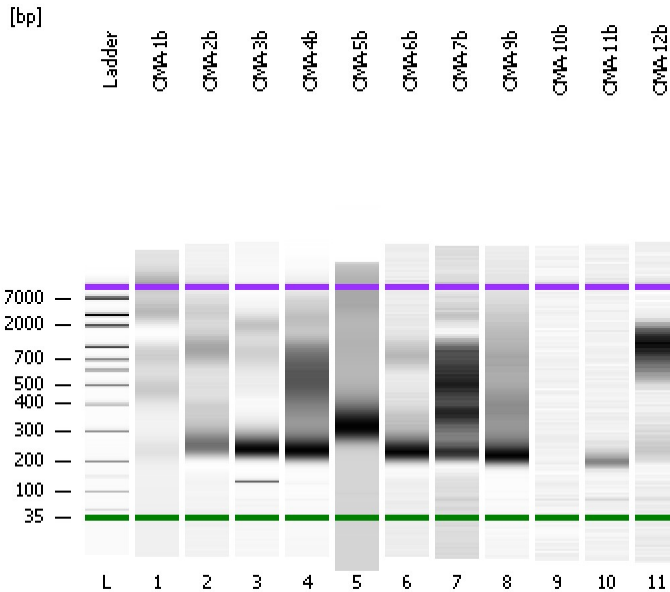


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
Modified: 2/28/2014 11:55:49 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

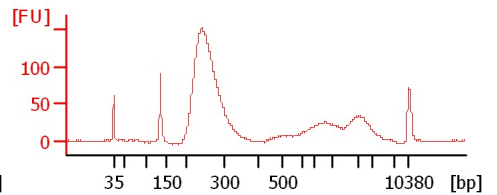
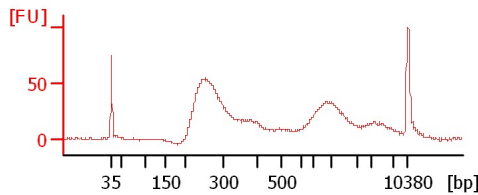
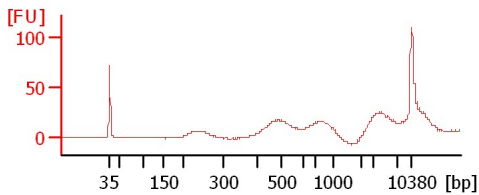
Chip Information:

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

**OMA-1b**

**OMA-2b**

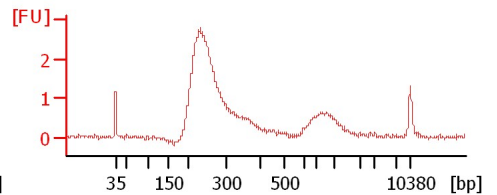
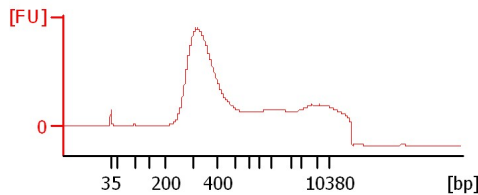
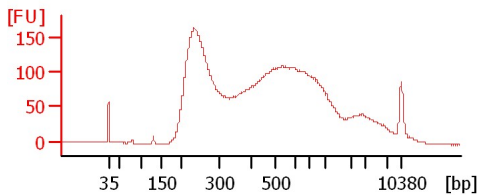
**OMA-3b**



**OMA-4b**

**OMA-5b**

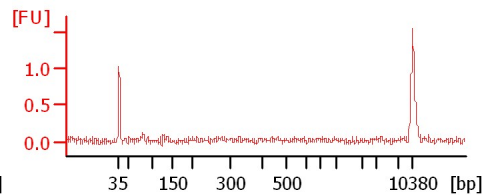
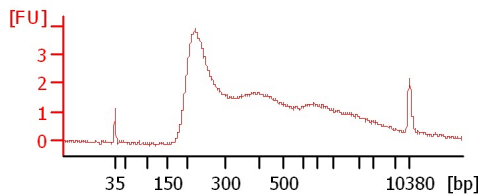
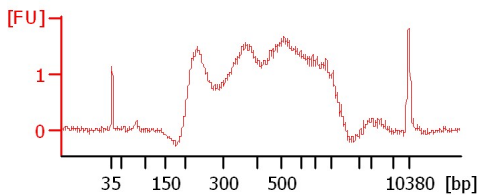
**OMA-6b**



**OMA-7b**

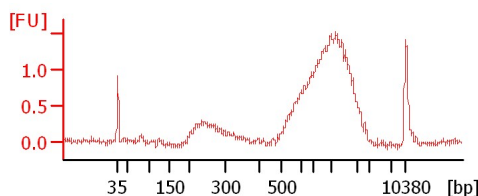
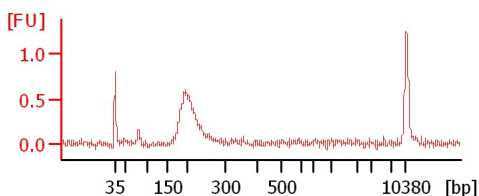
**OMA-9b**

**OMA-10b**



**OMA-11b**

**OMA-12b**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
OMA-1b		<input type="checkbox"/>	✓			
OMA-2b		<input type="checkbox"/>	✓			
OMA-3b		<input type="checkbox"/>	✓			
OMA-4b		<input type="checkbox"/>	✓			
OMA-5b		<input type="checkbox"/>	✓			
OMA-6b		<input type="checkbox"/>	✓			
OMA-7b		<input type="checkbox"/>	✓			
OMA-9b		<input type="checkbox"/>	✓			
OMA-10b		<input type="checkbox"/>	✓			
OMA-11b		<input type="checkbox"/>	✓			
OMA-12b		<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\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
Modified: 2/28/2014 11:55:49 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

