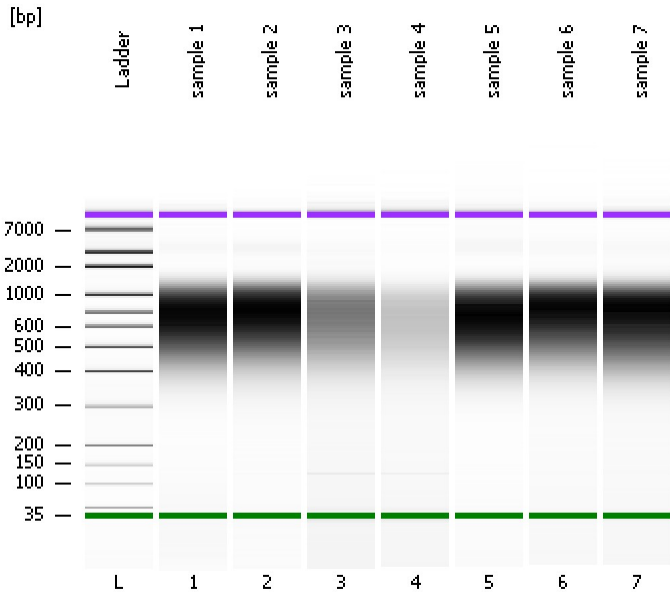


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
Modified: 3/11/2013 4:12:26 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

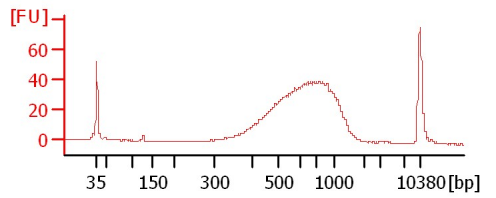
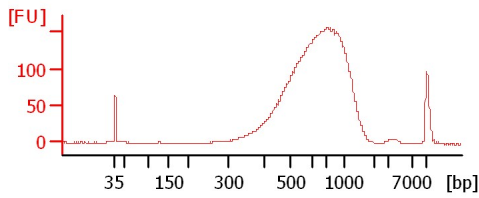
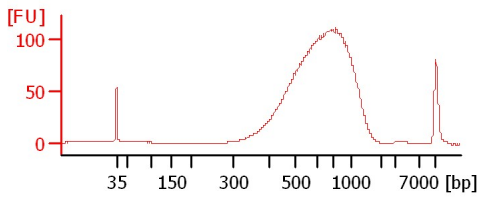
Chip Information:

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

sample 1

sample 2

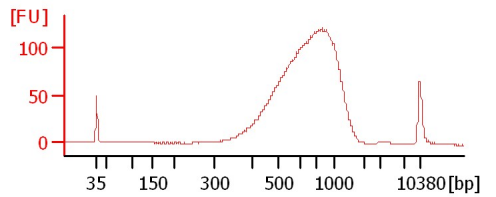
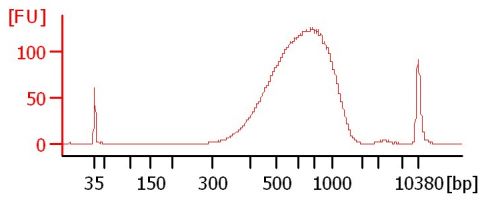
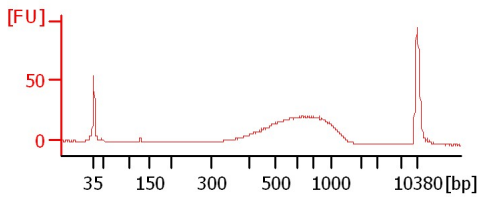
sample 3



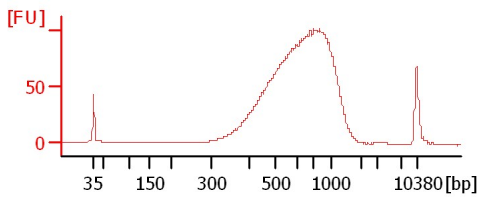
sample 4

sample 5

sample 6



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
Modified: 3/11/2013 4:12:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 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

