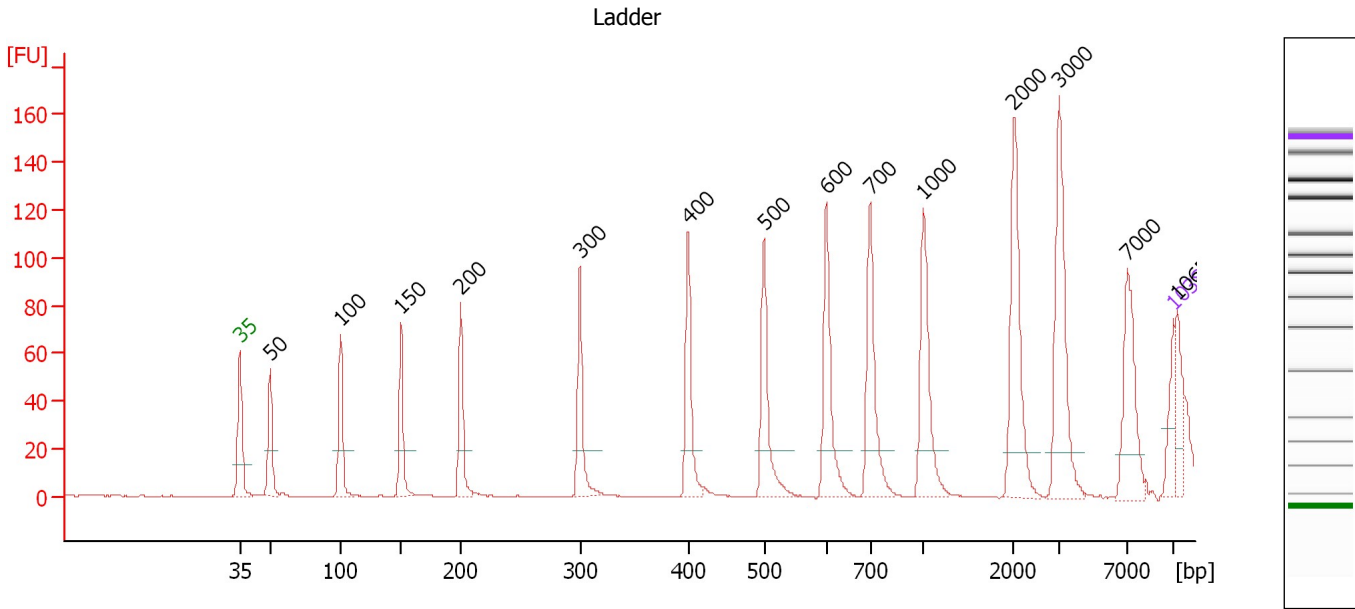
**Ladder**

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\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

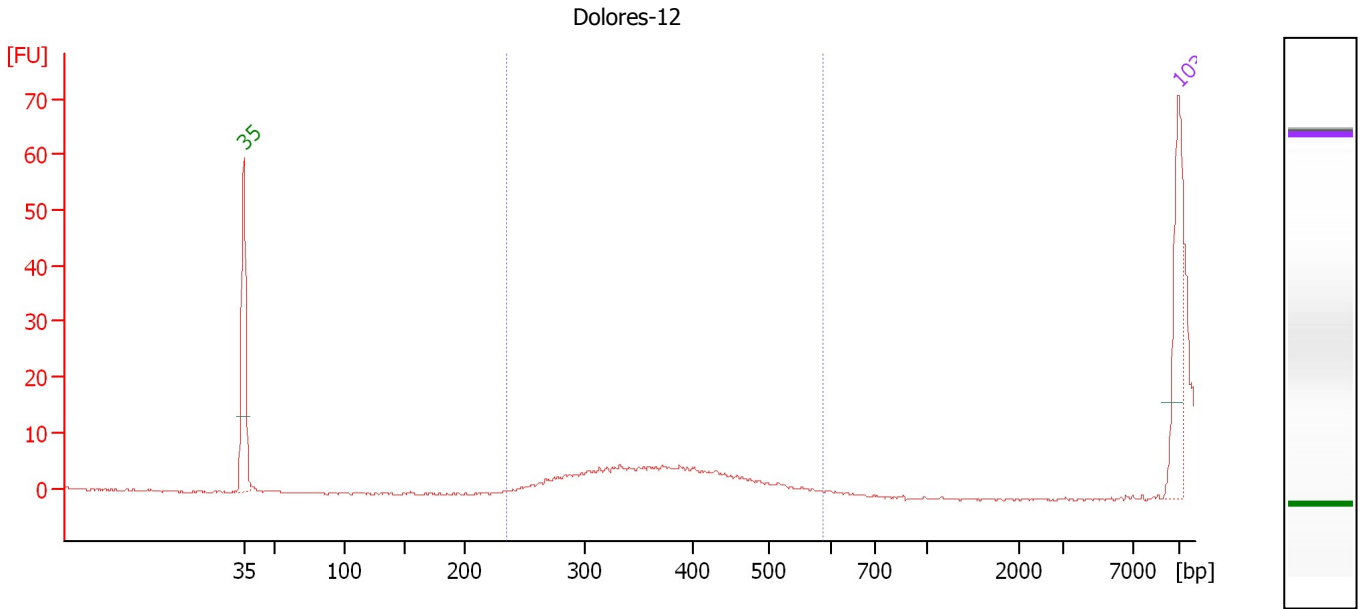
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.28	50	150.00	4,545.5	Ladder Peak
3	50.56	100	150.00	2,272.7	Ladder Peak
4	55.07	150	150.00	1,515.2	Ladder Peak
5	59.59	200	150.00	1,136.4	Ladder Peak
6	68.51	300	150.00	757.6	Ladder Peak
7	76.62	400	150.00	568.2	Ladder Peak
8	82.30	500	150.00	454.5	Ladder Peak
9	86.97	600	150.00	378.8	Ladder Peak
10	90.25	700	150.00	324.7	Ladder Peak
11	94.25	1,000	150.00	227.3	Ladder Peak
12	101.05	2,000	150.00	113.6	Ladder Peak
13	104.40	3,000	150.00	75.8	Ladder Peak
14	109.56	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker
16	113.28	10,655	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

