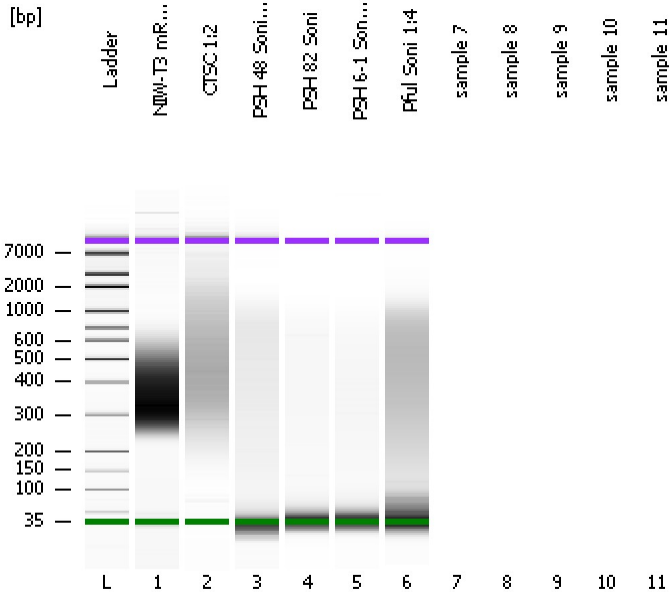


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

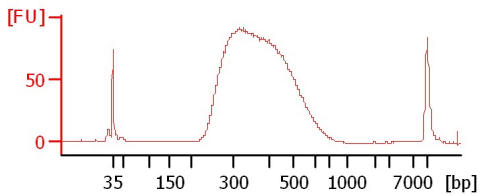
Assay Information:

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

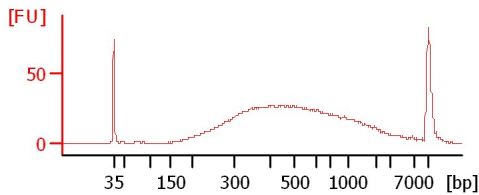
Chip Information:

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

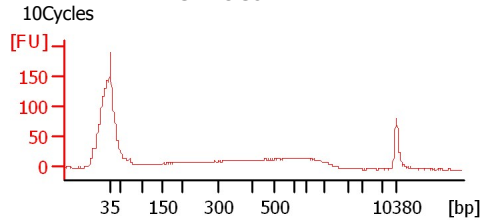
**NIW-T3 mRNA Lib**



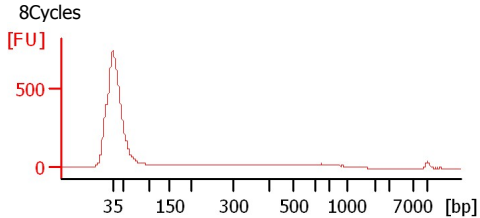
**CTSC 1:2**



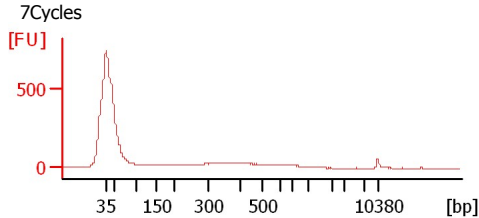
**PSH 48 Soni 1:4**



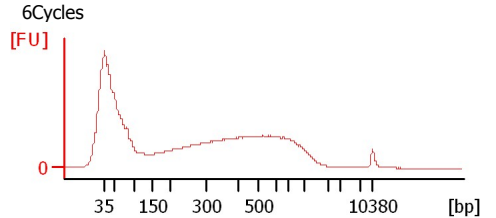
**PSH 82 Soni**



**PSH 6-1 Soni 1:2**



**Pful Soni 1:4**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NIW-T3 mRNA Lib		<input type="checkbox"/>	✓			
CTSC 1:2		<input type="checkbox"/>	✓			
PSH 48 Soni 1:4	10Cycles	<input type="checkbox"/>	✓			
PSH 82 Soni	8Cycles	<input type="checkbox"/>	✓			
PSH 6-1 Soni 1:2	7Cycles	<input type="checkbox"/>	✓			
Pful Soni 1:4	6Cycles	<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:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 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

