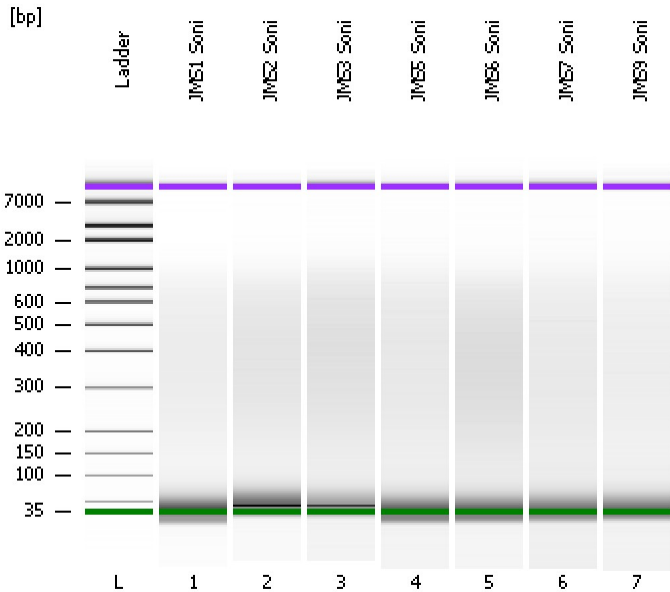


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
Modified: 4/3/2014 1:34:05 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

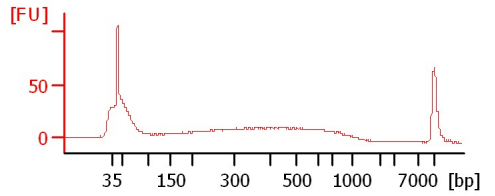
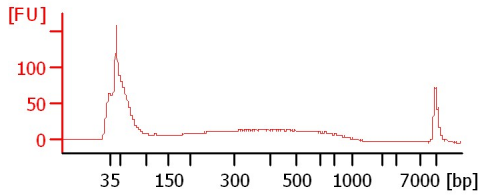
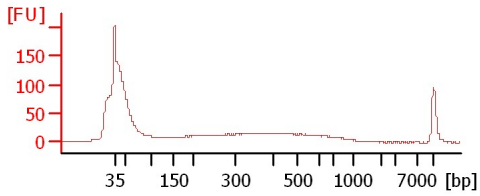
Chip Information:

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

JMS1 Soni

JMS2 Soni

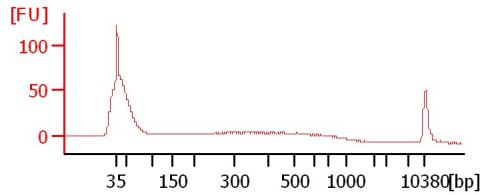
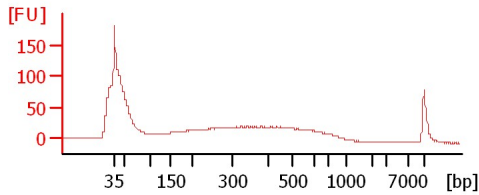
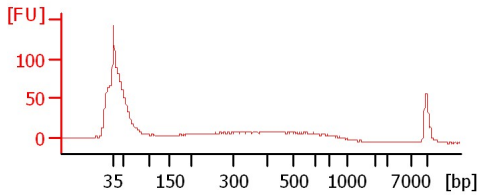
JMS3 Soni



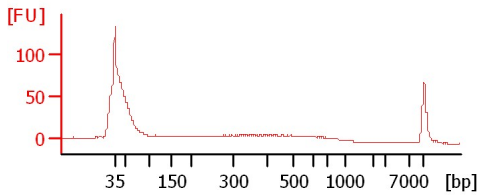
JMS5 Soni

JMS6 Soni

JMS7 Soni



JMS9 Soni



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS1 Soni		<input type="checkbox"/>	✓			
JMS2 Soni		<input type="checkbox"/>	✓			
JMS3 Soni		<input type="checkbox"/>	✓			
JMS5 Soni		<input type="checkbox"/>	✓			
JMS6 Soni		<input type="checkbox"/>	✓			
JMS7 Soni		<input type="checkbox"/>	✓			
JMS9 Soni		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #	Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
Modified: 4/3/2014 1:34:05 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