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

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

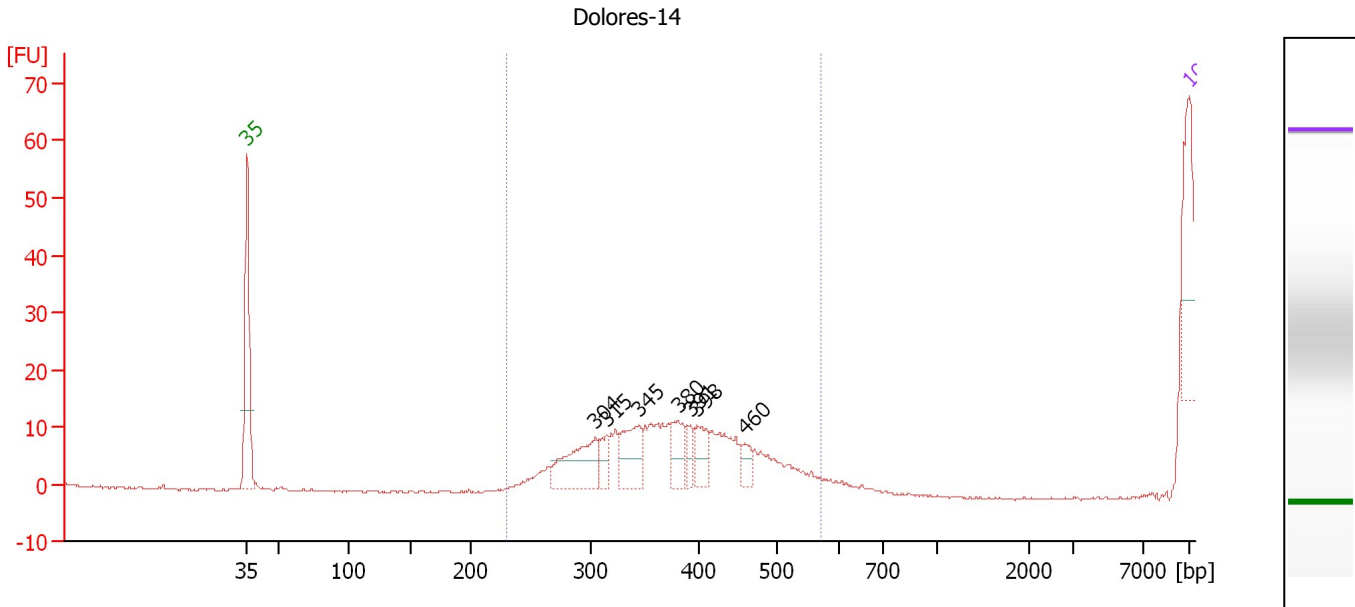
**Region table for sample 1 : Dolores-12**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
235	587	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Dolores-14**

Number of peaks found: 7                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 2 : Dolores-14**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.87	304	91.35	454.6	
3	69.74	315	24.20	116.3	
4	72.16	345	61.65	270.8	
5	75.01	380	35.02	139.6	
6	75.88	391	17.55	68.0	
7	76.44	398	35.65	135.8	
8	80.00	460	21.07	69.5	
9	113.00	10,380	75.00	10.9	Upper Marker

