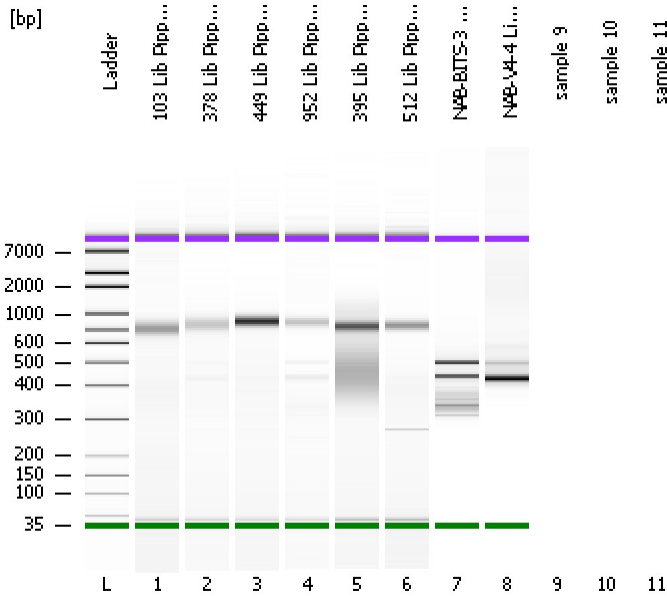


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
Modified: 1/25/2013 3:22:48 PM

Electrophoresis File Run Summary



Instrument Information:

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

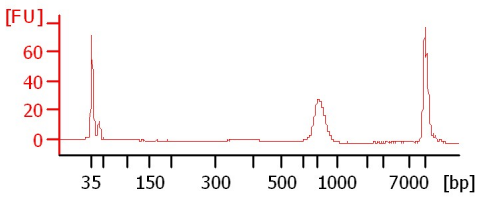
Assay Information:

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

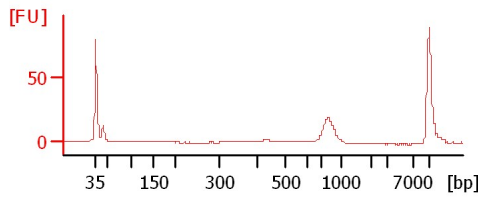
Chip Information:

