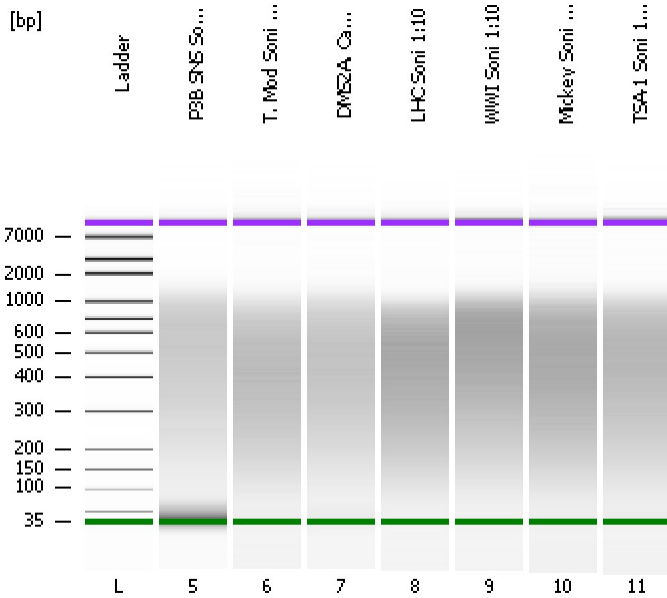


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

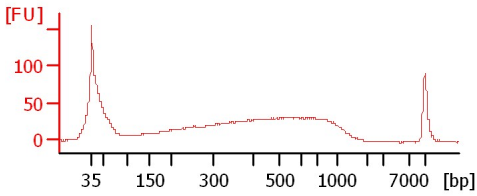
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

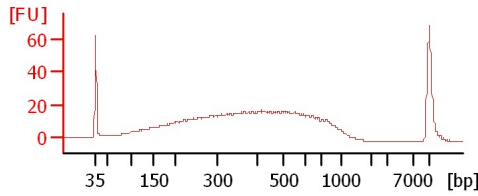
Chip Information:

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

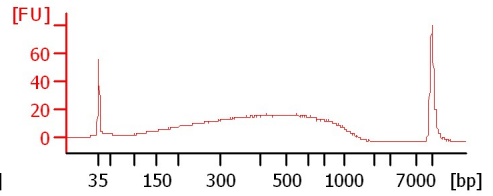
P3B SNS Soni 1:10



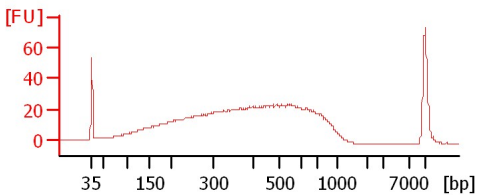
T. Mod Soni 1:10



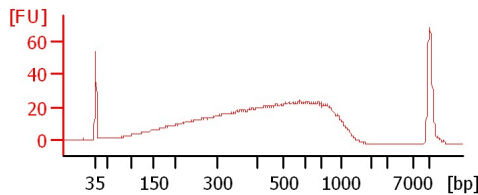
DMS2A. Cam Soni 1:10



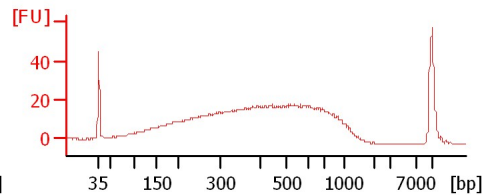
LHC Soni 1:10



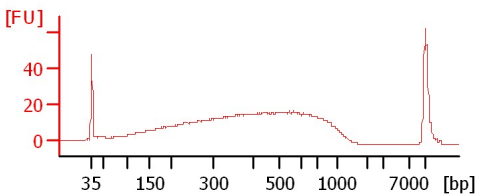
WWI Soni 1:10



Mickey Soni 1:10



TSA-1 Soni 1:10



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P3B SNS Soni 1:10		<input type="checkbox"/>	✓			
T. Mod Soni 1:10		<input type="checkbox"/>	✓			
DMS2A. Cam Soni 1:10		<input type="checkbox"/>	✓			
LHC Soni 1:10		<input type="checkbox"/>	✓			
WWI Soni 1:10		<input type="checkbox"/>	✓			
Mickey Soni 1:10		<input type="checkbox"/>	✓			
TSA-1 Soni 1:10		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 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

