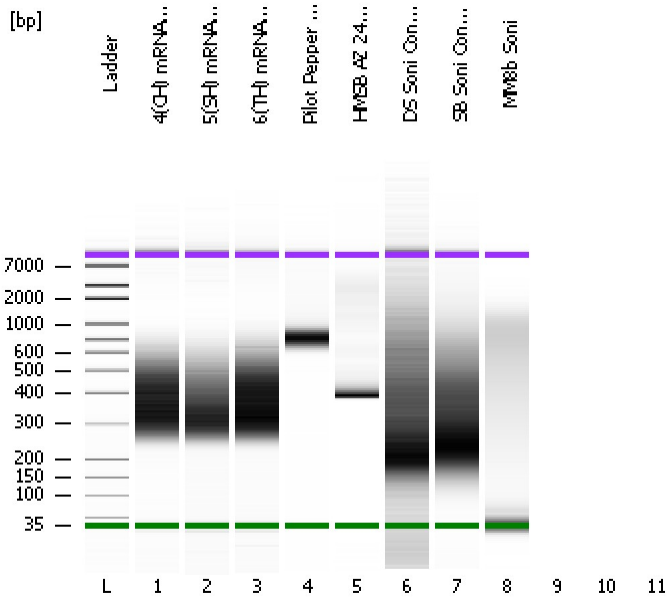


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

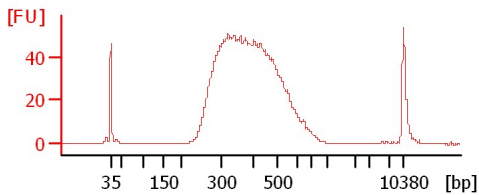
Assay Information:

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

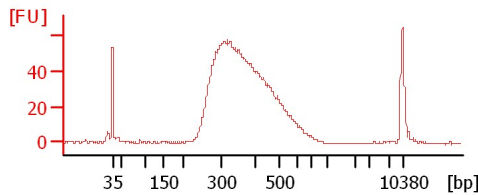
Chip Information:

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

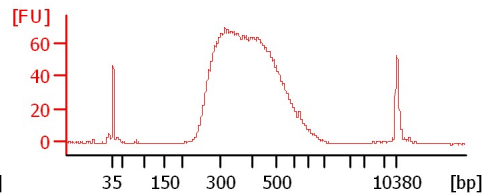
**4(CH) mRNA-Lib 1:2**



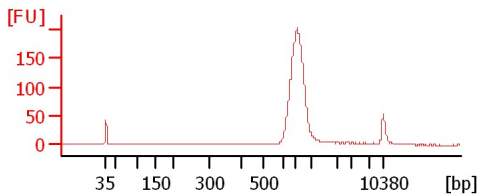
**5(SH) mRNA-Lib**



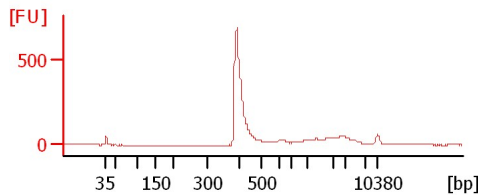
**6(TH) mRNA-Lib**



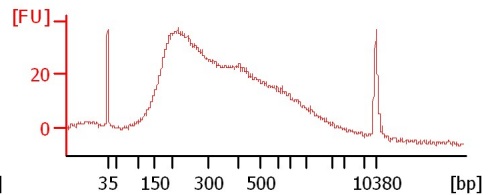
**Pilot Pepper Rescan 1:2**



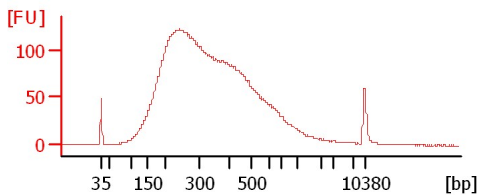
**HMSB AZ 24 1:5**



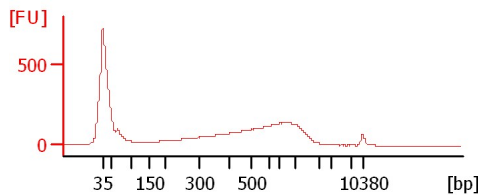
**DS Soni Concentrated**



**SB Soni Concentrated 1:5**



**MM8b Soni**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
4(CH) mRNA-Lib 1:2		<input type="checkbox"/>	✓			
5(SH) mRNA-Lib		<input type="checkbox"/>	✓			
6(TH) mRNA-Lib		<input type="checkbox"/>	✓			
Pilot Pepper Rescan 1:2		<input type="checkbox"/>	✓			
HMSB AZ 24 1:5		<input type="checkbox"/>	✓			
DS Soni Concentrated		<input type="checkbox"/>	✓			
SB Soni Concentrated 1:5		<input type="checkbox"/>	✓			
MM8b Soni		<input type="checkbox"/>	✓			
		<input type="checkbox"/>				
		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 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

