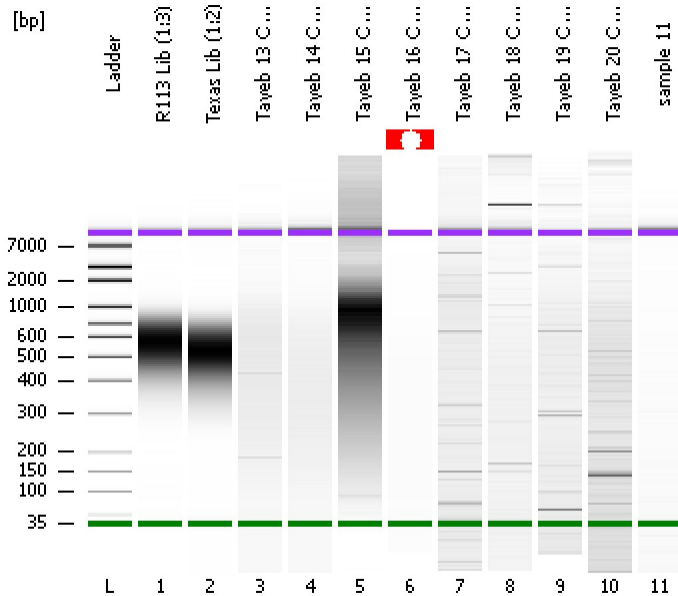


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
Modified: 9/5/2014 11:24:06 AM

### Electrophoresis File Run Summary



#### Instrument Information:

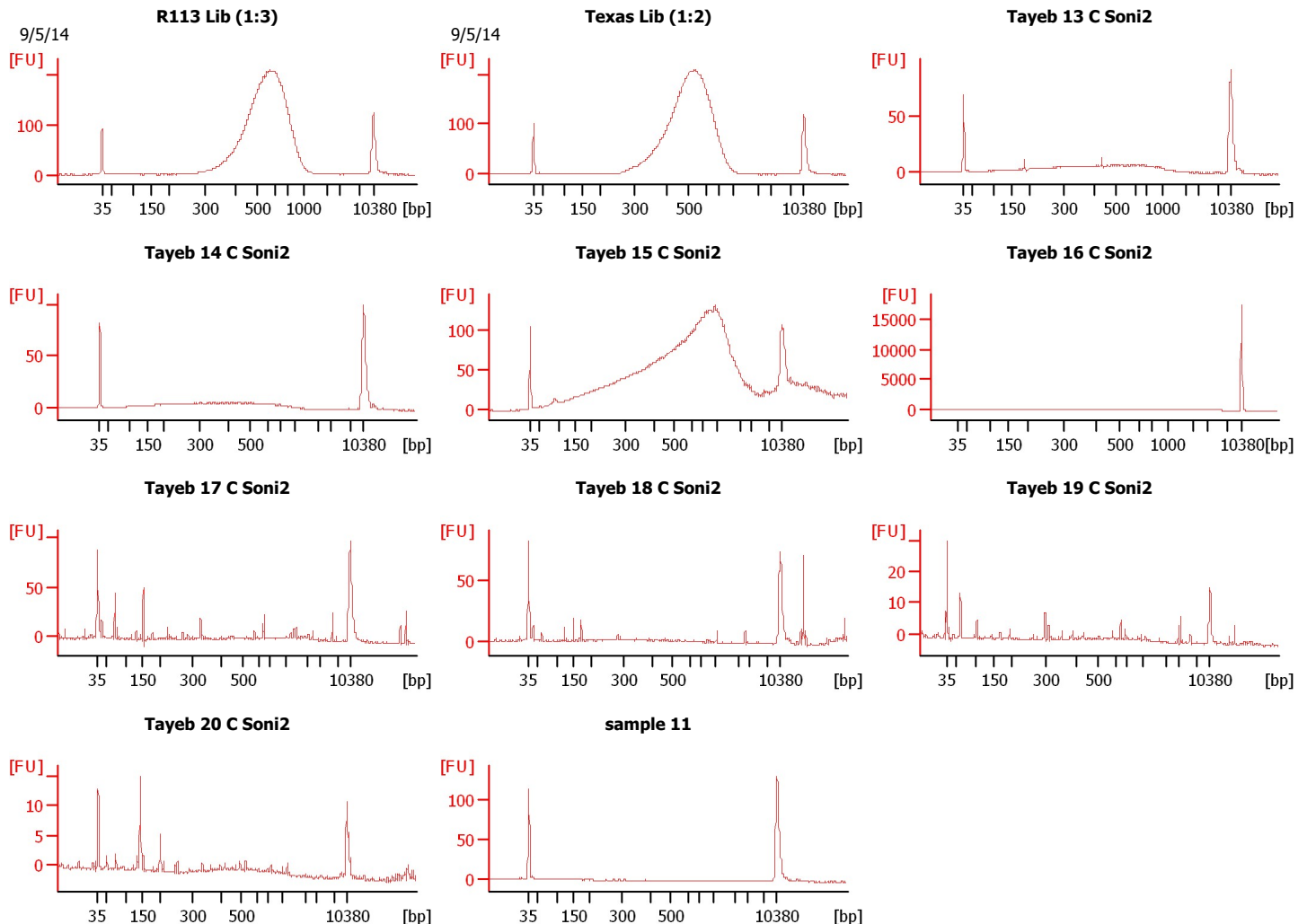
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
R113 Lib (1:3)	9/5/14	<input type="checkbox"/>				
Texas Lib (1:2)	9/5/14	<input type="checkbox"/>				
Tayeb 13 C Soni2		<input type="checkbox"/>				
Tayeb 14 C Soni2		<input type="checkbox"/>				
Tayeb 15 C Soni2		<input type="checkbox"/>				
Tayeb 16 C Soni2		<input type="checkbox"/>				
Tayeb 17 C Soni2		<input type="checkbox"/>				
Tayeb 18 C Soni2		<input type="checkbox"/>				
Tayeb 19 C Soni2		<input type="checkbox"/>				
Tayeb 20 C Soni2		<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\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 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

