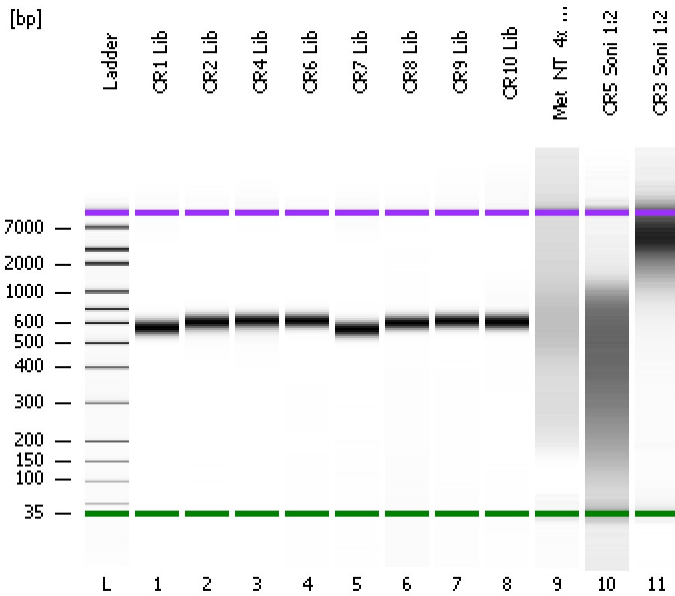


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
Modified: 10/8/2013 5:22:46 PM

Electrophoresis File Run Summary



Instrument Information:

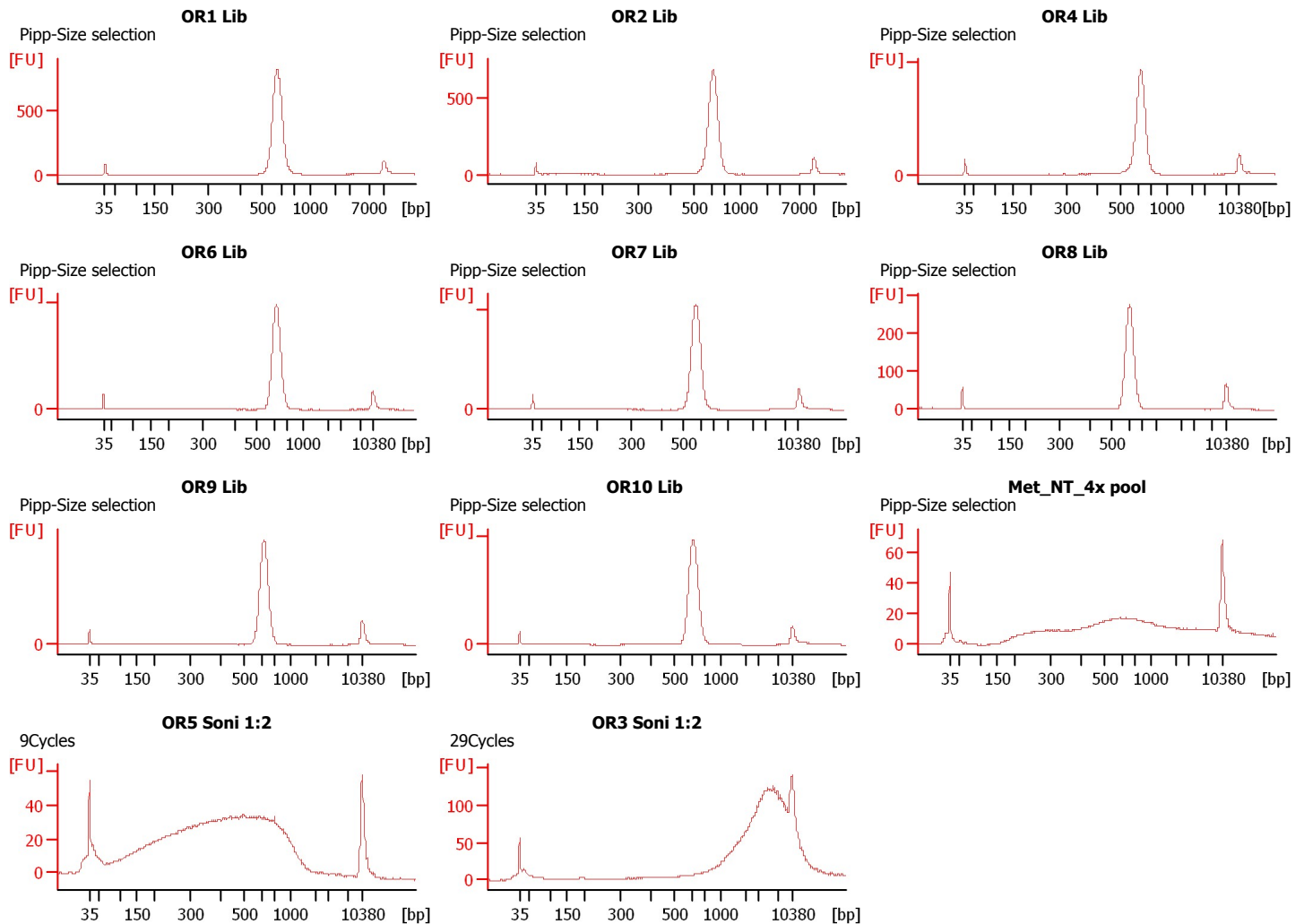
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
Modified: 10/8/2013 5:22:46 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
OR1 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR2 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR4 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR6 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR7 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR8 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR9 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
OR10 Lib	Pipp-Size selection	<input type="checkbox"/>	✓			
Met_NT_4x pool	Pipp-Size selection	<input type="checkbox"/>	✓			
OR5 Soni 1:2	9Cycles	<input type="checkbox"/>	✓			
OR3 Soni 1:2	29Cycles	<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\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
Modified: 10/8/2013 5:22:46 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