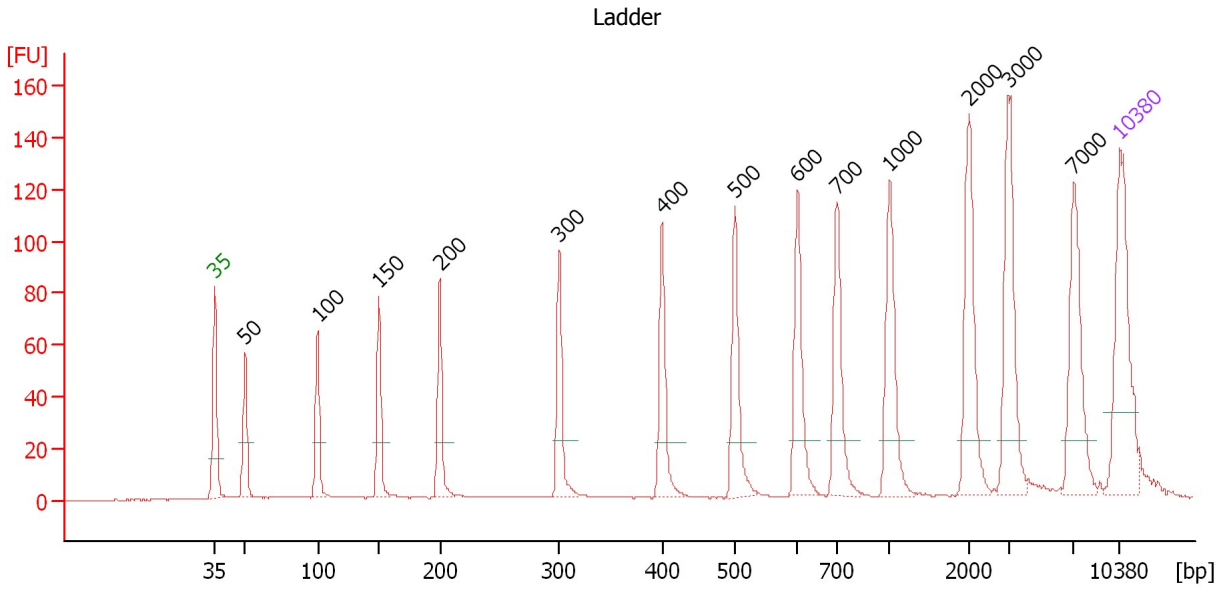
Ladder

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:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

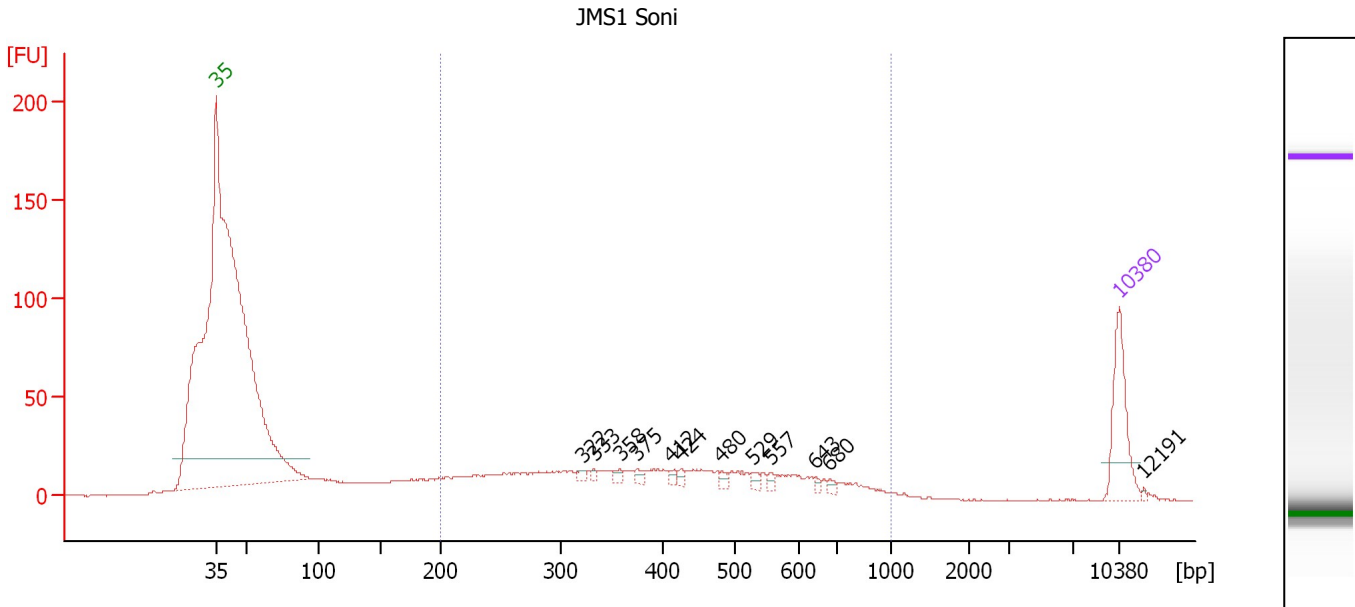
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.35	50	150.00	4,545.5	Ladder Peak
3	50.96	100	150.00	2,272.7	Ladder Peak
4	55.70	150	150.00	1,515.2	Ladder Peak
5	60.41	200	150.00	1,136.4	Ladder Peak
6	69.65	300	150.00	757.6	Ladder Peak
7	77.61	400	150.00	568.2	Ladder Peak
8	83.26	500	150.00	454.5	Ladder Peak
9	88.09	600	150.00	378.8	Ladder Peak
10	91.14	700	150.00	324.7	Ladder Peak
11	95.22	1,000	150.00	227.3	Ladder Peak
12	101.37	2,000	150.00	113.6	Ladder Peak
13	104.38	3,000	150.00	75.8	Ladder Peak
14	109.45	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS1 Soni