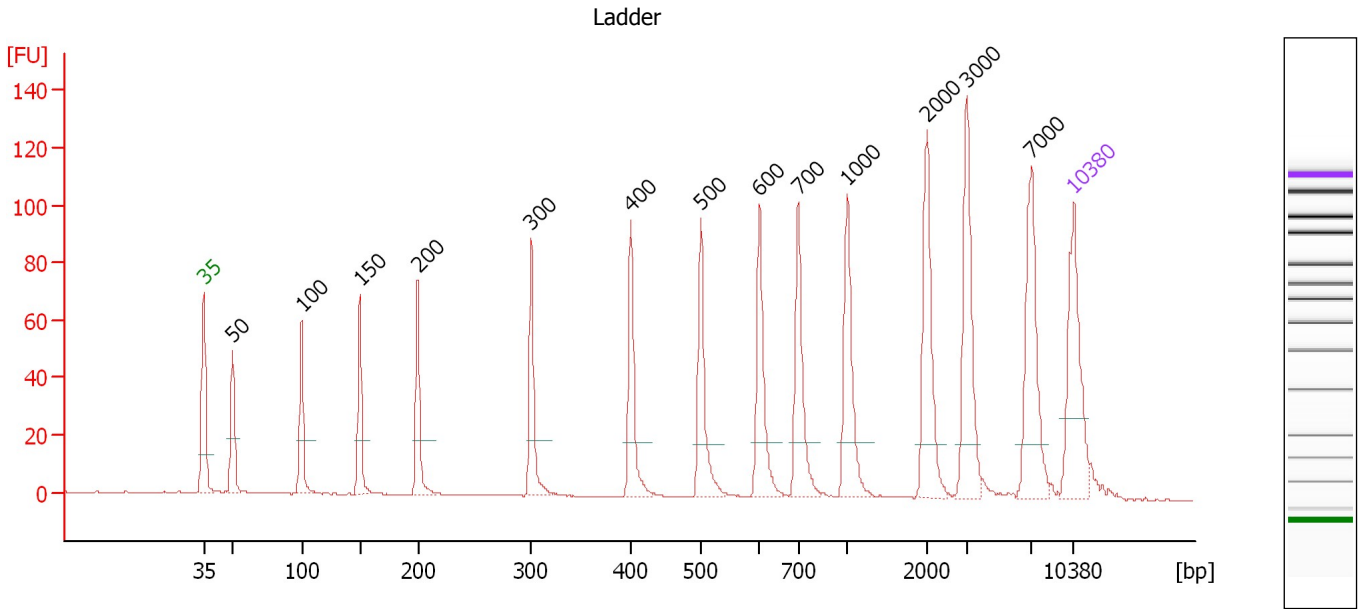
**Ladder**

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\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

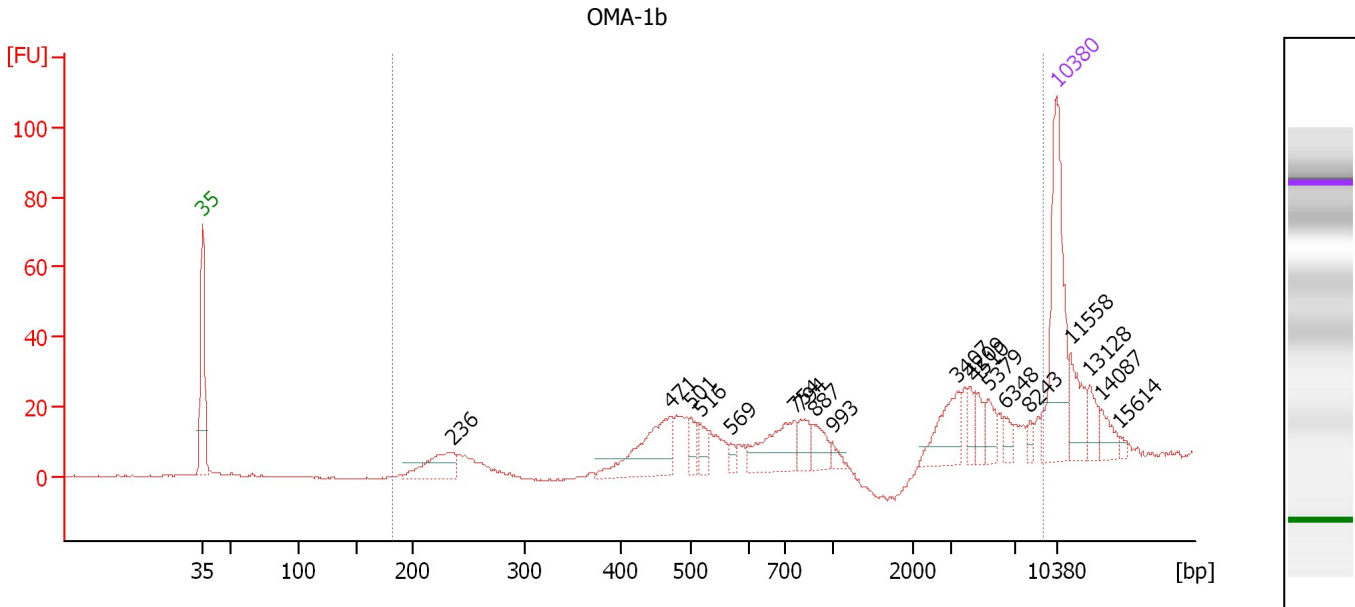
**Peak table for Ladder**

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	45.36	50	150.00	4,545.5	Ladder Peak
3	50.89	100	150.00	2,272.7	Ladder Peak
4	55.57	150	150.00	1,515.2	Ladder Peak
5	60.24	200	150.00	1,136.4	Ladder Peak
6	69.38	300	150.00	757.6	Ladder Peak
7	77.36	400	150.00	568.2	Ladder Peak
8	83.02	500	150.00	454.5	Ladder Peak
9	87.74	600	150.00	378.8	Ladder Peak
10	90.82	700	150.00	324.7	Ladder Peak
11	94.77	1,000	150.00	227.3	Ladder Peak
12	101.20	2,000	150.00	113.6	Ladder Peak
13	104.38	3,000	150.00	75.8	Ladder Peak
14	109.61	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : OMA-1b**

