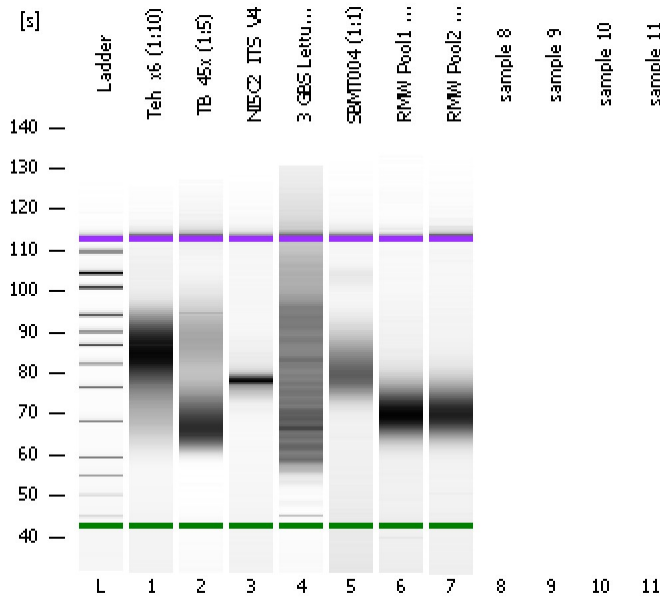


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

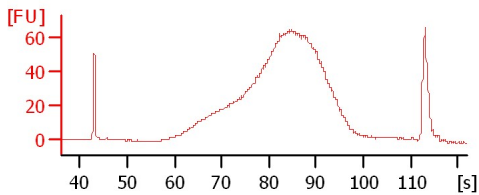
Assay Information:

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

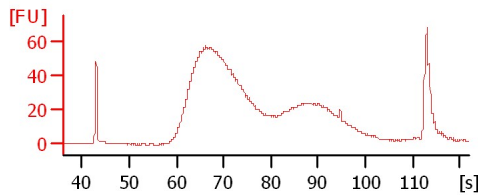
Chip Information:

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

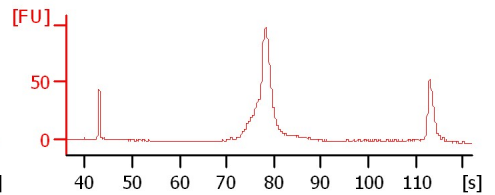
**Teh\_x6 (1:10)**



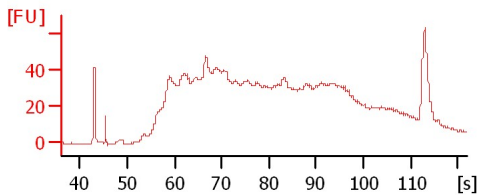
**TB\_45x (1:5)**



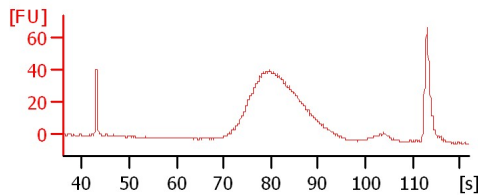
**NI5C2 ITS\_V4**



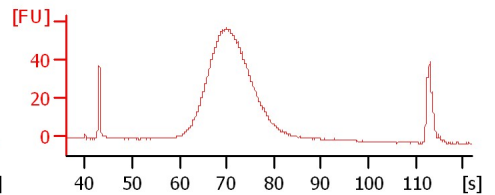
**3 GBS Lettuce (1:1)**



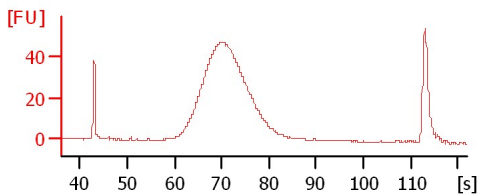
**SBMT004 (1:1)**



**RMW Pool1 (1:3)**



**RMW Pool2 (1:3)**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
Modified: 3/3/2015 2:02:59 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Teh_x6 (1:10)		<input type="checkbox"/>	✓			
TB_45x (1:5)		<input type="checkbox"/>	✓			
NI5C2_ITS_V4		<input type="checkbox"/>	✓			
3 GBS Lettuce (1:1)		<input type="checkbox"/>	✓			
SBMT004 (1:1)		<input type="checkbox"/>	✓			
RMW Pool1 (1:3)		<input type="checkbox"/>	✓			
RMW Pool2 (1:3)		<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\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
Modified: 3/3/2015 2:02:59 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/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