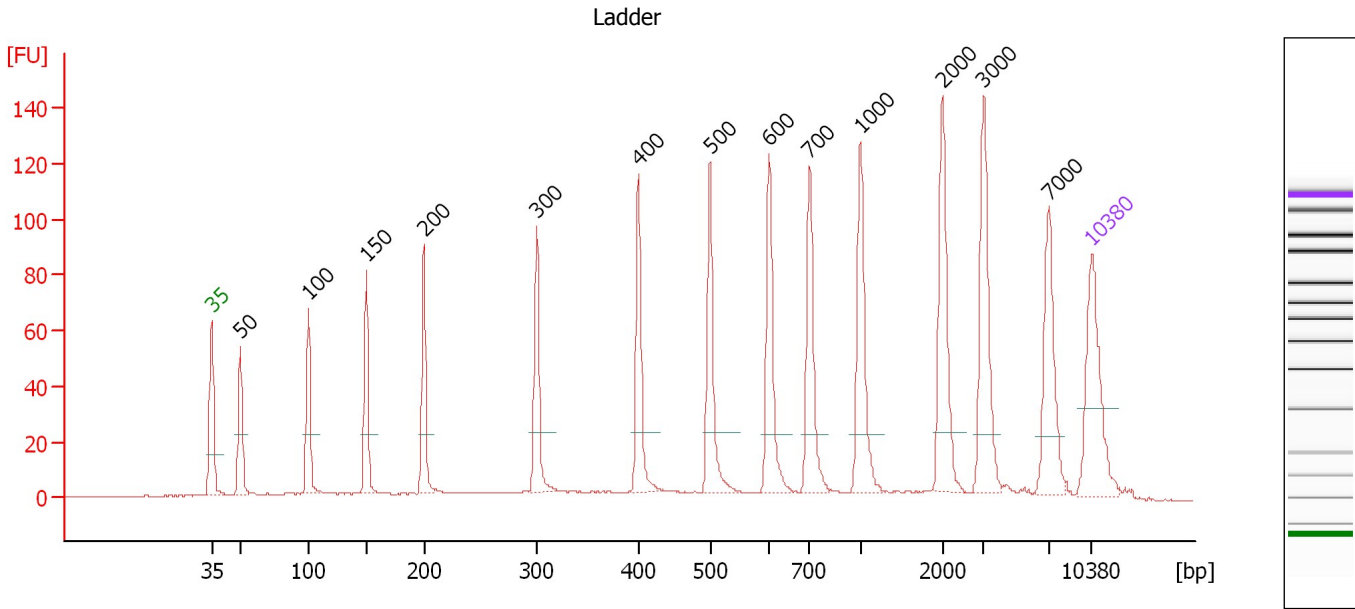
**Ladder**

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\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

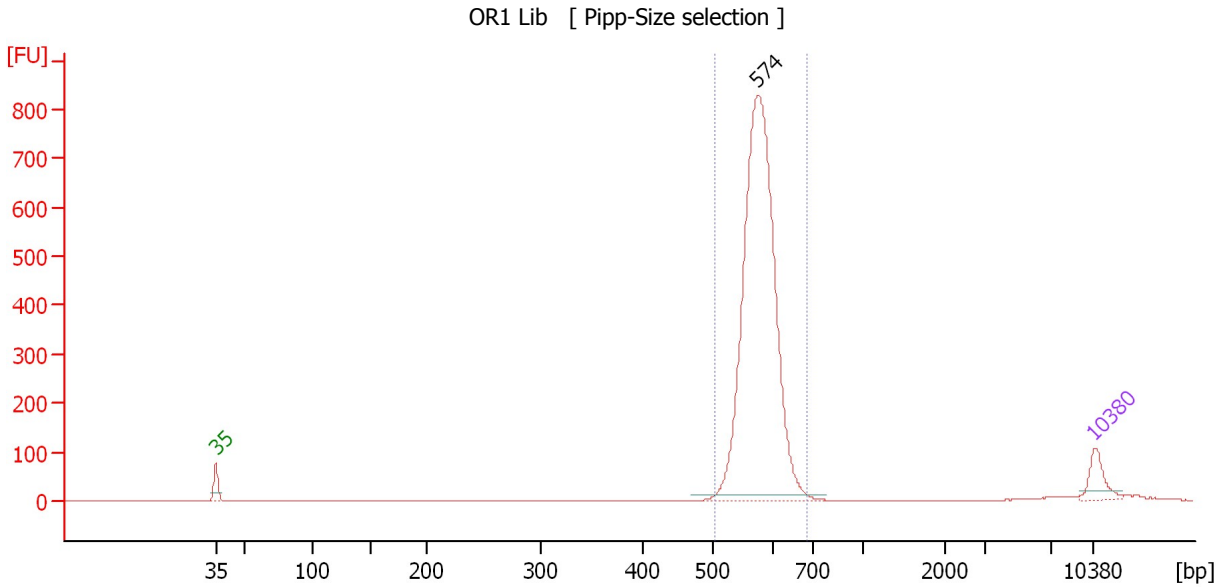
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : OR1 Lib**