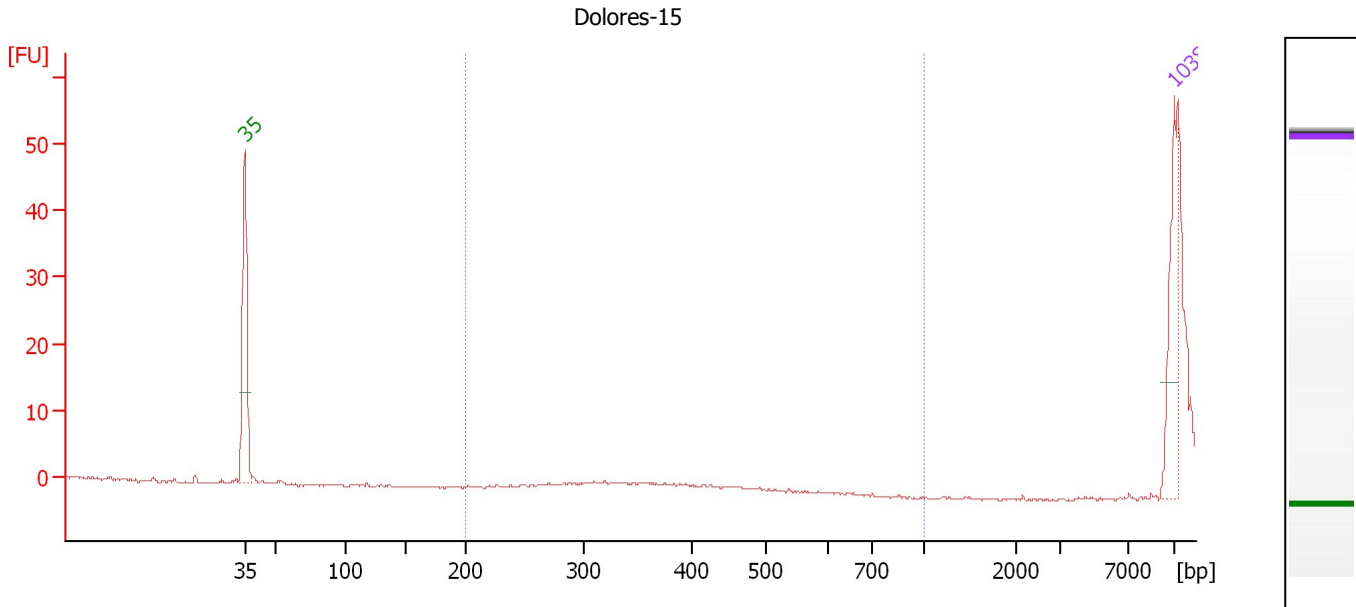
**Region table for sample 2 : Dolores-14**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
231	571	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Dolores-15**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 3 : Dolores-15**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

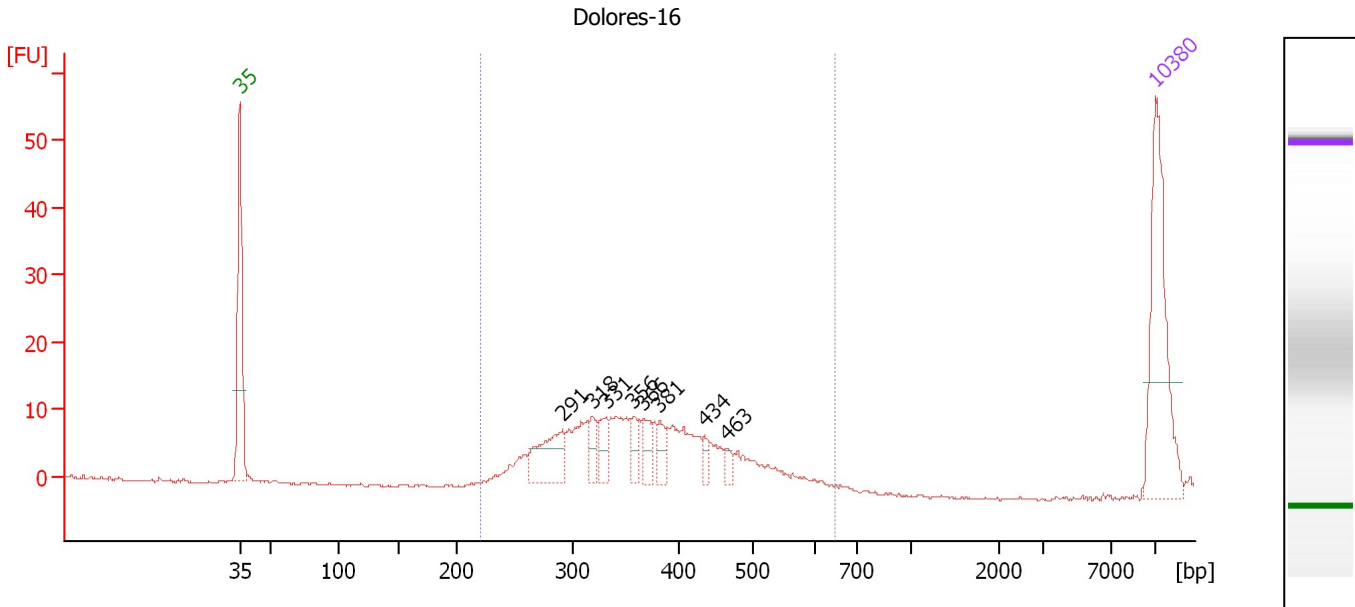
**Region table for sample 3 : Dolores-15**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Dolores-16**