Number of peaks found: 19                      Corr. Area 1: 345.5  
 Noise: 0.2

**Peak table for sample 1 : OMA-1b**

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	63.51	236	41.31	265.5	
3	81.39	471	63.54	204.3	
4	83.05	501	12.47	37.7	
5	83.79	516	11.35	33.3	
6	86.29	569	5.54	14.7	
7	91.53	754	43.10	86.6	
8	92.06	794	15.90	30.4	
9	93.28	887	15.43	26.4	
10	94.68	993	5.55	8.5	
11	104.91	3,407	29.24	13.0	
12	105.96	4,209	8.25	3.0	
13	106.35	4,510	10.77	3.6	
14	107.49	5,379	11.69	3.3	
15	108.76	6,348	6.40	1.5	
16	110.86	8,243	4.41	0.8	
17	113.00	10,380	75.00	10.9	Upper Marker
18	114.18	11,558	0.00	0.0	
19	115.75	13,128	0.00	0.0	
20	116.72	14,087	0.00	0.0	
21	118.25	15,614	0.00	0.0	

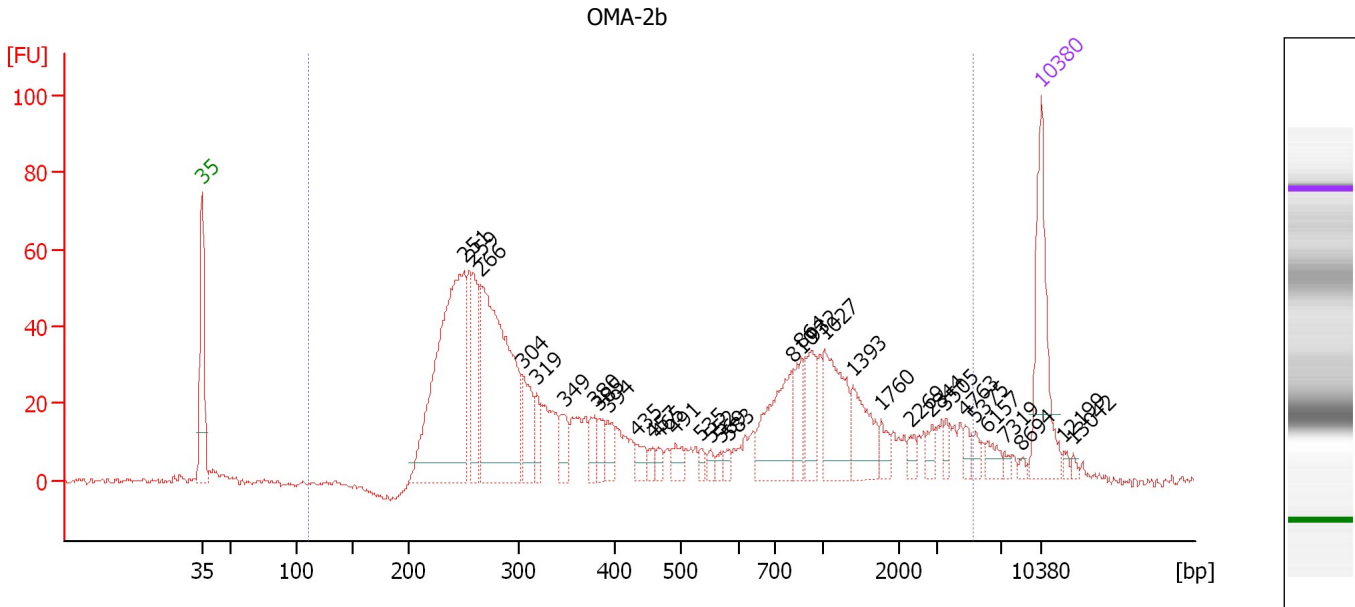
**Region table for sample 1 : OMA-1b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
182	9,263	2,466	693.6	287.38	345.5	83	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : OMA-2b**

Number of peaks found: 33                      Corr. Area 1: 1,270.6  
 Noise: 0.7

**Peak table for sample 2 : OMA-2b**

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	64.88	251	338.00	2,042.2	
3	65.59	259	76.54	448.5	
4	66.26	266	290.97	1,658.3	
5	69.73	304	49.73	247.6	
6	70.93	319	23.27	110.4	
7	73.29	349	24.92	108.2	
8	75.73	380	16.66	66.5	
9	76.13	385	17.03	67.1	
10	76.89	394	17.84	68.6	
11	79.33	435	14.05	48.9	
12	80.58	457	7.67	25.4	
13	81.02	465	9.13	29.8	
14	82.49	491	13.27	41.0	
15	84.67	535	6.16	17.4	
16	85.47	552	5.97	16.4	
17	86.27	569	5.85	15.6	
18	86.94	583	6.10	15.9	
19	92.28	810	79.39	148.4	
20	92.99	864	27.09	47.5	
21	93.88	932	39.04	63.5	
22	94.94	1,027	70.30	103.7	
23	97.30	1,393	42.85	46.6	
24	99.66	1,760	12.00	10.3	
25	102.06	2,269	7.44	5.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 :

#### OMA-2b

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	103.88	2,844	9.50	5.1	
27	105.04	3,505	6.93	3.0	
28	106.68	4,763	7.01	2.2	
29	107.49	5,375	6.52	1.8	
30	108.51	6,157	10.07	2.5	
31	109.93	7,319	3.12	0.6	
32	111.31	8,694	2.63	0.5	
33	113.00	10,380	75.00	10.9	Upper Marker
34	114.82	12,199	0.00	0.0	
35	115.67	13,042	0.00	0.0	