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

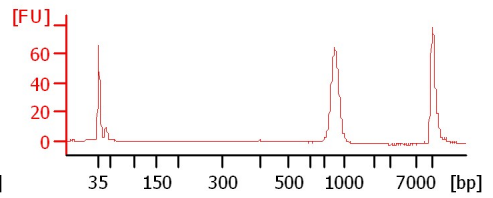
103 Lib Pippin-850bp



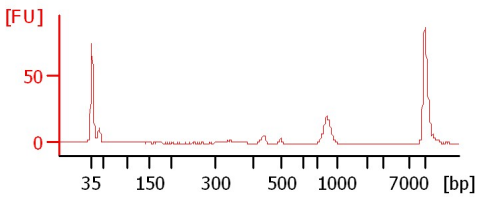
378 Lib Pippin-850bp



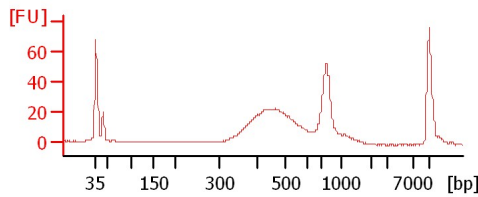
449 Lib Pippin-850bp



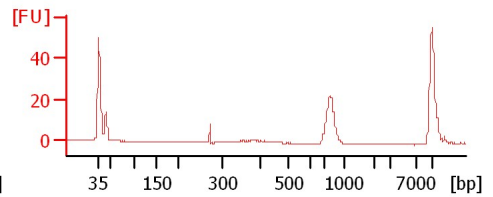
952 Lib Pippin-850bp



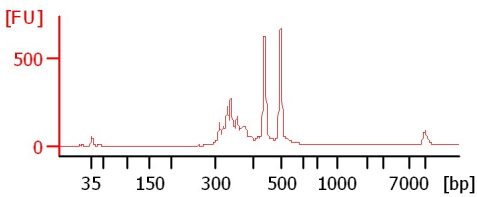
395 Lib Pippin-850bp



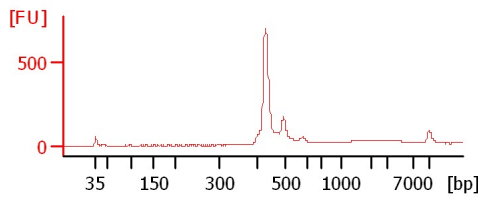
512 Lib Pippin-850bp



NAB-BITS-3 Lib 1:7



NAB-V4-4 Lib 1:8



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
Modified: 1/25/2013 3:22:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
103 Lib Pippin-850bp		<input type="checkbox"/>	✓			
378 Lib Pippin-850bp		<input type="checkbox"/>	✓			
449 Lib Pippin-850bp		<input type="checkbox"/>	✓			
952 Lib Pippin-850bp		<input type="checkbox"/>	✓			
395 Lib Pippin-850bp		<input type="checkbox"/>	✓			
512 Lib Pippin-850bp		<input type="checkbox"/>	✓			
NAB-BITS-3 Lib 1:7		<input type="checkbox"/>	✓			
NAB-V4-4 Lib 1:8		<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\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
Modified: 1/25/2013 3:22:48 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

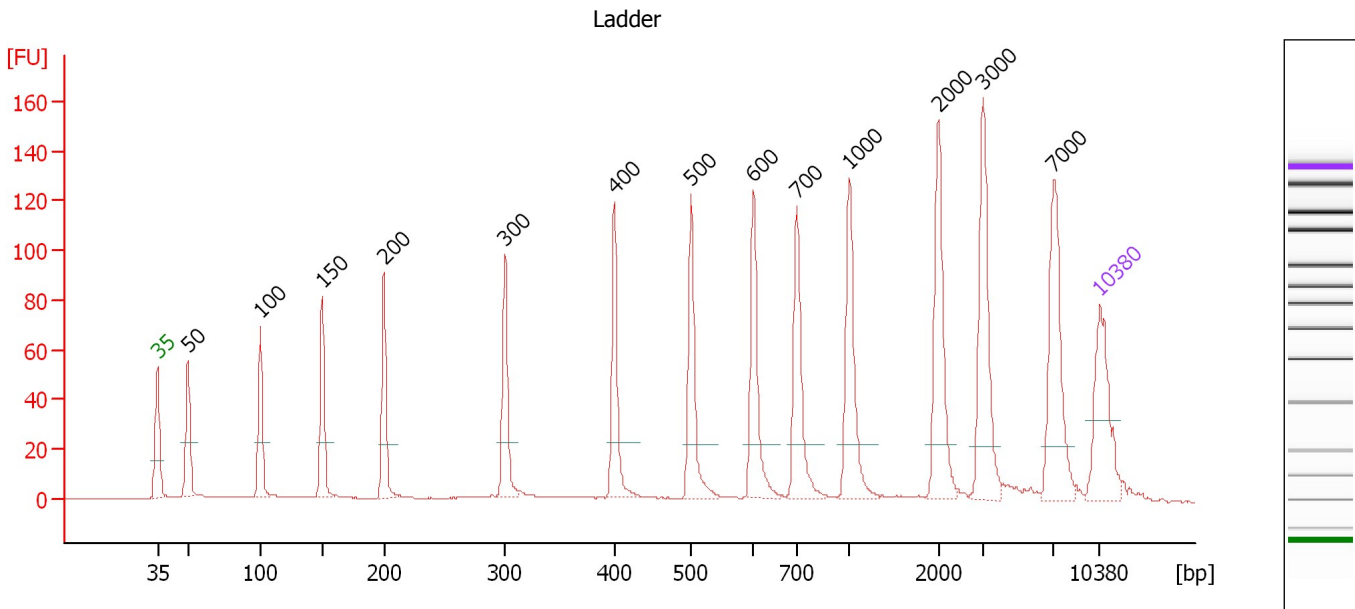
Ladder

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\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