Number of peaks found: 12 Corr. Area 1: 580.4
 Noise: 0.3

Peak table for sample 1 : JMS1 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.43	322	6.78	31.9	
3	72.30	333	5.06	23.0	
4	74.28	358	6.87	29.0	
5	75.64	375	8.91	36.0	
6	78.29	412	6.59	24.2	
7	78.95	424	6.40	22.9	
8	82.13	480	7.51	23.7	
9	84.65	529	8.45	24.2	
10	86.02	557	5.71	15.5	
11	89.40	643	4.56	10.7	
12	90.52	680	5.90	13.2	
13	113.00	10,380	75.00	10.9	Upper Marker
14	114.90	12,191	0.00	0.0	

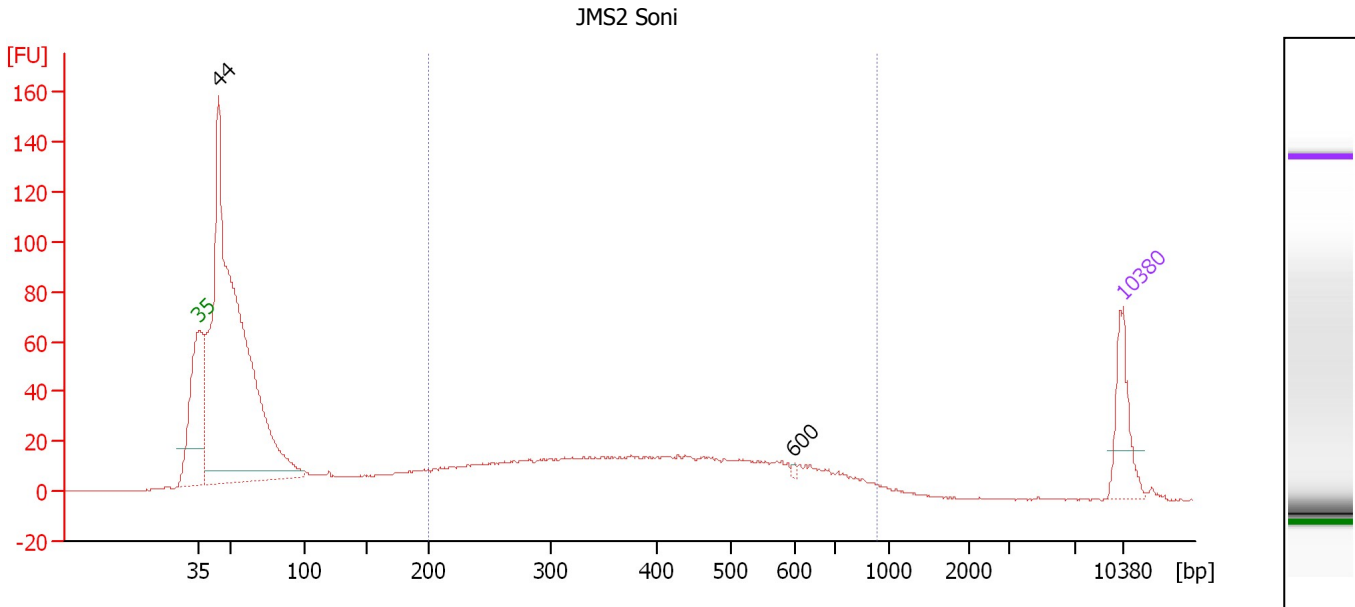
Region table for sample 1 : JMS1 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	424	2,738.2	630.17	580.4	76	38.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS2 Soni