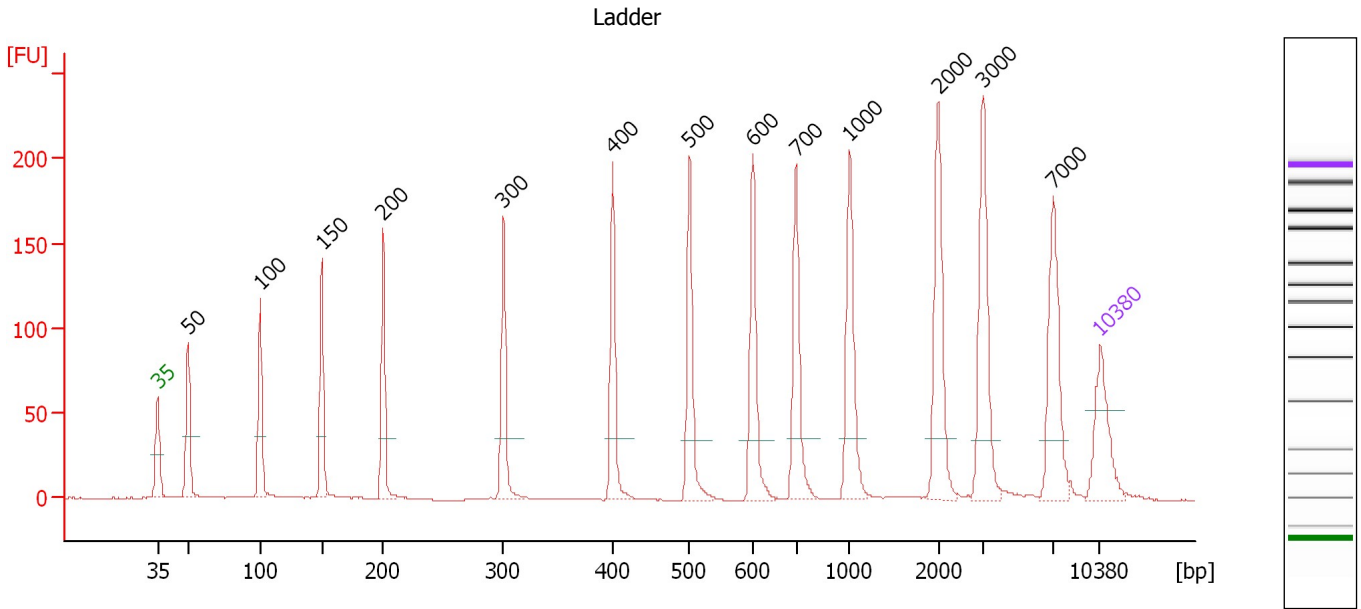
Ladder

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:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