Number of peaks found: 8                      Corr. Area 1: 192.1  
 Noise: 0.2

**Peak table for sample 4 : Dolores-16**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	67.67	291	45.86	239.1	
3	69.95	318	13.43	64.1	
4	71.05	331	17.67	80.8	
5	73.09	356	15.15	64.4	
6	73.86	366	14.29	59.2	
7	75.04	381	12.32	49.0	
8	78.55	434	7.13	24.9	
9	80.22	463	6.17	20.2	
10	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Dolores-16**

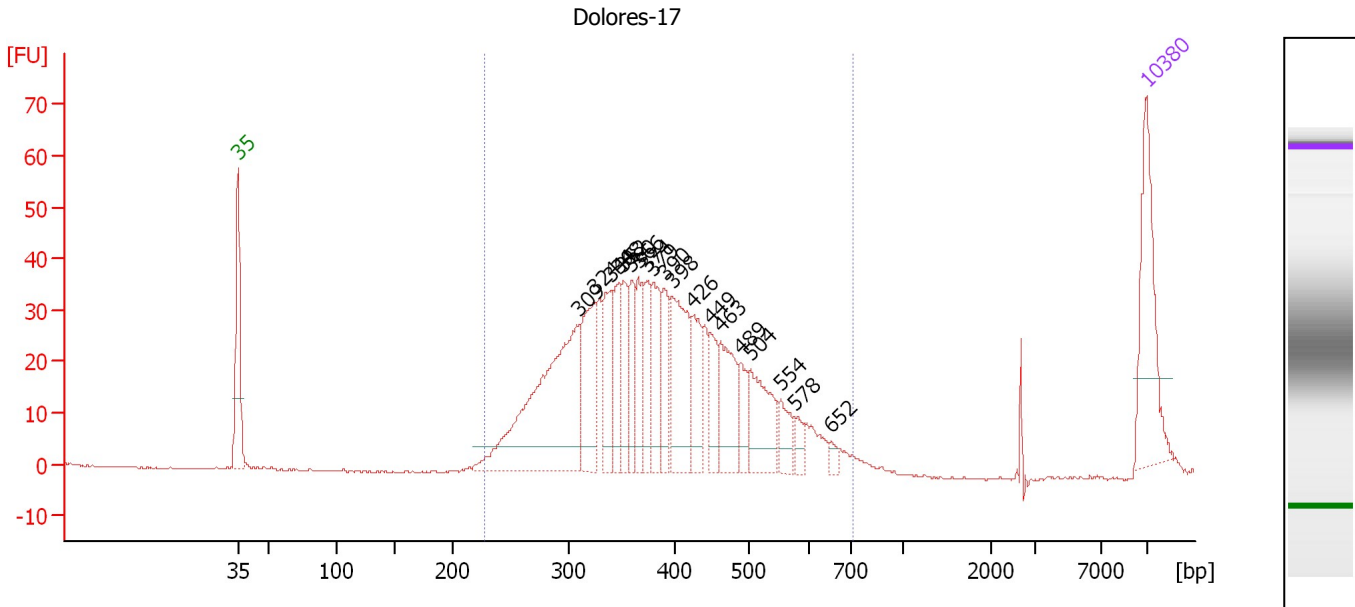
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
221	646	364	1,334.9	304.37	192.1	99	19.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Dolores-17**

Number of peaks found: 19                      Corr. Area 1: 823.4  
 Noise: 0.2

**Peak table for sample 5 : Dolores-17**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	69.22	309	260.24	1,276.7	
3	70.46	324	86.13	402.7	
4	71.77	340	58.28	259.5	
5	72.39	348	40.88	178.1	
6	72.72	352	44.18	190.2	
7	73.33	360	40.39	170.2	
8	73.83	366	39.95	165.6	
9	74.53	374	48.09	194.7	
10	74.94	379	52.40	209.4	
11	75.84	390	38.69	150.2	
12	76.46	398	95.47	363.4	
13	78.10	426	44.83	159.4	
14	79.38	449	35.16	118.8	
15	80.20	463	61.97	202.8	
16	81.68	489	25.19	78.0	
17	82.50	504	64.57	194.0	
18	84.80	554	22.87	62.6	
19	85.95	578	11.28	29.6	
20	88.67	652	5.66	13.2	
21	113.00	10,380	75.00	10.9	Upper Marker