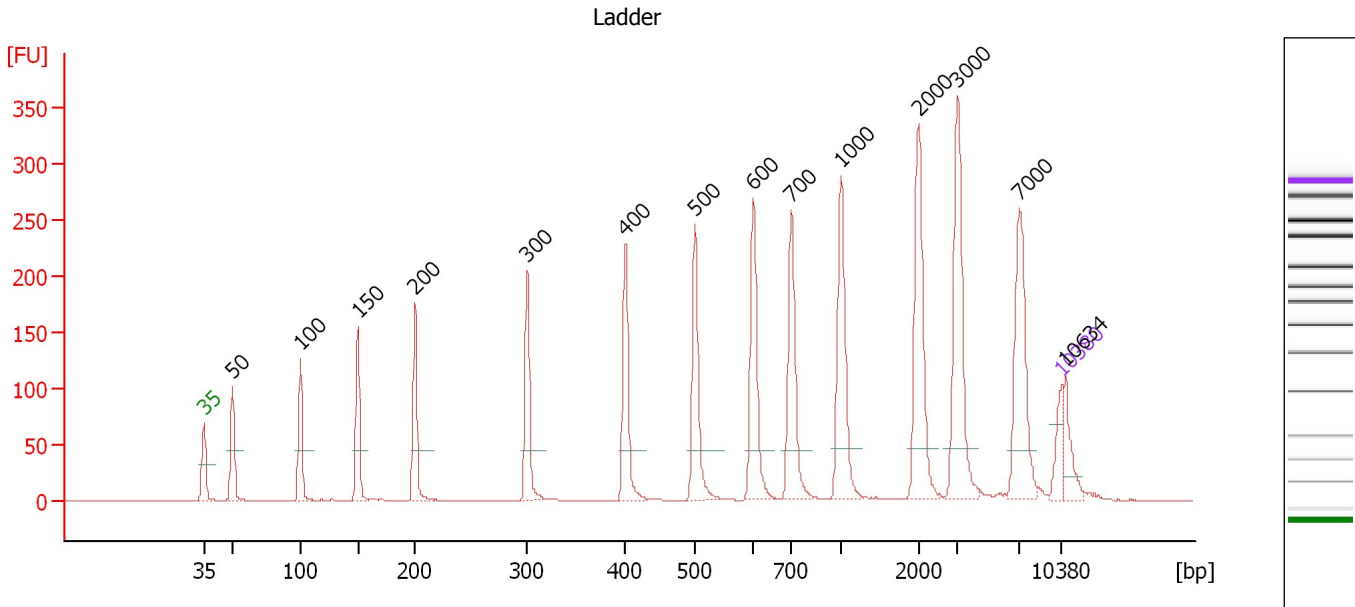
**Ladder**

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\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

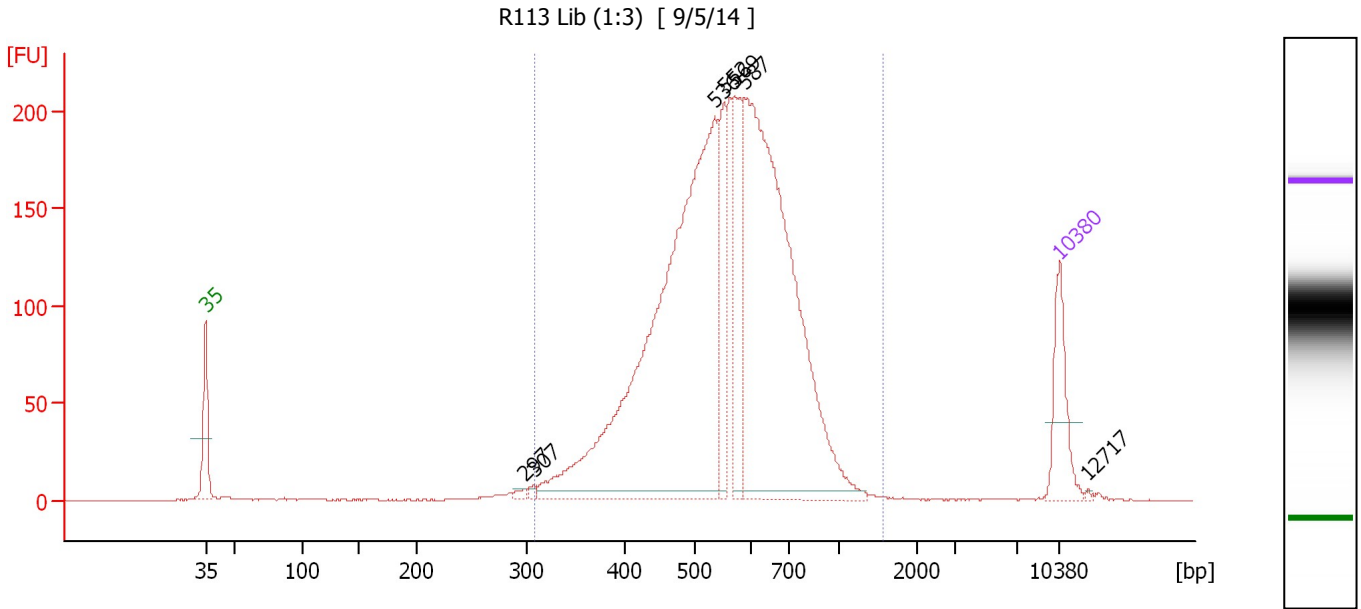
**Peak table for Ladder**

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
16	10,634	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : R113 Lib (1:3)**

Number of peaks found: 7                      Corr. Area 1: 3,100.9  
 Noise: 0.1

**Peak table for sample 1 : R113 Lib (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	7.59	38.7	
3	307	6.22	30.6	
4	536	1,100.00	3,108.8	
5	552	133.38	366.2	
6	569	176.04	468.5	
7	587	859.01	2,217.8	
8	10,380	75.00	10.9	Upper Marker
9	12,717	0.00	0.0	

