

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-18\2014-09-18_004.xad

Created: 9/18/2014 4:02:05 PM
Modified: 9/18/2014 4:30:45 PM

Electrophoresis File Run Summary

Instrument Information:

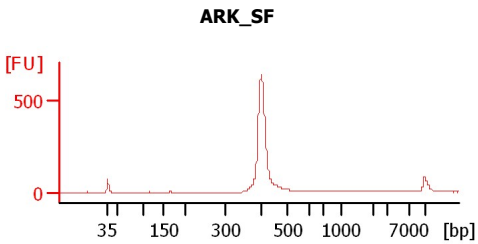
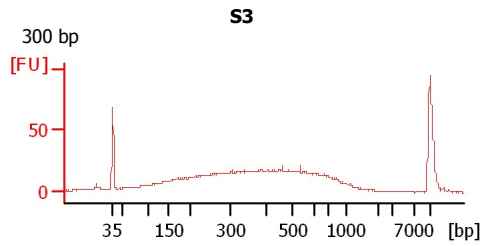
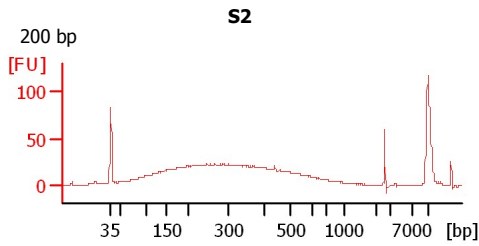
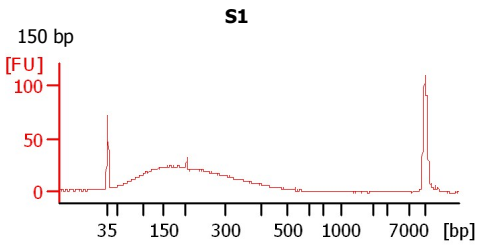
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
S1	150 bp	<input type="checkbox"/>	✓			
S2	200 bp	<input type="checkbox"/>	✓			
S3	300 bp	<input type="checkbox"/>	✓			
ARK_SF		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>				
sample 6		<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 :

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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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

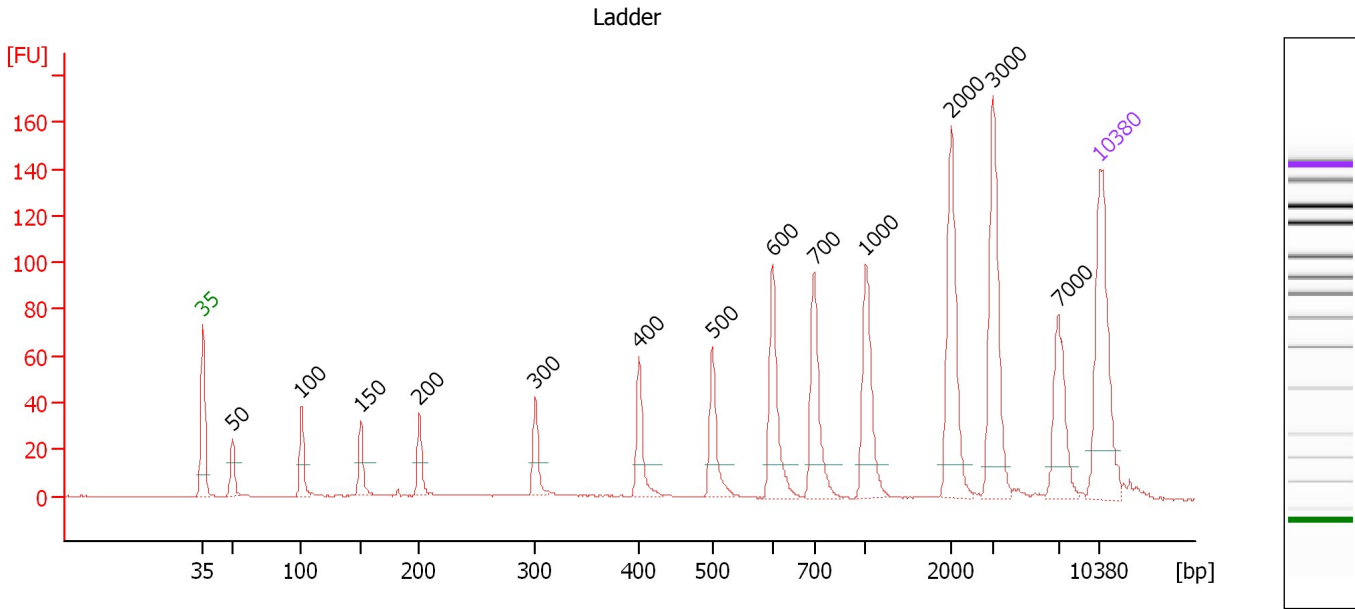
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