Height Threshold [FU] : 10

**Overall Results for sample 1 : OR1 Lib**

Number of peaks found: 1                      Corr. Area 1: 2,937.2  
 Noise: 0.2

**Peak table for sample 1 : OR1 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	574	2,183.84	5,761.6	
3	10,380	75.00	10.9	Upper Marker

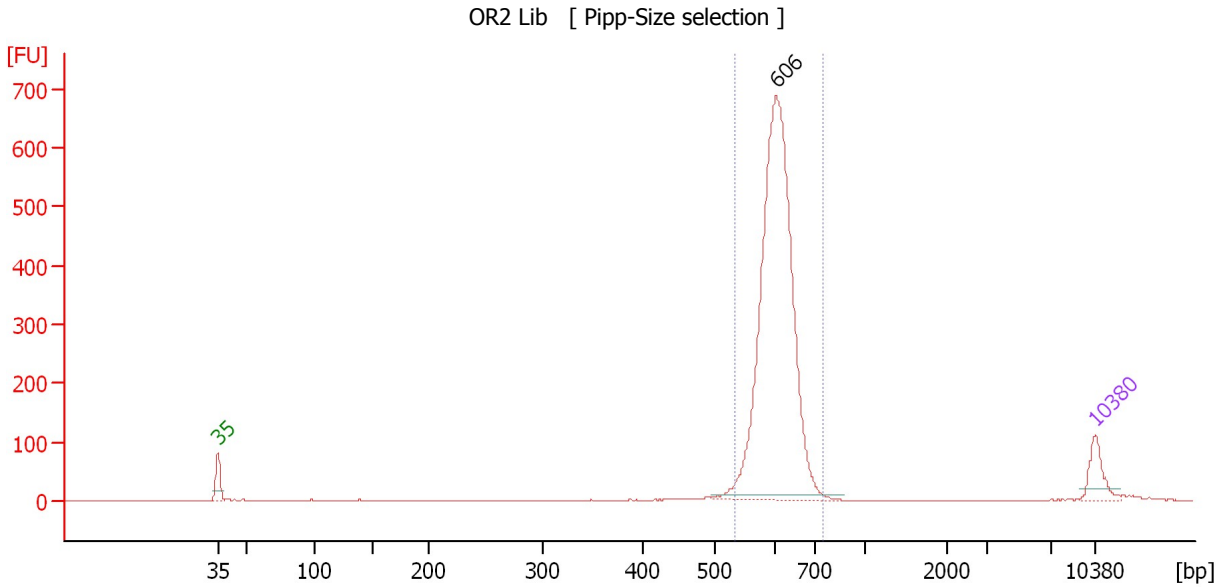
**Region table for sample 1 : OR1 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
503	684	579	5,669.9	2,164.88	2,937.2	98	4.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : OR2 Lib**

Height Threshold [FU] : 10

**Overall Results for sample 2 : OR2 Lib**

Number of peaks found: 1                      Corr. Area 1: 2,364.5  
 Noise: 0.2

**Peak table for sample 2 : OR2 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	606	1,815.79	4,543.7	
3	10,380	75.00	10.9	Upper Marker

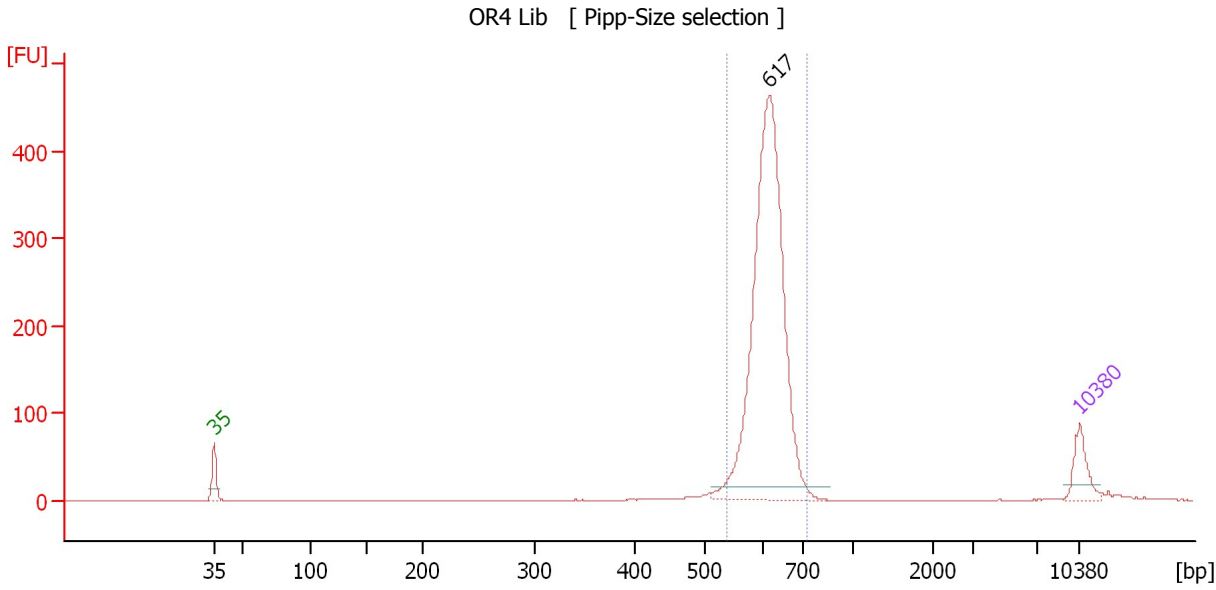
**Region table for sample 2 : OR2 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
533	756	610	4,537.2	1,822.08	2,364.5	95	5.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : OR4 Lib**