#### Region table for sample 2 :

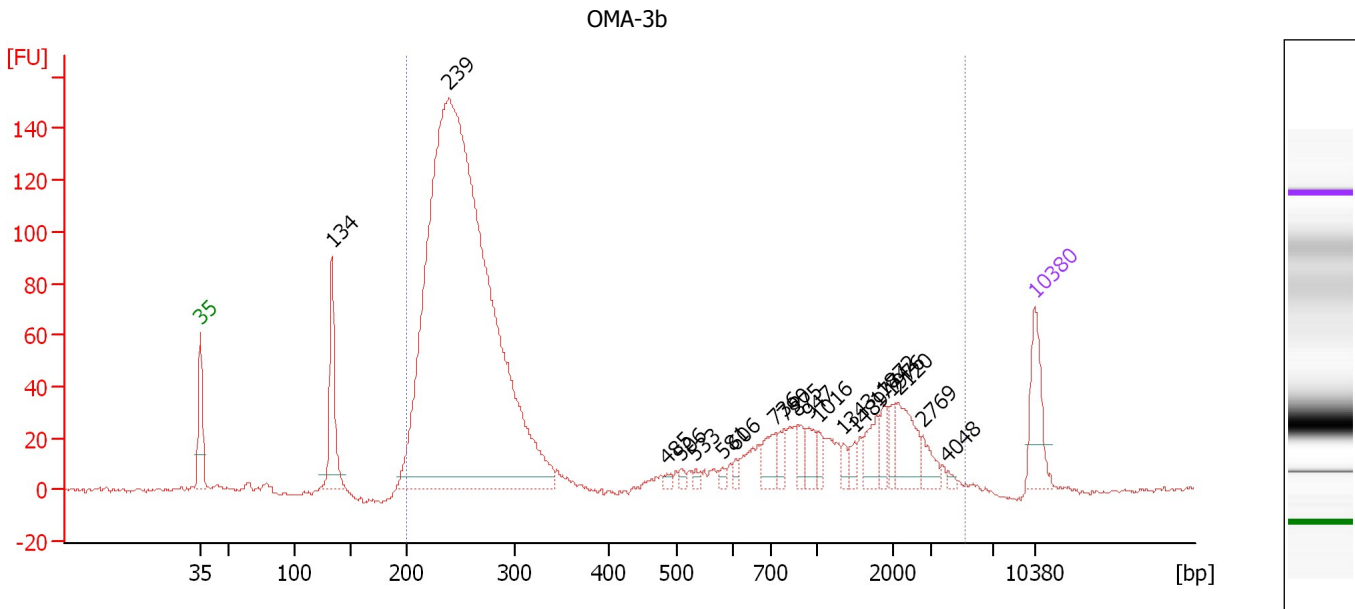
#### OMA-2b

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
111	5,193	793	6,440.6	1,505.77	1,270.6	95	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : OMA-3b**

Number of peaks found: 20                      Corr. Area 1: 1,950.6  
 Noise: 0.8

**Peak table for sample 3 : OMA-3b**

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	54.05	134	189.48	2,145.3	
3	63.81	239	2,904.25	18,406.3	
4	82.16	485	7.73	24.1	
5	83.28	506	8.52	25.5	
6	84.58	533	9.03	25.7	
7	86.82	581	7.79	20.3	
8	87.94	606	10.92	27.3	
9	91.29	736	45.72	94.2	
10	92.01	790	24.26	46.5	
11	93.13	875	26.73	46.3	
12	94.07	947	30.53	48.9	
13	94.87	1,016	19.23	28.7	
14	96.98	1,343	12.91	14.6	
15	97.92	1,489	15.91	16.2	
16	99.75	1,774	41.97	35.8	
17	100.38	1,872	27.17	22.0	
18	101.05	1,976	22.62	17.3	
19	101.59	2,120	70.19	50.2	
20	103.65	2,769	28.00	15.3	
21	105.75	4,048	5.19	1.9	
22	113.00	10,380	75.00	10.9	Upper Marker




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**

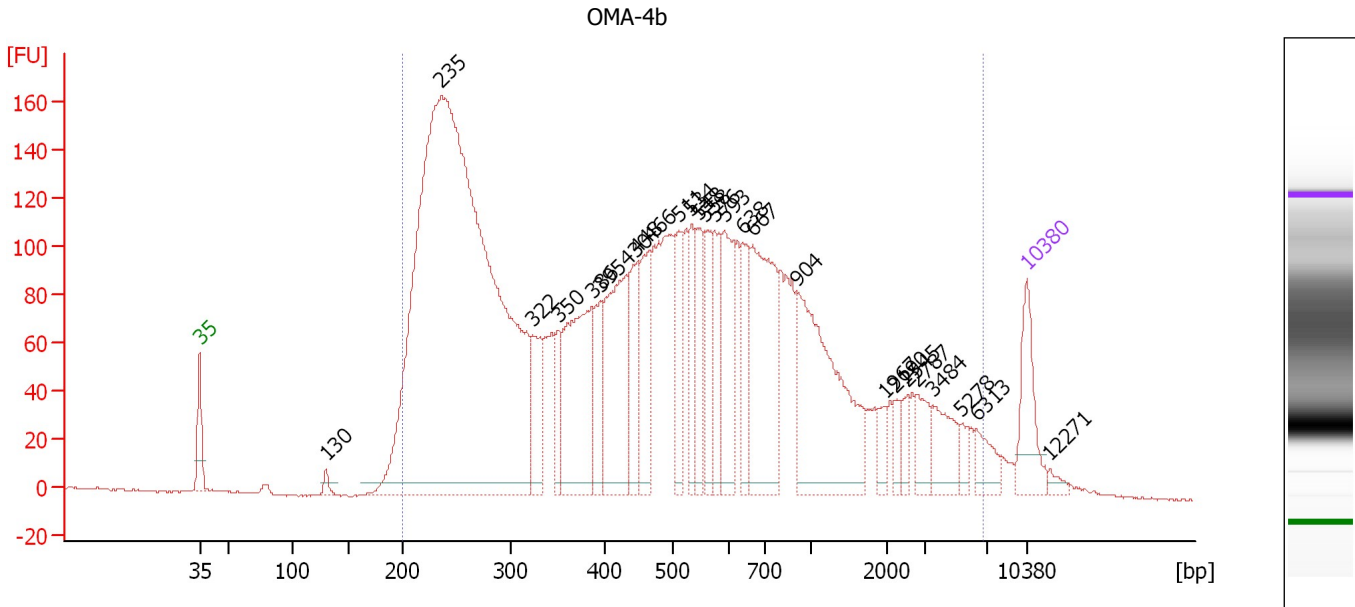
... Region table for sample 3 : OMA-3b

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	5,142	629	17,799.9	3,416.35	 1,950.6	95	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : OMA-4b**