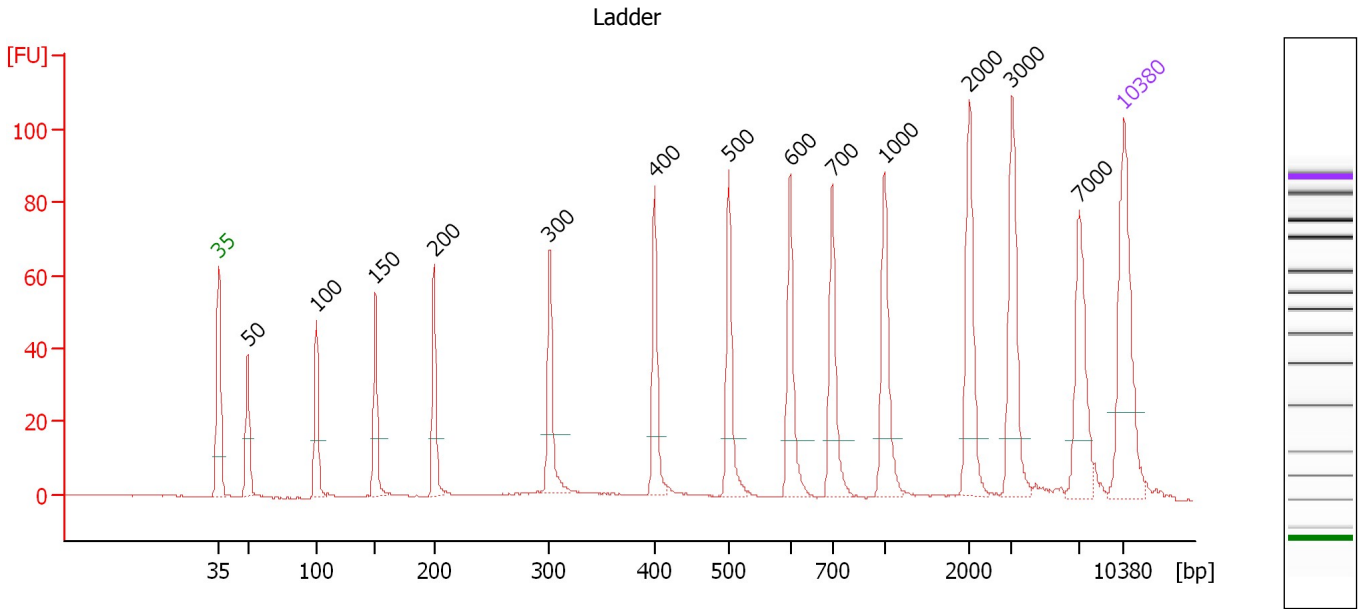
Ladder

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:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