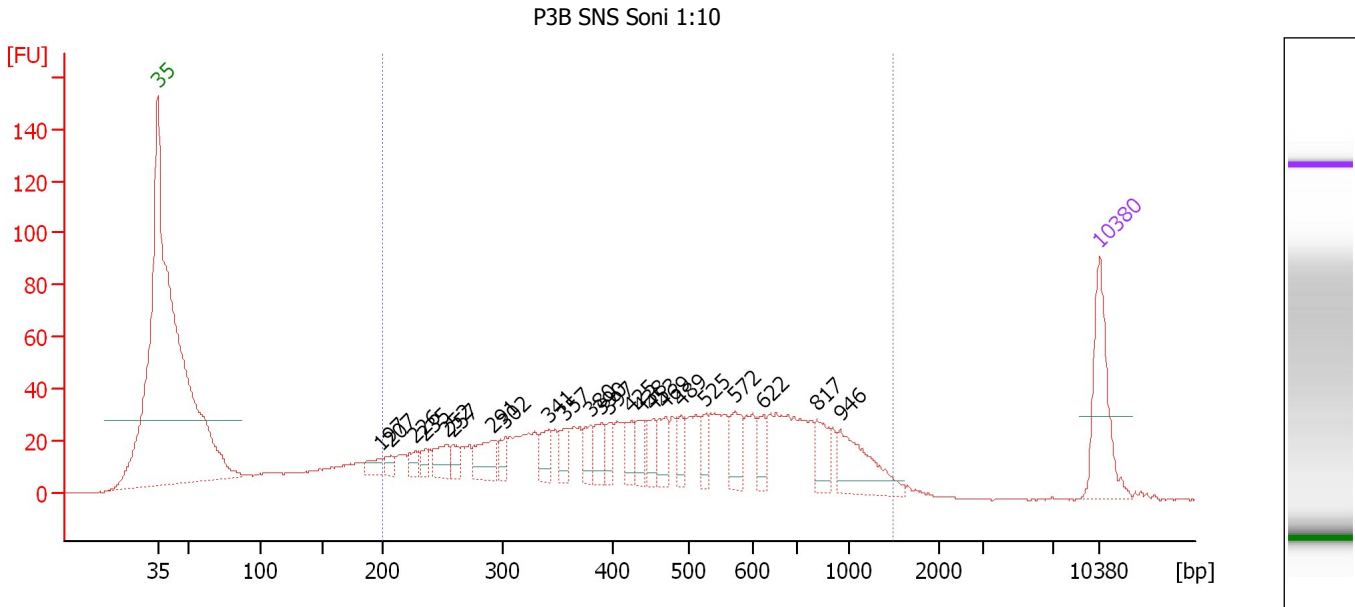
Peak table for Ladder

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:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : P3B SNS Soni 1:10

Number of peaks found: 23 Corr. Area 1: 1,241.6
 Noise: 0.3

Peak table for sample 5 : P3B SNS Soni 1:10


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	197	17.24	132.6	
3	207	12.85	94.2	
4	226	16.36	109.5	
5	235	14.14	91.3	
6	252	30.56	183.6	
7	257	18.09	106.5	
8	291	46.32	241.5	
9	302	19.19	96.5	
10	341	27.37	121.6	
11	357	22.06	93.7	
12	380	23.71	94.4	
13	390	28.97	112.5	
14	397	19.94	76.1	
15	425	23.22	82.8	
16	438	23.66	81.9	
17	453	26.86	89.8	
18	469	32.07	103.6	
19	489	21.28	66.0	
20	525	21.08	60.8	
21	572	34.29	90.9	
22	622	21.98	53.6	
23	817	32.17	59.7	
24	946	68.76	110.2	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...

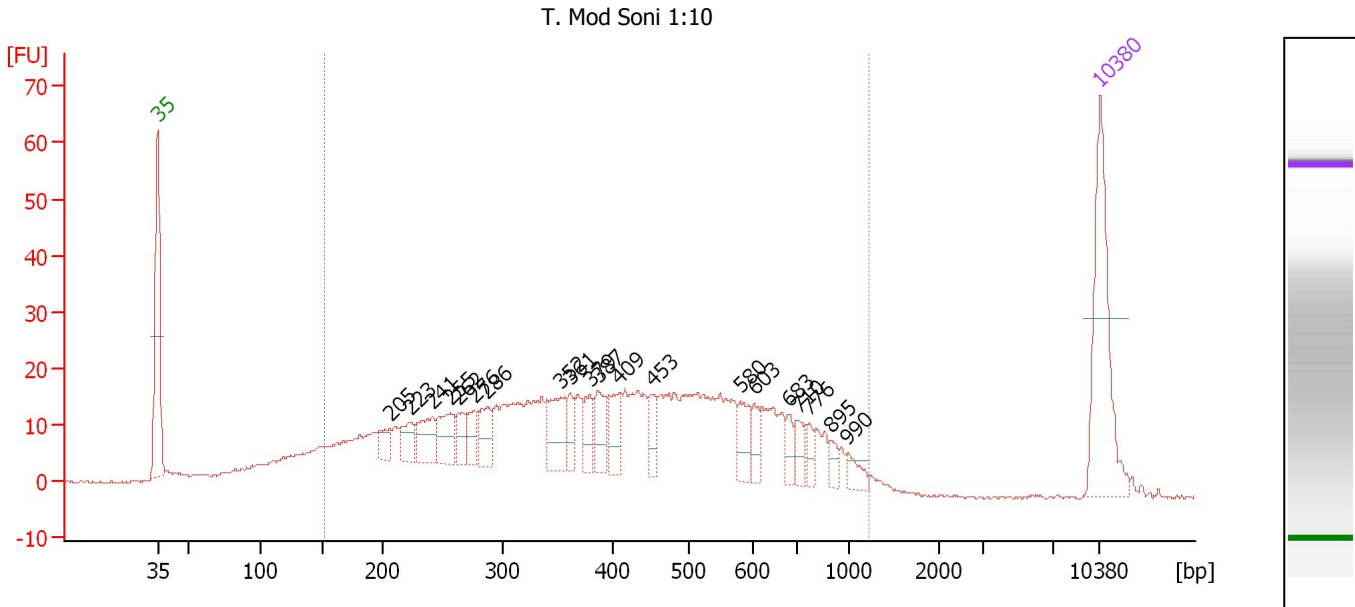
... Region table for sample 5 : P3B SNS Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,485	516	5,114.7	1,323.87	1,241.6	85	47.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : T. Mod Soni 1:10