Number of peaks found: 26                      Corr. Area 1: 5,210.3  
 Noise: 0.6

**Peak table for sample 4 : OMA-4b**

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	53.70	130	15.04	175.3	
3	63.44	235	2,550.21	16,438.8	
4	71.16	322	102.72	482.8	
5	73.33	350	61.44	266.4	
6	76.22	386	282.62	1,110.2	
7	76.94	395	89.93	345.1	
8	79.06	430	241.04	849.2	
9	80.05	448	96.63	327.1	
10	81.09	466	129.55	421.3	
11	83.53	511	92.45	274.2	
12	84.61	534	78.87	223.9	
13	85.29	548	88.25	243.9	
14	85.74	558	86.59	235.2	
15	86.60	576	94.71	249.2	
16	87.41	593	144.53	369.2	
17	88.90	638	87.74	208.5	
18	89.80	667	264.83	601.7	
19	93.50	904	334.17	560.3	
20	100.99	1,967	21.58	16.6	
21	101.81	2,190	18.97	13.1	
22	102.94	2,545	22.13	13.2	
23	103.70	2,787	42.72	23.2	
24	105.01	3,484	56.89	24.7	
25	107.36	5,278	17.15	4.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : OMA-4b

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	108.71	6,313	35.17	8.4	
27	113.00	10,380	75.00	10.9	Upper Marker
28	114.90	12,271	0.00	0.0	

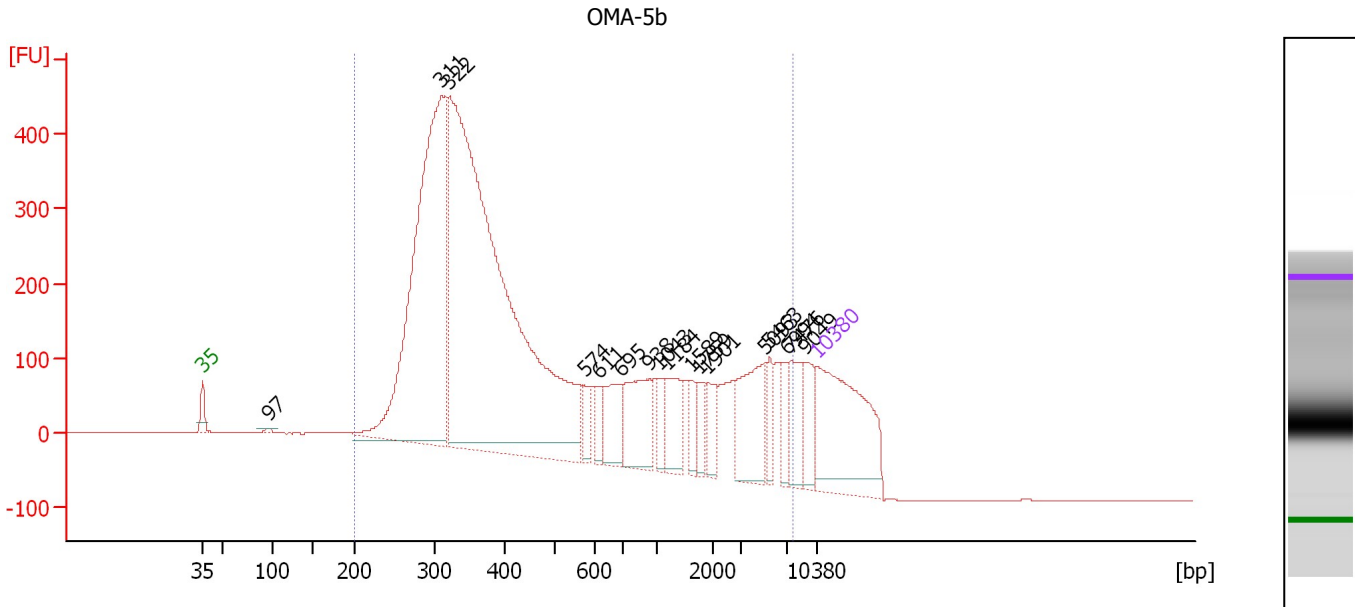
#### Region table for sample 4 : OMA-4b

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	6,791	761	22,775.5	5,521.49	5,210.3	97	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : OMA-5b**

Number of peaks found: 17                      Corr. Area 1: 9,547.8  
 Noise: 0.1

**Peak table for sample 5 : OMA-5b**

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	50.58	97	1.93	30.0	
3	70.24	311	326.45	1,591.7	
4	71.15	322	574.46	2,701.8	
5	86.49	574	10.19	26.9	
6	88.07	611	11.41	28.3	
7	90.68	695	27.02	58.9	
8	93.95	938	39.90	64.5	
9	95.05	1,043	12.35	17.9	
10	95.95	1,184	22.91	29.3	
11	98.56	1,589	8.61	8.2	
12	99.66	1,759	9.63	8.3	
13	100.56	1,901	13.10	10.4	
14	107.12	5,093	40.02	11.9	
15	107.60	5,463	10.96	3.0	
16	109.60	6,994	10.96	2.4	
17	110.09	7,476	19.58	4.0	
18	111.67	9,049	17.90	3.0	
19	113.00	10,380	75.00	10.9	Upper Marker