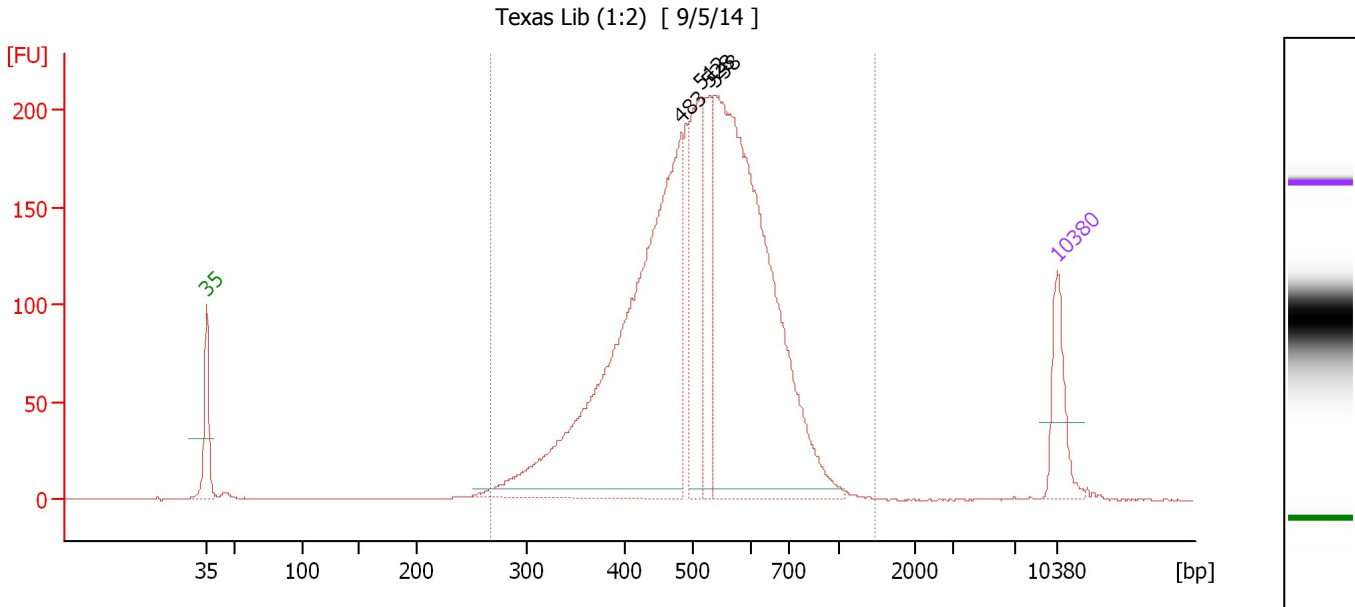
**Region table for sample 1 : R113 Lib (1:3)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
307	1,556	3,100.9	98	569	23.5	2,452.23	6,972.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Texas Lib (1:2)**

Number of peaks found: 4                      Corr. Area 1: 3,357.4  
 Noise: 0.3

**Peak table for sample 2 : Texas Lib (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	483	1,105.96	3,471.3	
3	512	242.83	719.1	
4	528	143.72	412.2	
5	538	1,092.64	3,079.5	
6	10,380	75.00	10.9	Upper Marker

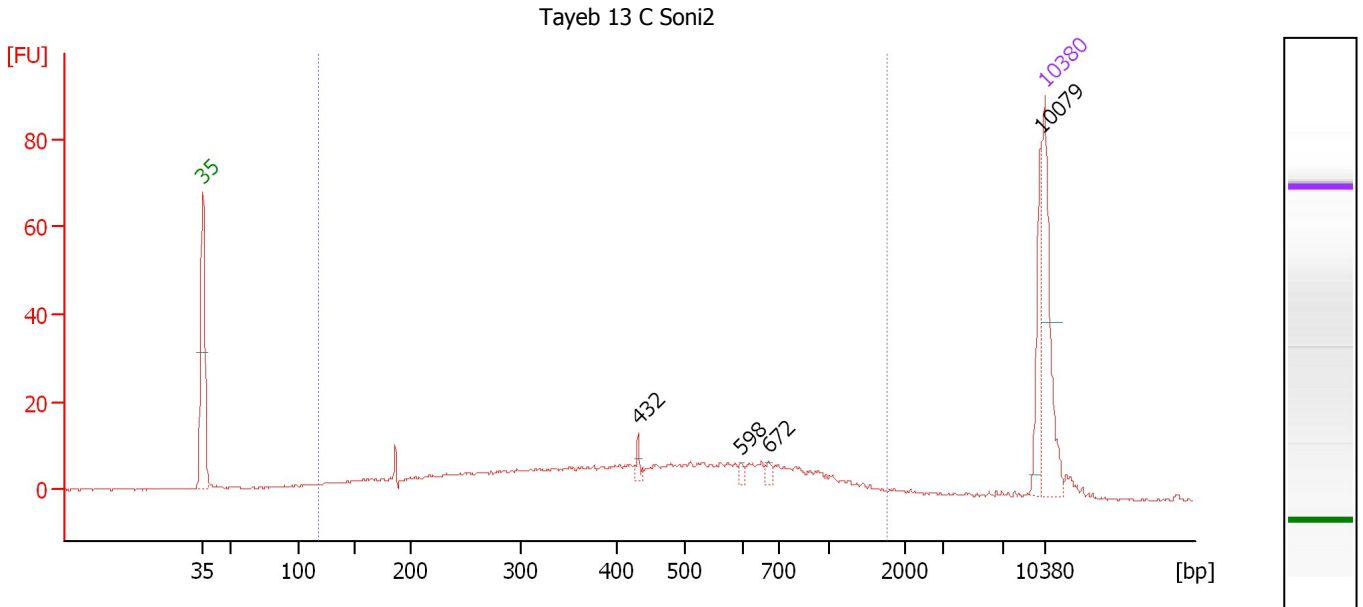
**Region table for sample 2 : Texas Lib (1:2)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
268	1,484	3,357.4	98	520	22.6	2,728.69	8,513.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Tayeb 13 C Soni2**

Number of peaks found: 4                      Corr. Area 1: 332.1  
 Noise: 0.2

**Peak table for sample 3 : Tayeb 13 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	432	6.62	23.2	
3	598	4.71	11.9	
4	672	5.10	11.5	
5	10,079	40.96	6.2	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 3 : Tayeb 13 C Soni2**