Number of peaks found: 20 Corr. Area 1: 749.6
 Noise: 0.2

Peak table for sample 6 : T. Mod Soni 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	205	14.26	105.2	
3	223	18.52	125.8	
4	241	28.74	180.6	
5	255	29.37	174.4	
6	262	17.98	103.8	
7	276	14.99	82.3	
8	286	23.56	125.0	
9	352	36.92	158.7	
10	361	15.97	67.0	
11	379	19.96	79.7	
12	387	24.30	95.2	
13	409	22.52	83.4	
14	453	16.32	54.6	
15	580	21.01	54.9	
16	603	13.56	34.0	
17	683	11.18	24.8	
18	710	13.54	28.9	
19	776	9.72	19.0	
20	895	7.63	12.9	
21	990	9.51	14.6	
22	10,380	75.00	10.9	Upper Marker

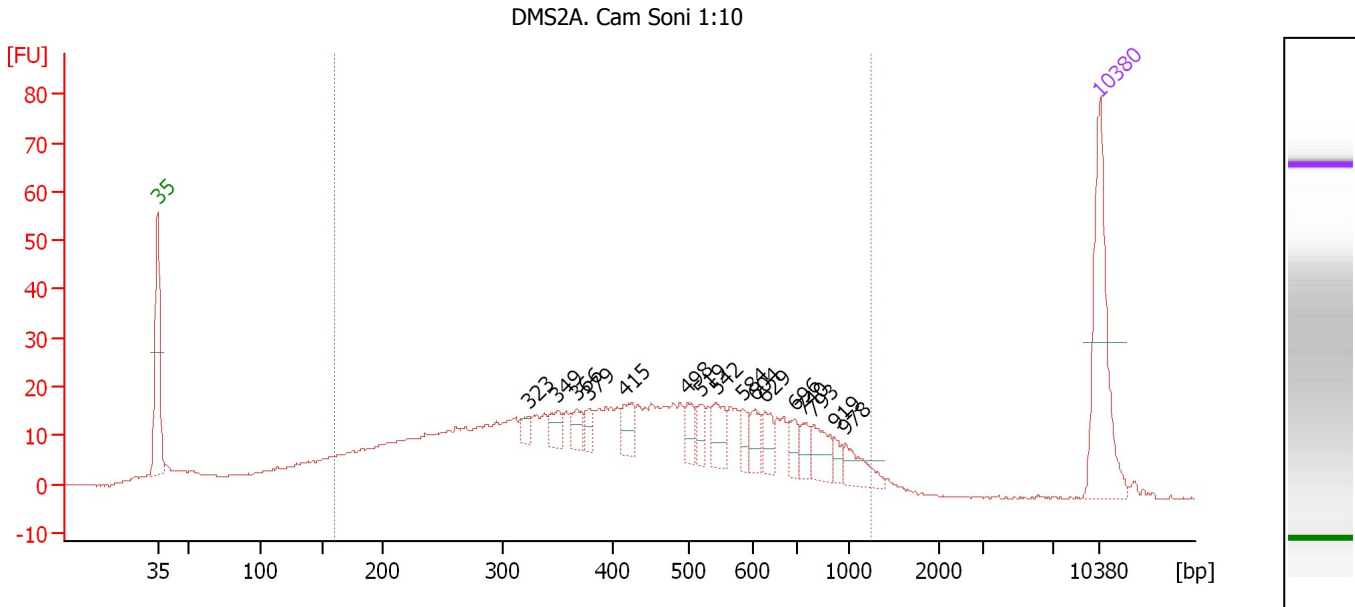
Region table for sample 6 : T. Mod Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
153	1,223	436	5,023.5	1,086.74	749.6	89	44.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DMS2A. Cam Soni 1:10

Number of peaks found: 16 Corr. Area 1: 754.8
 Noise: 0.2

Peak table for sample 7 : DMS2A. Cam Soni 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	323	8.83	41.5	
3	349	13.59	58.9	
4	366	14.02	58.0	
5	379	9.92	39.7	
6	415	18.81	68.7	
7	498	15.13	46.1	
8	519	12.25	35.8	
9	542	21.07	58.9	
10	584	11.20	29.0	
11	604	13.34	33.5	
12	629	14.64	35.3	
13	696	13.23	28.8	
14	740	11.85	24.3	
15	793	21.95	41.9	
16	919	6.17	10.2	
17	978	18.24	28.2	
18	10,380	75.00	10.9	Upper Marker