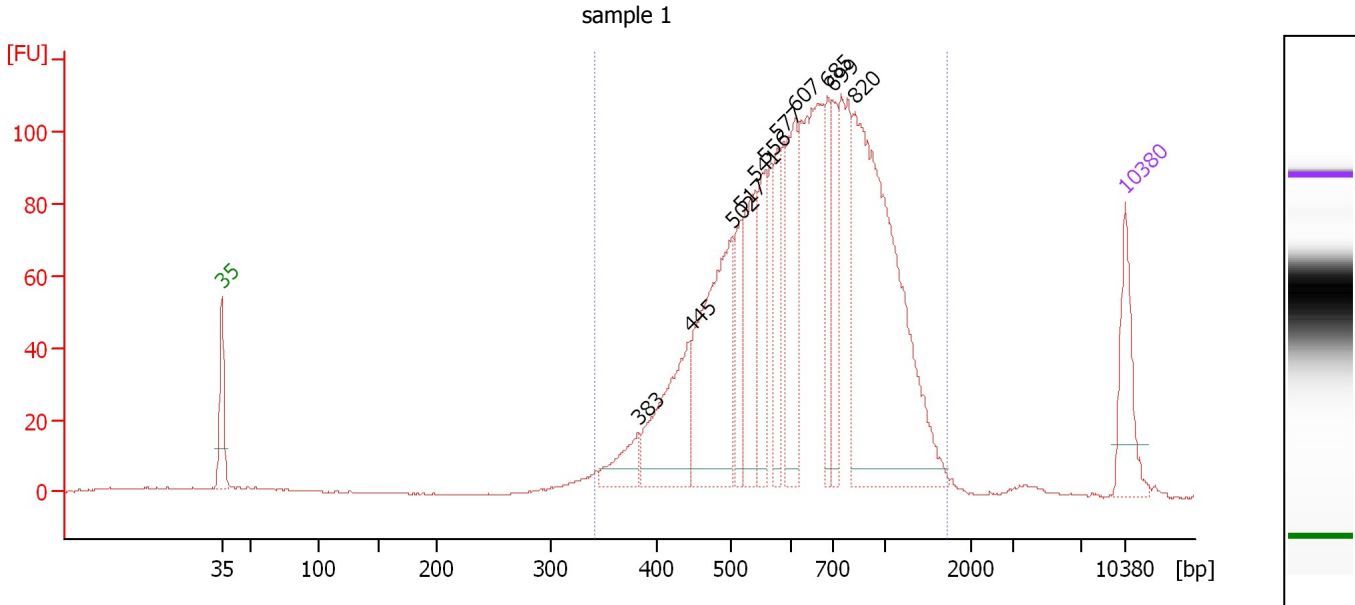
Peak table for Ladder

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:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 11 Corr. Area 1: 2,018.3
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	383	57.59	227.9	
3	445	189.33	644.6	
4	502	319.82	964.6	
5	517	77.22	226.2	
6	541	146.71	411.1	
7	556	109.06	297.0	
8	577	78.15	205.1	
9	607	149.10	371.9	
10	685	88.11	194.9	
11	699	88.03	190.9	
12	820	593.52	1,097.1	
13	10,380	75.00	10.9	Upper Marker

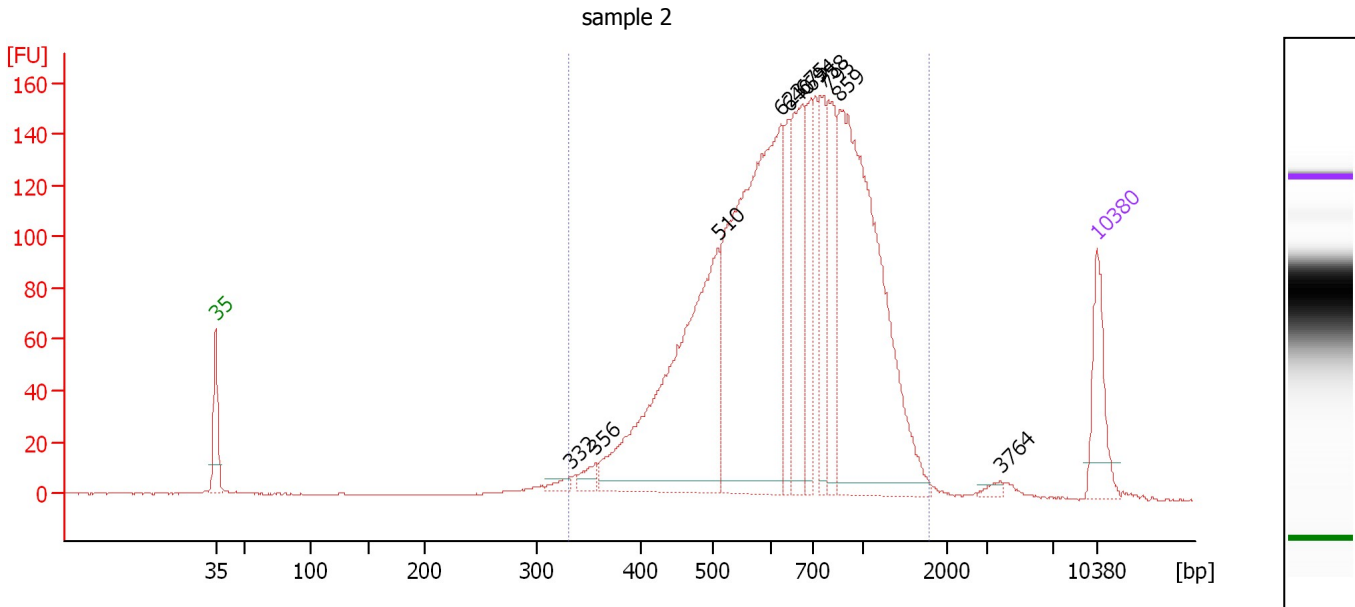
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
341	1,715	696	6,508.0	2,615.11	2,018.3	95	35.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 11 Corr. Area 1: 2,818.8
 Noise: 0.2