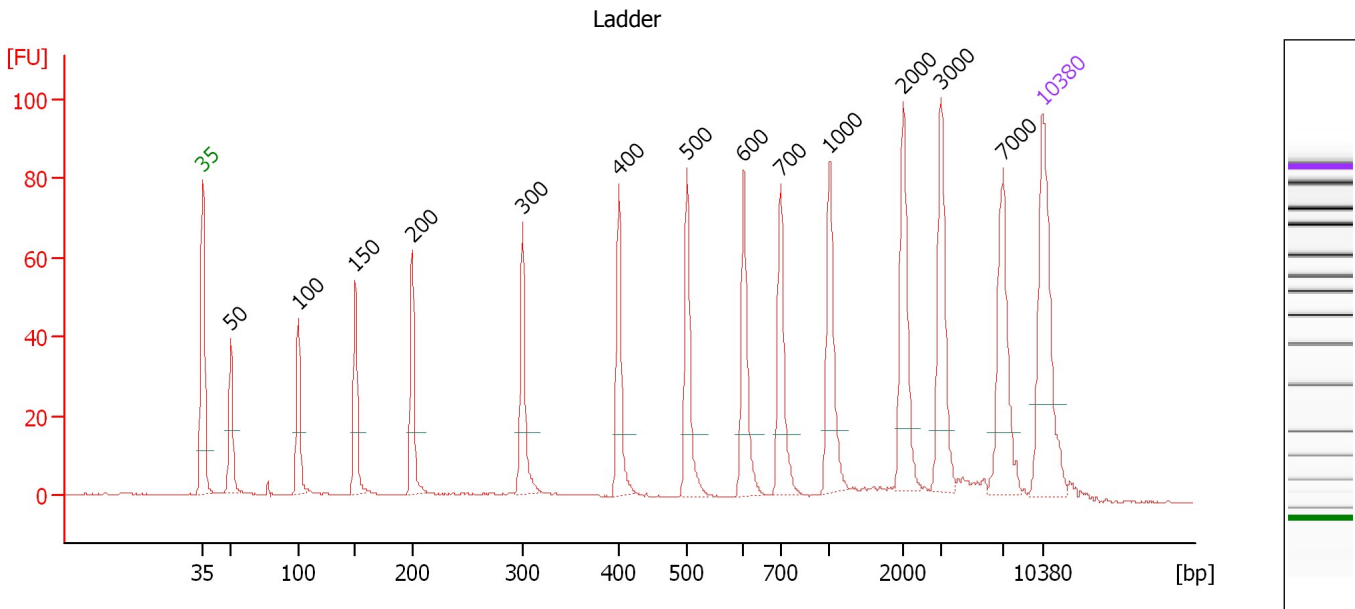
**Ladder**

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\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