Height Threshold [FU] : 15

**Overall Results for sample 3 : OR4 Lib**

Number of peaks found: 1                      Corr. Area 1: 1,512.0  
 Noise: 0.2

**Peak table for sample 3 : OR4 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	617	1,515.49	3,721.2	
3	10,380	75.00	10.9	Upper Marker

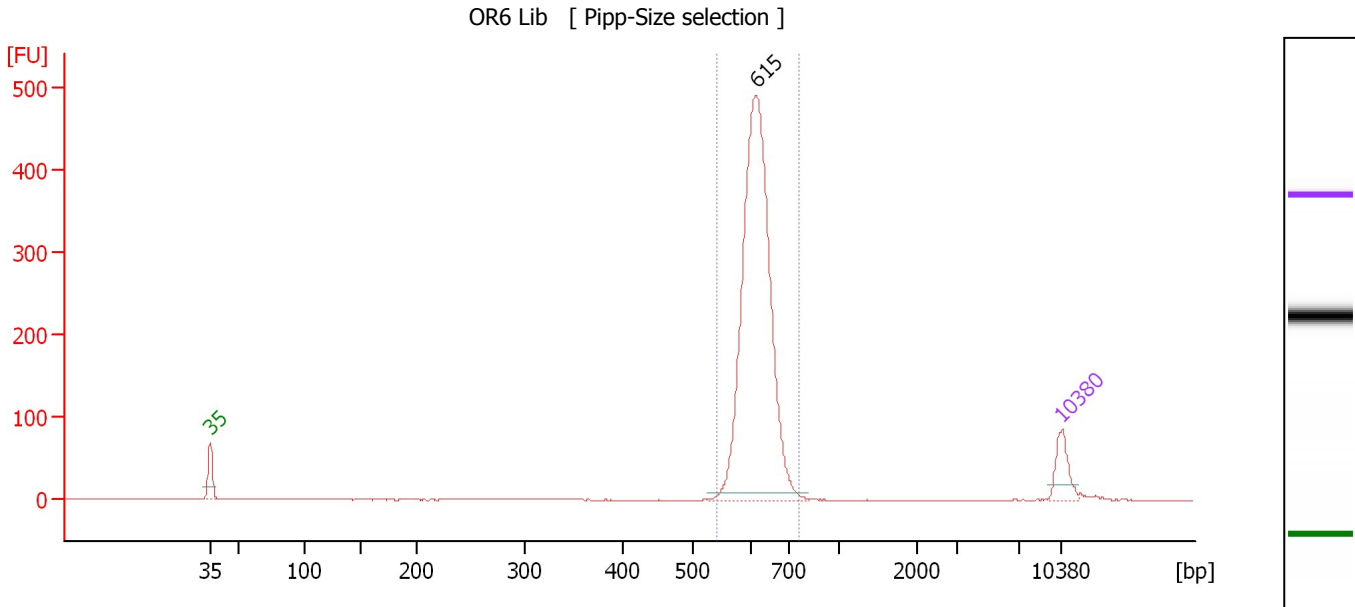
**Region table for sample 3 : OR4 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
538	728	616	3,723.7	1,511.61	1,512.0	95	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : OR6 Lib**

Height Threshold [FU] : 10

**Overall Results for sample 4 : OR6 Lib**

Number of peaks found: 1                      Corr. Area 1: 1,531.7  
 Noise: 0.2

**Peak table for sample 4 : OR6 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	615	1,595.61	3,929.4	
3	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : OR6 Lib**

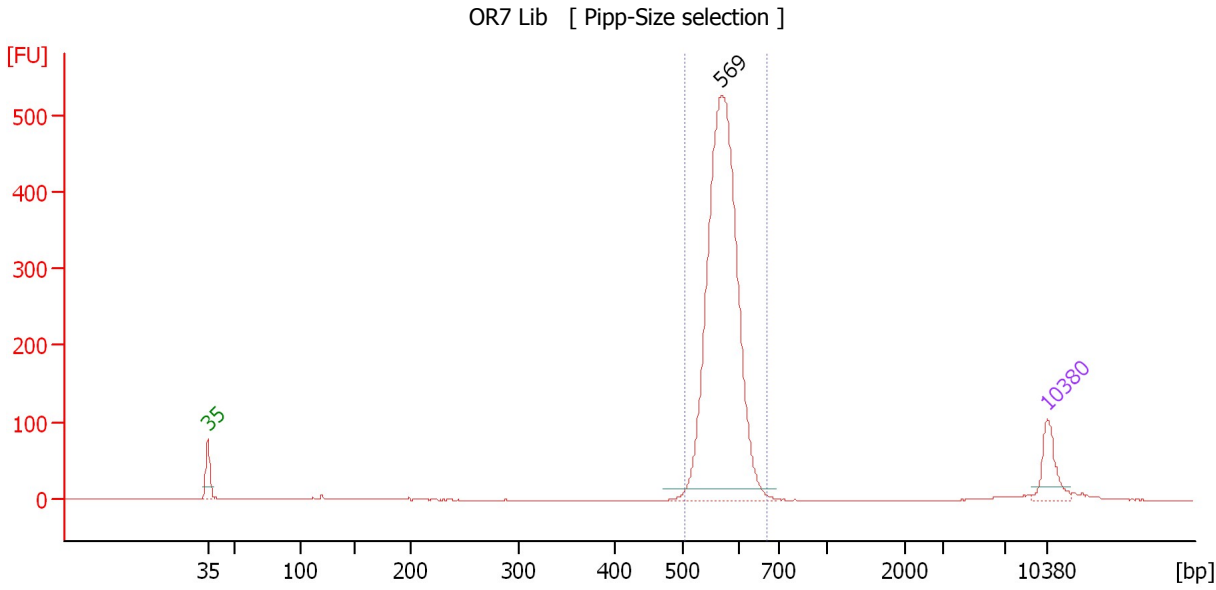
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
541	759	619	3,932.2	1,603.05	1,531.7	97	4.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : OR7 Lib**