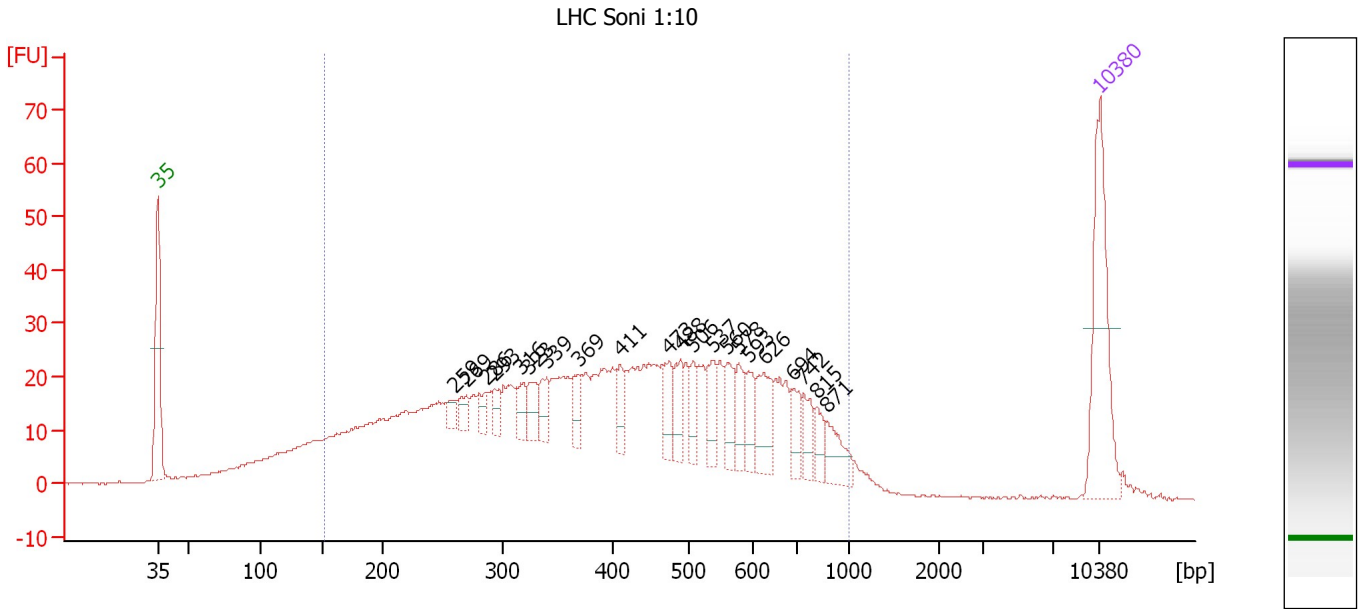
Region table for sample 7 : DMS2A. Cam Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
160	1,231	457	4,478.2	1,017.02	754.8	86	44.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : LHC Soni 1:10

Number of peaks found: 21 Corr. Area 1: 1,002.0
 Noise: 0.2

Peak table for sample 8 : LHC Soni 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	9.70	56.8	
3	269	12.56	70.8	
4	286	11.05	58.6	
5	293	11.59	59.9	
6	316	14.11	67.7	
7	323	20.08	94.1	
8	339	18.70	83.5	
9	369	17.64	72.4	
10	411	16.86	62.2	
11	473	25.12	80.4	
12	488	23.88	74.2	
13	506	18.37	55.0	
14	537	22.20	62.6	
15	560	24.26	65.7	
16	578	19.38	50.8	
17	593	19.47	49.7	
18	626	32.35	78.3	
19	694	18.25	39.8	
20	742	17.42	35.5	
21	815	13.60	25.3	
22	871	22.93	39.9	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...