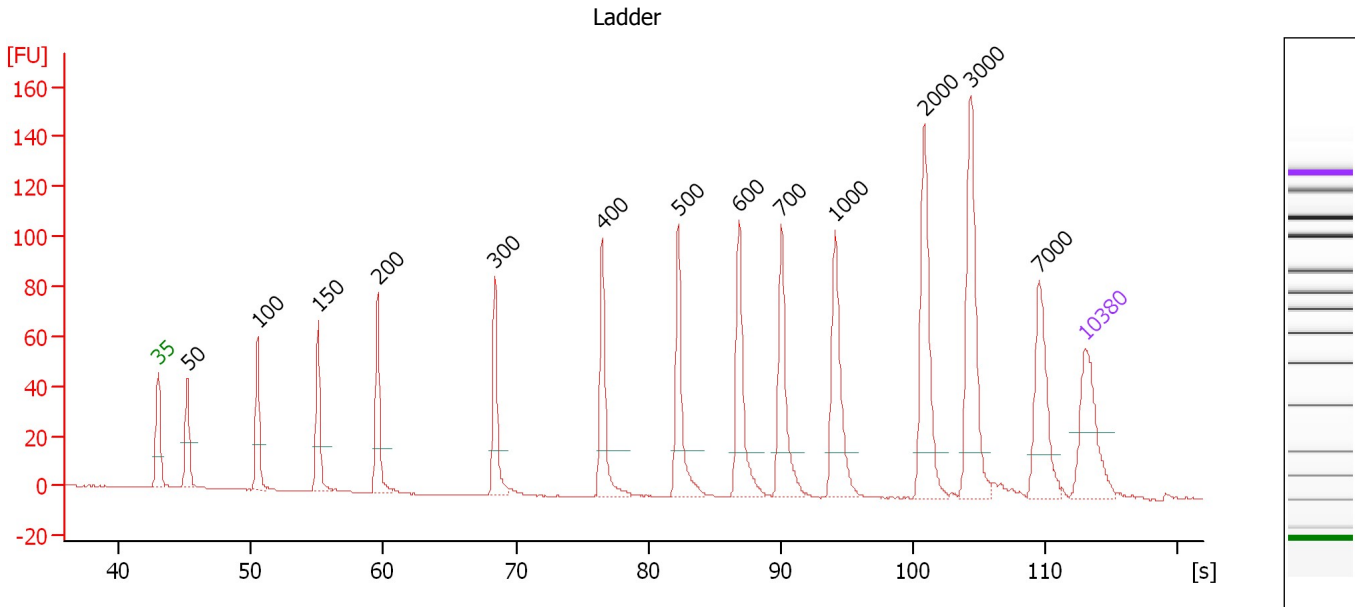
**Ladder**

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\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

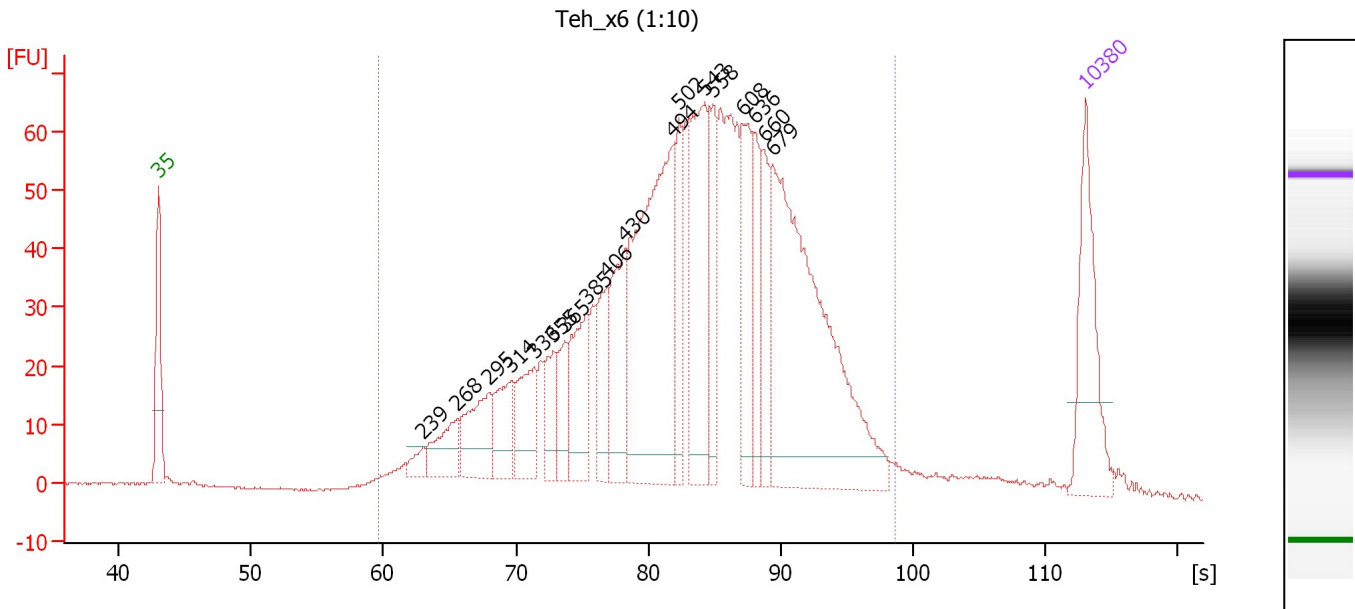
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.22
3	100	150.00	2,272.7	Ladder Peak	50.51
4	150	150.00	1,515.2	Ladder Peak	55.08
5	200	150.00	1,136.4	Ladder Peak	59.57
6	300	150.00	757.6	Ladder Peak	68.45
7	400	150.00	568.2	Ladder Peak	76.53
8	500	150.00	454.5	Ladder Peak	82.26
9	600	150.00	378.8	Ladder Peak	86.84
10	700	150.00	324.7	Ladder Peak	90.04
11	1,000	150.00	227.3	Ladder Peak	94.12
12	2,000	150.00	113.6	Ladder Peak	100.83
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Teh\_x6 (1:10)**