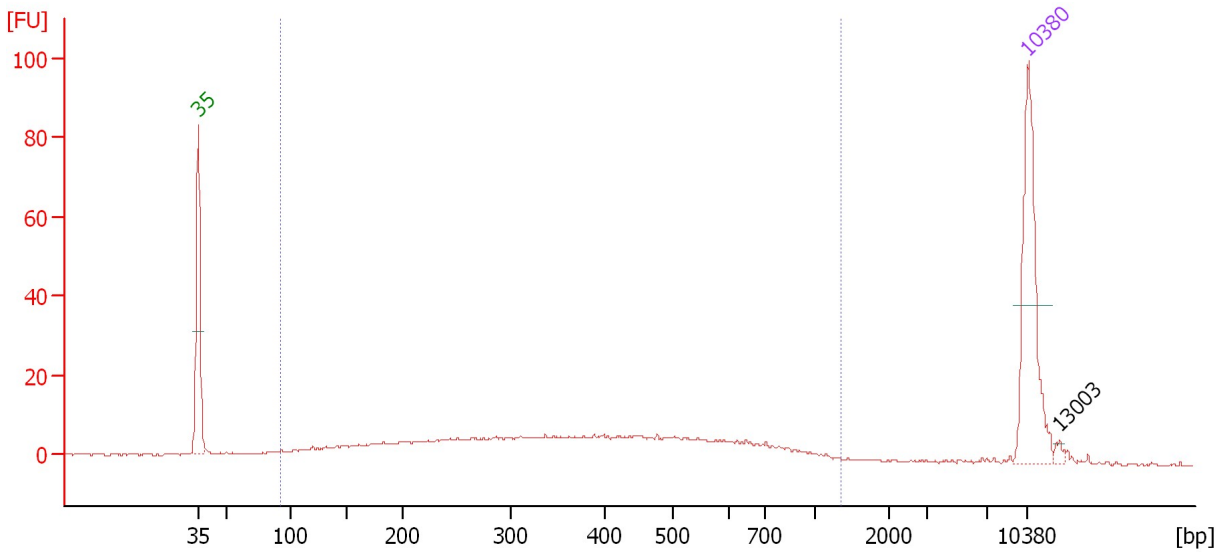
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
119	1,785	332.1	80	498	58.3	592.13	2,795.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**

Tayeb 14 C Soni2



**Overall Results for sample 4 : Tayeb 14 C Soni2**

Number of peaks found: 1                      Corr. Area 1: 287.1  
 Noise: 0.2

**Peak table for sample 4 : Tayeb 14 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	13,003	0.00	0.0	

**Region table for sample 4 : Tayeb 14 C Soni2**

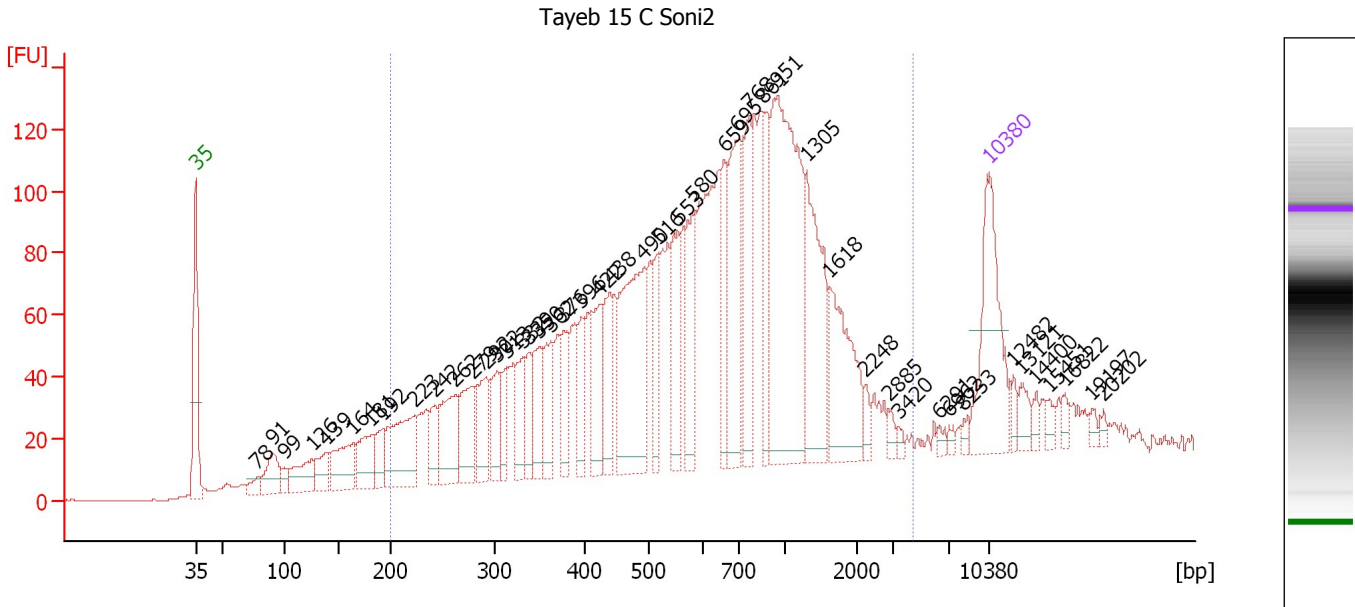
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
91	1,371	287.1	90	407	50.7	294.86	1,649.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Tayeb 15 C Soni2**

Number of peaks found: 47                      Corr. Area 1: 3,013.0  
 Noise: 0.2

**Peak table for sample 5 : Tayeb 15 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	78	11.95	231.2	
3	91	37.43	626.3	
4	99	10.44	159.1	
5	126	38.84	468.7	
6	139	27.04	294.3	
7	164	52.97	488.4	
8	181	42.42	354.4	
9	192	28.18	221.9	
10	223	82.64	561.4	
11	242	25.60	160.2	
12	262	59.71	345.1	
13	279	49.32	267.7	
14	292	40.75	211.4	
15	302	36.05	180.8	
16	313	25.02	121.0	
17	332	35.51	162.0	
18	339	26.48	118.5	
19	350	41.08	178.0	
20	362	39.43	165.0	
21	376	34.81	140.2	
22	396	29.21	111.7	
23	422	49.23	176.8	
24	438	43.94	151.9	
25	490	140.45	434.0	
26	516	38.62	113.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : Tayeb 15 C Soni2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	553	51.30	140.6	
28	580	52.57	137.4	
29	659	48.55	111.7	
30	695	84.18	183.5	
31	768	63.65	125.5	
32	861	47.63	83.8	
33	951	216.54	344.9	
34	1,305	94.38	109.6	
35	1,618	72.91	68.3	
36	2,248	7.46	5.0	
37	2,885	5.32	2.8	
38	3,420	3.25	1.4	
39	6,291	3.72	0.9	
40	6,962	3.21	0.7	
41	8,233	3.67	0.7	
42	10,380	75.00	10.9	Upper Marker
43	12,482	0.00	0.0	
44	13,121	0.00	0.0	
45	14,400	0.00	0.0	
46	15,451	0.00	0.0	
47	16,822	0.00	0.0	
48	19,197	0.00	0.0	
49	20,202	0.00	0.0	