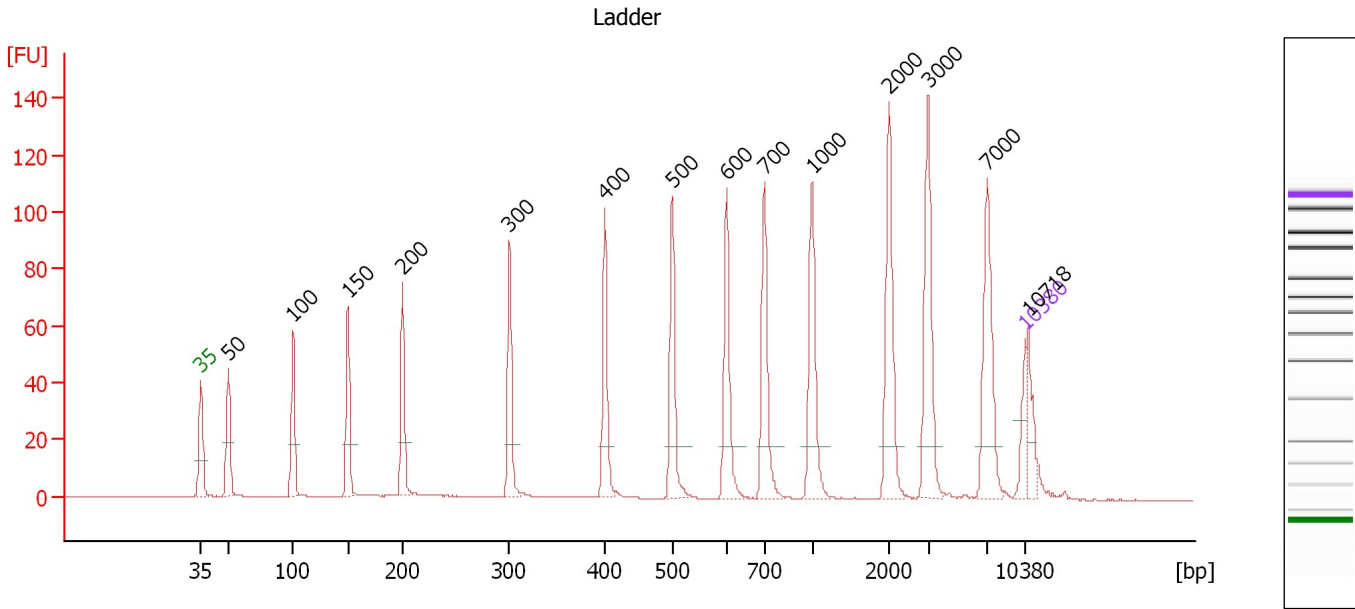
**Ladder**

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\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