Number of peaks found: 2 Corr. Area 1: 657.1
 Noise: 0.2

Peak table for sample 2 : JMS2 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.45	44	1,797.58	61,505.5	
3	88.06	600	3.98	10.1	
4	113.00	10,380	75.00	10.9	Upper Marker

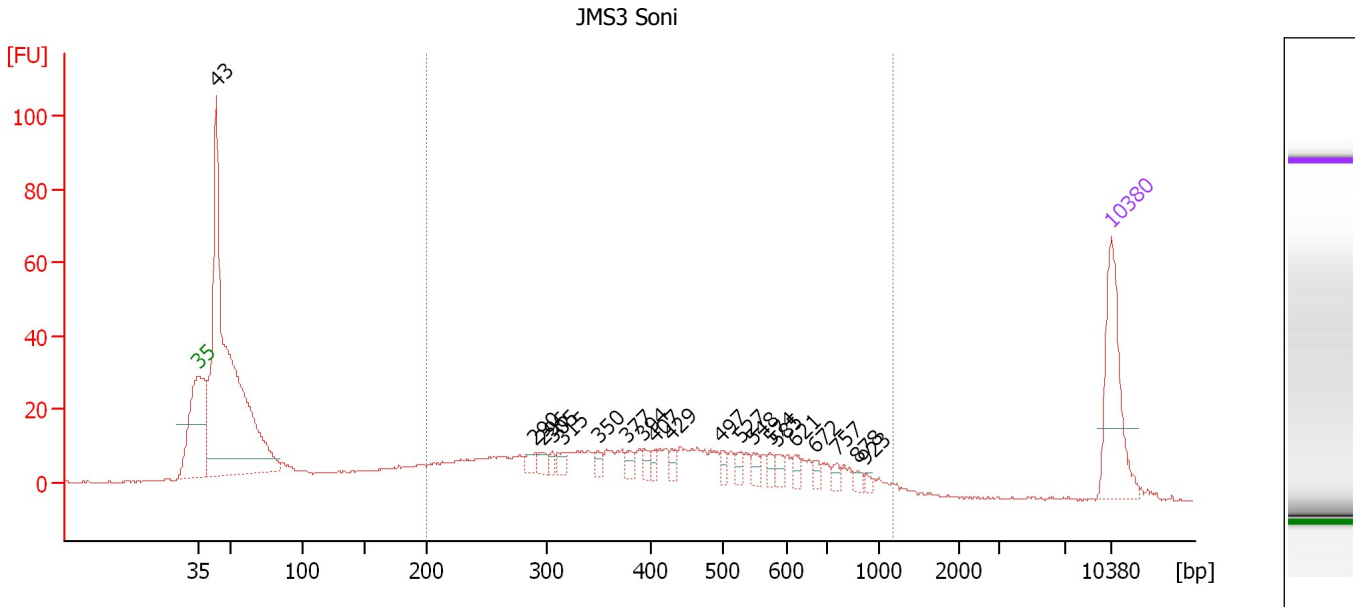
Region table for sample 2 : JMS2 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	936	424	3,933.9	909.69	657.1	36	36.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS3 Soni

Number of peaks found: 20 Corr. Area 1: 486.8
 Noise: 0.2

Peak table for sample 3 : JMS3 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.31	43	710.06	24,813.5	
3	68.71	290	10.26	53.6	
4	69.32	296	10.83	55.3	
5	70.06	305	6.70	33.3	
6	70.88	315	11.08	53.2	
7	73.62	350	8.61	37.3	
8	75.79	377	9.53	38.3	
9	77.10	394	8.22	31.6	
10	78.00	407	7.50	27.9	
11	79.27	429	7.73	27.3	
12	83.12	497	8.11	24.7	
13	84.55	527	8.32	23.9	
14	85.57	548	8.93	24.7	
15	86.84	574	6.75	17.8	
16	87.37	585	8.62	22.3	
17	88.73	621	8.71	21.3	
18	90.28	672	6.80	15.3	
19	91.92	757	6.69	13.4	
20	93.56	878	5.12	8.8	
21	94.17	923	3.28	5.4	
22	113.00	10,380	75.00	10.9	Upper Marker