Number of peaks found: 18                      Corr. Area 1: 1,562.9  
 Noise: 0.2

**Peak table for sample 1 : Teh\_x6 (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	239	13.31	84.4		63.03
3	268	43.87	248.0		65.61
4	295	67.10	345.2		67.97
5	314	52.20	251.6		69.61
6	336	58.41	263.1		71.39
7	355	38.59	164.9		72.86
8	365	34.84	144.6		73.71
9	385	71.61	281.5		75.35
10	406	54.62	203.9		76.87
11	430	81.08	285.8		78.24
12	494	285.91	877.7		81.89
13	502	60.66	183.2		82.34
14	543	137.02	382.0		84.25
15	558	59.12	160.5		84.92
16	608	75.98	189.3		87.10
17	636	55.19	131.5		87.99
18	660	52.73	121.1		88.75
19	679	356.88	796.2		89.37
20	10,380	75.00	10.9	Upper Marker	113.00

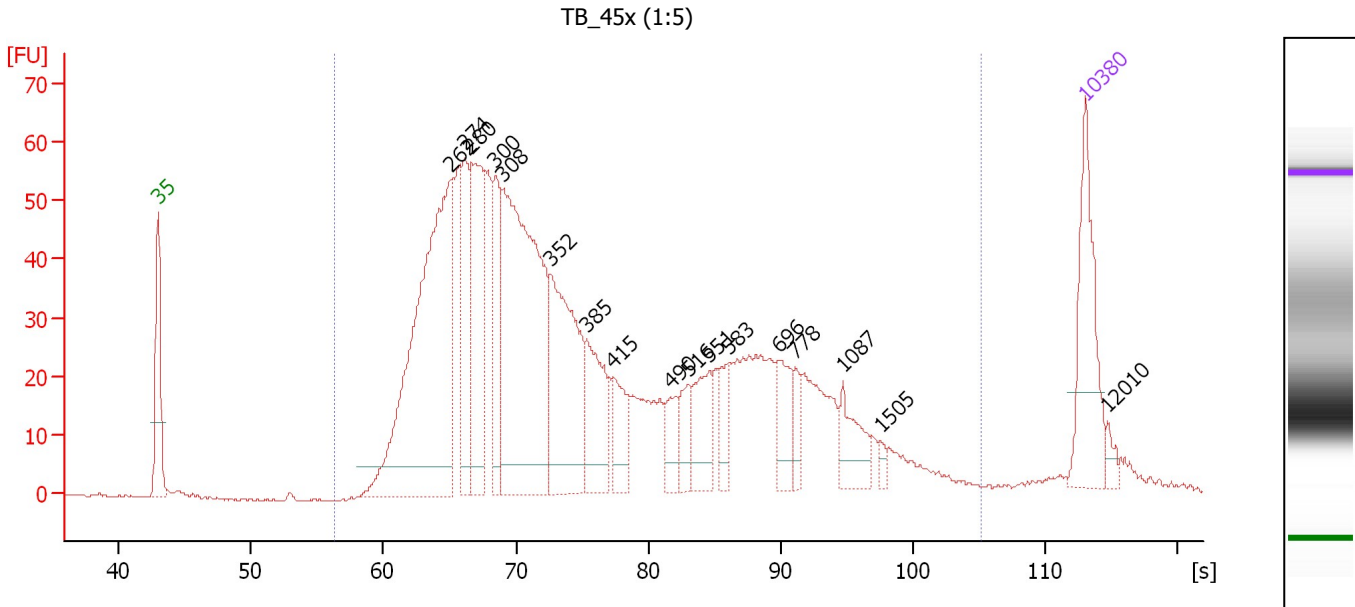
**Region table for sample 1 : Teh\_x6 (1:10)**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.57	567	98.69	1,562.9	97	39.8	1,971.39	6,381.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TB 45x (1:5)**