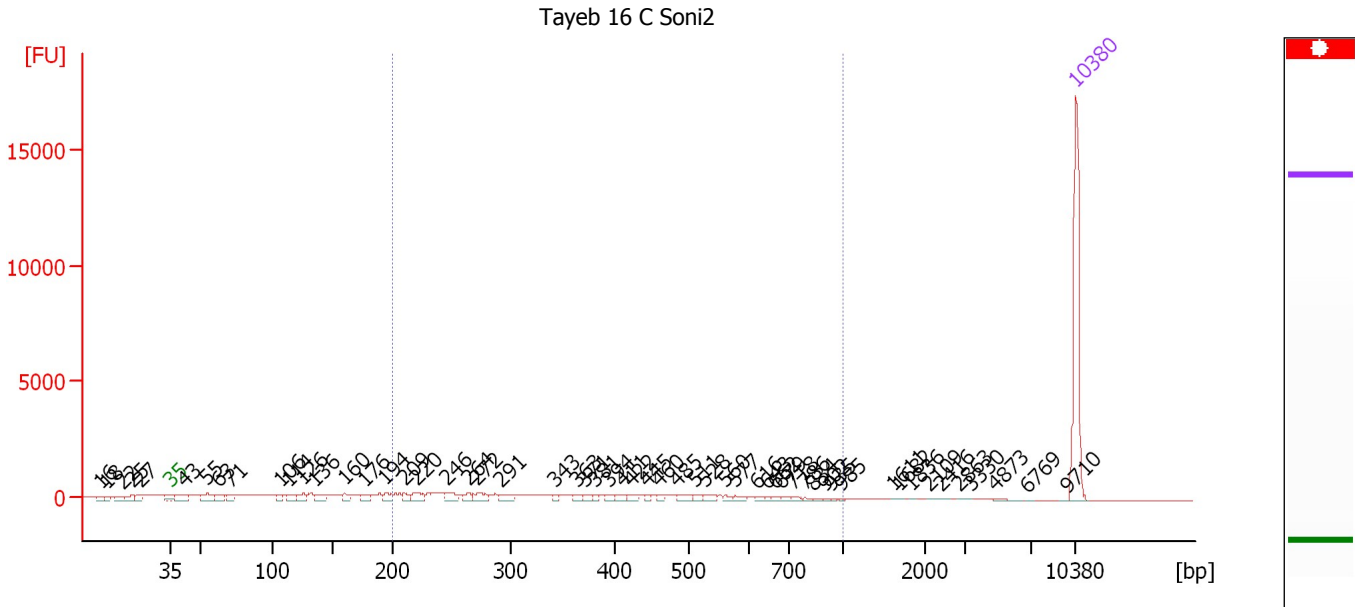
**Region table for sample 5 : Tayeb 15 C Soni2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	4,464	3,013.0	89	763	67.4	2,052.33	6,392.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Tayeb 16 C Soni2**

Number of peaks found: 56                      Corr. Area 1: 8,501.6  
 Noise: 1.7

**Peak table for sample 6 : Tayeb 16 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	16	0.00	0.0	
2	18	0.00	0.0	
3	22	0.00	0.0	
4	25	0.00	0.0	
5	27	0.00	0.0	
6	35	125.00	5,411.3	Lower Marker
7	43	14.05	499.1	
8	55	15.61	428.9	
9	63	8.51	205.4	
10	71	7.89	168.7	
11	106	6.21	88.3	
12	114	8.89	117.8	
13	126	10.63	127.8	
14	136	11.58	128.9	
15	160	7.35	69.4	
16	176	7.37	63.3	
17	194	7.45	58.3	
18	209	5.98	43.2	
19	220	10.56	72.8	
20	246	8.55	52.7	
21	264	6.14	35.2	
22	272	9.52	53.1	
23	291	8.91	46.5	
24	343	3.31	14.6	
25	363	4.15	17.3	
26	371	4.51	18.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : Tayeb 16 C Soni2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	381	3.00	11.9	
28	394	4.02	15.5	
29	411	5.27	19.4	
30	422	4.89	17.6	
31	445	2.80	9.5	
32	460	2.90	9.6	
33	485	6.45	20.1	
34	511	3.31	9.8	
35	528	4.31	12.4	
36	560	2.49	6.7	
37	577	3.64	9.6	
38	616	2.26	5.6	
39	643	1.32	3.1	
40	662	1.66	3.8	
41	679	1.89	4.2	
42	718	1.65	3.5	
43	786	1.29	2.5	
44	834	1.24	2.2	
45	902	0.88	1.5	
46	935	0.74	1.2	
47	985	0.62	1.0	
48	1,611	0.03	0.0	
49	1,682	0.02	0.0	
50	1,836	0.05	0.0	
51	2,109	0.05	0.0	
52	2,416	0.04	0.0	
53	2,863	0.02	0.0	
54	3,330	0.02	0.0	
55	4,873	1.34	0.4	
56	6,769	0.01	0.0	
57	9,710	0.01	0.0	
58	▶ 10,380	75.00	10.9	Upper Marker