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	13.28	60.6	
3	356	23.43	99.7	
4	510	610.03	1,811.8	
5	623	743.13	1,808.4	
6	640	96.93	229.6	
7	675	208.34	467.9	
8	694	102.72	224.2	
9	758	123.36	246.5	
10	793	140.98	269.4	
11	859	664.19	1,171.8	
12	3,764	6.99	2.8	
13	10,380	75.00	10.9	Upper Marker

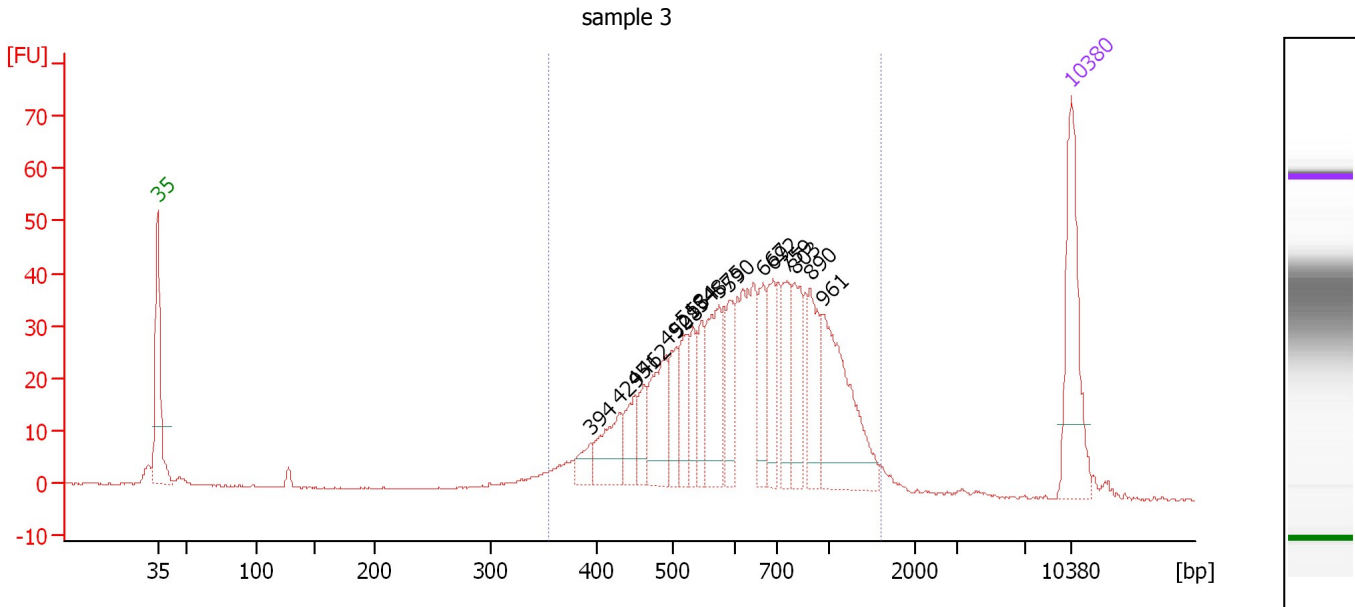
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	1,786	717	7,092.8	2,905.04	2,818.8	97	36.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 17 Corr. Area 1: 756.9
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	15.82	60.8	
3	429	43.90	155.0	
4	451	28.98	97.4	
5	462	22.63	74.2	
6	492	62.94	193.9	
7	508	32.45	96.7	
8	518	34.95	102.2	
9	534	27.32	77.5	
10	548	27.82	77.0	
11	575	65.91	173.7	
12	590	36.75	94.3	
13	667	39.47	89.6	
14	692	42.90	93.9	
15	759	41.72	83.3	
16	803	49.14	92.7	
17	890	49.17	83.7	
18	961	111.65	176.1	
19	10,380	75.00	10.9	Upper Marker