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

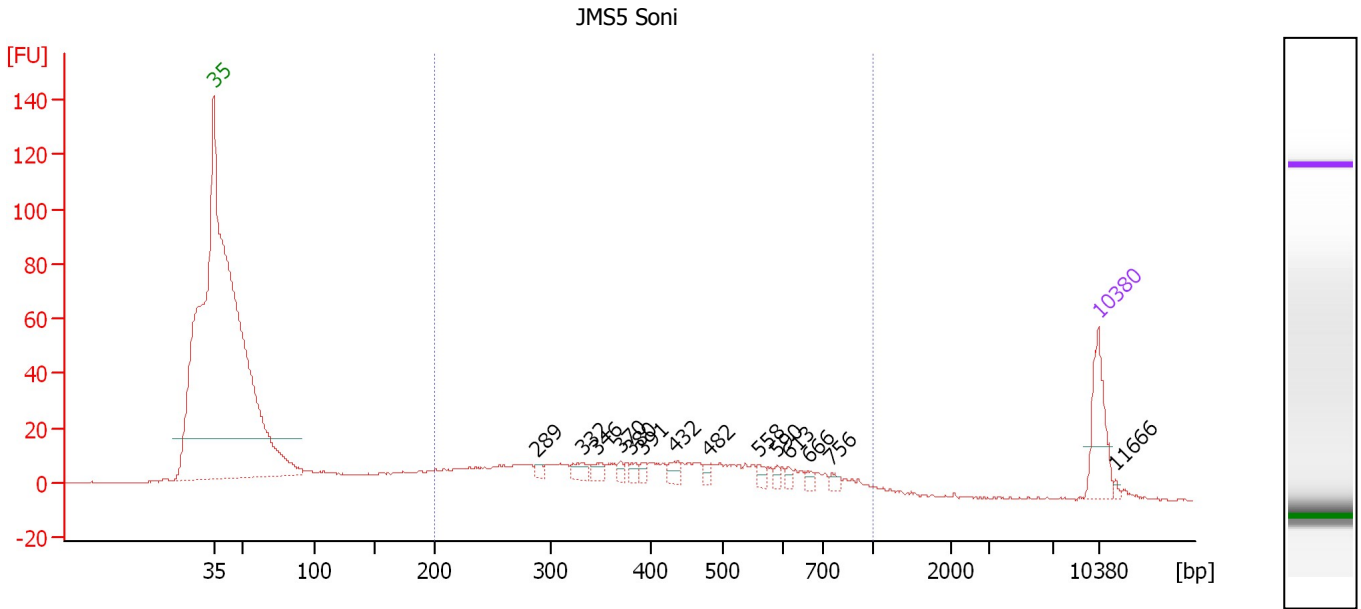
JMS3 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,170	449	2,650.3	632.00	 486.8	46	40.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS5 Soni

Number of peaks found: 14 Corr. Area 1: 431.5
 Noise: 0.3

Peak table for sample 4 : JMS5 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.61	289	10.80	56.7	
3	72.16	332	22.88	104.6	
4	73.34	346	19.25	84.2	
5	75.19	370	9.17	37.6	
6	76.04	380	13.08	52.1	
7	76.92	391	10.37	40.2	
8	79.41	432	18.49	64.8	
9	82.24	482	10.58	33.2	
10	86.08	558	11.74	31.9	
11	87.60	590	8.52	21.9	
12	88.49	613	8.16	20.2	
13	90.09	666	8.27	18.8	
14	91.90	756	10.06	20.2	
15	113.00	10,380	75.00	10.9	Upper Marker
16	114.35	11,666	0.00	0.0	