Number of peaks found: 17                      Corr. Area 1: 1,474.6  
 Noise: 0.2

**Peak table for sample 2 : TB 45x (1:5)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	262	435.85	2,524.4		65.04
3	274	94.12	519.9		66.17
4	280	153.31	829.9		66.66
5	300	77.89	393.1		68.47
6	308	365.72	1,801.9		69.06
7	352	173.14	746.0		72.63
8	385	78.71	309.6		75.34
9	415	39.74	145.2		77.37
10	490	26.78	82.8		81.70
11	516	28.51	83.6		83.01
12	551	46.18	127.0		84.59
13	583	25.77	67.0		86.04
14	696	38.19	83.1		89.92
15	778	16.65	32.4		91.10
16	1,087	33.32	46.4		94.71
17	1,505	5.28	5.3		97.51
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,010	0.00	0.0		114.67

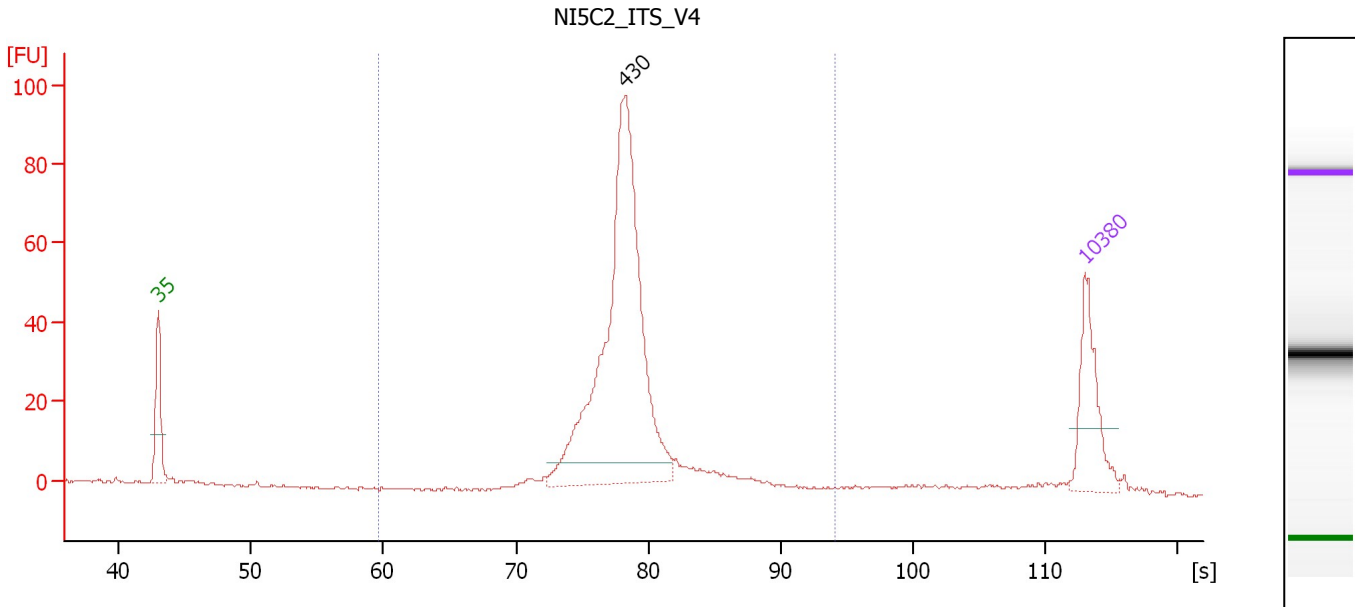
**Region table for sample 2 : TB 45x (1:5)**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
56.33	489	105.17	1,474.6	98	75.1	2,107.75	9,288.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : NI5C2\_ITS\_V4**