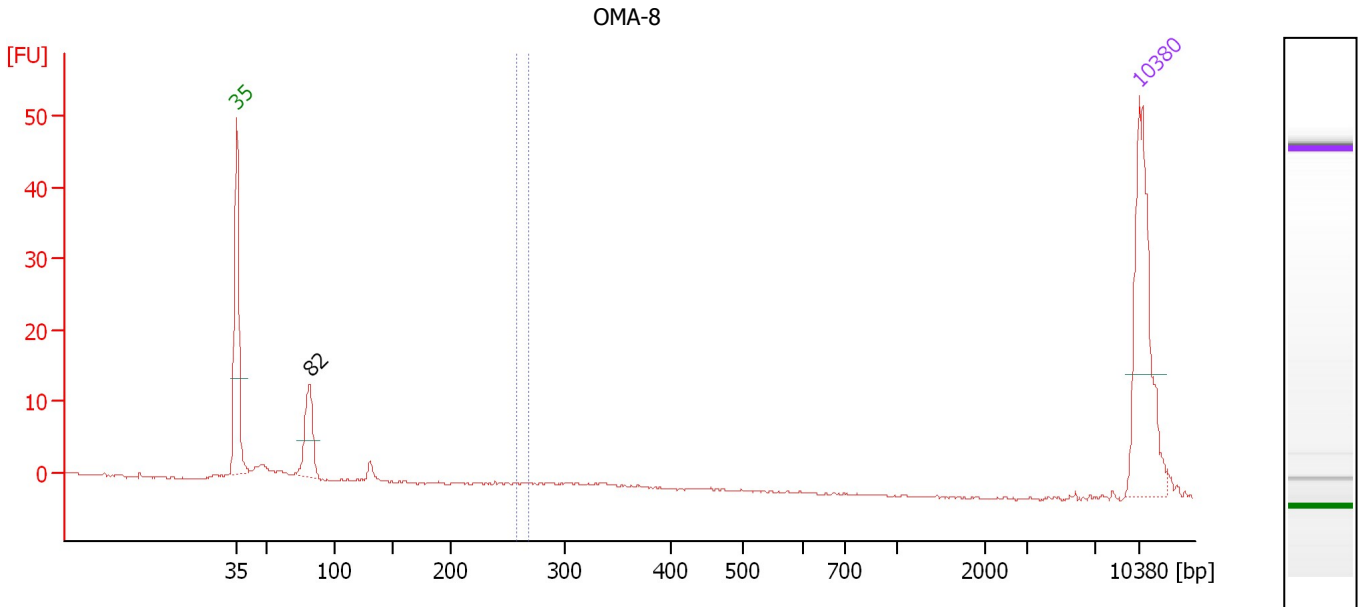
**Region table for sample 5 : Dolores-17**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
227	709	395	4,898.1	1,183.78	823.4	99	23.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : OMA-8**

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 6 : OMA-8**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.67	82	46.46	857.2	
3	113.00	10,380	75.00	10.9	Upper Marker

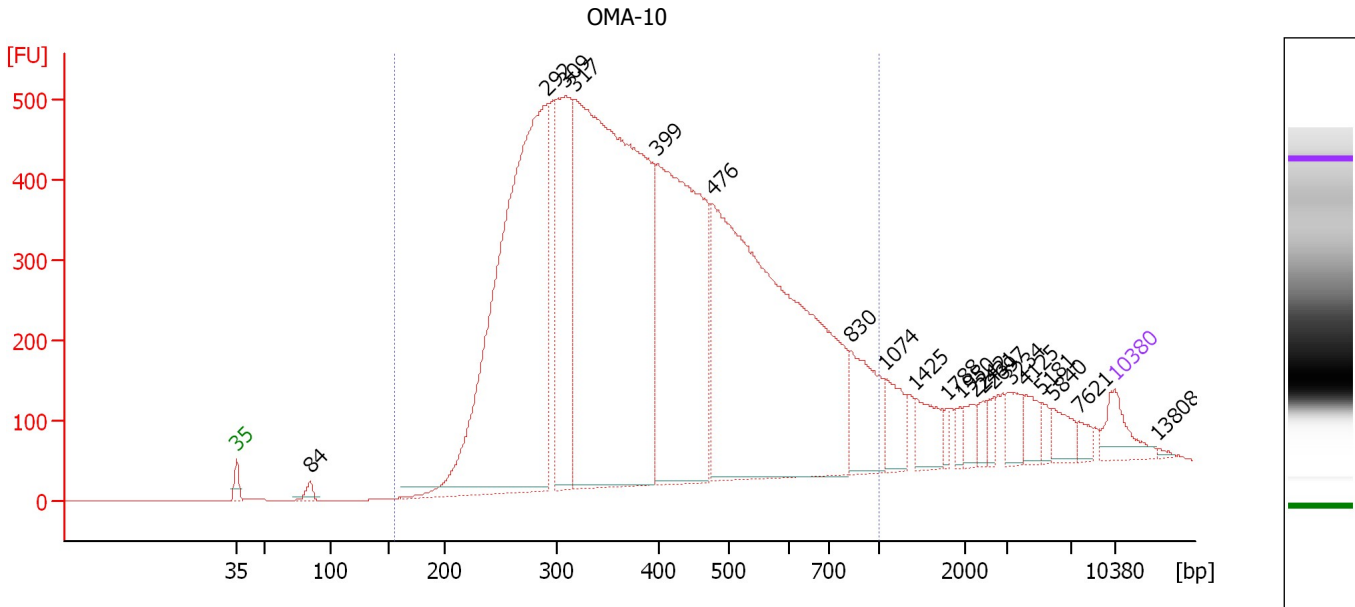
**Region table for sample 6 : OMA-8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
258	268	268	0.1	0.01	0.0	0	0.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : OMA-10**