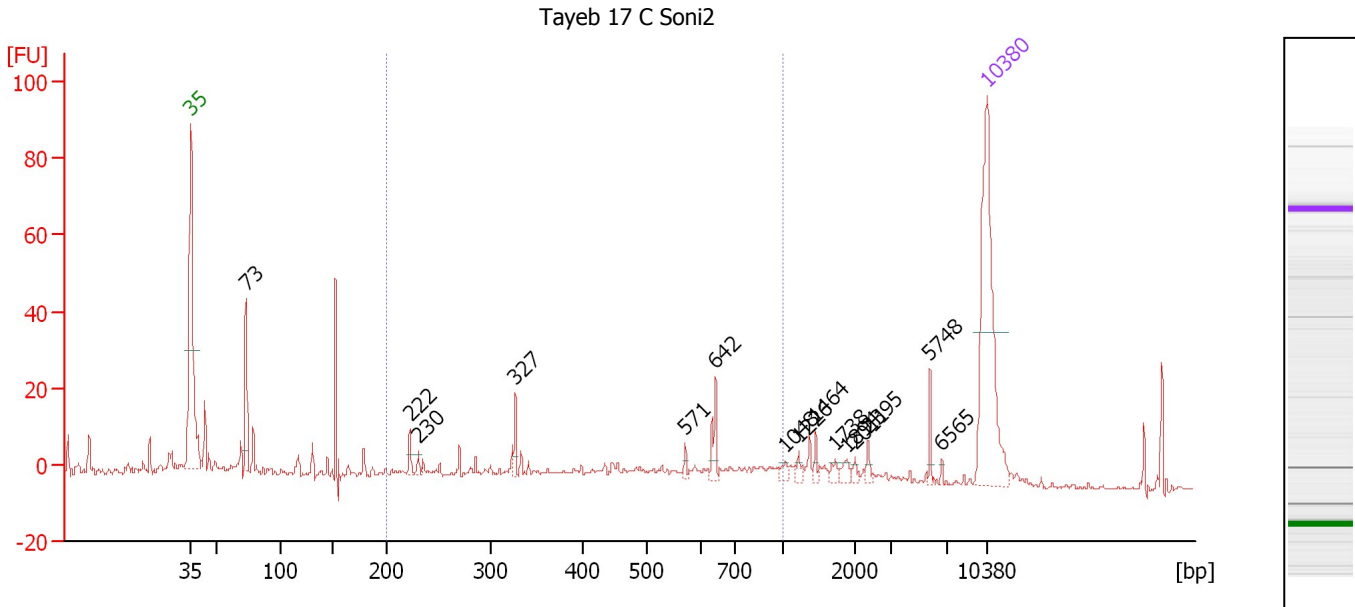
**Region table for sample 6 : Tayeb 16 C Soni2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,000	8,501.6	59	403	37.7	122.17	553.9	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Tayeb 17 C Soni2**

Number of peaks found: 15                      Corr. Area 1: 143.3  
 Noise: 0.5

**Peak table for sample 7 : Tayeb 17 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	37.50	782.4	
3	222	5.82	39.7	
4	230	2.65	17.4	
5	327	9.19	42.6	
6	571	2.90	7.7	
7	642	10.48	24.7	
8	1,048	3.21	4.6	
9	1,226	2.61	3.2	
10	1,464	3.43	3.6	
11	1,738	3.21	2.8	
12	1,894	3.68	2.9	
13	2,011	2.05	1.5	
14	2,395	2.77	1.8	
15	5,748	5.01	1.3	
16	6,565	1.08	0.2	
17	10,380	75.00	10.9	Upper Marker

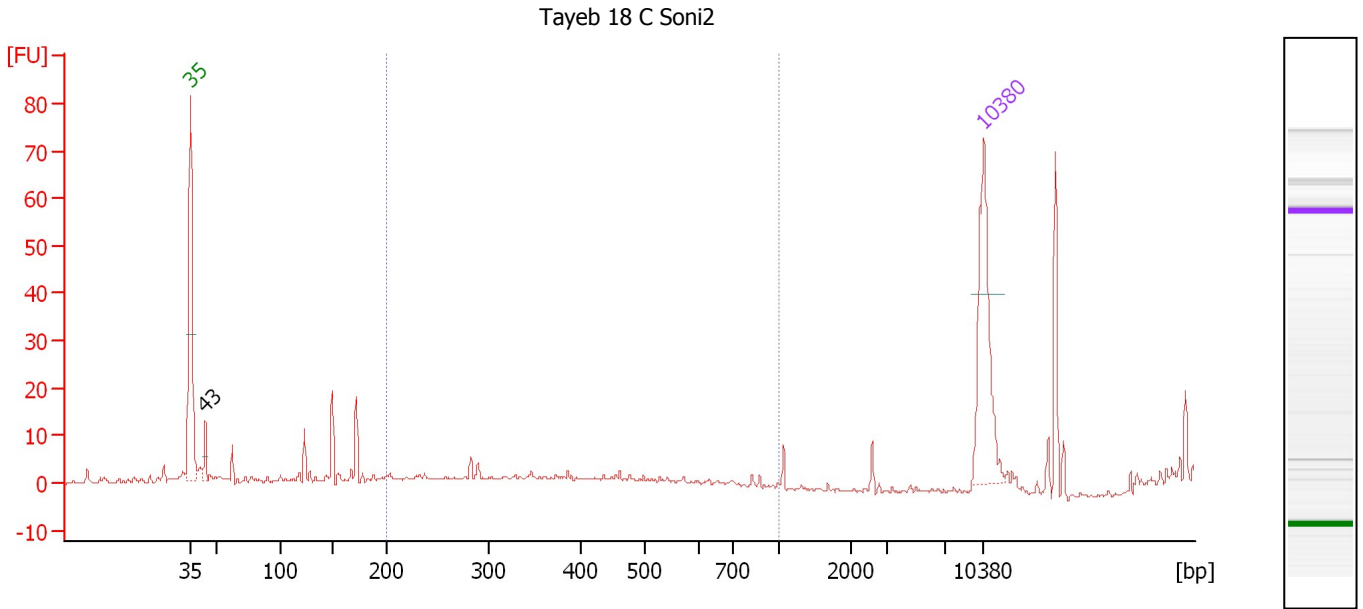
**Region table for sample 7 : Tayeb 17 C Soni2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	143.3	38	490	41.3	149.71	599.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

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 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Tayeb 18 C Soni2**

Number of peaks found: 1                      Corr. Area 1: 0.9  
 Noise: 0.3

**Peak table for sample 8 : Tayeb 18 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	17.77	622.2	
3	10,380	75.00	10.9	Upper Marker