Number of peaks found: 1      Corr. Area 1: 468.5  
 Noise: 0.2

**Peak table for sample 3 : NI5C2\_ITS\_V4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	430	575.78	2,030.8		78.23
3	10,380	75.00	10.9	Upper Marker	113.00

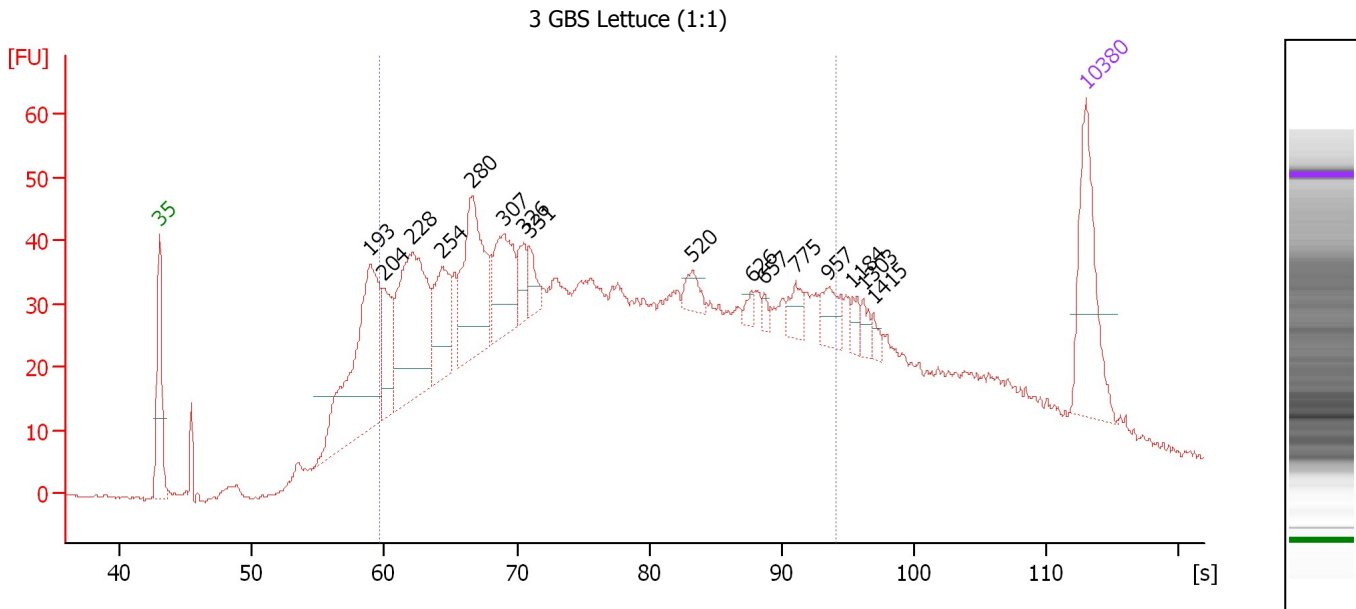
**Region table for sample 3 : NI5C2\_ITS\_V4**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.57	442	94.12	468.5	89	16.3	682.93	2,397.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 3 GBS Lettuce (1:1)**

Number of peaks found: 16                      Corr. Area 1: 1,519.2  
 Noise: 0.3

**Peak table for sample 4 : 3 GBS Lettuce (1:1)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	193	239.50	1,878.4		58.96
3	204	58.87	436.8		59.94
4	228	194.38	1,289.4		62.09
5	254	74.85	447.0		64.34
6	280	132.09	716.1		66.63
7	307	74.65	368.4		69.02
8	326	26.32	122.5		70.51
9	331	18.19	83.3		70.93
10	520	15.71	45.8		83.19
11	626	6.11	14.8		87.69
12	657	5.00	11.5		88.67
13	775	17.34	33.9		91.05
14	957	23.70	37.5		93.53
15	1,184	9.16	11.7		95.36
16	1,303	8.60	10.0		96.16
17	1,415	6.30	6.7		96.90
18	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 3 GBS Lettuce (1:1)**