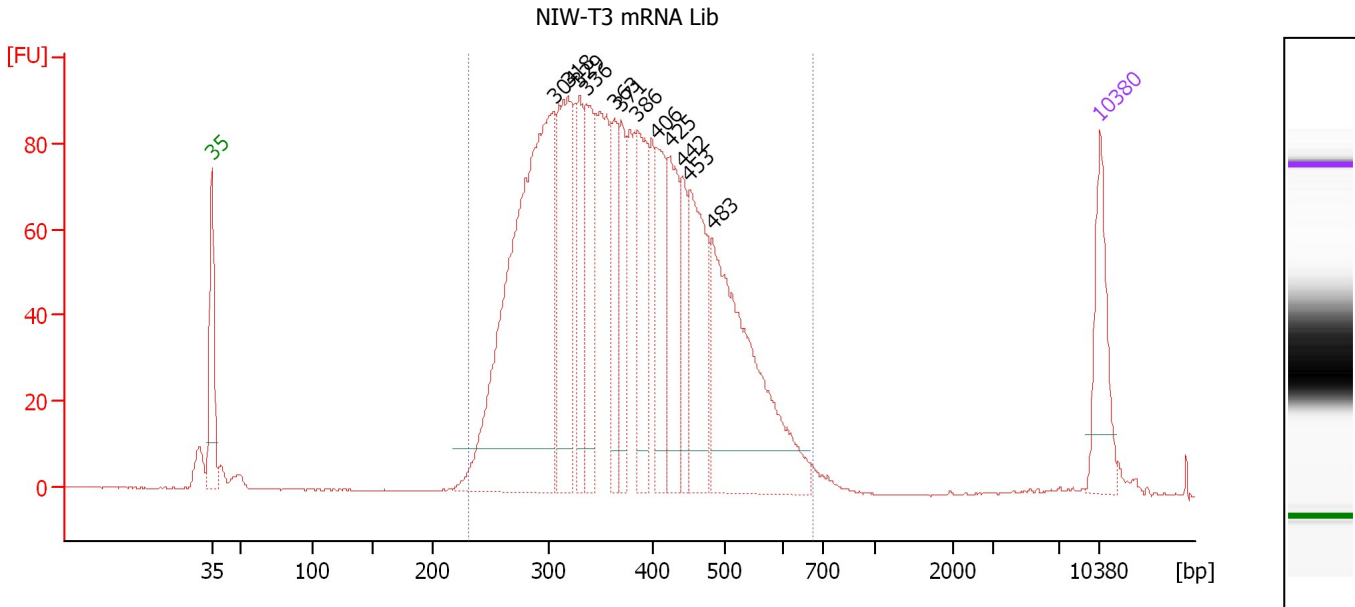
**Peak table for Ladder**

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\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : NIW-T3 mRNA Lib**

Height Threshold [FU] : 10

**Overall Results for sample 1 : NIW-T3 mRNA Lib**

Number of peaks found: 12      Corr. Area 1: 2,180.5  
 Noise: 0.2

**Peak table for sample 1 : NIW-T3 mRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	761.31	3,793.9	
3	318	230.47	1,098.4	
4	329	112.62	518.6	
5	336	163.37	736.2	
6	363	91.61	382.0	
7	371	95.17	389.1	
8	386	134.57	528.1	
9	406	118.72	442.8	
10	425	128.73	458.8	
11	442	73.37	251.3	
12	453	178.66	598.2	
13	483	374.07	1,173.2	
14	10,380	75.00	10.9	Upper Marker

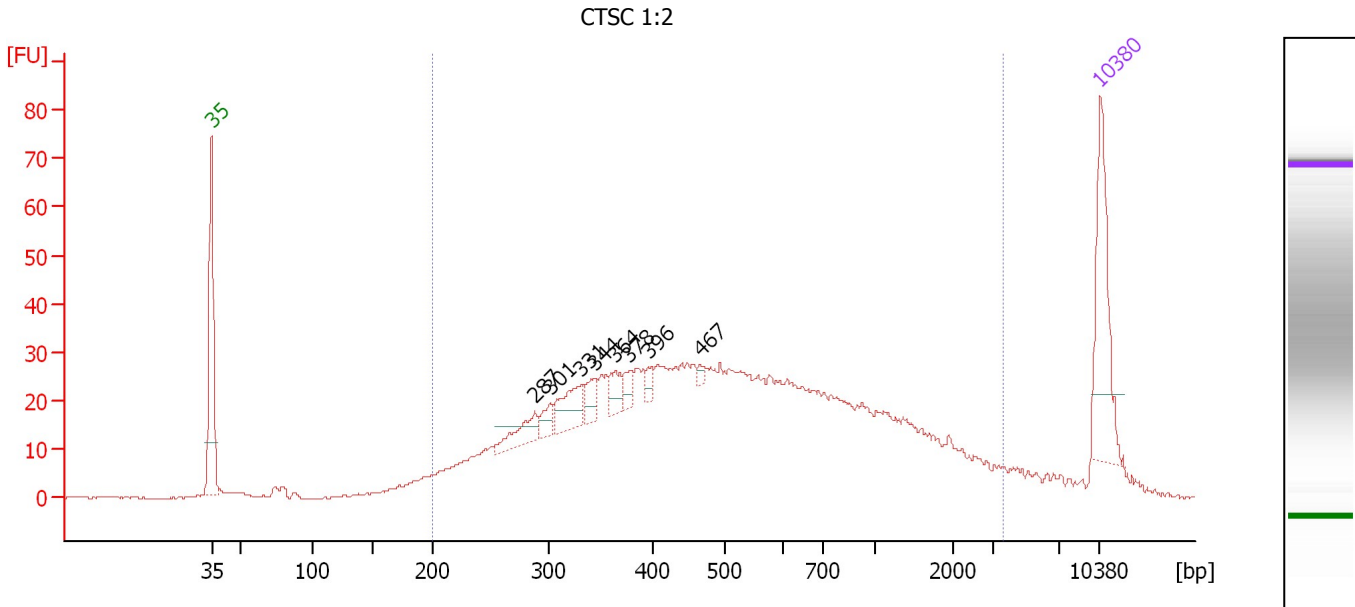
**Region table for sample 1 : NIW-T3 mRNA Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
230	676	381	12,487.3	2,919.72	2,180.5	97	23.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
 Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : CTSC 1:2**