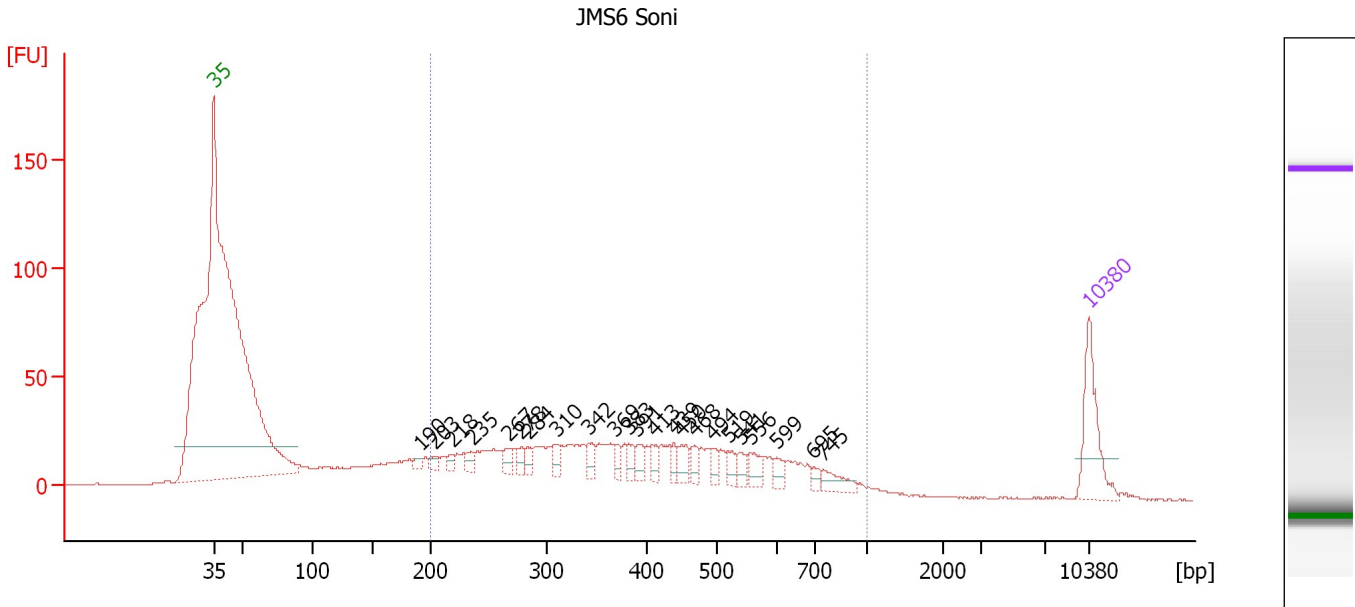
Region table for sample 4 : JMS5 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	437	3,226.5	759.67	431.5	76	38.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS6 Soni

Number of peaks found: 23 Corr. Area 1: 883.5
 Noise: 0.3

Peak table for sample 5 : JMS6 Soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	59.51	190	9.42	75.0	
3	60.70	203	11.42	85.1	
4	62.11	218	10.47	72.6	
5	63.65	235	16.61	107.1	
6	66.59	267	17.99	102.1	
7	67.61	278	17.71	96.5	
8	68.12	284	14.40	76.9	
9	70.47	310	20.49	100.0	
10	73.03	342	21.72	96.1	
11	75.12	369	15.04	61.8	
12	76.23	383	15.01	59.4	
13	76.87	391	19.24	74.6	
14	78.36	413	17.97	65.9	
15	79.81	439	14.51	50.1	
16	80.41	450	24.64	83.0	
17	81.43	468	19.55	63.3	
18	82.93	494	14.46	44.3	
19	84.16	519	18.10	52.9	
20	85.23	541	16.89	47.3	
21	85.96	556	23.10	63.0	
22	88.05	599	15.88	40.2	
23	90.99	695	9.38	20.4	
24	91.76	745	25.77	52.4	
25	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...