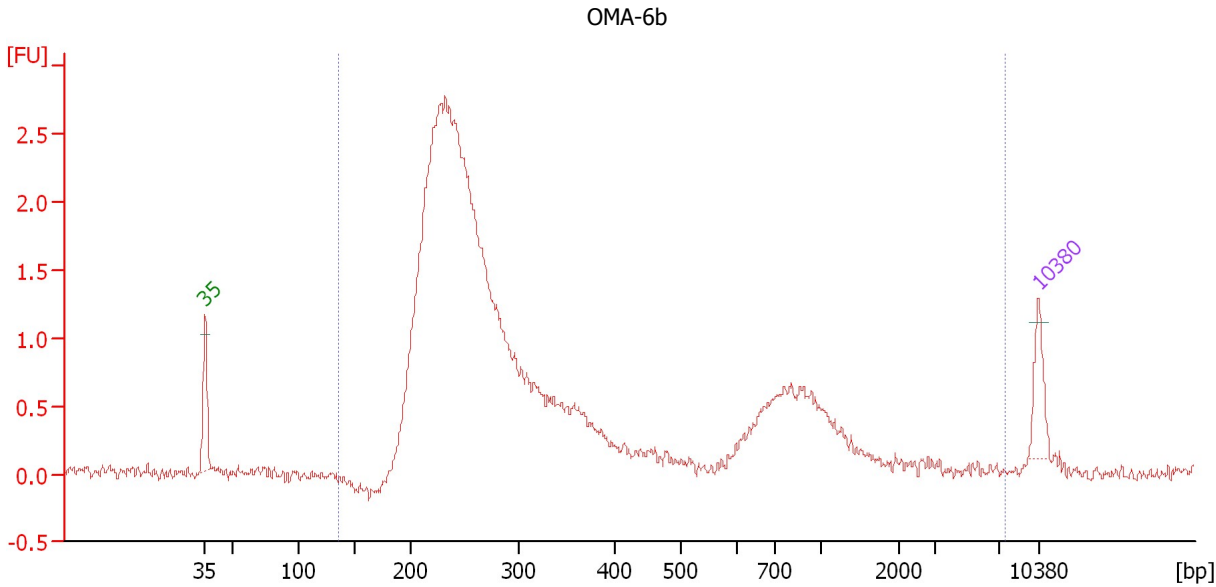
**Region table for sample 5 : OMA-5b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	7,547	1,063	4,402.6	1,172.10	9,547.8	91	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : OMA-6b**

Height Threshold [FU] : 1

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

Number of peaks found: 0                      Corr. Area 1: 39.5  
 Noise: 0.0

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

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

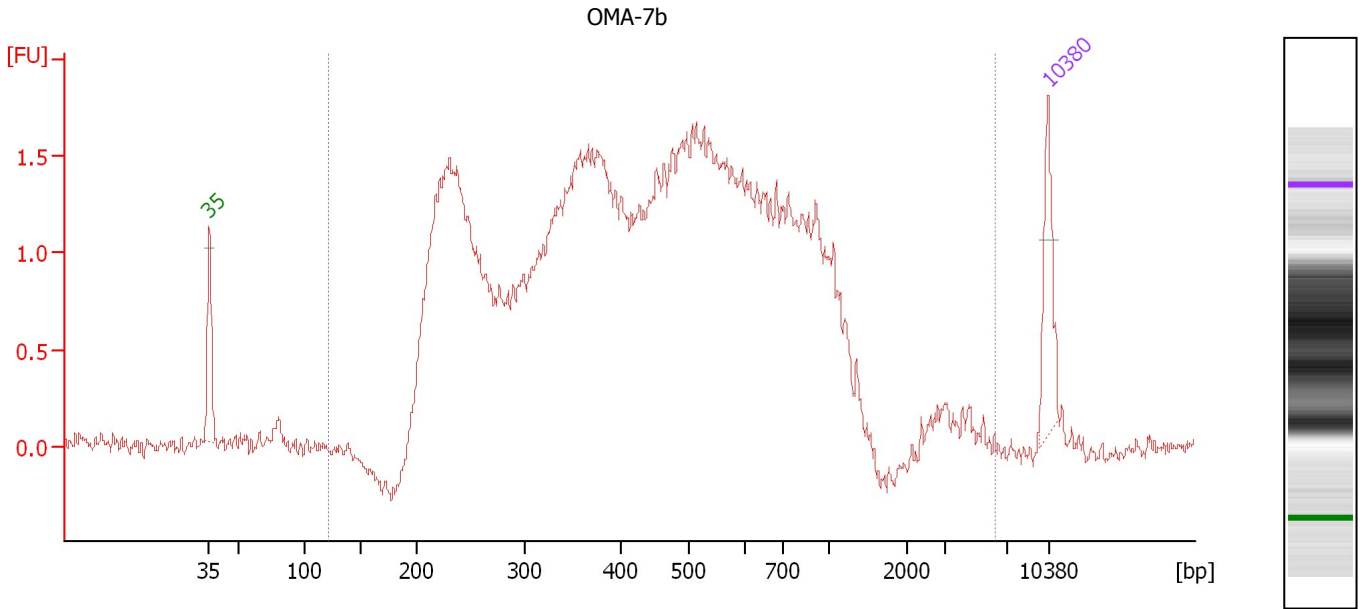
**Region table for sample 6 : OMA-6b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
136	7,521	428	27,716.9	5,059.68	39.5	99	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

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 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : OMA-7b**