Height Threshold [FU] : 15

**Overall Results for sample 5 : OR7 Lib**

Number of peaks found: 1                      Corr. Area 1: 1,864.9  
 Noise: 0.1

**Peak table for sample 5 : OR7 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	569	1,468.00	3,911.7	
3	10,380	75.00	10.9	Upper Marker

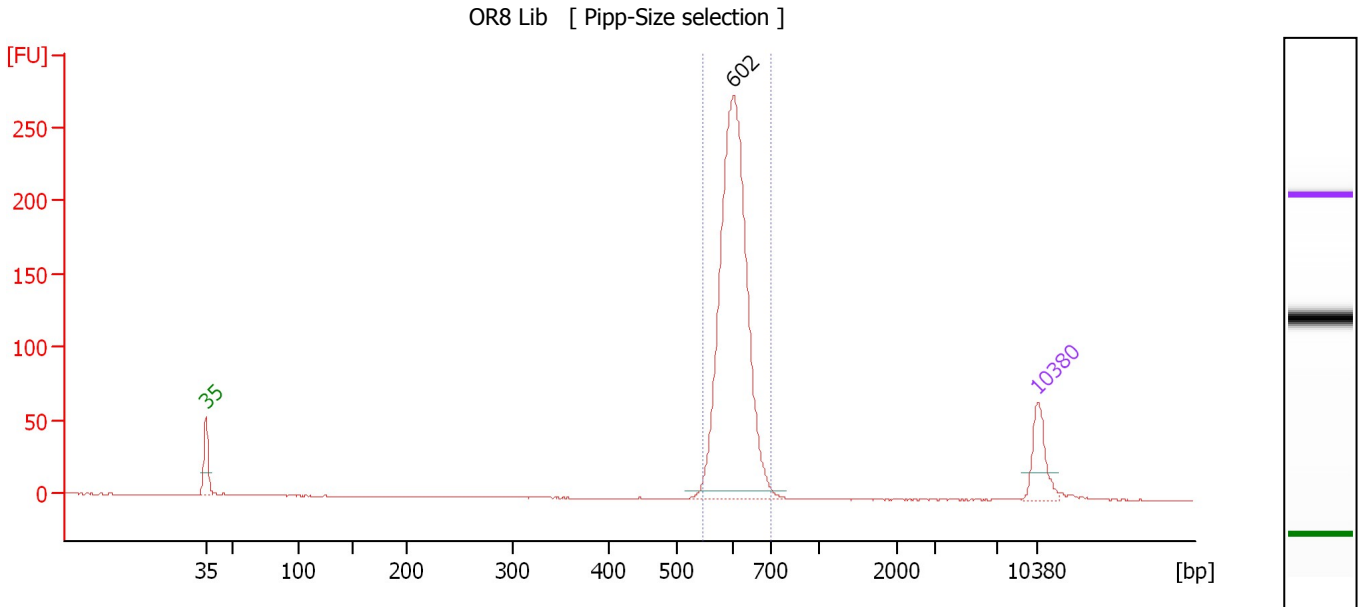
**Region table for sample 5 : OR7 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
503	671	571	3,867.9	1,455.37	1,864.9	97	4.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : OR8 Lib**

Number of peaks found: 1                      Corr. Area 1: 851.9  
 Noise: 0.1

**Peak table for sample 6 : OR8 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	602	1,093.50	2,753.1	
3	10,380	75.00	10.9	Upper Marker