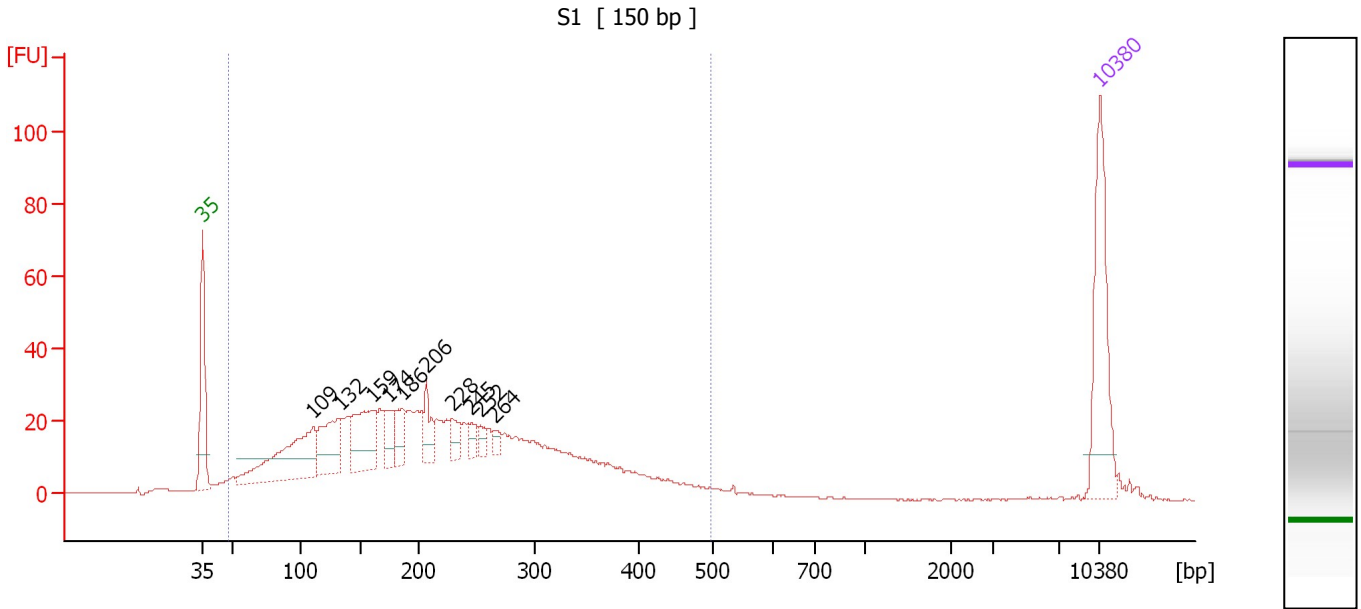
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : S1

Number of peaks found: 10 Corr. Area 1: 923.2
 Noise: 0.2

Peak table for sample 1 : S1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	109	133.57	1,851.2	
3	132	68.45	783.9	
4	159	79.62	756.4	
5	174	27.13	236.8	
6	186	27.04	220.5	
7	206	26.68	196.2	
8	228	17.32	115.1	
9	245	12.83	79.4	
10	252	8.61	51.7	
11	264	7.57	43.4	
12	10,380	75.00	10.9	Upper Marker