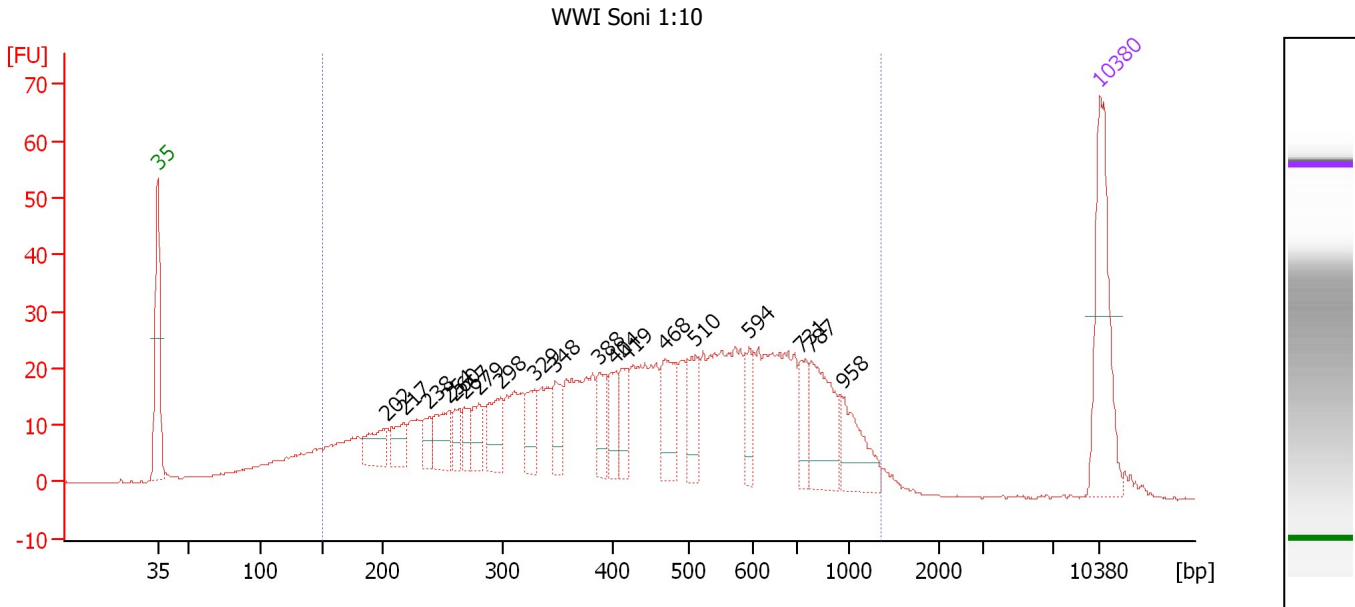
... Region table for sample 8 : LHC Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
152	1,000	433	6,487.2	1,415.02	1,002.0	89	41.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WWI Soni 1:10

Number of peaks found: 19 Corr. Area 1: 965.3
 Noise: 0.1

Peak table for sample 9 : WWI Soni 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	32.82	245.7	
3	217	23.20	162.1	
4	238	17.77	113.1	
5	254	35.49	211.6	
6	260	17.69	103.1	
7	267	16.70	94.7	
8	279	24.81	134.7	
9	298	35.16	179.0	
10	329	27.99	129.0	
11	348	26.29	114.6	
12	388	27.22	106.4	
13	404	25.37	95.2	
14	419	24.46	88.4	
15	468	44.24	143.3	
16	510	34.31	101.9	
17	594	22.75	58.1	
18	731	25.66	53.2	
19	787	59.36	114.3	
20	958	39.60	62.7	
21	10,380	75.00	10.9	Upper Marker

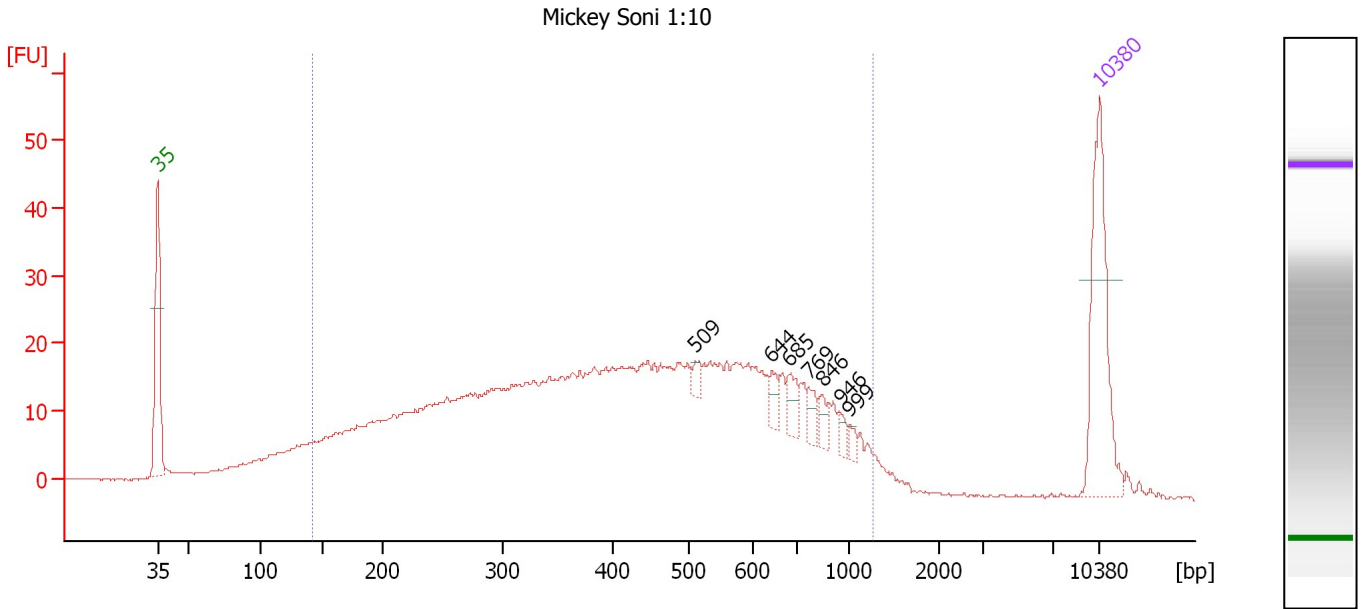
Region table for sample 9 : WWI Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
151	1,344	486	5,979.2	1,399.48	965.3	91	46.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Mickey Soni 1:10