Height Threshold [FU] : 3

**Overall Results for sample 2 : CTSC 1:2**

Number of peaks found: 8                      Corr. Area 1: 1,067.7  
 Noise: 0.2

**Peak table for sample 2 : CTSC 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	31.29	165.2	
3	301	15.79	79.5	
4	331	38.86	178.1	
5	344	15.82	69.7	
6	364	18.47	76.9	
7	378	11.98	48.0	
8	396	8.54	32.6	
9	467	4.34	14.1	
10	10,380	75.00	10.9	Upper Marker

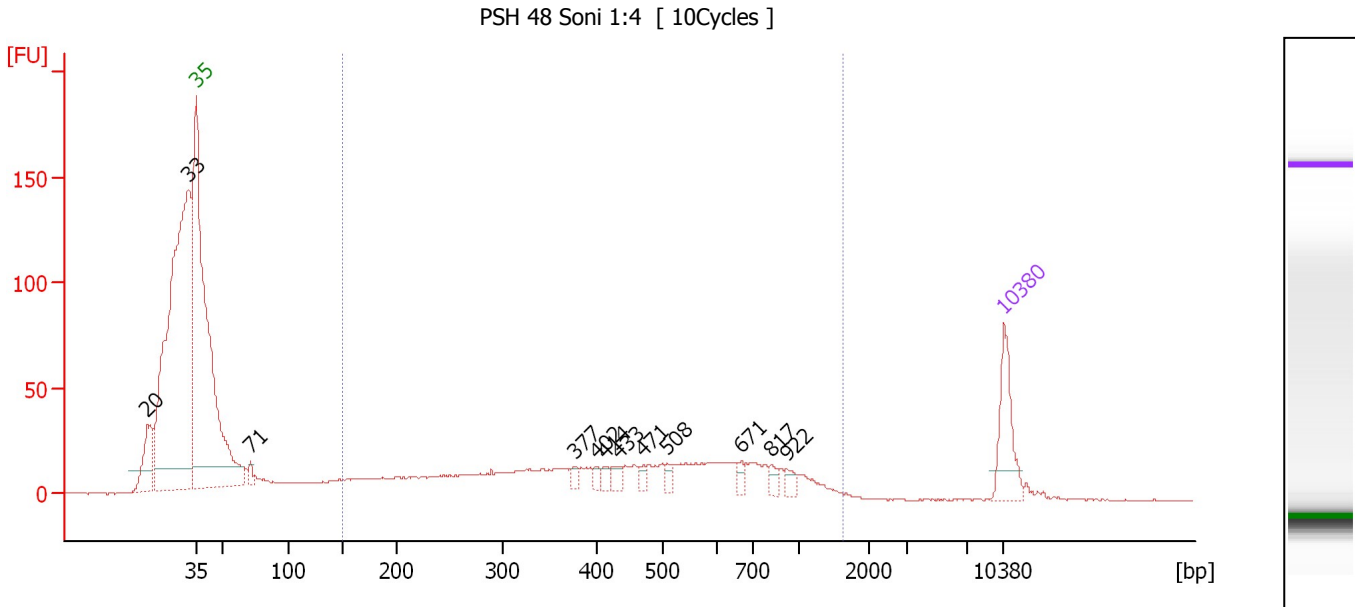
**Region table for sample 2 : CTSC 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	3,597	663	5,456.1	1,532.10	1,067.7	93	79.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
 Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : PSH 48 Soni 1:4**