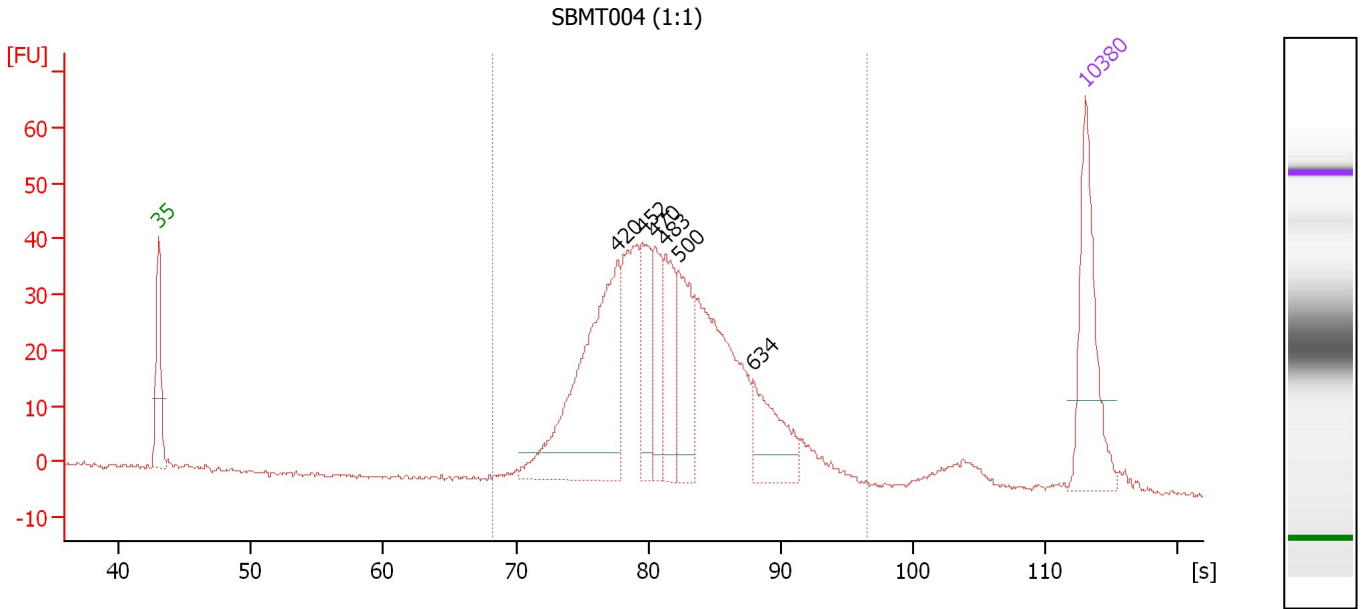
From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.57	441	94.12	1,519.2	73	43.9	2,678.96	11,718.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : SBMT004 (1:1)**

Number of peaks found: 6                      Corr. Area 1: 653.5  
 Noise: 0.4

**Peak table for sample 5 : SBMT004 (1:1)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	420	223.48	806.6		77.67
3	452	61.34	205.6		79.52
4	470	49.67	160.0		80.56
5	483	61.63	193.4		81.28
6	500	70.90	214.7		82.27
7	634	59.75	142.8		87.93
8	10,380	75.00	10.9	Upper Marker	113.00

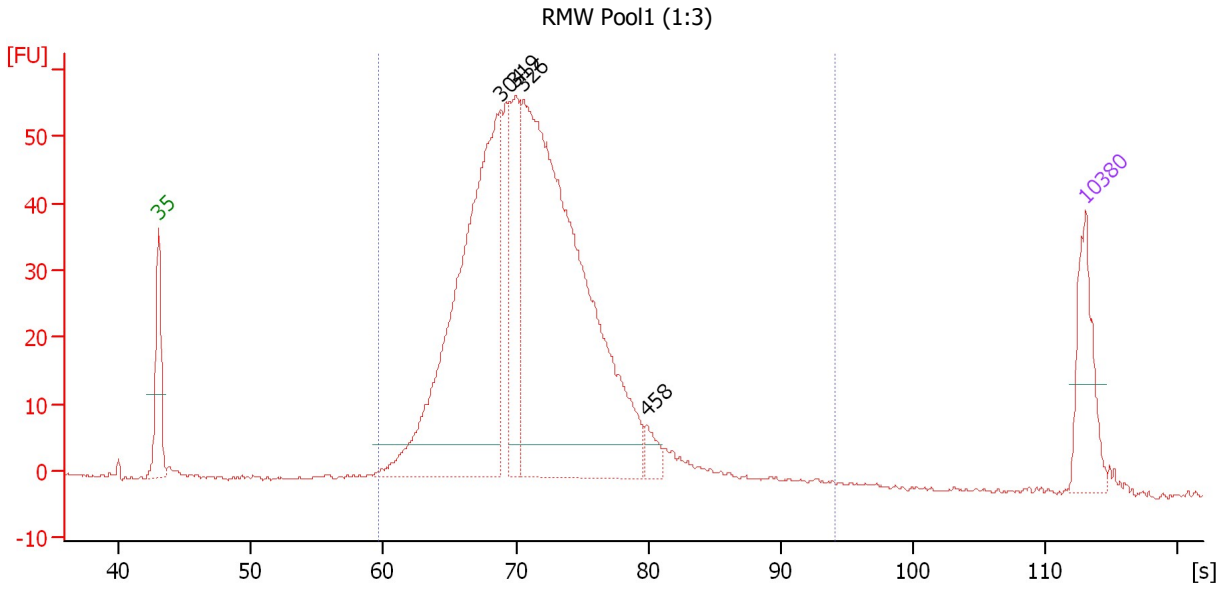
**Region table for sample 5 : SBMT004 (1:1)**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
68.21	506	96.52	653.5	96	24.2	809.14	2,571.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : RMW Pool1 (1:3)**