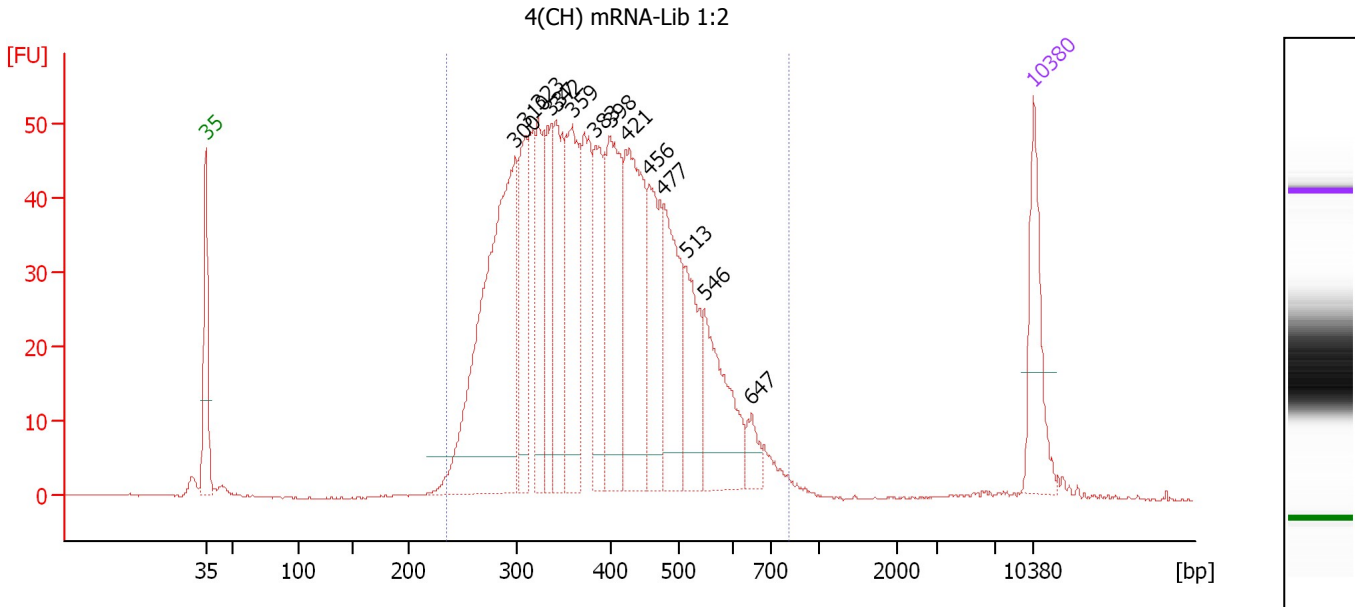
**Peak table for Ladder**

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	10,718	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 4(CH) mRNA-Lib 1:2**

Number of peaks found: 14      Corr. Area 1: 1,250.2  
 Noise: 0.1

**Peak table for sample 1 : 4(CH) mRNA-Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	300	513.91	2,598.2	
3	310	125.97	615.2	
4	323	120.61	565.8	
5	337	103.01	463.2	
6	342	154.82	686.1	
7	359	172.35	728.2	
8	383	133.06	526.3	
9	398	180.20	685.9	
10	421	229.52	826.1	
11	456	128.91	428.6	
12	477	147.67	469.0	
13	513	103.88	307.0	
14	546	130.07	361.0	
15	647	24.88	58.3	
16	10,380	75.00	10.9	Upper Marker

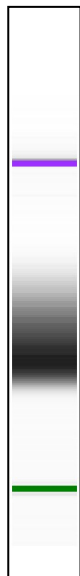
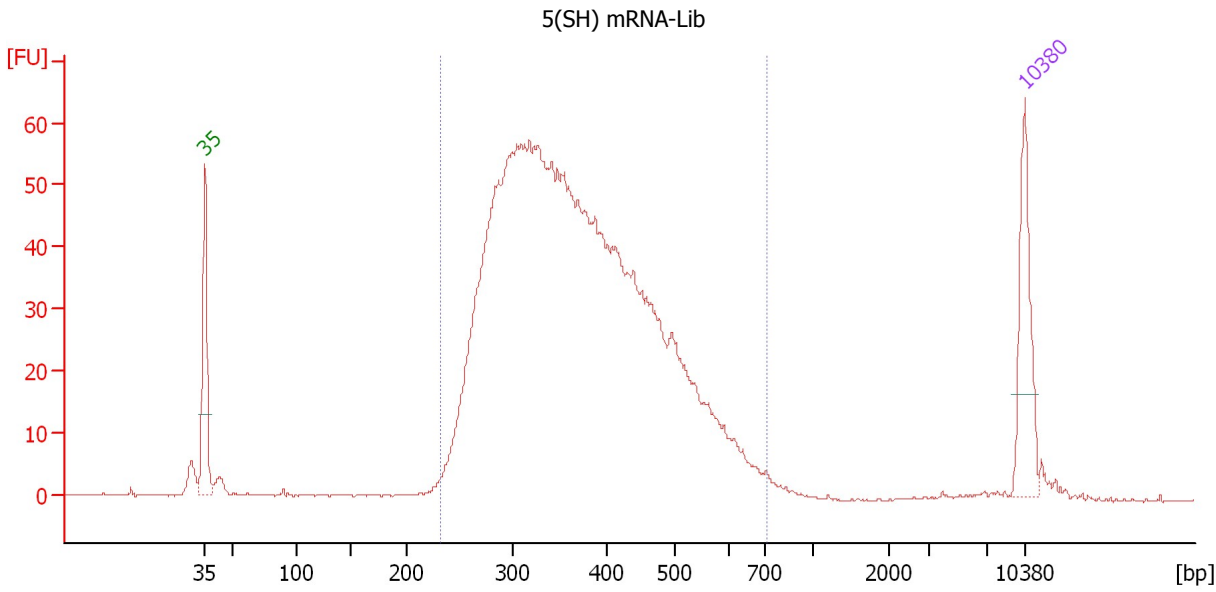
**Region table for sample 1 : 4(CH) mRNA-Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
236	801	398	10,942.0	2,649.05	1,250.2	98	24.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : 5(SH) mRNA-Lib**