Height Threshold [FU] : 10

**Overall Results for sample 3 : PSH 48 Soni 1:4**

Number of peaks found: 12                      Corr. Area 1: 694.2  
 Noise: 0.3

**Peak table for sample 3 : PSH 48 Soni 1:4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	20	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	71	17.02	361.9	
5	377	14.12	56.7	
6	402	10.99	41.5	
7	414	13.64	49.9	
8	433	18.67	65.3	
9	471	10.96	35.3	
10	508	13.75	41.0	
11	671	13.65	30.8	
12	817	13.88	25.7	
13	922	14.48	23.8	
14	10,380	75.00	10.9	Upper Marker

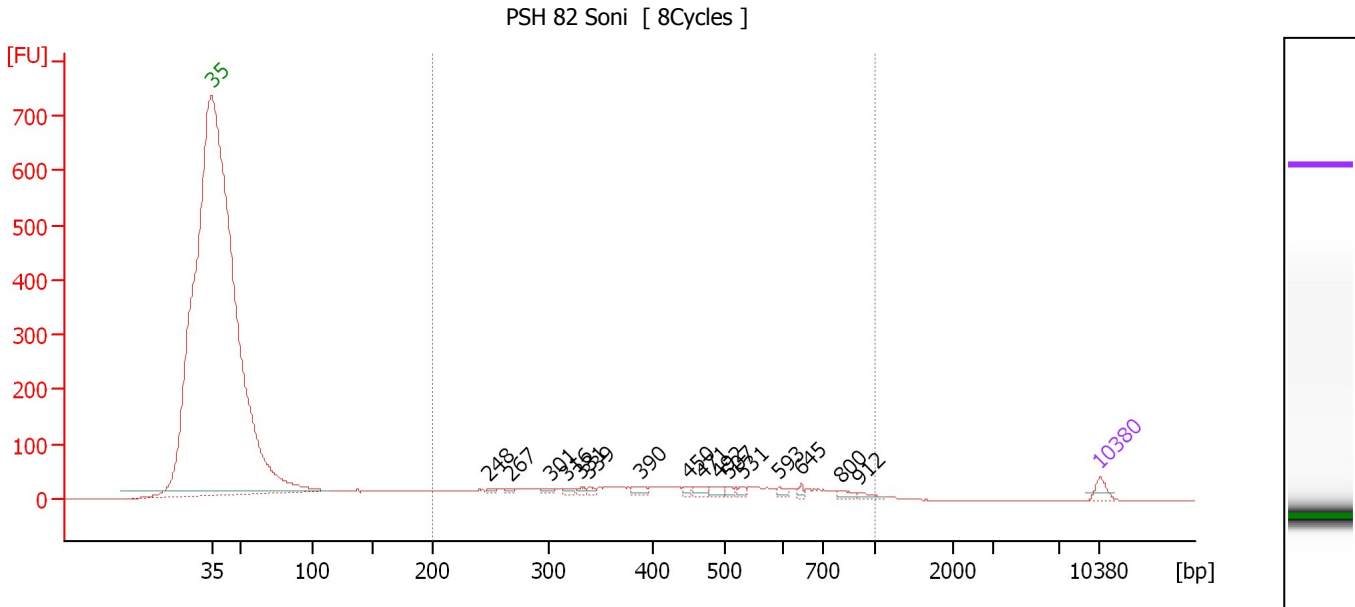
**Region table for sample 3 : PSH 48 Soni 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
150	1,623	494	3,968.2	890.92	694.2	40	52.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
 Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : PSH 82 Soni**