Number of peaks found: 20                      Corr. Area 1: 14,355.5  
 Noise: 0.1

**Peak table for sample 7 : OMA-10**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.87	84	31.77	572.9	
3	67.79	292	2,377.11	12,334.0	
4	69.24	309	725.91	3,558.9	
5	69.92	317	2,929.72	13,984.1	
6	76.55	399	1,338.25	5,079.6	
7	80.93	476	2,100.11	6,685.0	
8	91.99	830	236.58	431.6	
9	94.76	1,074	104.23	147.0	
10	97.14	1,425	94.32	100.3	
11	99.60	1,788	20.06	17.0	
12	100.71	1,950	25.51	19.8	
13	101.86	2,242	38.00	25.7	
14	102.50	2,431	26.67	16.6	
15	103.39	2,697	27.61	15.5	
16	104.71	3,234	54.93	25.7	
17	105.86	4,125	48.58	17.8	
18	107.22	5,181	26.39	7.7	
19	108.07	5,840	51.78	13.4	
20	110.19	7,621	26.83	5.3	
21	113.00	10,380	75.00	10.9	Upper Marker
22	116.49	13,808	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**

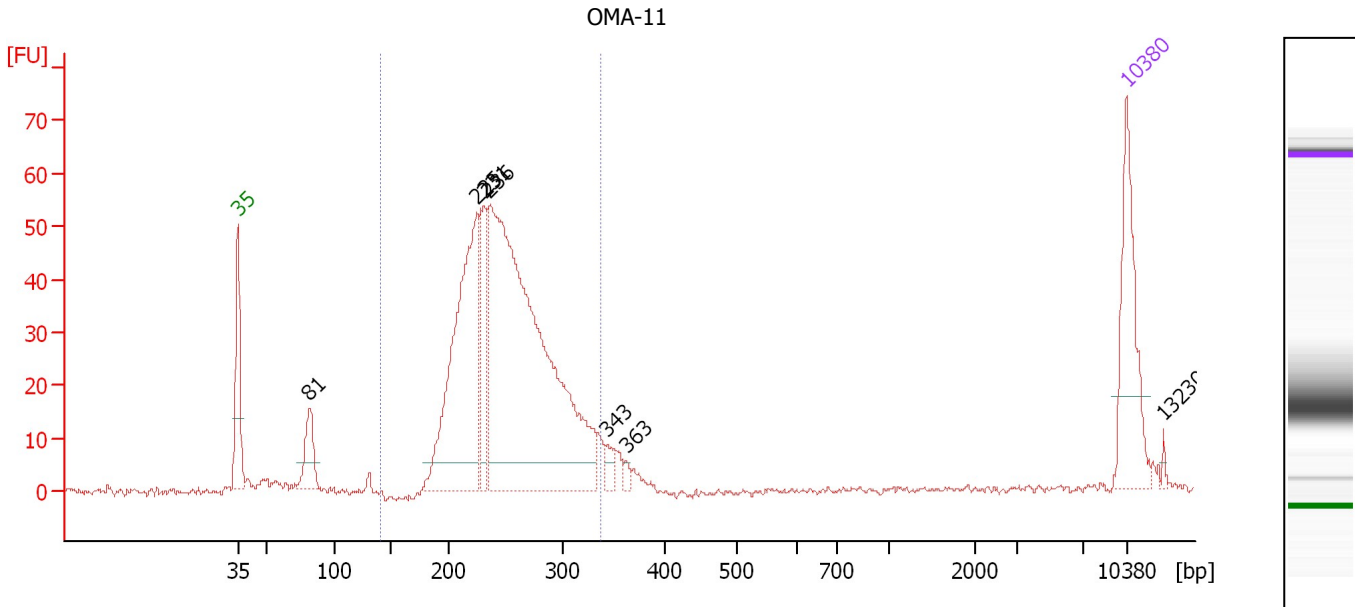
... Region table for sample 7 : OMA-10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
156	1,000	419	39,530.9	9,360.10	14,355.5	91	36.4	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : OMA-11**