Number of peaks found: 7 Corr. Area 1: 806.3
 Noise: 0.1

Peak table for sample 10 : Mickey Soni 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	509	6.43	19.1	
3	644	9.88	23.3	
4	685	14.74	32.6	
5	769	9.32	18.4	
6	846	8.93	16.0	
7	946	5.57	8.9	
8	999	4.68	7.1	
9	10,380	75.00	10.9	Upper Marker

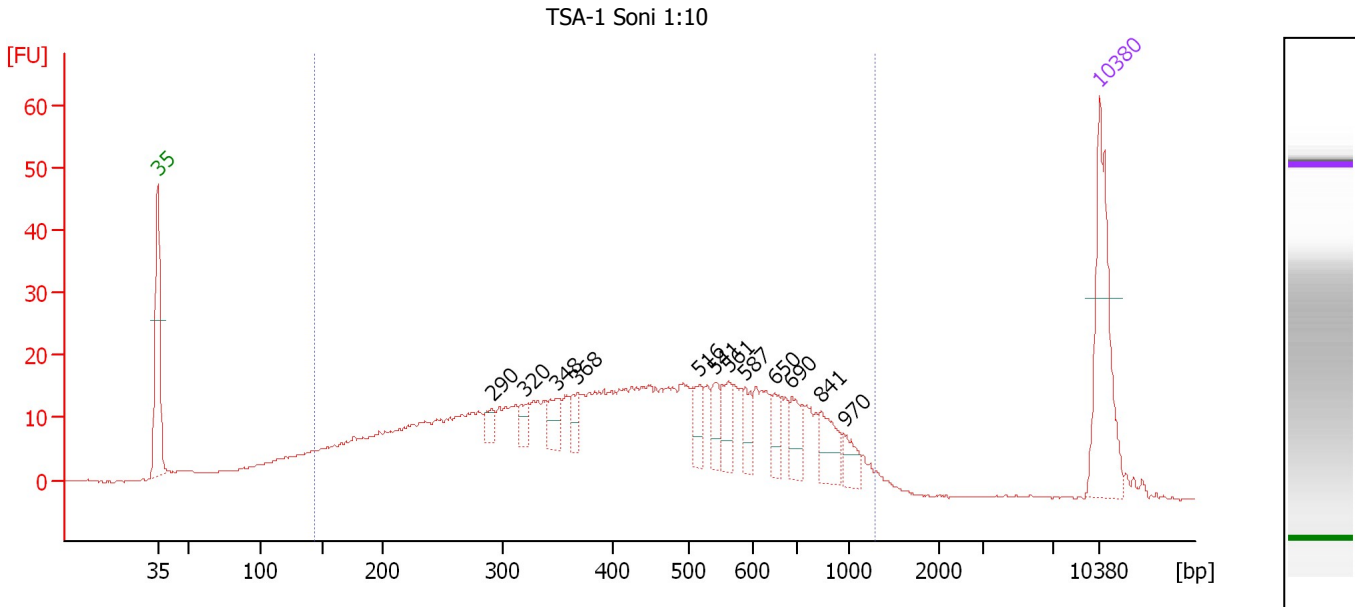
Region table for sample 10 : Mickey Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
142	1,257	456	6,186.1	1,352.25	806.3	91	46.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : TSA-1 Soni 1:10

Number of peaks found: 12 Corr. Area 1: 705.3
 Noise: 0.1

Peak table for sample 11 : TSA-1 Soni 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	12.26	64.0	
3	320	13.63	64.6	
4	348	18.97	82.5	
5	368	13.85	57.0	
6	516	20.87	61.3	
7	541	17.50	49.0	
8	561	20.93	56.5	
9	587	14.87	38.4	
10	650	16.59	38.7	
11	690	21.87	48.0	
12	841	26.33	47.4	
13	970	12.94	20.2	
14	10,380	75.00	10.9	Upper Marker