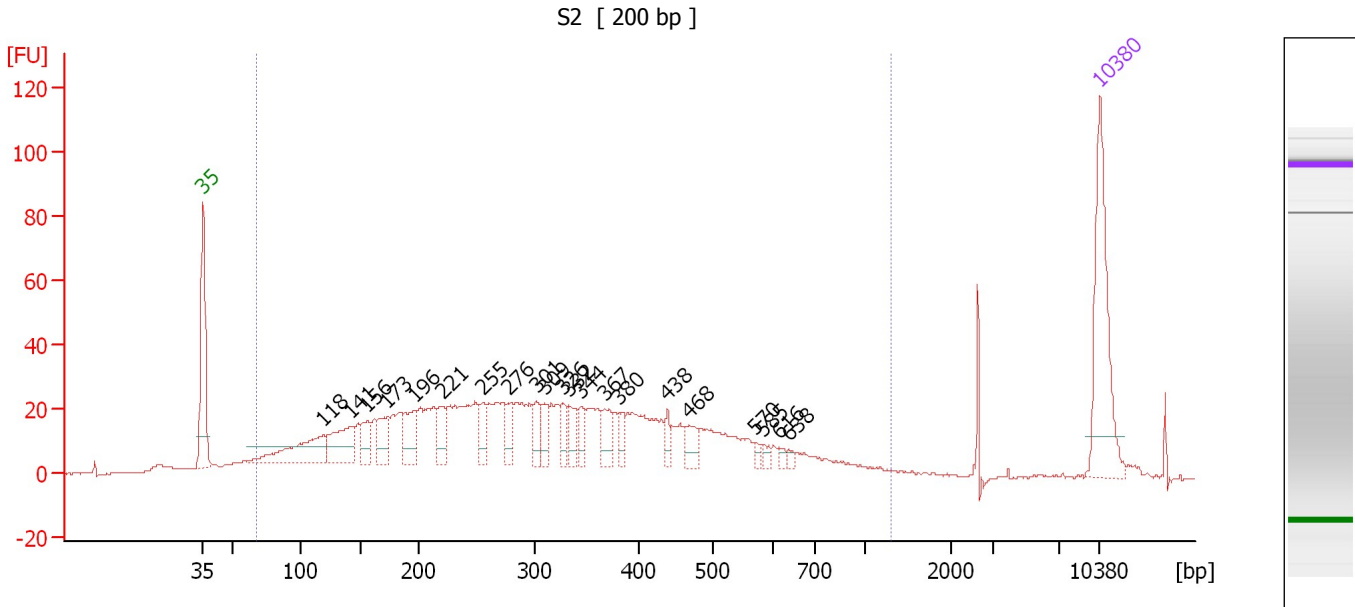
Region table for sample 1 : S1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
48	218	497	923.2	96	43.9	1,149.38	11,044.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : S2

Number of peaks found: 21 Corr. Area 1: 1,134.9
 Noise: 0.2

Peak table for sample 2 : S2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	118	69.16	887.5	
3	141	54.59	586.1	
4	156	20.63	200.8	
5	173	27.04	237.4	
6	196	35.11	271.2	
7	221	26.21	180.1	
8	255	18.54	110.2	
9	276	18.94	104.0	
10	301	18.07	91.1	
11	309	16.31	80.1	
12	326	15.49	72.0	
13	332	17.92	81.7	
14	344	14.20	62.5	
15	367	18.90	78.0	
16	380	11.92	47.5	
17	438	10.05	34.8	
18	468	16.48	53.4	
19	570	4.51	12.0	
20	585	4.50	11.6	
21	616	3.69	9.1	
22	638	3.22	7.6	
23	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

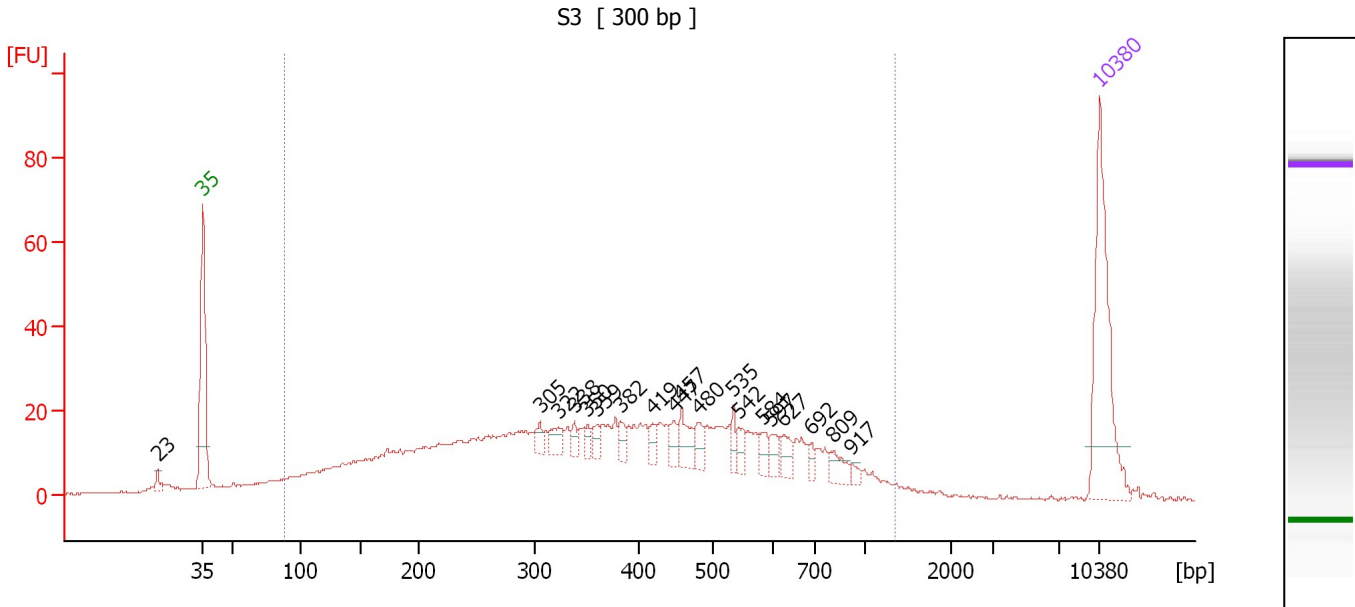
... Region table for sample 2 : S2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
68	331	1,288	1,134.9	92	52.9	1,198.01	8,391.2	