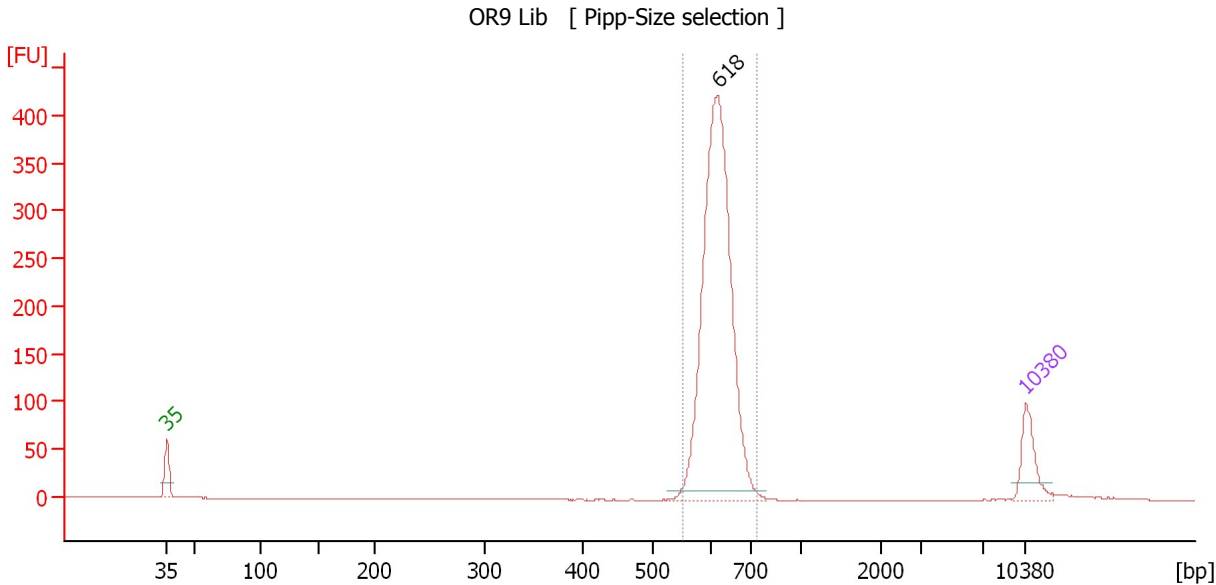
**Region table for sample 6 : OR8 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
547	699	606	2,734.5	1,092.03	851.9	98	4.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : OR9 Lib**

Height Threshold [FU] : 10

**Overall Results for sample 7 : OR9 Lib**

Number of peaks found: 1                      Corr. Area 1: 1,306.5  
 Noise: 0.1

**Peak table for sample 7 : OR9 Lib**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	618	1,125.42	2,760.6	
3	10,380	75.00	10.9	Upper Marker

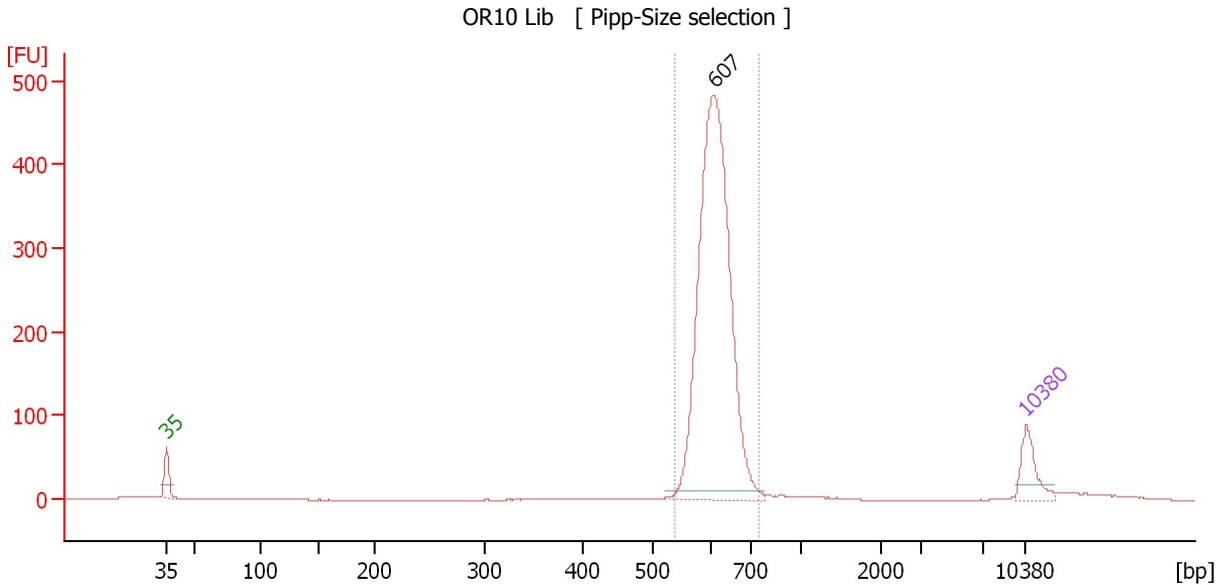
**Region table for sample 7 : OR9 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
551	736	618	2,753.6	1,120.89	1,306.5	97	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : OR10 Lib**

Height Threshold [FU] : 10

**Overall Results for sample 8 : OR10 Lib**

Number of peaks found: 1                      Corr. Area 1: 1,672.2  
 Noise: 0.1

**Peak table for sample 8 : OR10 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	607	1,479.21	3,691.4	
3	10,380	75.00	10.9	Upper Marker