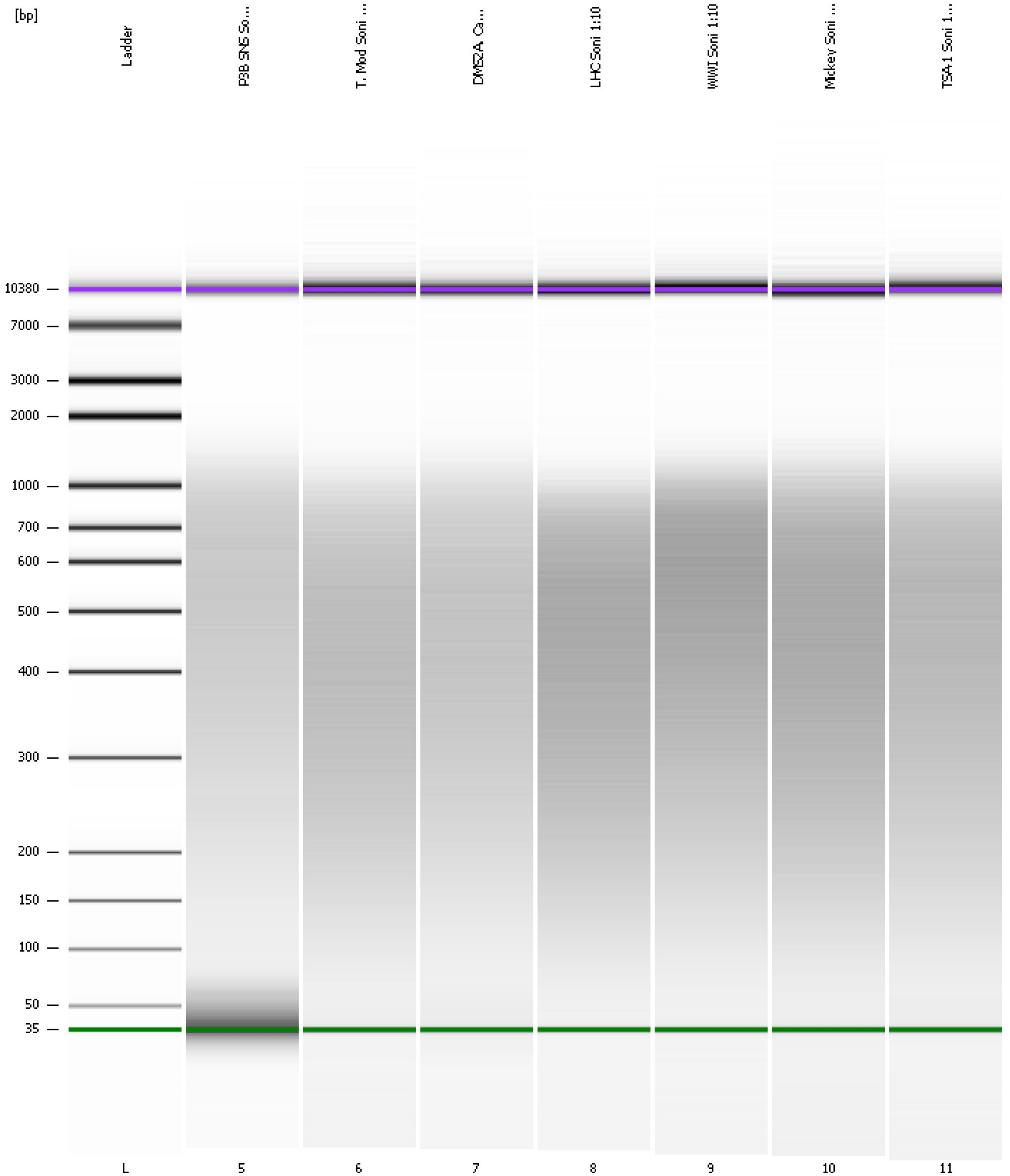
Region table for sample 11 : TSA-1 Soni 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
144	1,291	457	5,419.6	1,196.82	705.3	91	45.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
Modified: 2/21/2013 4:46:27 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2013-02-21\2013-02-21_004_TL-ER_Soni.xad

Created: 2/21/2013 3:49:49 PM
 Modified: 2/21/2013 4:46:27 PM

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		2/21/2013 4:31:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-21\2013-02-21_004.xad)		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/21/2013 3:49:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1