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Electropherogram Summary Continued ...



Overall Results for sample 3 : S3

Number of peaks found: 19 Corr. Area 1: 871.7
 Noise: 0.2

Peak table for sample 3 : S3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	23	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	305	8.39	41.7	
4	322	11.86	55.7	
5	338	6.60	29.6	
6	350	6.69	29.0	
7	359	7.43	31.4	
8	382	7.65	30.3	
9	419	7.54	27.3	
10	447	9.35	31.7	
11	457	17.60	58.3	
12	480	11.20	35.3	
13	535	8.66	24.5	
14	542	8.01	22.4	
15	584	8.61	22.3	
16	597	8.84	22.4	
17	627	9.92	24.0	
18	692	5.42	11.9	
19	809	10.62	19.9	
20	917	3.52	5.8	
21	10,380	75.00	10.9	Upper Marker

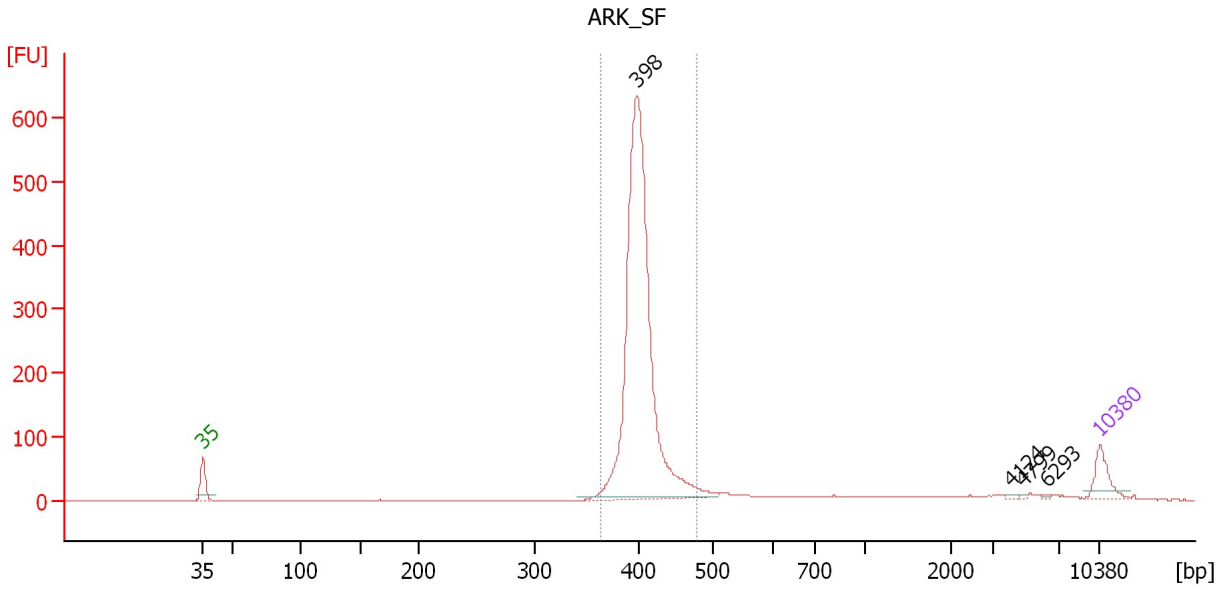
Region table for sample 3 : S3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
88	411	1,351	871.7	91	51.0	1,019.24	5,715.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : ARK_SF

Number of peaks found: 4 Corr. Area 1: 1,744.0
 Noise: 0.1

Peak table for sample 4 : ARK_SF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	398	1,959.37	7,462.0	
3	4,124	5.66	2.1	
4	4,799	3.49	1.1	
5	6,293	3.82	0.9	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : ARK_SF

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
364	404	477	1,744.0	87	4.4	1,946.40	7,320.2	Blue

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Gel Image

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Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

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.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		9/18/2014 4:23:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-18\2014-09-18_004.xad)		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/18/2014 4:02:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1