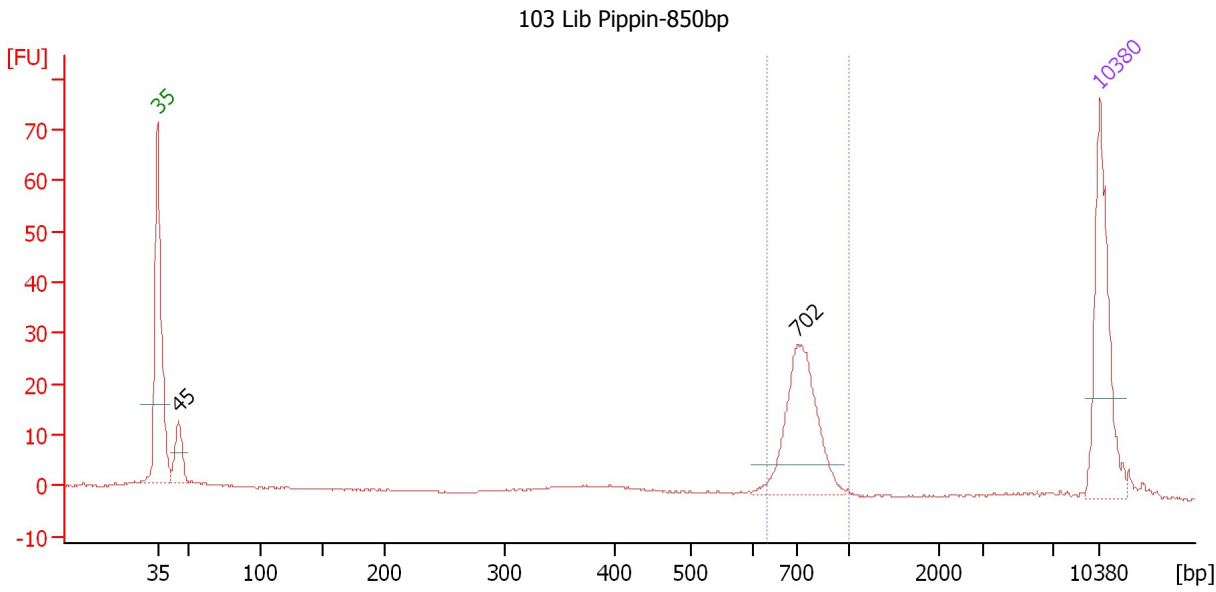
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : 103 Lib Pippin-850bp

Height Threshold [FU] : 6

Overall Results for sample 1 : 103 Lib Pippin-850bp

Number of peaks found: 2 Corr. Area 1: 92.4
 Noise: 0.2

Peak table for sample 1 : 103 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	35.41	1,189.3	
3	702	111.46	240.6	
4	10,380	75.00	10.9	Upper Marker