Number of peaks found: 16      Corr. Area 1: 947.3  
 Noise: 0.2

**Peak table for sample 4 : PSH 82 Soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	24.37	148.9	
3	267	26.26	149.2	
4	301	46.42	233.7	
5	316	41.28	198.0	
6	331	32.93	150.6	
7	339	33.83	151.2	
8	390	66.26	257.5	
9	450	32.41	109.1	
10	471	63.80	205.1	
11	492	63.94	196.8	
12	507	43.36	129.6	
13	531	36.96	105.4	
14	593	45.81	117.1	
15	645	33.47	78.6	
16	800	49.10	93.0	
17	912	43.35	72.0	
18	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : PSH 82 Soni**

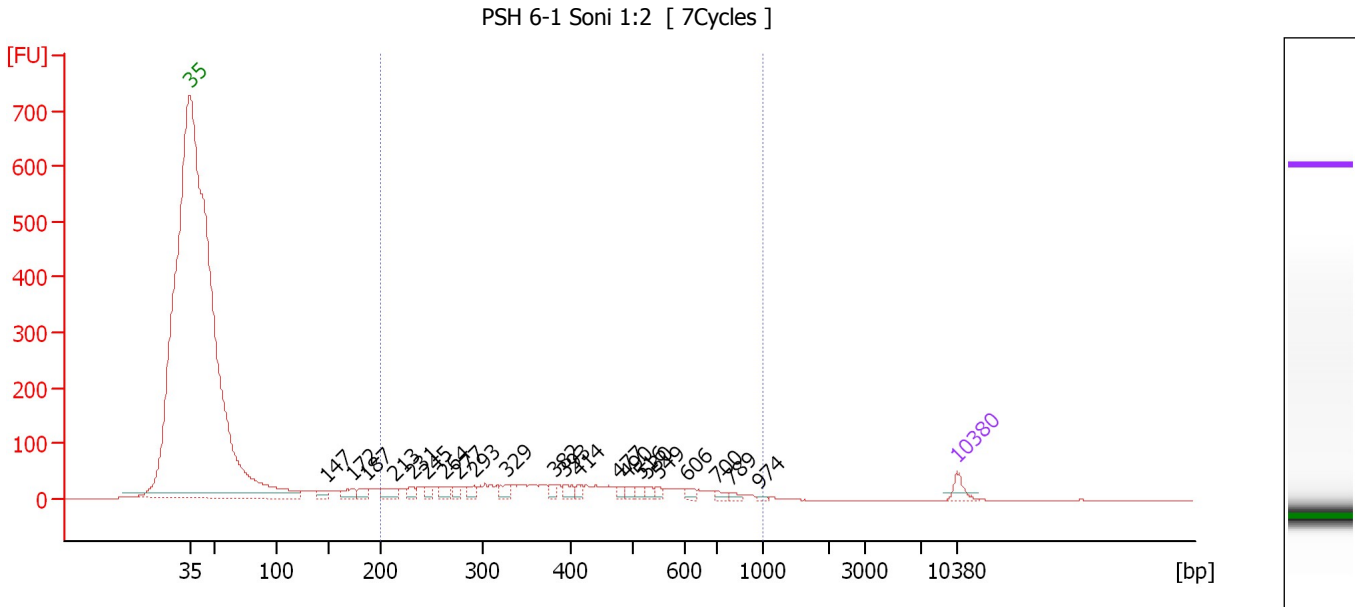
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	442	11,010.1	2,598.33	947.3	79	39.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
 Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : PSH 6-1 Soni 1:2**

Number of peaks found: 22                      Corr. Area 1: 983.4  
 Noise: 0.1

**Peak table for sample 5 : PSH 6-1 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	147	82.92	853.5	
3	172	114.58	1,006.6	
4	187	92.31	748.3	
5	213	123.57	879.0	
6	231	72.69	476.8	
7	245	65.82	407.5	
8	264	94.47	541.6	
9	277	68.68	375.8	
10	293	81.41	421.3	
11	329	82.20	379.0	
12	382	49.70	197.2	
13	393	85.23	328.3	
14	414	46.46	169.8	
15	477	42.38	134.7	
16	490	49.62	153.3	
17	516	55.43	162.6	
18	530	47.92	137.0	
19	549	37.44	103.2	
20	606	52.64	131.6	
21	700	37.30	80.7	
22	789	34.35	66.0	
23	974	11.21	17.4	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**