Height Threshold [FU] : 10

**Overall Results for sample 2 : 5(SH) mRNA-Lib**

Number of peaks found: 0                      Corr. Area 1: 1,225.2  
 Noise: 0.1

**Peak table for sample 2 : 5(SH) mRNA-Lib**

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

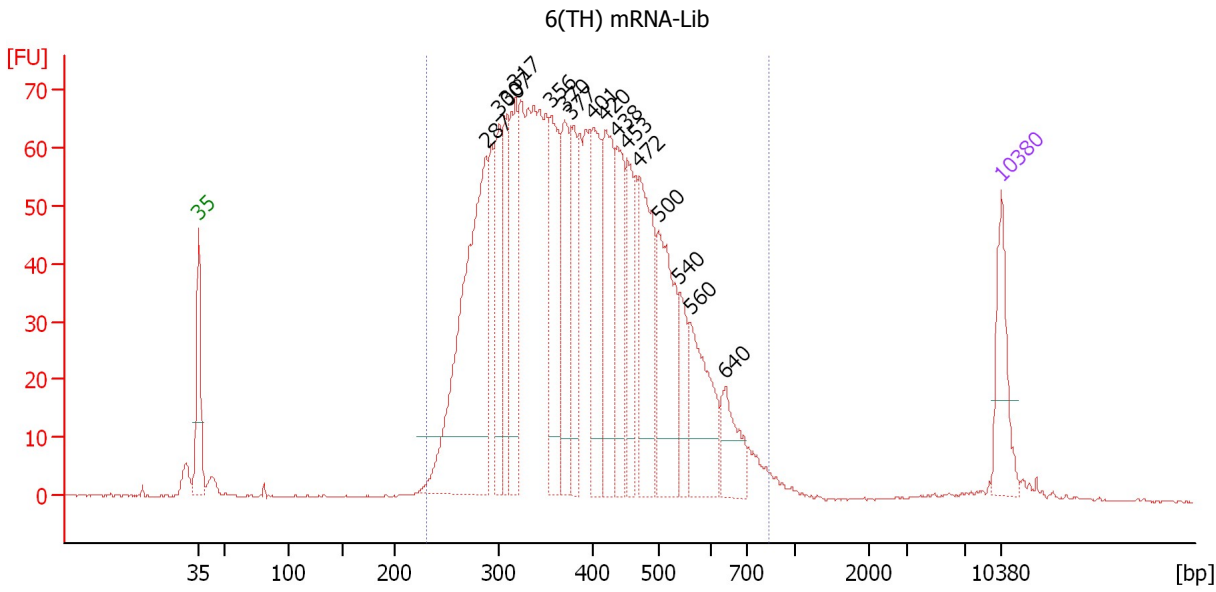
**Region table for sample 2 : 5(SH) mRNA-Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
233	713	378	9,866.0	2,281.16	1,225.2	96	24.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : 6(TH) mRNA-Lib**

Height Threshold [FU] : 10

**Overall Results for sample 3 : 6(TH) mRNA-Lib**

Number of peaks found: 16      Corr. Area 1: 1,730.2  
 Noise: 0.2

**Peak table for sample 3 : 6(TH) mRNA-Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	543.13	2,865.1	
3	300	152.32	769.3	
4	307	134.66	663.6	
5	317	186.55	891.1	
6	356	182.52	777.6	
7	370	149.47	612.1	
8	377	111.13	446.1	
9	401	169.40	639.5	
10	420	180.62	651.5	
11	438	140.88	487.3	
12	453	105.66	353.7	
13	472	197.74	634.5	
14	500	200.99	609.2	
15	540	66.91	187.7	
16	560	143.60	388.3	
17	640	71.65	169.7	
18	10,380	75.00	10.9	Upper Marker