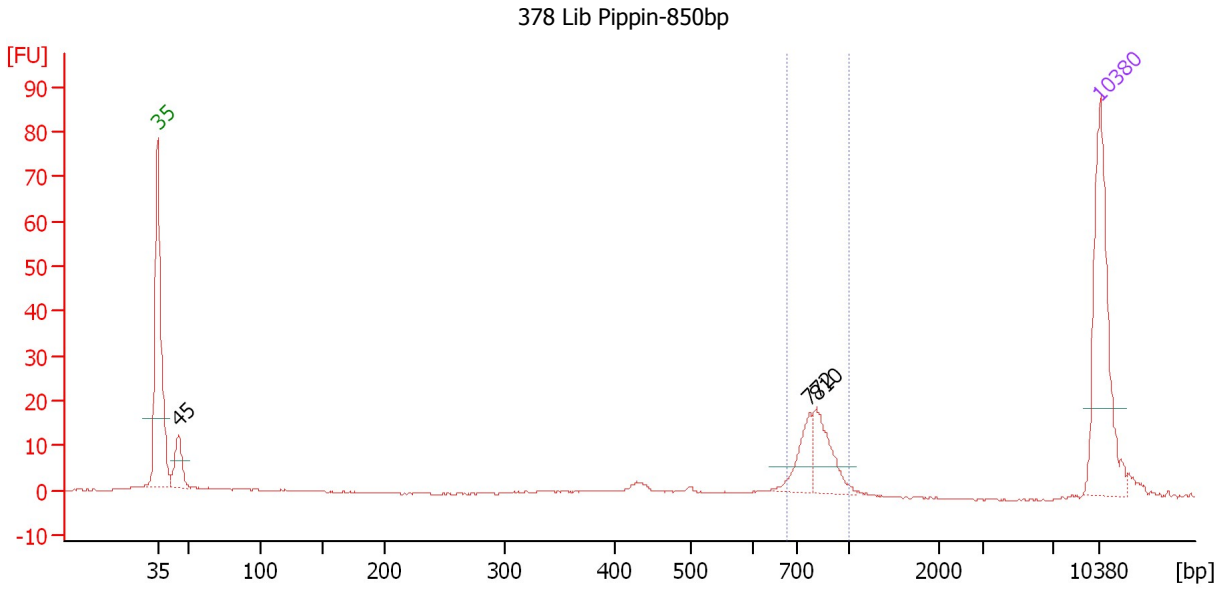
Region table for sample 1 : 103 Lib Pippin-850bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
633	1,000	745	221.3	108.15	92.4	58	9.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : 378 Lib Pippin-850bp

Height Threshold [FU] : 6

Overall Results for sample 2 : 378 Lib Pippin-850bp

Number of peaks found: 3 Corr. Area 1: 57.3
 Noise: 0.1

Peak table for sample 2 : 378 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	29.68	993.8	
3	772	23.62	46.4	
4	810	32.70	61.2	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : 378 Lib Pippin-850bp

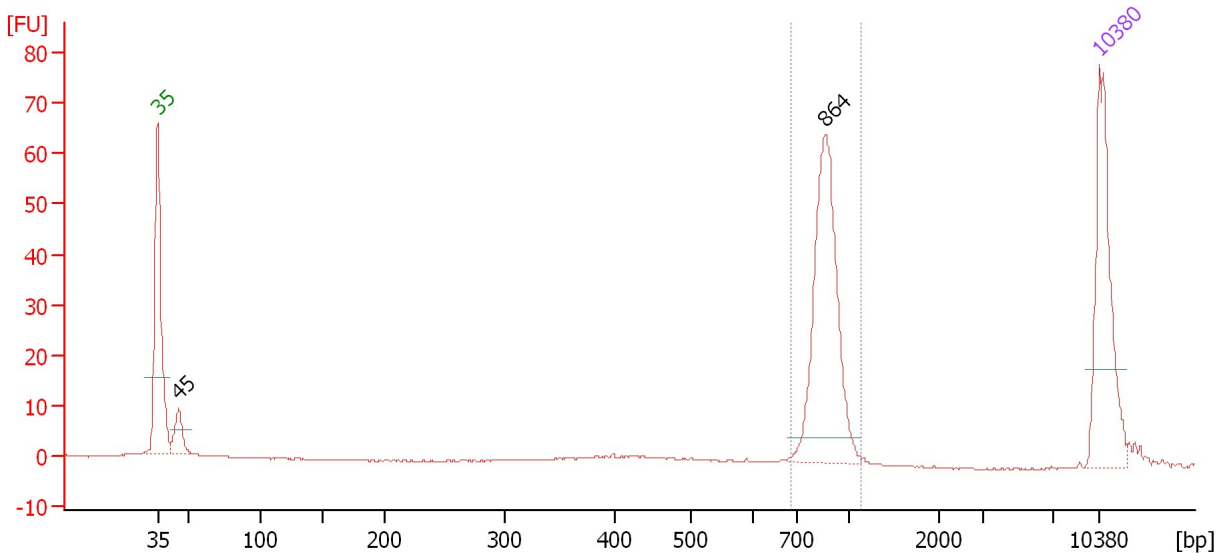
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
675	1,000	810	105.0	55.94	57.3	46	9.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...