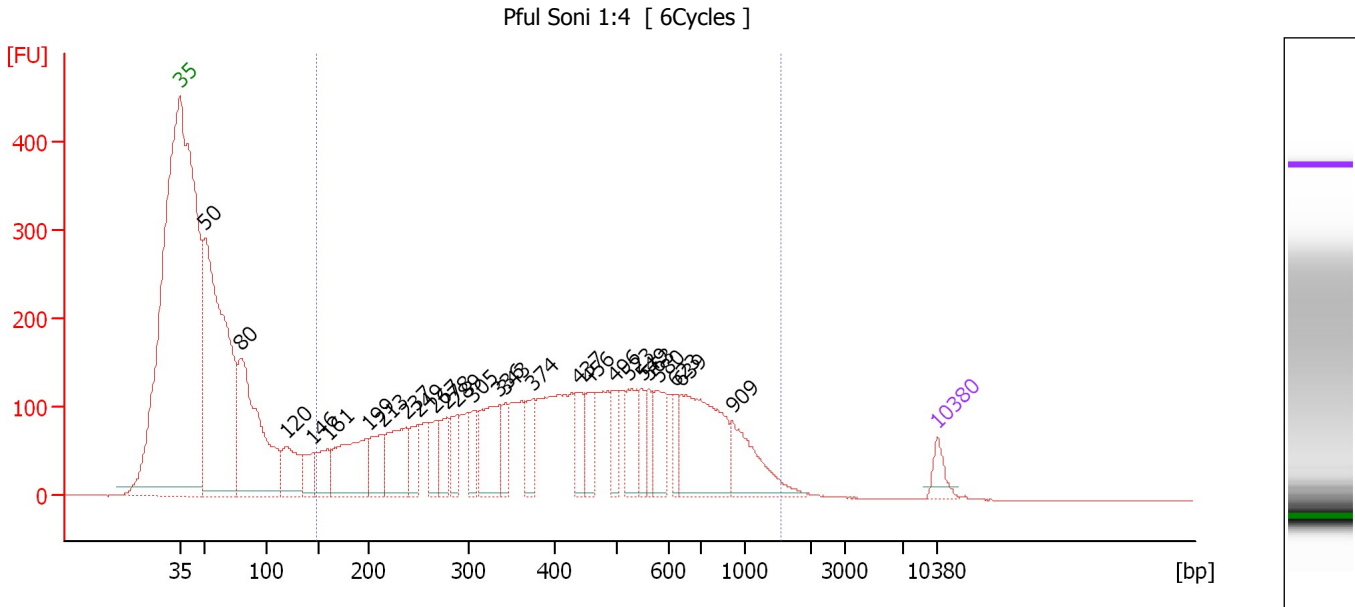
... Region table for sample 5 : PSH 6-1 Soni 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	419	9,818.8	2,237.85	983.4	81	38.6	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
 Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Pful Soni 1:4**

Number of peaks found: 26                      Corr. Area 1: 5,309.3  
 Noise: 0.1

**Peak table for sample 6 : Pful Soni 1:4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	3,098.80	93,831.0	
3	80	1,599.48	30,402.1	
4	120	382.10	4,826.5	
5	146	173.77	1,805.2	
6	161	253.88	2,389.7	
7	199	603.35	4,590.6	
8	213	255.76	1,819.0	
9	237	437.95	2,798.2	
10	249	191.37	1,162.3	
11	267	185.90	1,056.6	
12	278	217.53	1,184.0	
13	289	189.03	992.6	
14	305	149.60	744.0	
15	336	445.26	2,008.5	
16	343	148.52	656.8	
17	374	195.53	792.4	
18	437	193.06	669.9	
19	456	201.20	669.0	
20	496	139.16	424.8	
21	523	231.33	670.4	
22	549	130.41	359.9	
23	563	126.65	341.1	
24	580	225.99	590.0	
25	623	107.63	261.8	
26	639	710.08	1,684.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : Pful Soni 1:4**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
27	909	339.75	566.0	
28	▶ 10,380	75.00	10.9	Upper Marker