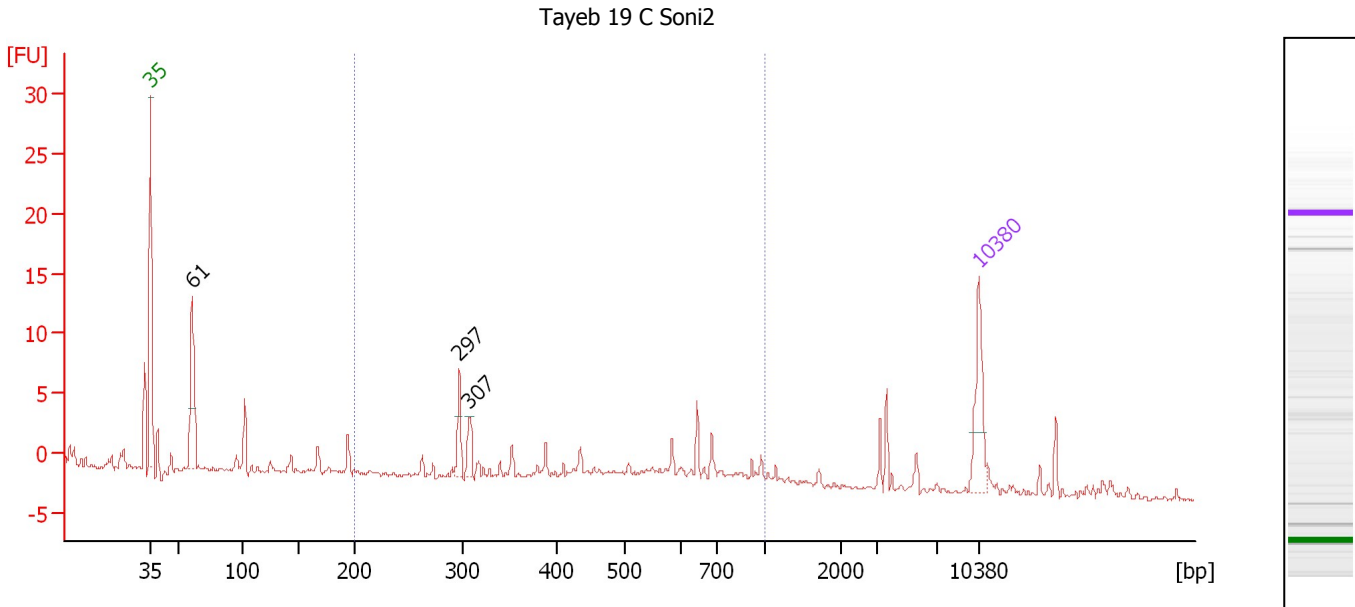
**Region table for sample 8 : Tayeb 18 C Soni2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.9	2	284	1.1	1.59	8.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Tayeb 19 C Soni2**

Number of peaks found: 3                      Corr. Area 1: 17.1  
 Noise: 0.2

**Peak table for sample 9 : Tayeb 19 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	61	189.50	4,687.9	
3	297	48.82	248.7	
4	307	35.93	177.2	
5	10,380	75.00	10.9	Upper Marker

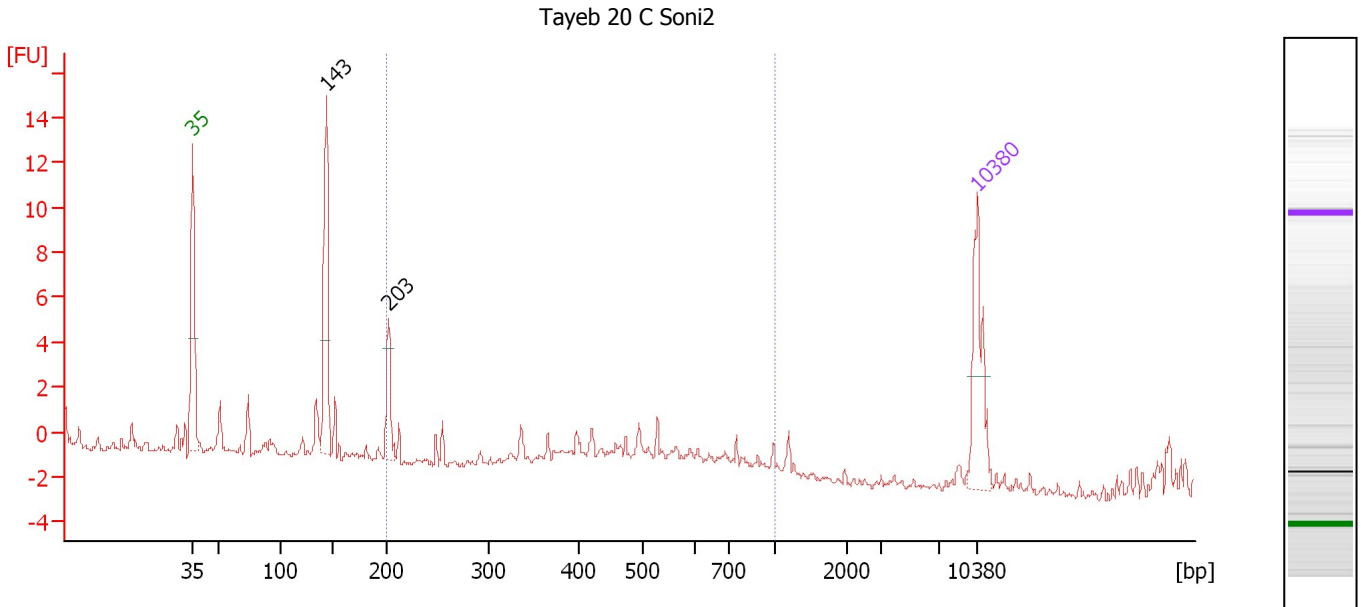
**Region table for sample 9 : Tayeb 19 C Soni2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	17.1	37	527	39.1	161.89	586.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Tayeb 20 C Soni2**

Number of peaks found: 2                      Corr. Area 1: 19.6  
 Noise: 0.2

**Peak table for sample 10 : Tayeb 20 C Soni2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	143	175.71	1,859.1	
3	203	54.44	407.2	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : Tayeb 20 C Soni2**