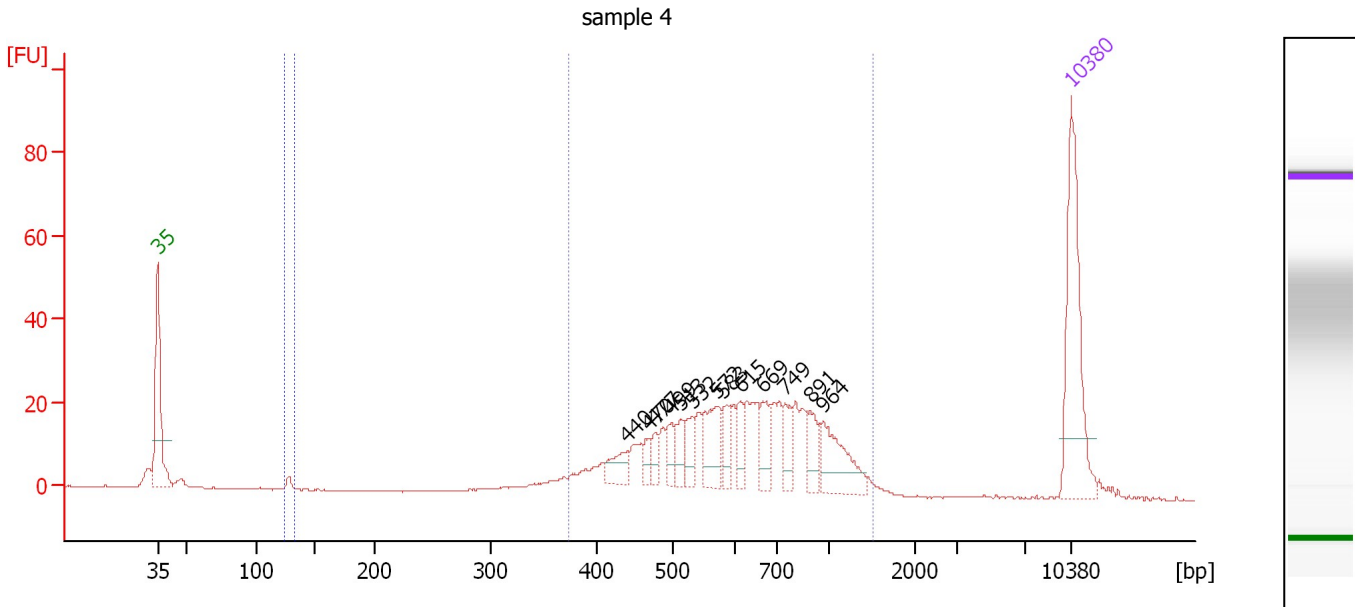
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
355	1,614	697	2,401.9	965.20	756.9	93	35.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 13 Corr. Area 1: 421.1
 Noise: 0.1 Corr. Area 2: 2.6

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	440	17.24	59.3	
3	470	9.94	32.1	
4	477	9.67	30.7	
5	499	13.19	40.1	
6	513	13.72	40.5	
7	532	15.08	43.0	
8	572	32.28	85.5	
9	583	13.62	35.4	
10	615	14.96	36.8	
11	669	19.56	44.3	
12	749	16.67	33.7	
13	891	17.90	30.4	
14	964	38.01	59.8	
15	10,380	75.00	10.9	Upper Marker