Height Threshold [FU] : 1

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

Number of peaks found: 0                      Corr. Area 1: 59.1  
 Noise: 0.0

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

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

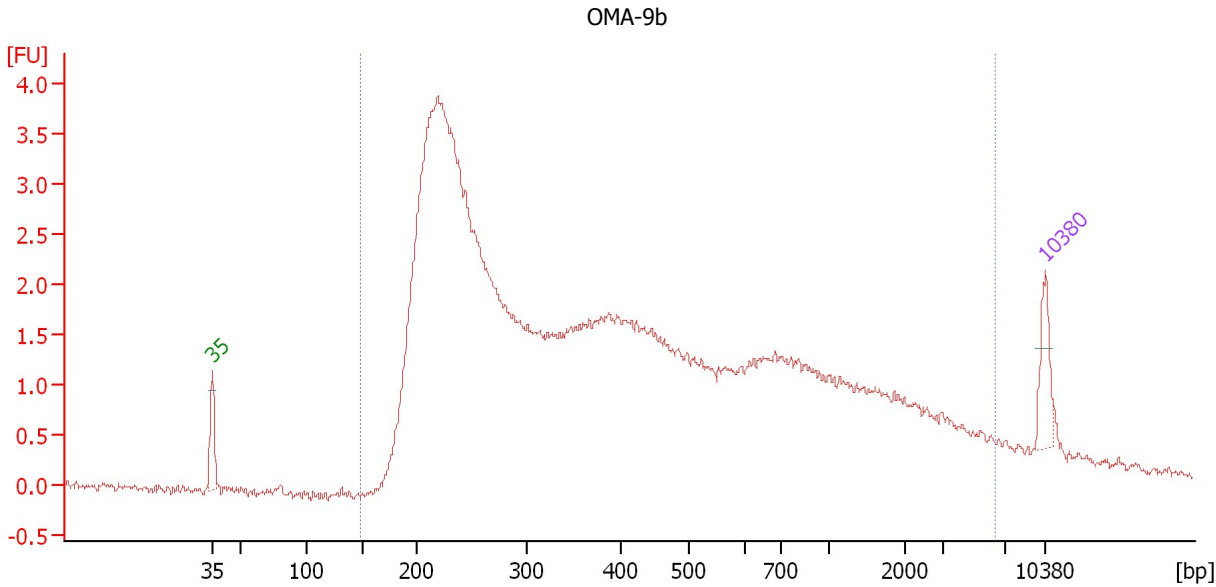
**Region table for sample 7 : OMA-7b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
121	6,153	537	20,276.6	4,990.66	59.1	98	87.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : OMA-9b**

Height Threshold [FU] : 1

**Overall Results for sample 8 : OMA-9b**

Number of peaks found: 0                      Corr. Area 1: 96.8  
 Noise: 0.0

**Peak table for sample 8 : OMA-9b**

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

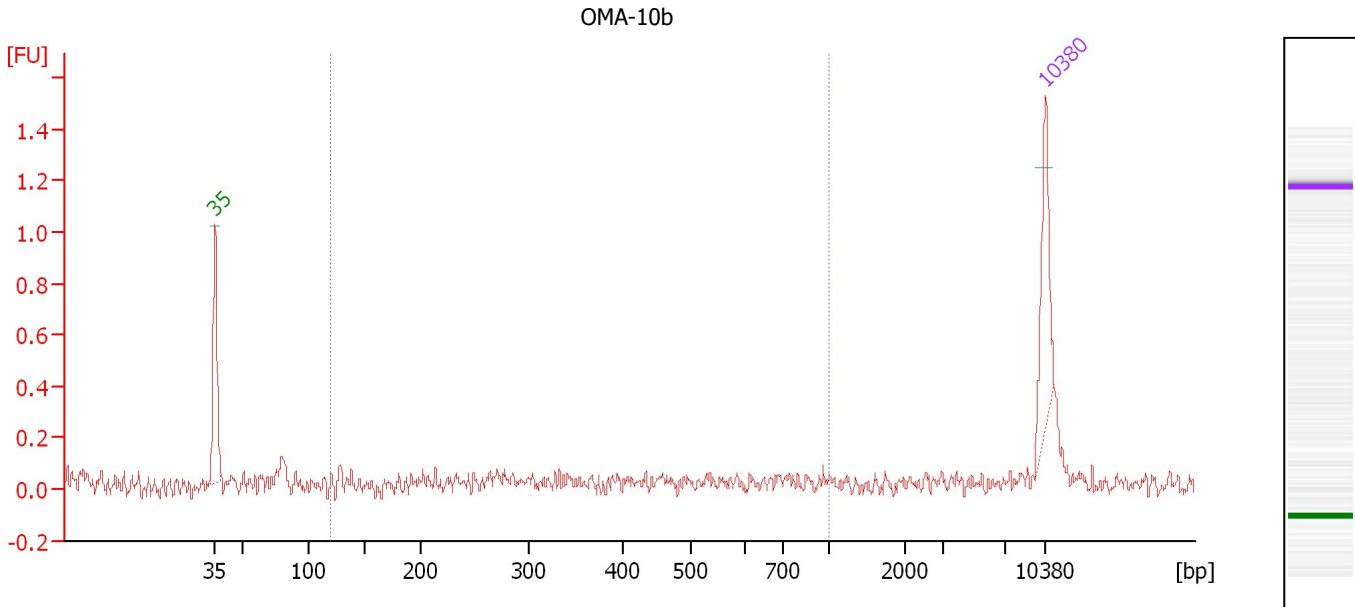
**Region table for sample 8 : OMA-9b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
148	6,382	657	38,856.3	8,103.46	96.8	97	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : OMA-10b**