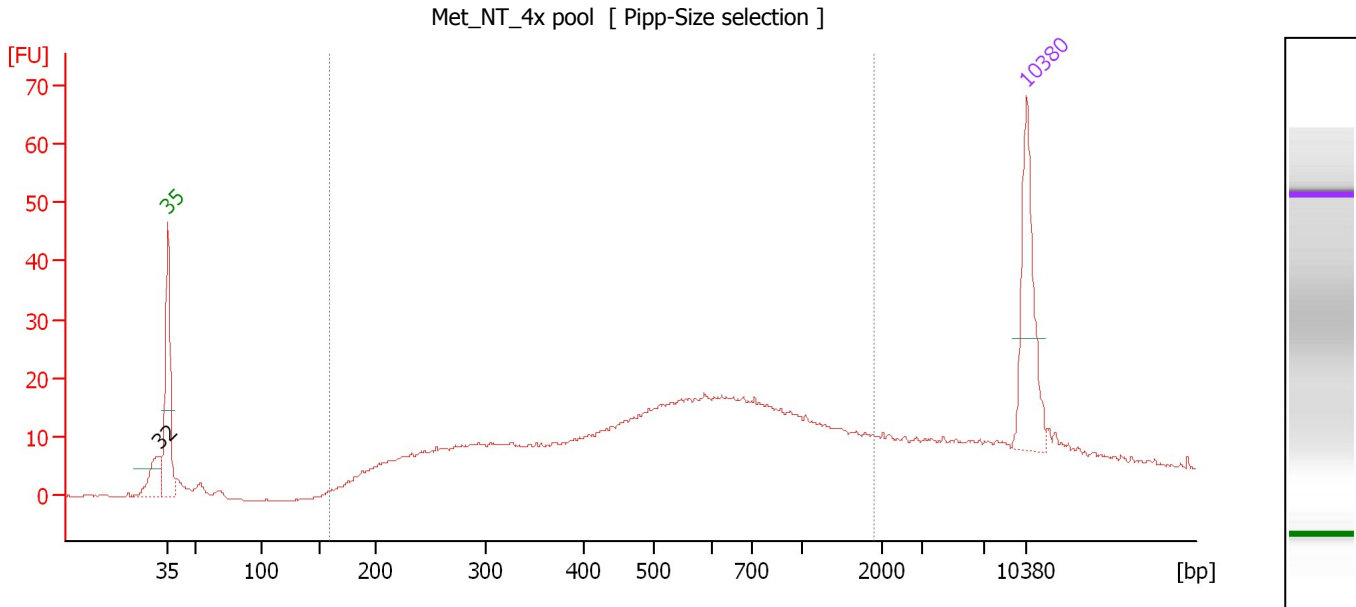
**Region table for sample 8 : OR10 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
537	756	613	3,699.7	1,493.05	1,672.2	93	5.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Met\_NT\_4x pool**

Number of peaks found: 1                      Corr. Area 1: 477.3  
 Noise: 0.1

**Peak table for sample 9 : Met\_NT\_4x pool**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker

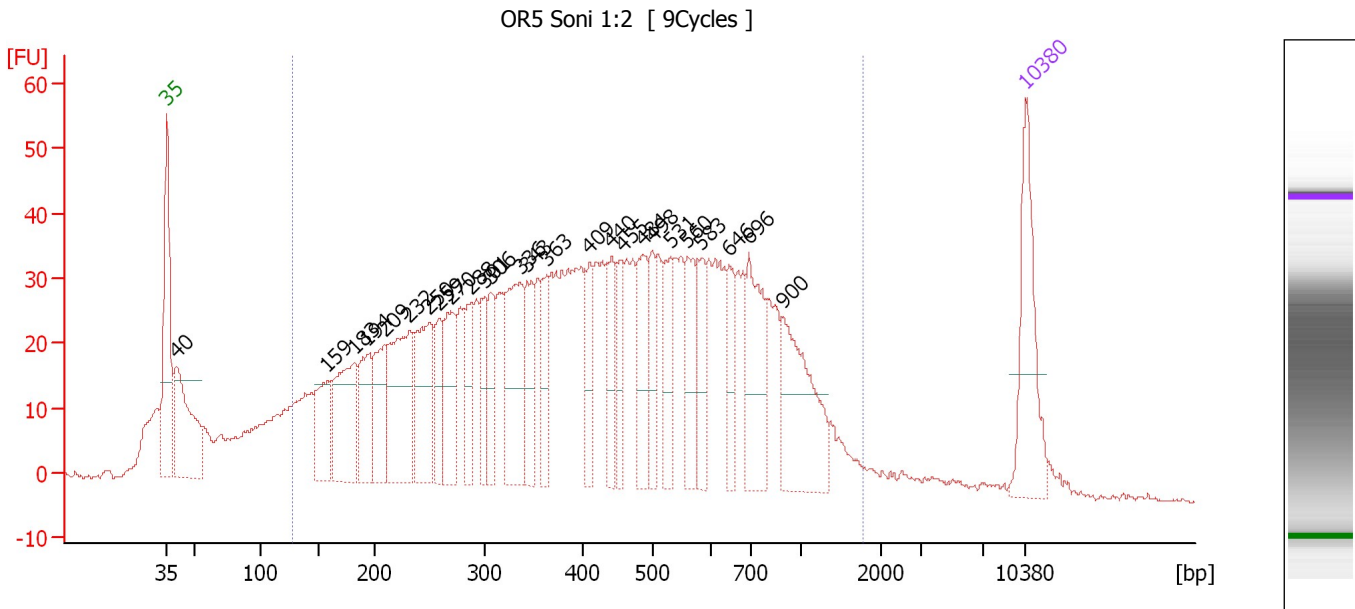
**Region table for sample 9 : Met\_NT\_4x pool**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
159	1,911	625	3,076.7	846.80	477.3	80	59.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : OR5 Soni 1:2**

Height Threshold [FU] : 15

**Overall Results for sample 10 : OR5 Soni 1:2**

Number of peaks found: 26                      Corr. Area 1: 1,621.4  
 Noise: 0.3