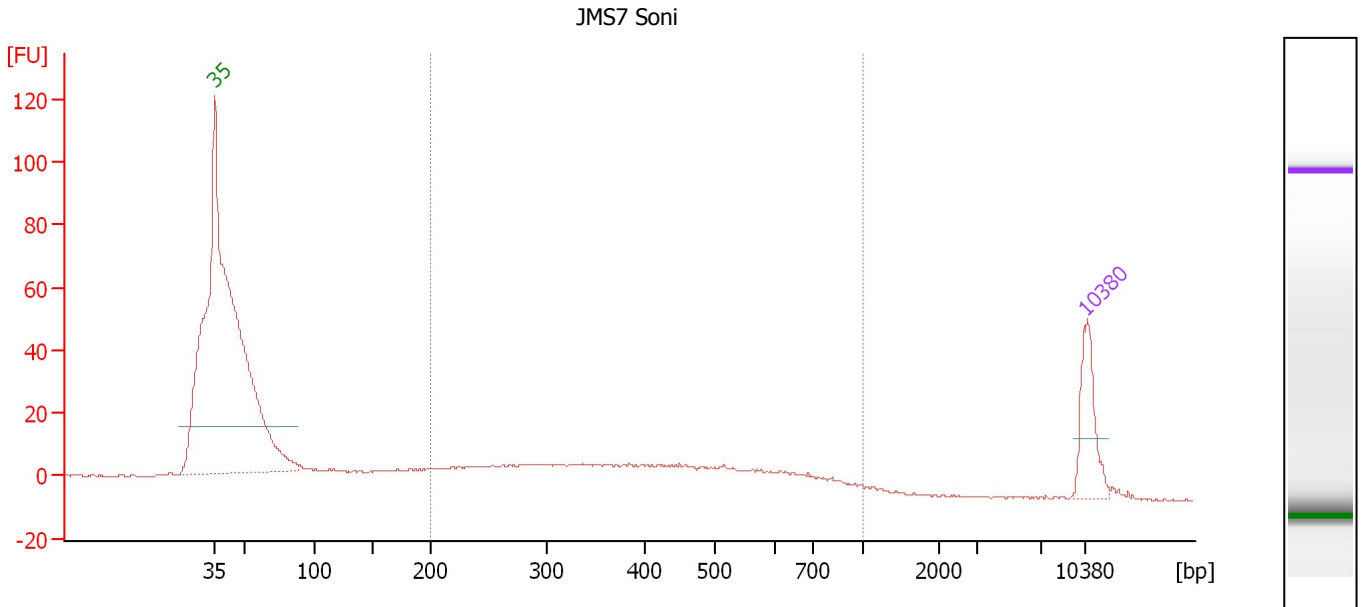
... Region table for sample 5 : JMS6 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	419	4,792.7	1,095.78	■ 883.5	77	37.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JMS7 Soni

Number of peaks found: 0 Corr. Area 1: 284.7
 Noise: 0.2

Peak table for sample 6 : JMS7 Soni

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

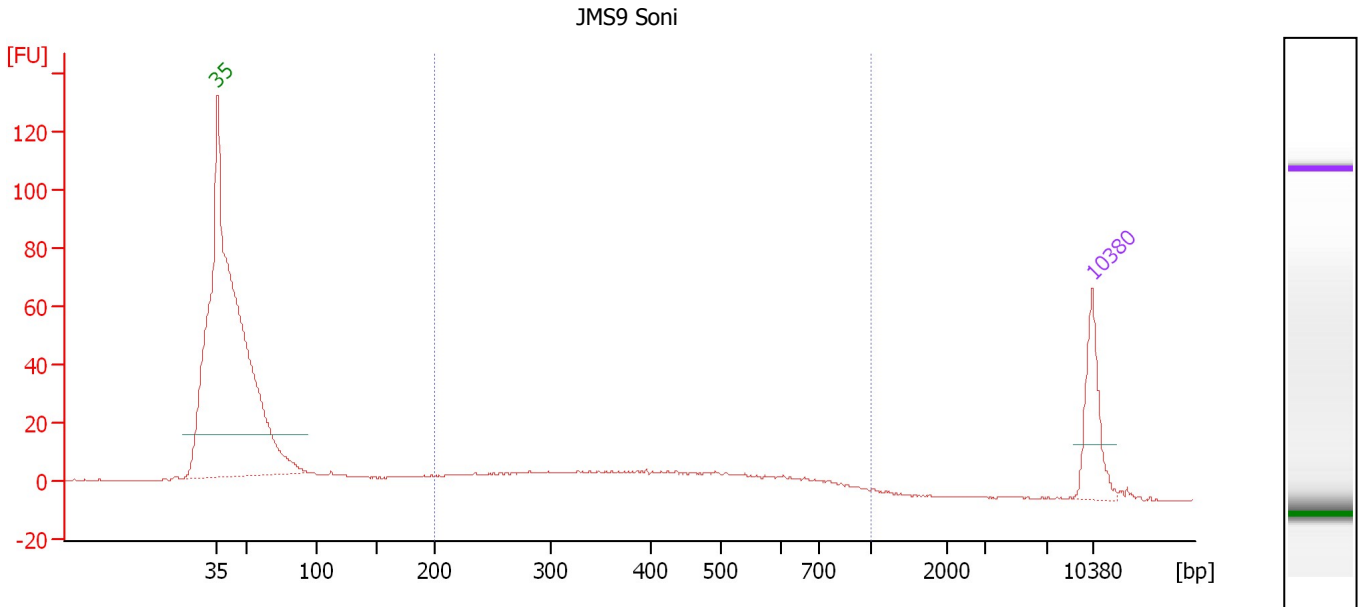
Region table for sample 6 : JMS7 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	431	2,001.9	466.84	284.7	77	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JMS9 Soni