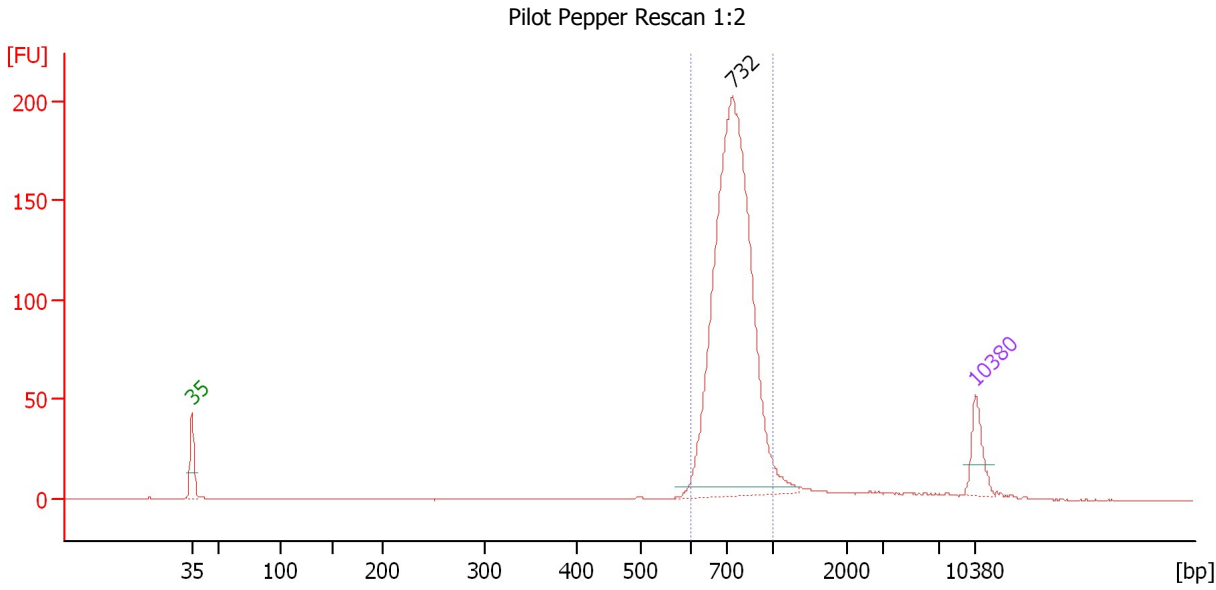
**Region table for sample 3 : 6(TH) mRNA-Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
231	842	401	15,737.4	3,809.50	1,730.2	97	26.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Pilot Pepper Rescan 1:2**

Number of peaks found: 1                      Corr. Area 1: 866.0  
 Noise: 0.1

**Peak table for sample 4 : Pilot Pepper Rescan 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	732	1,679.18	3,476.2	
3	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Pilot Pepper Rescan 1:2**

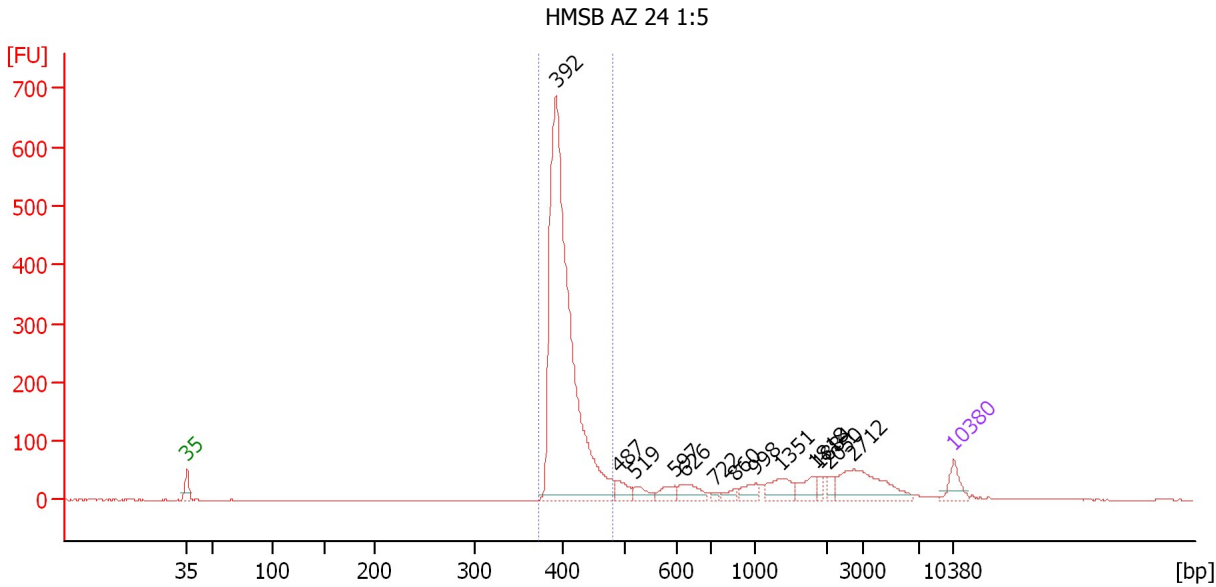
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
597	1,000	750	3,335.5	1,633.64	866.0	90	11.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : HMSB AZ 24 1:5**