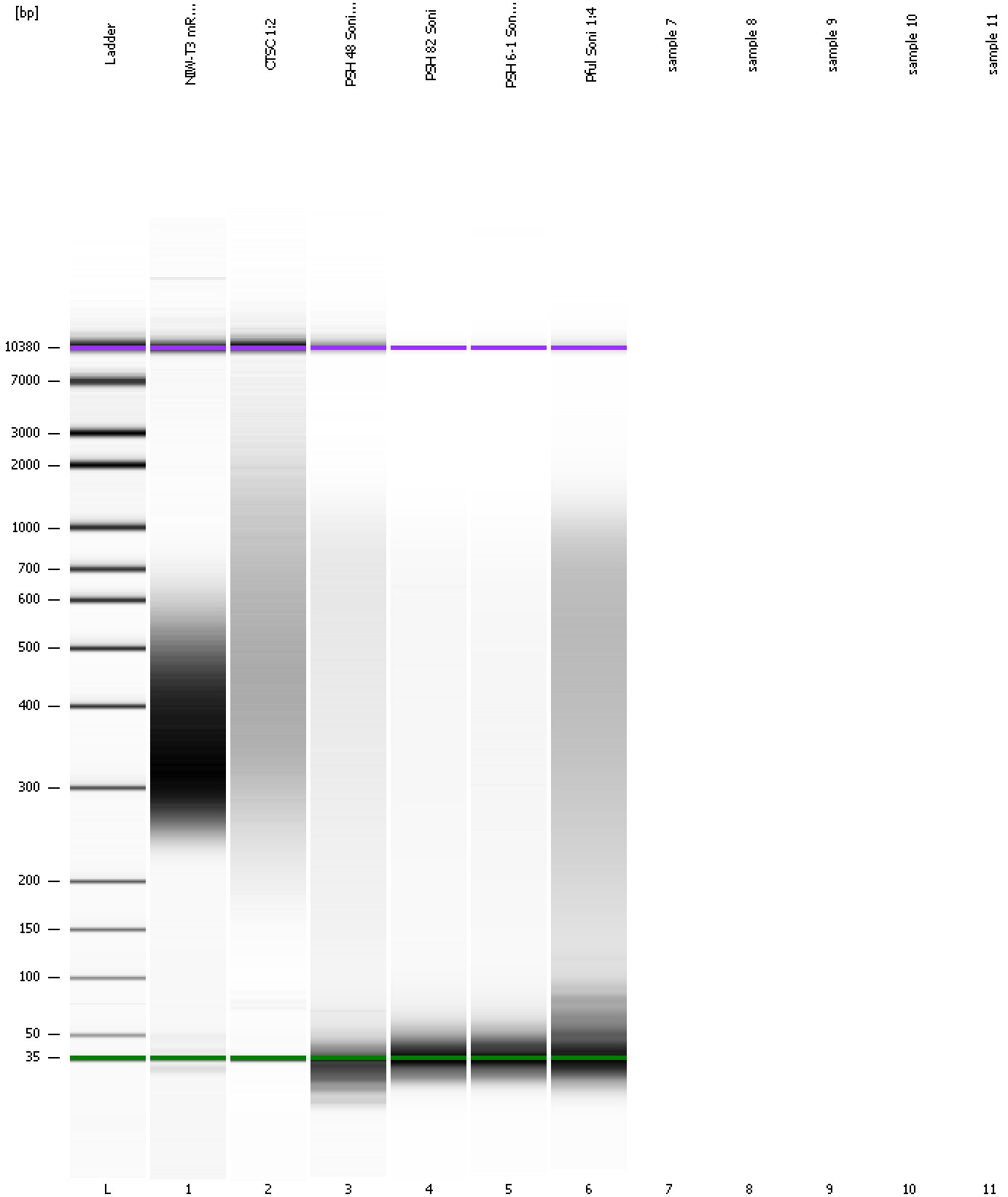
**Region table for sample 6 : Pful Soni 1:4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
149	1,532	468	35,344.2	7,791.54	5,309.3	66	50.4	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-24\2013-09-24\_002.xad

Created: 9/24/2013 11:08:38 AM  
Modified: 9/24/2013 11:39:42 AM

**Invalid Samples**

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.