449 Lib Pippin-850bp



Overall Results for sample 3 : 449 Lib Pippin-850bp

Number of peaks found: 2 Corr. Area 1: 145.0
 Noise: 0.2

Peak table for sample 3 : 449 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	25.78	859.7	
3	864	147.94	259.3	
4	10,380	75.00	10.9	Upper Marker

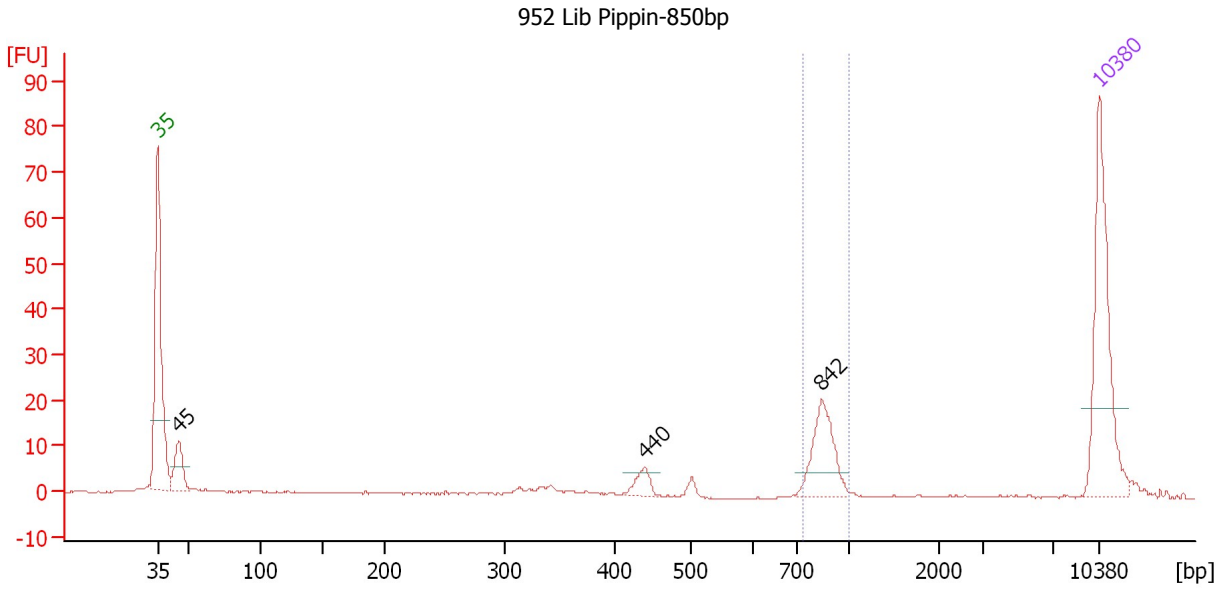
Region table for sample 3 : 449 Lib Pippin-850bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
688	1,117	866	260.6	148.73	145.0	76	7.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 952 Lib Pippin-850bp

Number of peaks found: 3 Corr. Area 1: 42.0
 Noise: 0.2

Peak table for sample 4 : 952 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	30.02	1,003.8	
3	440	10.72	36.9	
4	842	42.95	77.2	
5	10,380	75.00	10.9	Upper Marker