Height Threshold [FU] : 10

**Overall Results for sample 5 : HMSB AZ 24 1:5**

Number of peaks found: 13                      Corr. Area 1: 1,919.0  
 Noise: 0.2

**Peak table for sample 5 : HMSB AZ 24 1:5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	392	3,045.99	11,776.5	
3	487	85.25	265.0	
4	519	68.36	199.5	
5	597	65.30	165.7	
6	626	98.86	239.2	
7	722	15.54	32.6	
8	860	36.97	65.1	
9	998	65.14	98.9	
10	1,351	114.43	128.3	
11	1,818	78.85	65.7	
12	1,884	29.09	23.4	
13	2,050	37.04	27.4	
14	2,712	270.14	150.9	
15	10,380	75.00	10.9	Upper Marker

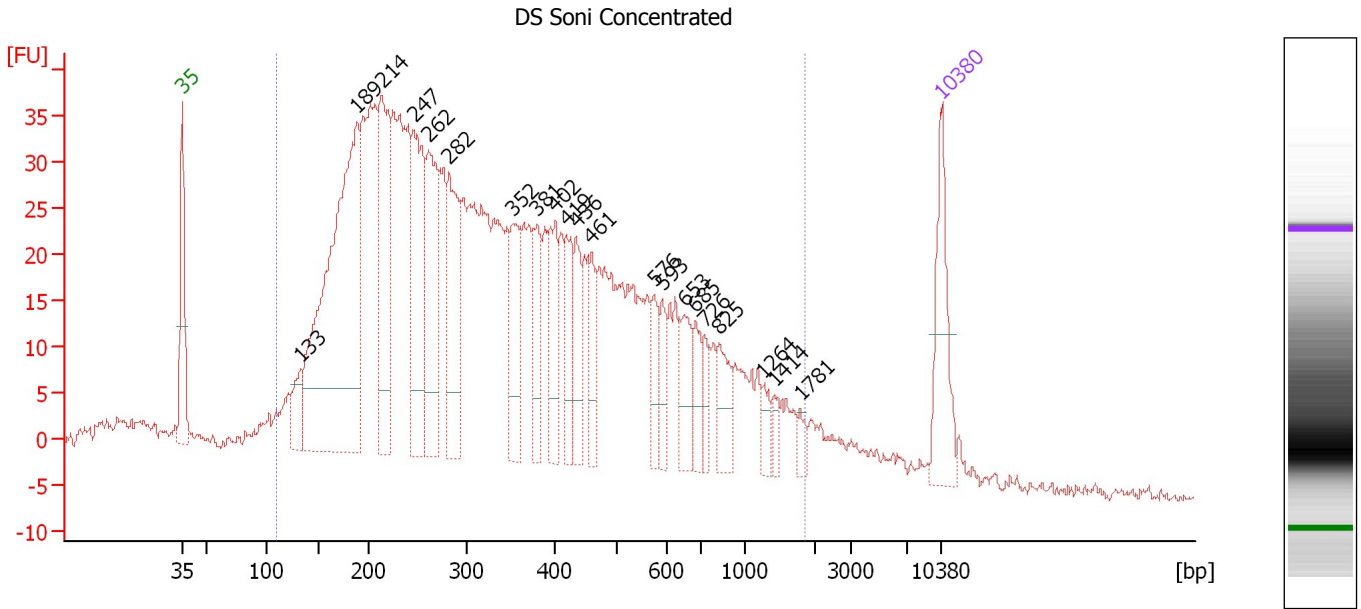
**Region table for sample 5 : HMSB AZ 24 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
373	479	405	11,101.9	2,957.91	1,919.0	70	5.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : DS Soni Concentrated**