Number of peaks found: 4                      Corr. Area 1: 906.2  
 Noise: 0.2

**Peak table for sample 6 : RMW Pool1 (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	304	692.58	3,446.5		68.81
3	319	152.15	723.3		69.96
4	326	962.82	4,469.0		70.59
5	458	23.06	76.3		79.85
6	10,380	75.00	10.9	Upper Marker	113.00

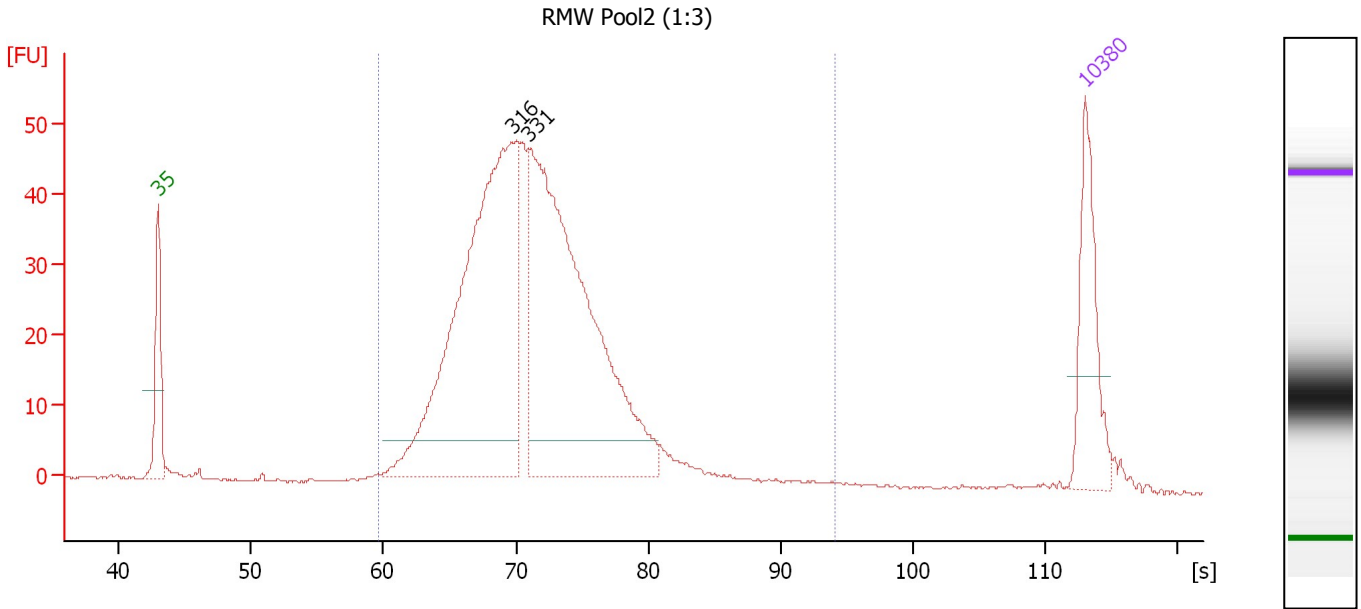
**Region table for sample 6 : RMW Pool1 (1:3)**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.57	342	94.12	906.2	98	23.2	2,048.24	9,570.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
 Modified: 3/3/2015 2:02:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : RMW Pool2 (1:3)**

Number of peaks found: 2                      Corr. Area 1: 779.9  
 Noise: 0.2

**Peak table for sample 7 : RMW Pool2 (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	316	590.12	2,825.4		69.78
3	331	571.38	2,616.0		70.95
4	10,380	75.00	10.9	Upper Marker	113.00