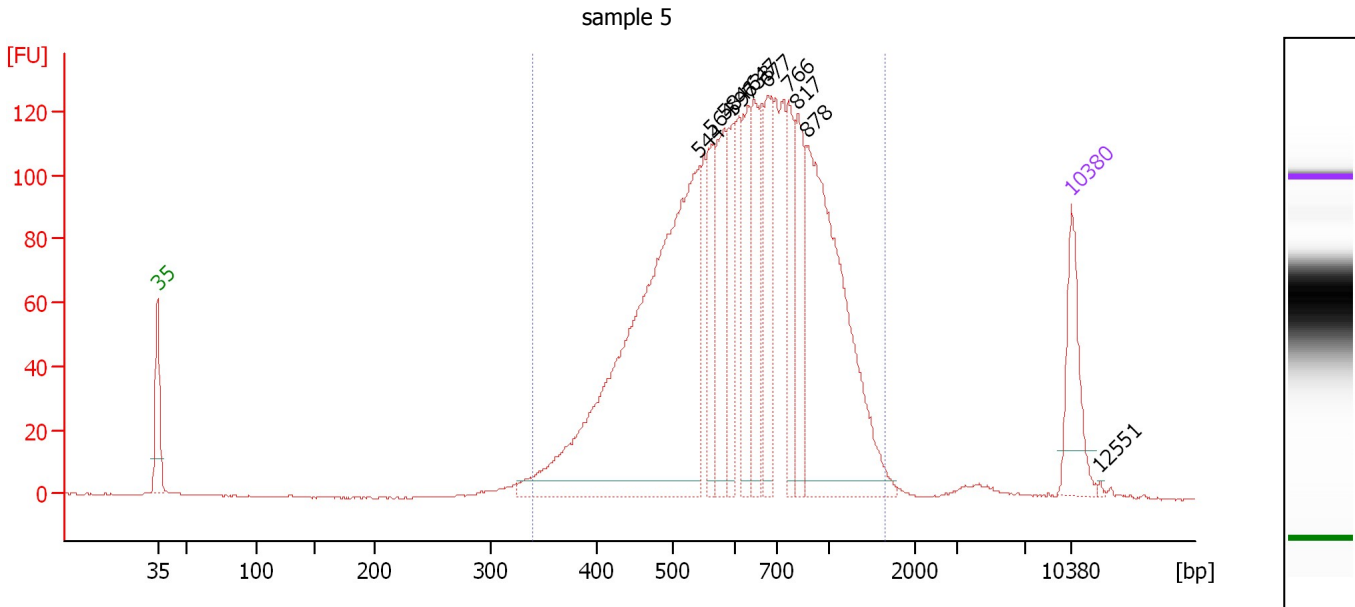
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
125	132	128	46.9	3.95	2.6	1	1.4	Blue
374	1,516	672	1,079.0	425.26	421.1	89	33.1	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 11 Corr. Area 1: 2,302.3
 Noise: 0.1

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	544	828.85	2,308.8	
3	564	84.53	227.1	
4	584	143.34	371.8	
5	597	85.65	217.5	
6	633	108.92	260.8	
7	647	124.80	292.4	
8	677	112.98	252.7	
9	766	92.42	182.7	
10	817	109.94	203.9	
11	878	428.12	739.0	
12	10,380	75.00	10.9	Upper Marker
13	12,551	0.00	0.0	

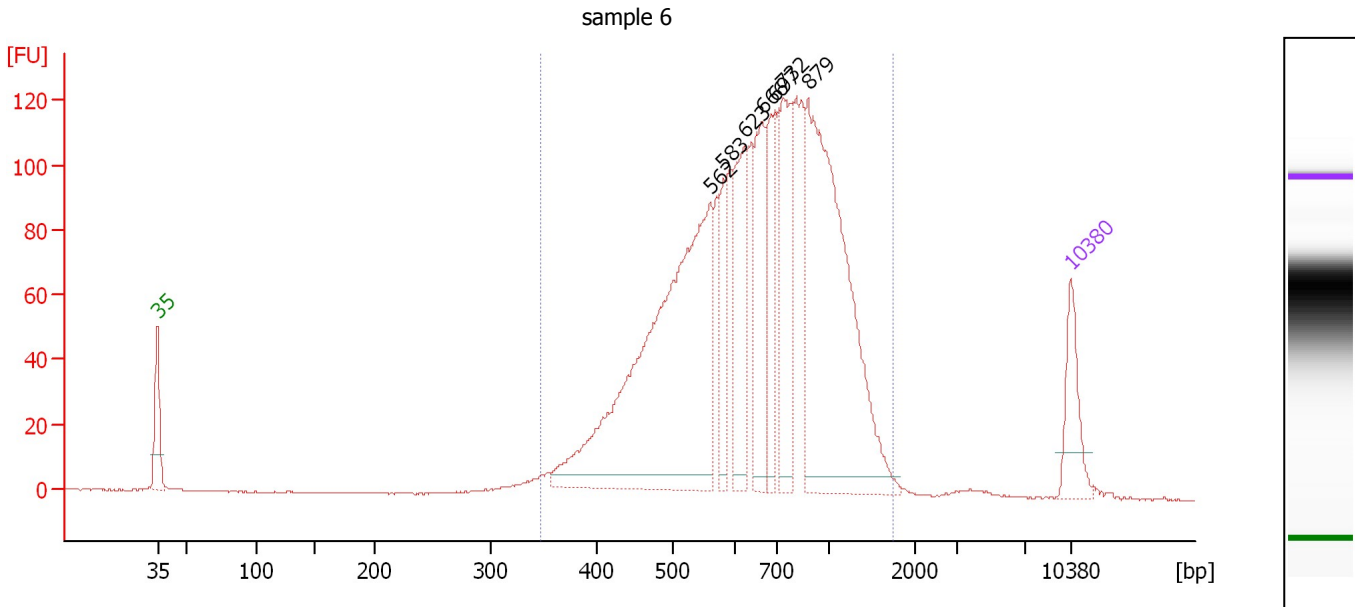
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
340	1,645	684	6,236.5	2,473.23	2,302.3	97	34.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 7 Corr. Area 1: 2,055.4
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	562	896.80	2,417.7	
3	583	96.53	250.8	
4	623	183.30	445.5	
5	666	190.11	432.8	
6	697	143.62	312.4	
7	732	219.74	454.6	
8	879	675.98	1,165.8	
9	10,380	75.00	10.9	Upper Marker