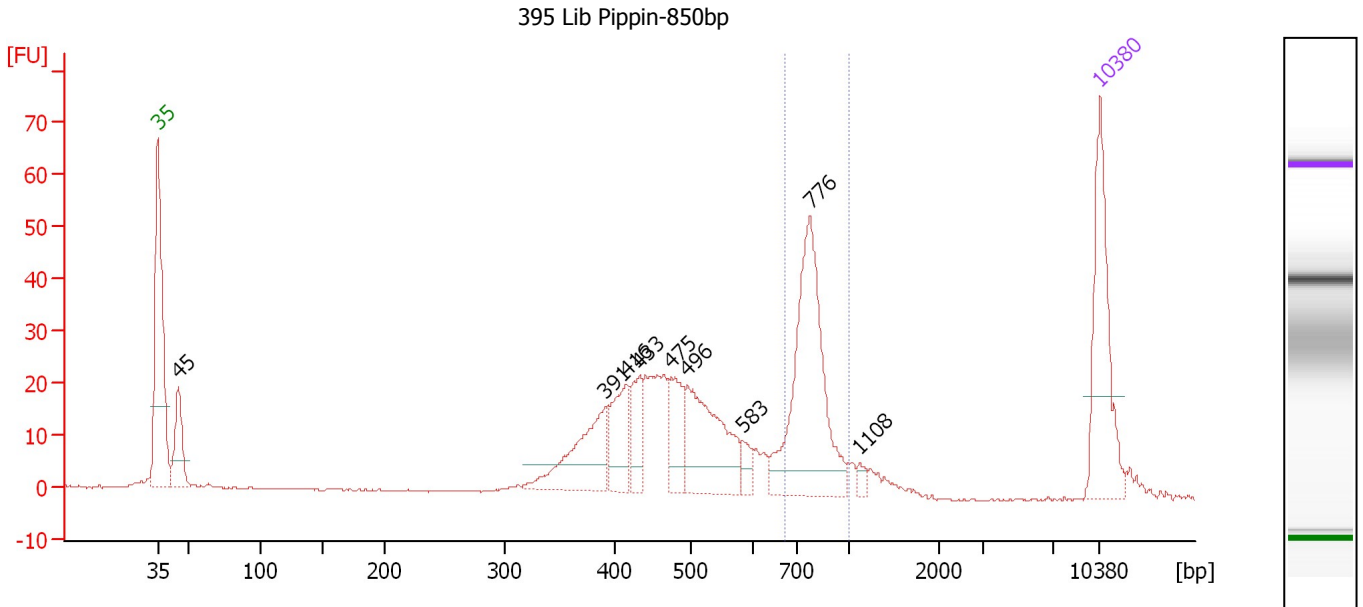
Region table for sample 4 : 952 Lib Pippin-850bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
733	1,000	853	75.4	42.46	42.0	38	6.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 395 Lib Pippin-850bp

Number of peaks found: 9 Corr. Area 1: 134.2
 Noise: 0.2

Peak table for sample 5 : 395 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	53.66	1,790.0	
3	391	78.53	304.2	
4	416	48.79	177.8	
5	433	33.61	117.6	
6	475	42.20	134.7	
7	496	98.28	300.5	
8	583	11.47	29.8	
9	776	167.97	328.1	
10	1,108	5.37	7.3	
11	10,380	75.00	10.9	Upper Marker