**Peak table for sample 10 : OR5 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	146.59	5,490.7	
3	159	74.30	709.8	
4	183	116.51	965.5	
5	194	71.41	556.4	
6	209	72.91	527.9	
7	232	134.99	880.0	
8	250	102.05	617.5	
9	259	47.44	277.3	
10	270	70.53	395.1	
11	288	48.80	256.3	
12	301	42.51	214.1	
13	306	42.79	211.8	
14	336	109.03	491.2	
15	343	57.78	255.1	
16	363	41.13	171.9	
17	409	42.97	159.4	
18	440	51.95	178.8	
19	455	39.38	131.2	
20	484	60.29	188.7	
21	498	39.46	120.0	
22	531	50.83	145.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad


Created: 10/8/2013 4:24:39 PM  
 Modified: 10/8/2013 5:22:46 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : OR5 Soni 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	560	54.18	146.7	
24	583	47.28	122.9	
25	646	37.05	86.9	
26	696	84.43	183.8	
27	900	102.88	173.2	
28	10,380	75.00	10.9	Upper Marker

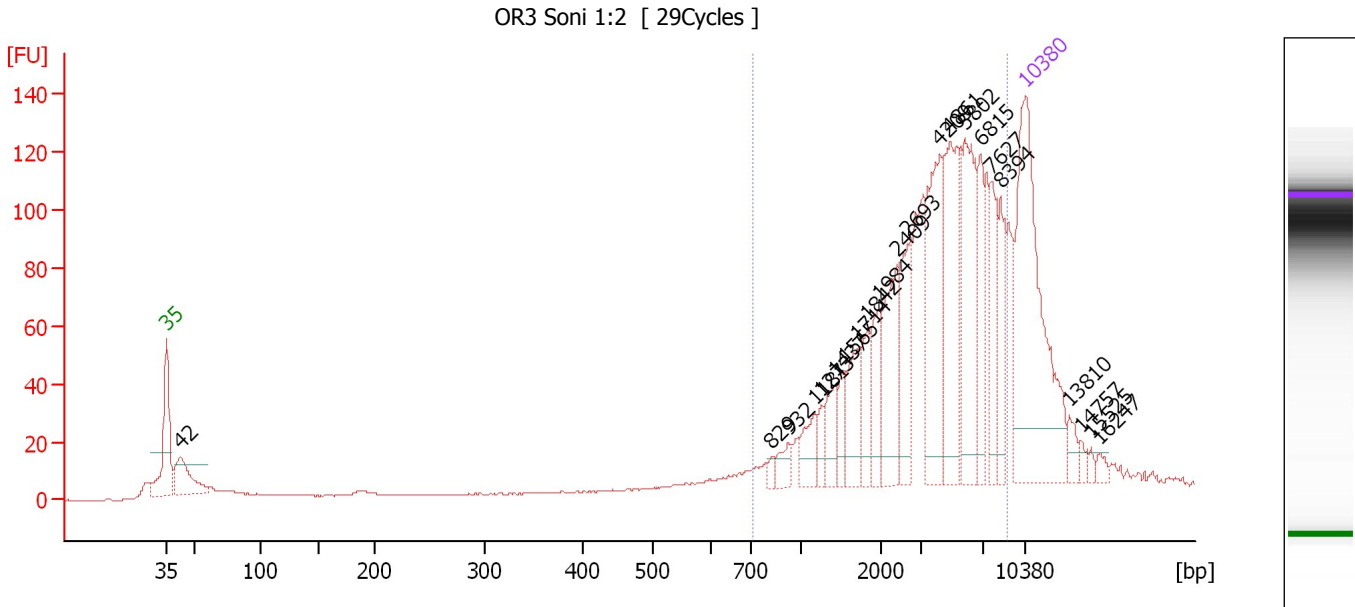
#### Region table for sample 10 : OR5 Soni 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
127	1,777	476	12,208.6	2,581.42	1,621.4	87	55.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : OR3 Soni 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 11 : OR3 Soni 1:2**

Number of peaks found: 22                      Corr. Area 1: 1,260.2  
 Noise: 0.3

**Peak table for sample 11 : OR3 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	24.70	884.9	
3	829	2.22	4.1	
4	932	6.08	9.9	
5	1,181	9.77	12.5	
6	1,273	5.16	6.1	
7	1,437	10.54	11.1	
8	1,565	7.43	7.2	
9	1,714	15.01	13.3	
10	1,842	11.61	9.5	
11	1,984	14.26	10.9	
12	2,409	27.06	17.0	
13	2,693	19.39	10.9	
14	4,209	44.30	15.9	
15	4,861	38.75	12.1	
16	5,802	39.67	10.4	
17	6,815	18.88	4.2	
18	7,627	17.07	3.4	
19	8,394	14.36	2.6	
20	10,380	75.00	10.9	Upper Marker
21	13,810	0.00	0.0	
22	14,757	0.00	0.0	




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
Modified: 10/8/2013 5:22:46 PM

**Electropherogram Summary Continued ...****... Peak table for sample 11 : OR3 Soni 1:2**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
23	15,525	0.00	0.0	
24	16,247	0.00	0.0	

**Region table for sample 11 : OR3 Soni 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
712	8,940	4,185	196.8	364.26	1,260.2	86	54.5	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-08\2013-10-08\_005.xad

Created: 10/8/2013 4:24:39 PM  
Modified: 10/8/2013 5:22:46 PM

**Gel Image**