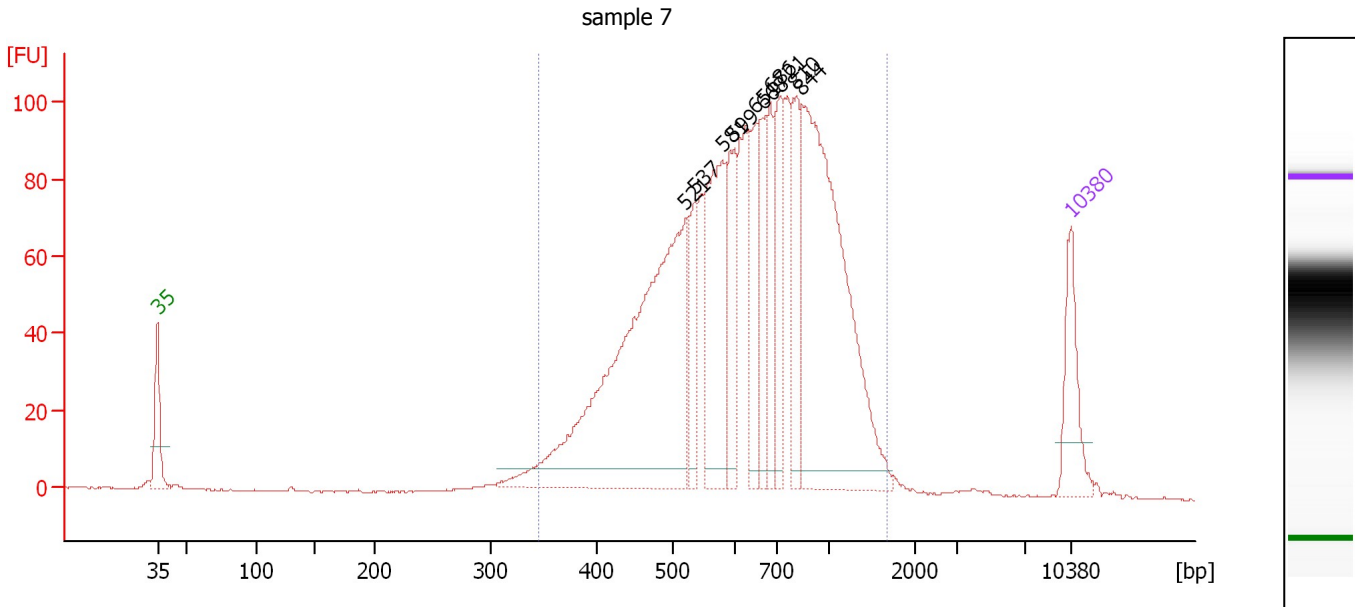
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
347	1,746	727	7,120.7	2,977.23	2,055.4	98	35.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 10 Corr. Area 1: 1,878.8
 Noise: 0.1

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	521	747.10	2,170.6	
3	537	78.11	220.4	
4	581	234.47	611.8	
5	599	111.52	282.0	
6	651	106.74	248.4	
7	668	94.71	214.9	
8	686	96.57	213.2	
9	721	120.22	252.5	
10	810	114.49	214.1	
11	844	568.14	1,019.5	
12	10,380	75.00	10.9	Upper Marker