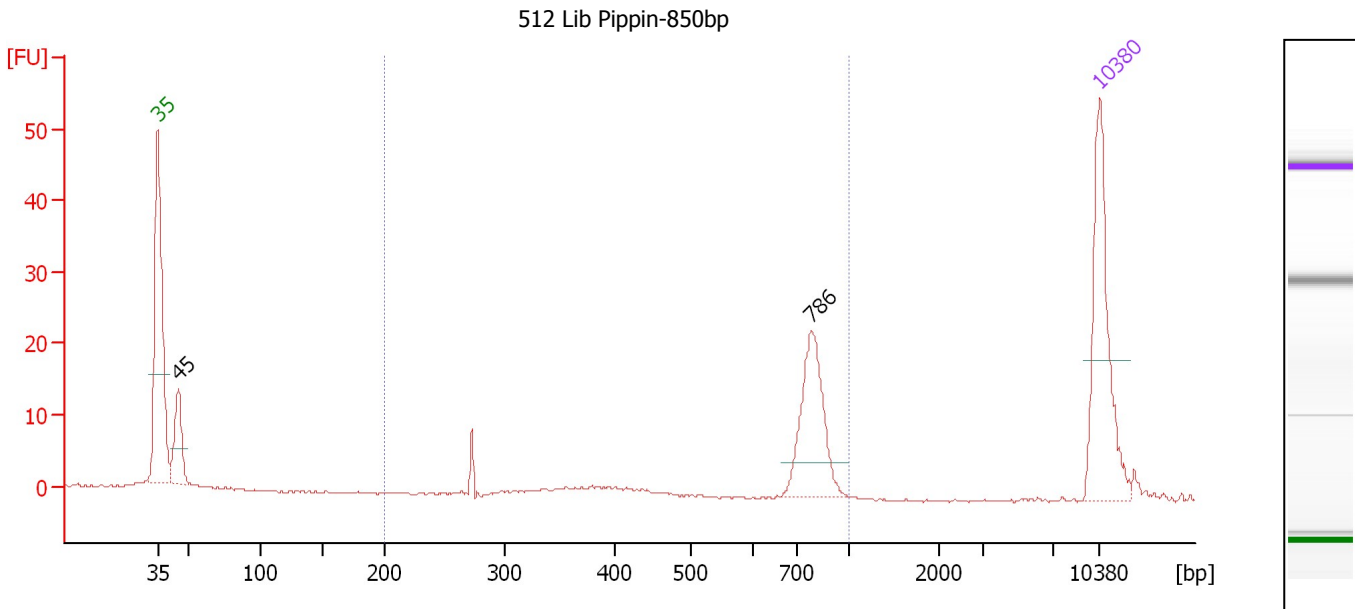
Region table for sample 5 : 395 Lib Pippin-850bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
673	1,000	785	299.0	154.28	134.2	25	9.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 512 Lib Pippin-850bp

Number of peaks found: 2 Corr. Area 1: 58.1
 Noise: 0.2

Peak table for sample 6 : 512 Lib Pippin-850bp

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	48.80	1,637.4	
3	786	73.95	142.5	
4	10,380	75.00	10.9	Upper Marker

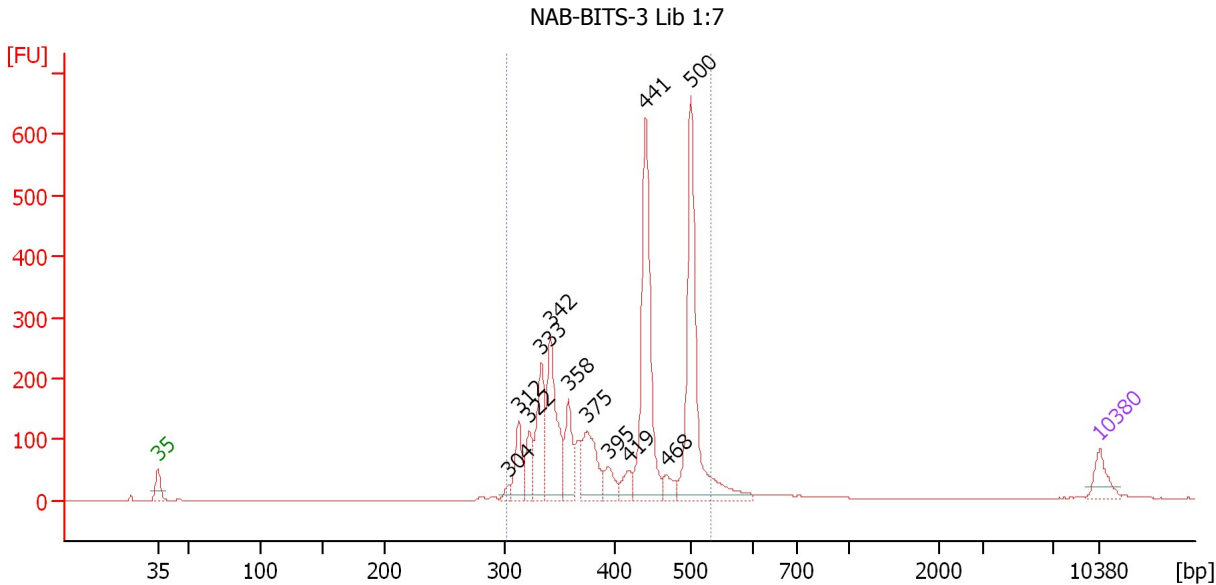
Region table for sample 6 : 512 Lib Pippin-850bp