Height Threshold [FU] : 7

**Overall Results for sample 6 : DS Soni Concentrated**

Number of peaks found: 21                      Corr. Area 1: 1,516.2  
 Noise: 0.7

**Peak table for sample 6 : DS Soni Concentrated**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	47.88	545.1	
3	189	634.00	5,071.9	
4	214	230.49	1,631.1	
5	247	206.74	1,270.5	
6	262	181.76	1,052.4	
7	282	161.91	869.3	
8	352	93.78	403.4	
9	381	70.38	280.0	
10	402	83.37	314.2	
11	419	63.83	230.7	
12	436	57.13	198.7	
13	461	46.20	151.9	
14	576	37.78	99.4	
15	593	31.05	79.3	
16	653	49.57	115.0	
17	685	31.02	68.6	
18	726	23.17	48.3	
19	825	44.91	82.5	
20	1,264	16.58	19.9	
21	1,414	11.67	12.5	
22	1,781	10.53	9.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : DS Soni Concentrated**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	10,380	75.00	10.9	Upper Marker

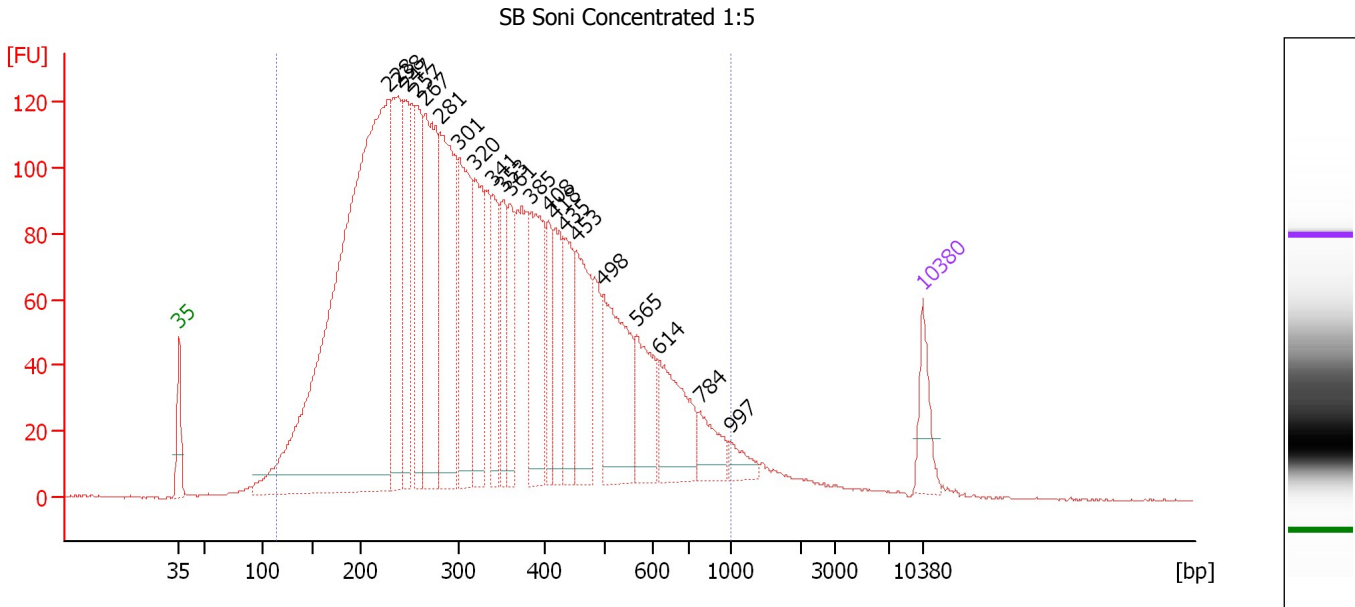
**Region table for sample 6 : DS Soni Concentrated**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
109	1,846	408	23,580.4	4,173.16	1,516.2	91	69.0	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SB Soni Concentrated 1:5**

Number of peaks found: 21                      Corr. Area 1: 4,341.5  
 Noise: 0.4

**Peak table for sample 7 : SB Soni Concentrated 1:5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	2,584.64	17,180.8	
3	238	456.08	2,905.3	
4	247	273.71	1,681.2	
5	257	281.46	1,662.0	
6	267	565.53	3,215.1	
7	281	581.38	3,130.5	
8	301	408.19	2,052.2	
9	320	288.72	1,367.4	
10	341	199.16	885.0	
11	353	167.44	719.2	
12	361	149.64	627.4	
13	385	315.49	1,241.9	
14	408	137.01	509.4	
15	418	179.07	648.9	
16	435	186.67	650.5	
17	453	271.52	907.6	
18	498	354.70	1,079.0	
19	565	179.30	480.9	
20	614	219.23	541.3	
21	784	87.24	168.5	
22	997	40.69	61.8	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**