Height Threshold [FU] : 1

**Overall Results for sample 9 : OMA-10b**

Number of peaks found: 0                      Corr. Area 1: 0.7  
 Noise: 0.0

**Peak table for sample 9 : OMA-10b**

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 9 : OMA-10b**

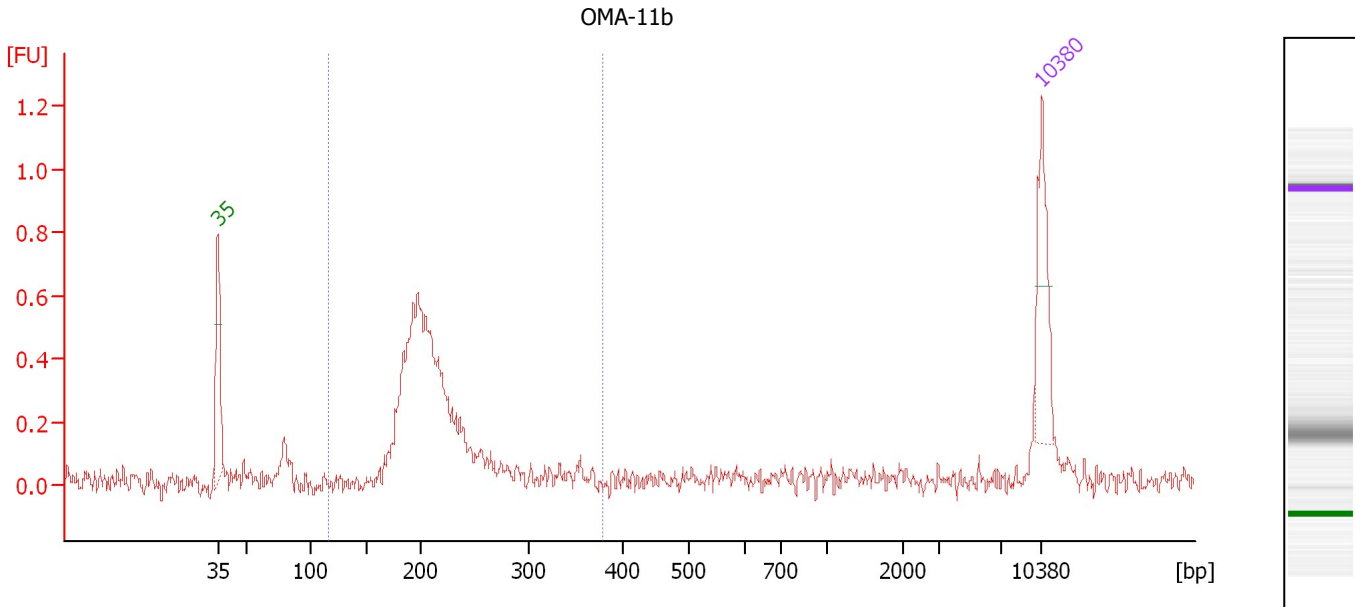
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
120	1,000	462	427.0	85.87	0.7	38	48.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : OMA-11b**

Height Threshold [FU] : 0.5

**Overall Results for sample 10 : OMA-11b**

Number of peaks found: 0                      Corr. Area 1: 4.4  
 Noise: 0.0

**Peak table for sample 10 : OMA-11b**

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

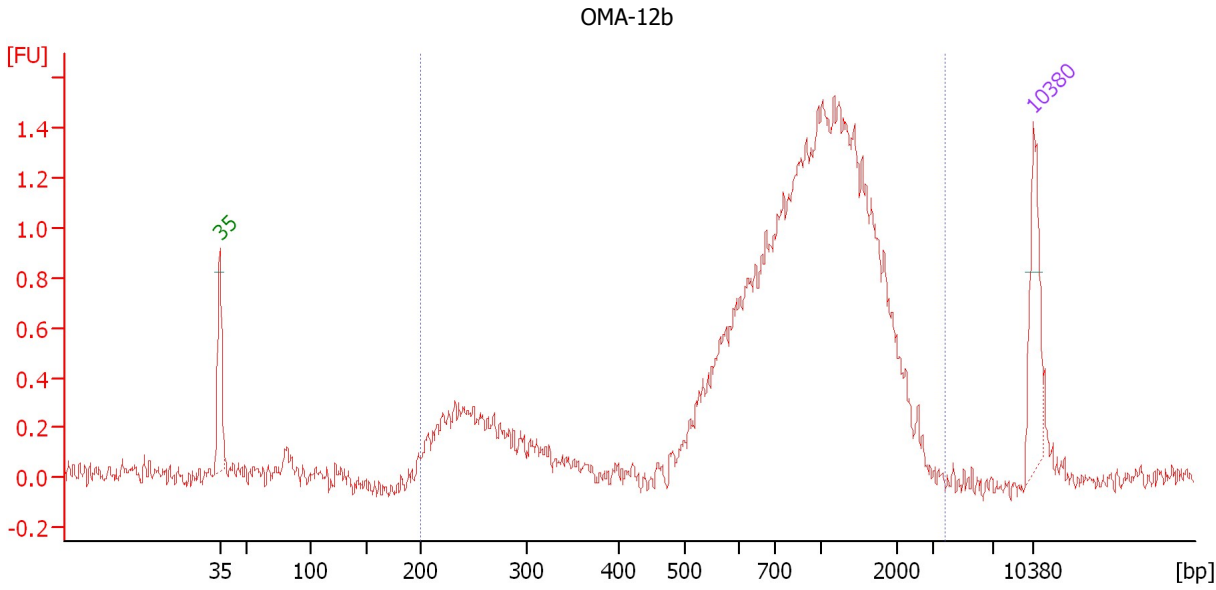
**Region table for sample 10 : OMA-11b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
116	381	216	4,678.2	646.89	4.4	76	17.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
 Modified: 2/28/2014 11:55:49 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : OMA-12b**

Height Threshold [FU] : 0.8

**Overall Results for sample 11 : OMA-12b**

Number of peaks found: 0                      Corr. Area 1: 21.1  
 Noise: 0.0

**Peak table for sample 11 : OMA-12b**

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 11 : OMA-12b**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	3,785	1,018	4,255.6	1,770.62	21.1	98	49.9

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-28\2014-02-28\_002.xad

Created: 2/28/2014 11:09:52 AM  
Modified: 2/28/2014 11:55:49 AM

**Gel Image**