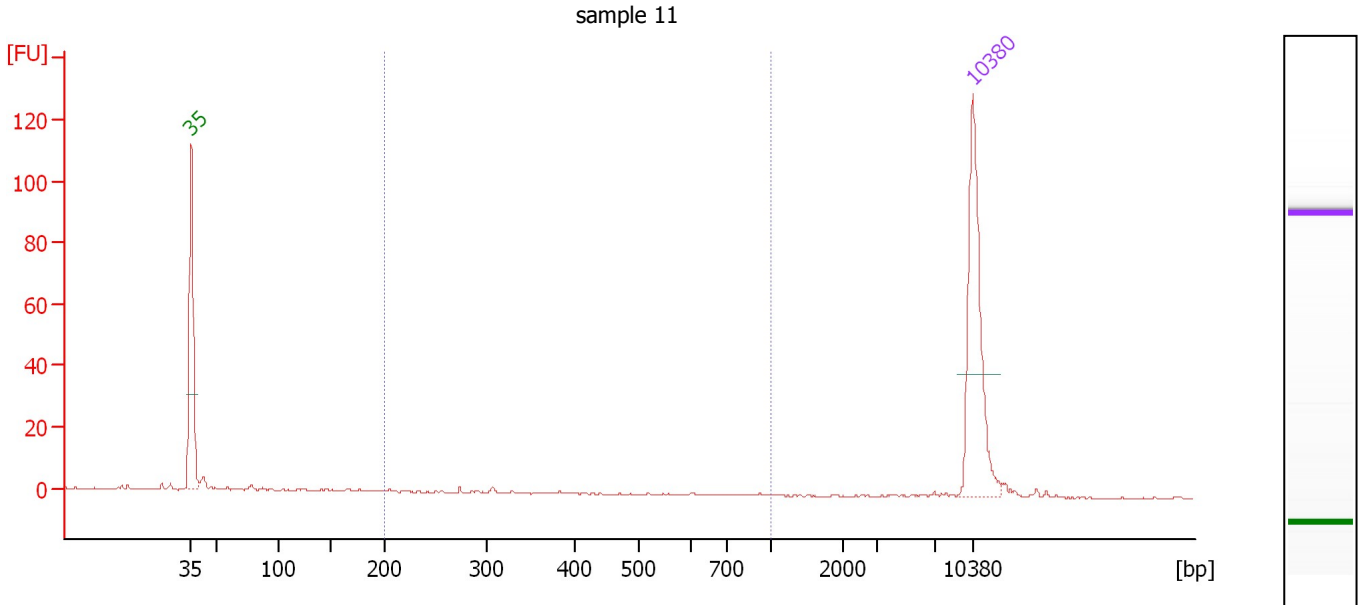
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	19.6	43	459	40.6	200.91	886.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 0                      Corr. Area 1: 2.1  
 Noise: 0.2

**Peak table for sample 11 : sample 11**

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

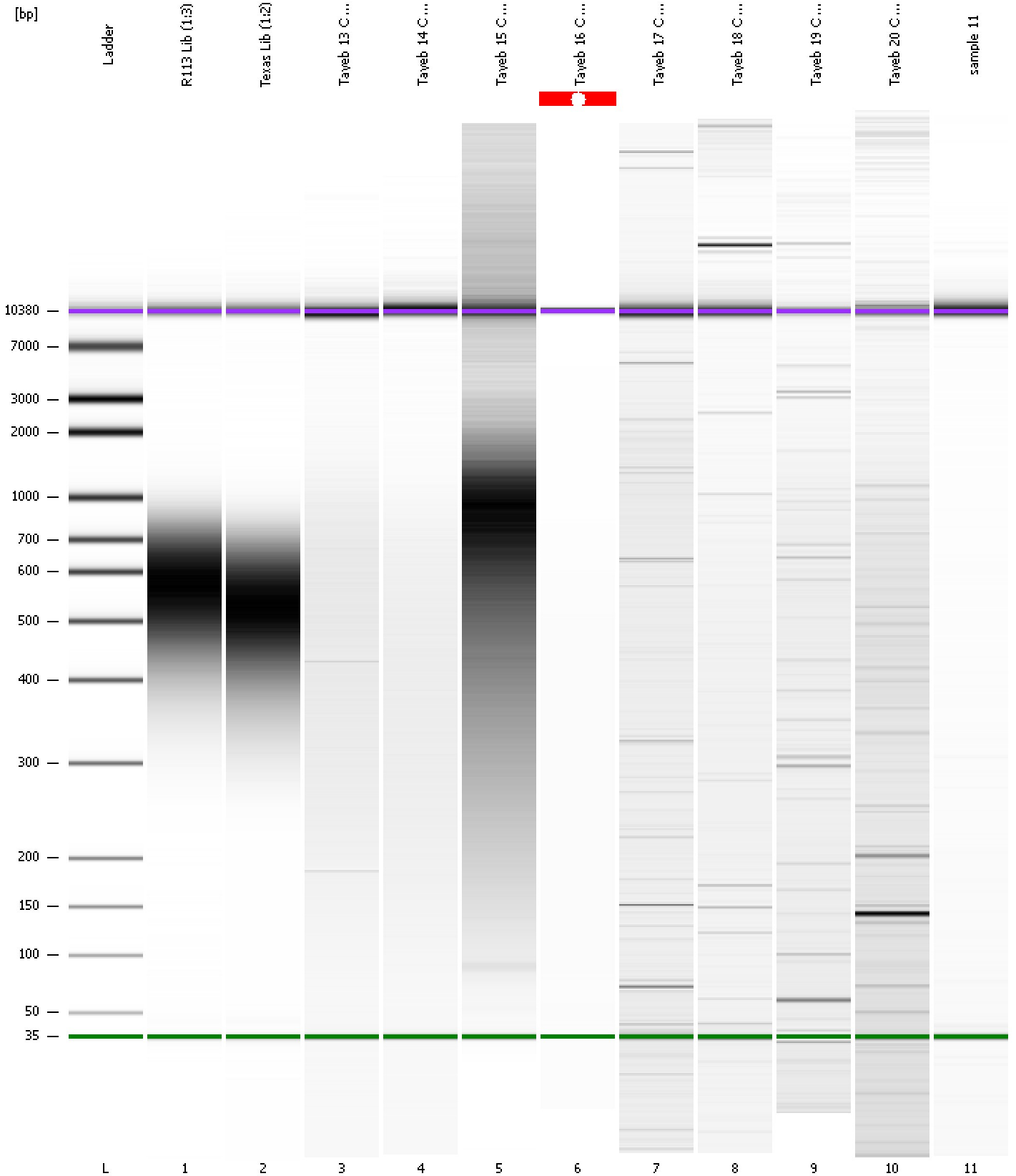
**Region table for sample 11 : sample 11**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2.1	9	320	38.9	1.73	9.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
Modified: 9/5/2014 11:24:06 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05\_002.xad

Created: 9/5/2014 10:38:55 AM  
 Modified: 9/5/2014 11:24:06 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		9/5/2014 11:19:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 6	9/5/2014 11:04:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-05\2014-09-05_002.xad)		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/5/2014 10:39:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1