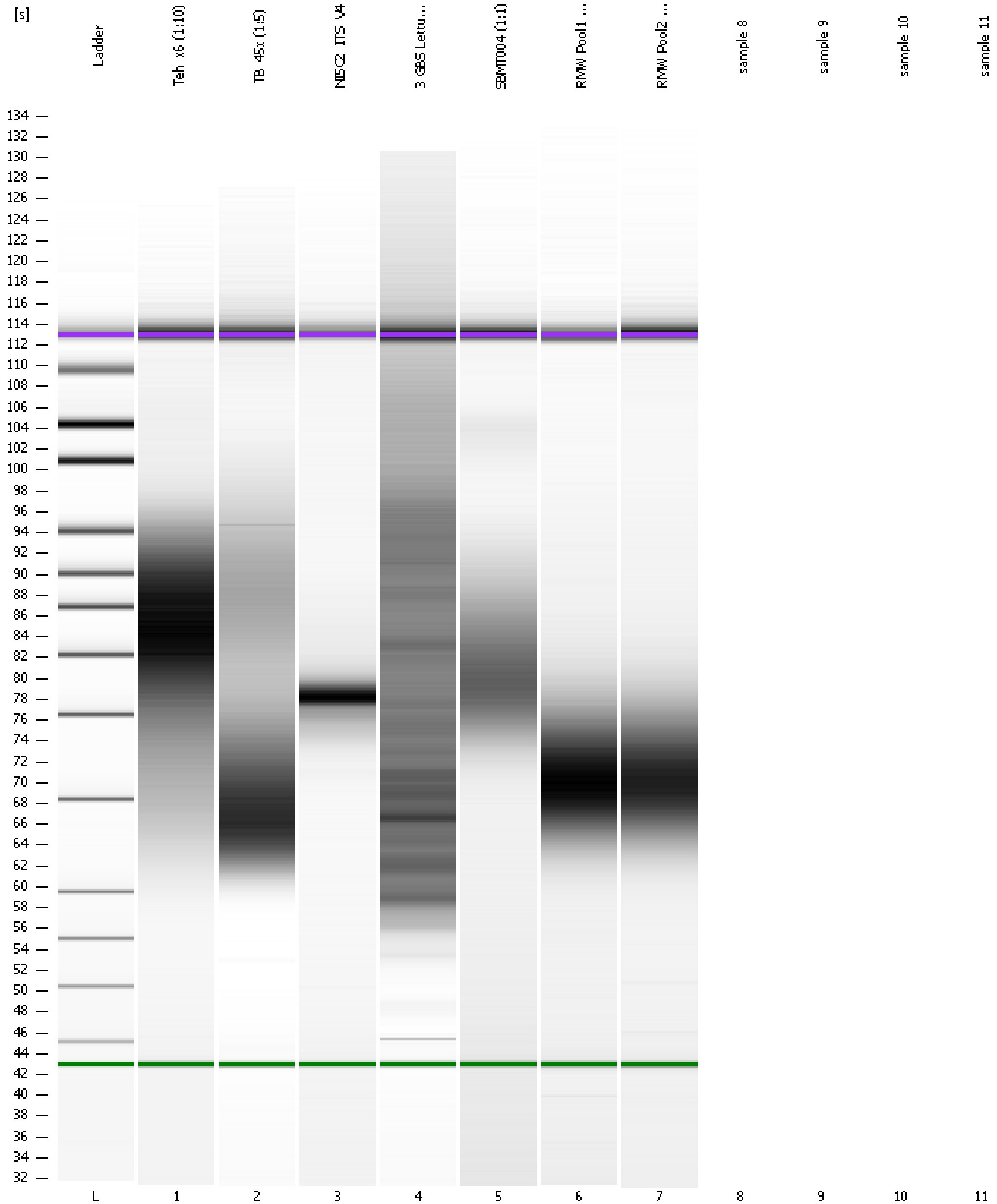
**Region table for sample 7 : RMW Pool2 (1:3)**

From [s]	Average Size [bp]	To [s]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.57	343	94.12	779.9	96	23.8	1,335.09	6,224.7	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
Modified: 3/3/2015 2:02:59 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad

Created: 3/3/2015 1:31:47 PM  
Modified: 3/3/2015 2:02:59 PM

**Invalid Samples**

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.

Assay Class: High Sensitivity DNA Assay Created: 3/3/2015 1:31:47 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-03\2015-03-03\_003.xad Modified: 3/3/2015 2:02:59 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		3/3/2015 2:01:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-03\2015-03-03_003.xad)		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/3/2015 1:31:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1