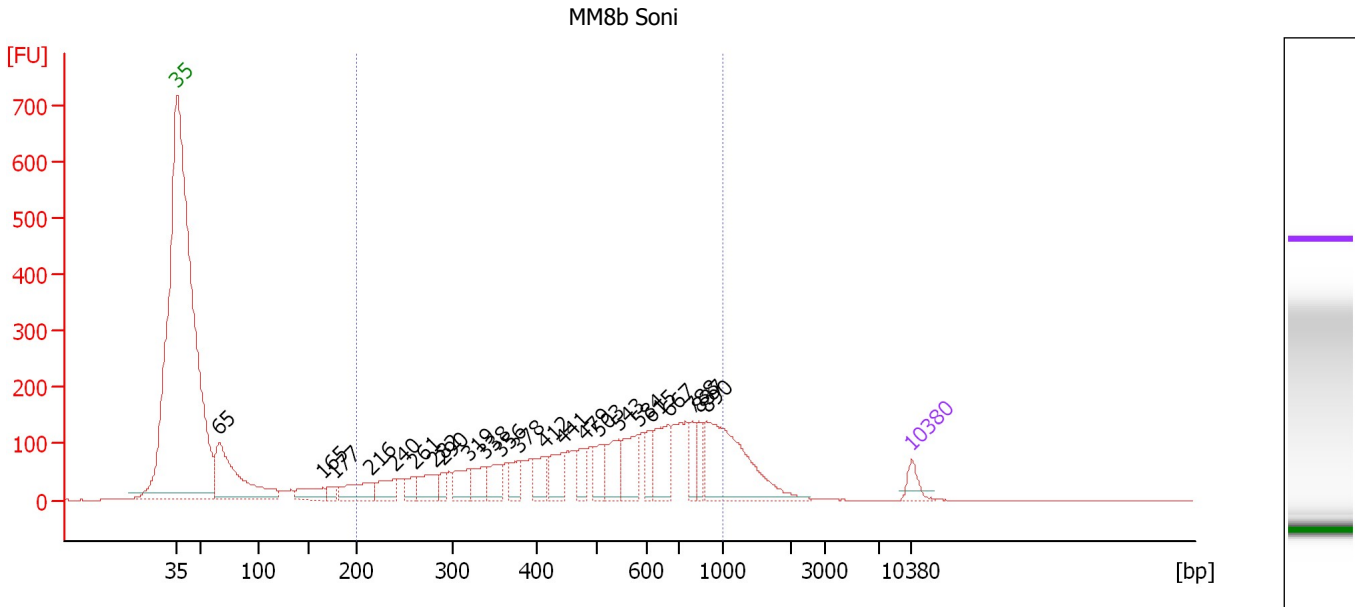
... Region table for sample 7 : SB Soni Concentrated 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
114	1,000	348	52,308.3	9,370.60	4,341.5	97	44.0	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
 Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : MM8b Soni**

Number of peaks found: 23                      Corr. Area 1: 3,484.7  
 Noise: 0.3

**Peak table for sample 8 : MM8b Soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	1,090.07	25,254.5	
3	165	181.20	1,660.9	
4	177	72.84	622.2	
5	216	252.69	1,776.3	
6	240	173.54	1,097.7	
7	261	115.04	667.1	
8	282	192.04	1,032.1	
9	290	80.54	420.4	
10	319	188.50	896.6	
11	338	167.87	752.6	
12	356	167.10	711.0	
13	378	149.72	600.1	
14	412	177.11	650.7	
15	441	213.01	732.1	
16	479	134.46	425.2	
17	503	172.69	520.4	
18	543	251.24	700.4	
19	584	263.55	683.6	
20	615	119.95	295.5	
21	667	327.39	743.4	
22	788	121.04	232.8	
23	837	126.57	229.1	
24	890	815.59	1,388.6	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 AM

**Electropherogram Summary Continued ...**

... Region table for sample 8 :

MM8b 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	533	16,676.8	4,665.40	3,484.7	72	37.6	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-05\2013-09-05\_001.xad

Created: 9/5/2013 10:36:10 AM  
Modified: 9/5/2013 11:08:58 AM

**Invalid Samples**

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.