Number of peaks found: 0 Corr. Area 1: 246.9
 Noise: 0.2

Peak table for sample 7 : JMS9 Soni

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

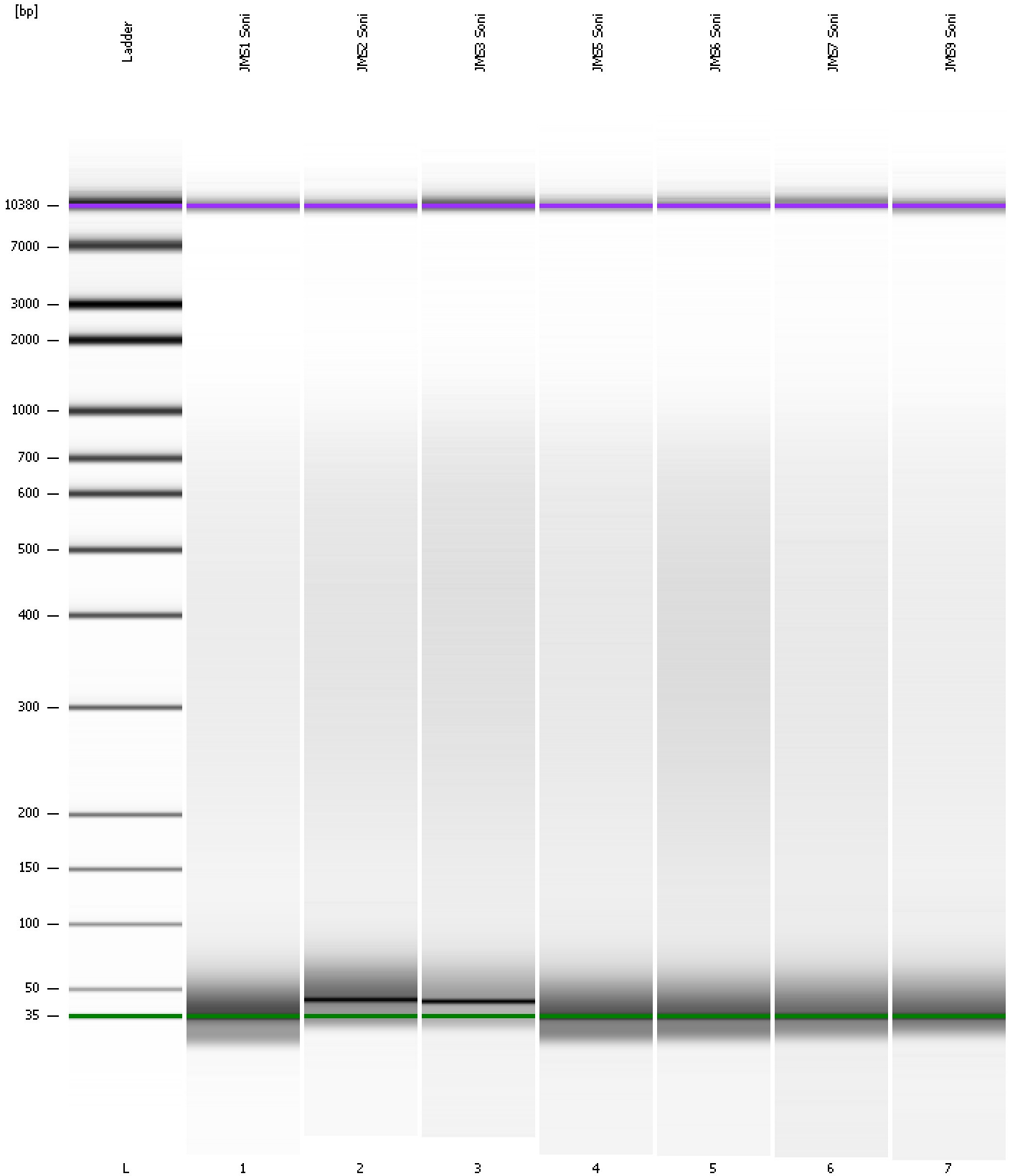
Region table for sample 7 : JMS9 Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	434	1,464.2	344.82	246.9	78	38.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
Modified: 4/3/2014 1:34:05 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nd Settings\Bioanalyzer\2014-04-03\2014-04-03_004_fixed.xad

Created: 4/3/2014 12:47:51 PM
 Modified: 4/3/2014 1:34:05 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		4/3/2014 1:28:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-03\2014-04-03_004.xad)		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2014 12:47:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1