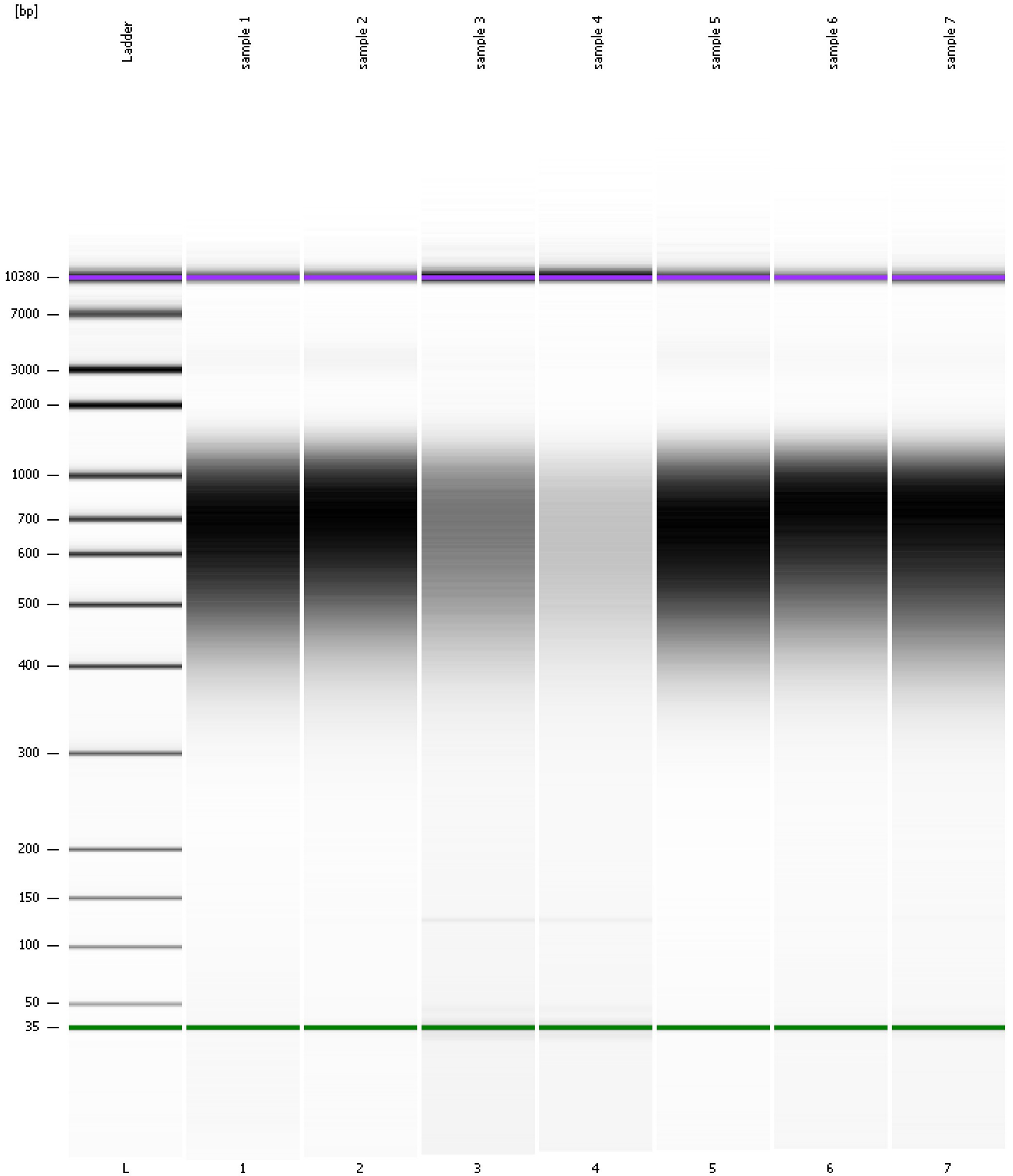
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
345	1,680	699	6,661.9	2,670.97	1,878.8	97	35.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
Modified: 3/11/2013 4:12:26 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...Settings\Bioanalyzer\2013-03-11\2013-03-11_003_Lib_Lutz.xad

Created: 3/11/2013 3:24:01 PM
 Modified: 3/11/2013 4:12:26 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		3/11/2013 4:05:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-11\2013-03-11_003.xad)		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/11/2013 3:24:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1