Number of peaks found: 7                      Corr. Area 1: 669.0  
 Noise: 0.7

**Peak table for sample 8 : OMA-11**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.59	81	49.31	918.3	
3	61.82	225	303.22	2,041.4	
4	62.37	231	81.42	533.7	
5	62.79	236	669.63	4,301.1	
6	72.03	343	13.36	58.9	
7	73.59	363	5.42	22.6	
8	113.00	10,380	75.00	10.9	Upper Marker
9	115.90	13,230	0.00	0.0	

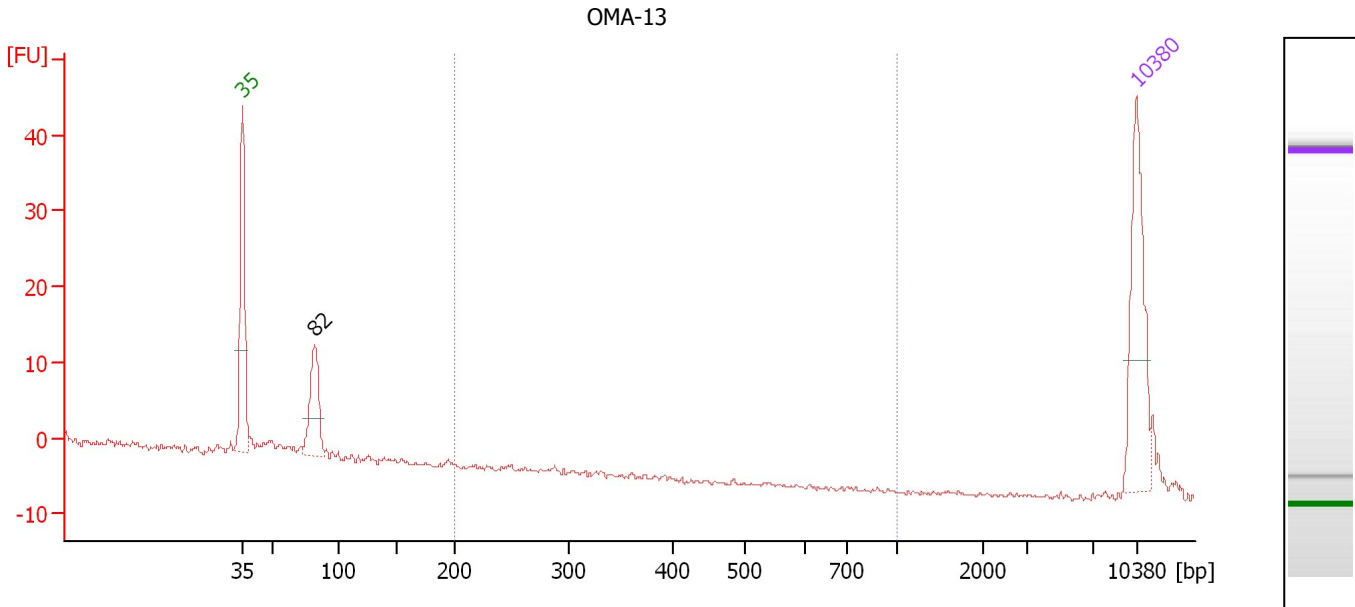
**Region table for sample 8 : OMA-11**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
141	339	251	6,279.6	1,025.49	669.0	90	13.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : OMA-13**

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.3

**Peak table for sample 9 : OMA-13**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.68	82	74.82	1,379.2	
3	113.00	10,380	75.00	10.9	Upper Marker

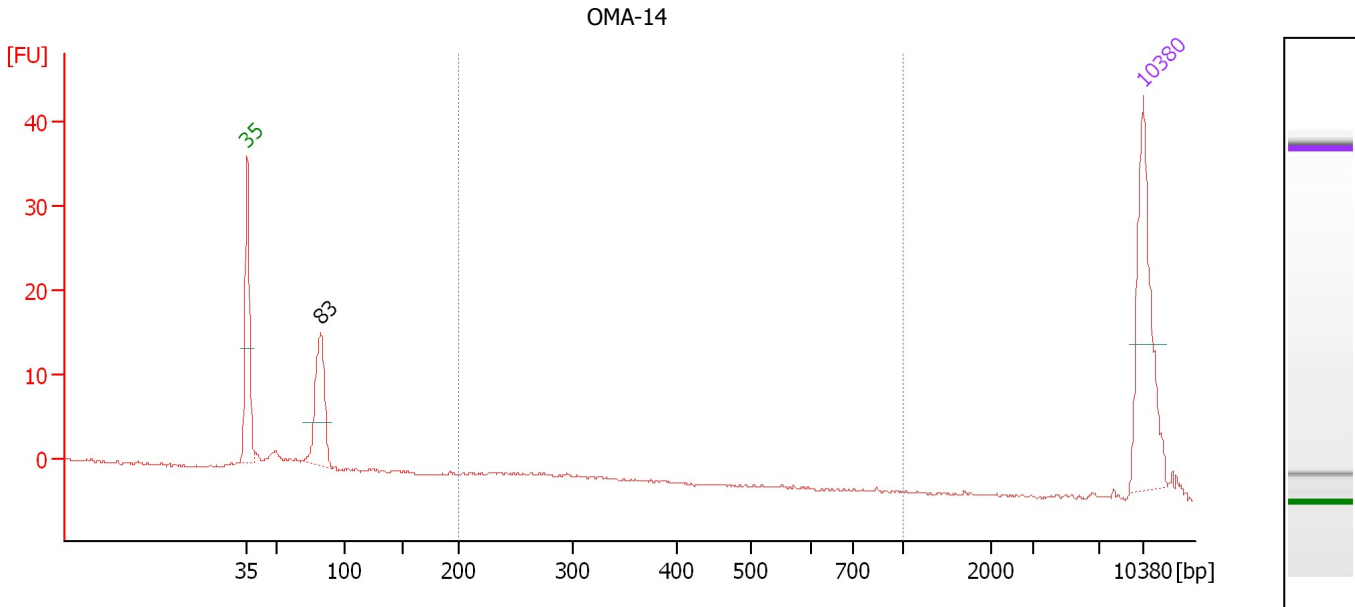
**Region table for sample 9 : OMA-13**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : OMA-14**

Number of peaks found: 1                      Corr. Area 1: 3.1  
 Noise: 0.2

**Peak table for sample 10 : OMA-14**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.75	83	86.35	1,578.3	
3	113.00	10,380	75.00	10.9	Upper Marker

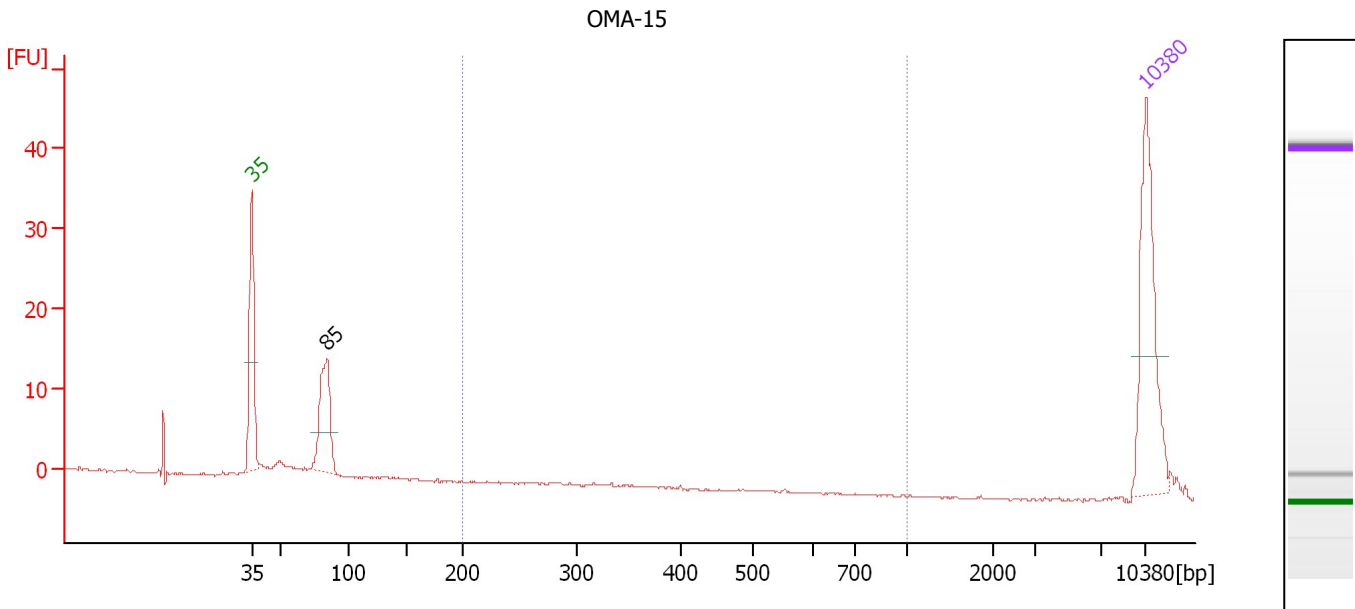
**Region table for sample 10 : OMA-14**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	270	43.0	7.58	3.1	6	13.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
 Modified: 1/31/2014 11:41:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : OMA-15**

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 11 : OMA-15**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.93	85	78.88	1,413.2	
3	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : OMA-15**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-31\2014-01-31\_002.xad

Created: 1/31/2014 10:48:08 AM  
Modified: 1/31/2014 11:41:25 AM

**Gel Image**