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	729	212.8	87.99	58.1	64	22.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : NAB-BITS-3 Lib 1:7

Height Threshold [FU] : 10

Overall Results for sample 7 : NAB-BITS-3 Lib 1:7

Number of peaks found: 12 Corr. Area 1: 2,551.7
 Noise: 0.1

Peak table for sample 7 : NAB-BITS-3 Lib 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	24.78	123.5	
3	312	168.77	819.0	
4	322	132.08	620.8	
5	333	302.52	1,376.2	
6	342	432.40	1,915.7	
7	358	203.41	860.7	
8	375	261.30	1,054.9	
9	395	89.32	342.7	
10	419	69.15	250.0	
11	441	795.27	2,732.7	
12	468	64.88	210.1	
13	500	876.71	2,656.5	
14	10,380	75.00	10.9	Upper Marker

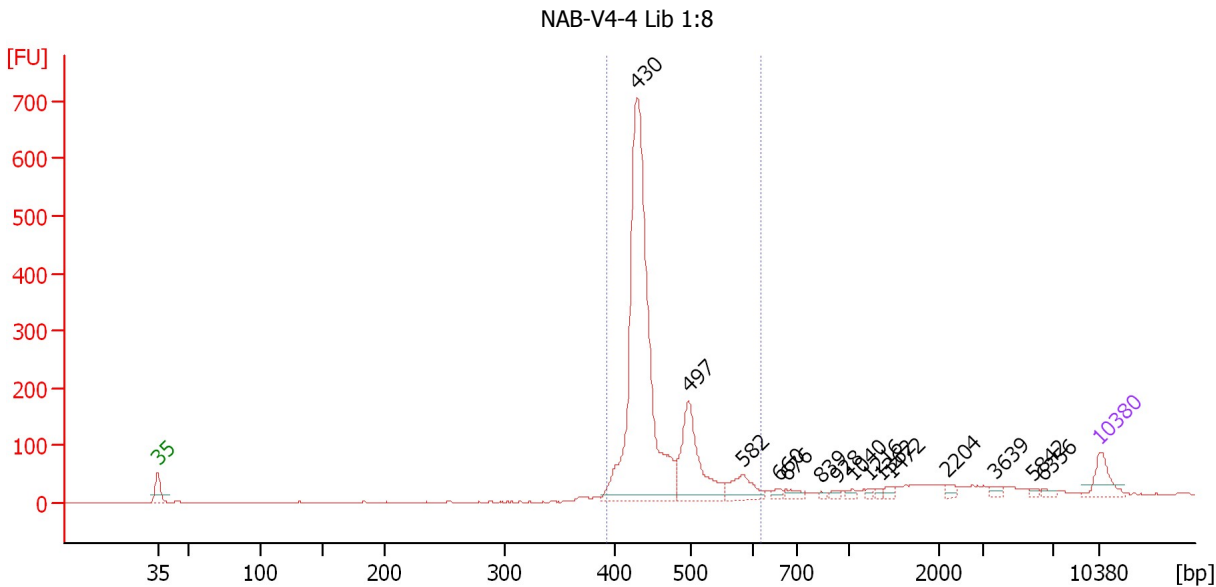
Region table for sample 7 : NAB-BITS-3 Lib 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
302	530	415	12,692.6	3,353.57	2,551.7	94	16.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : NAB-V4-4 Lib 1:8

Height Threshold [FU] : 10

Overall Results for sample 8 : NAB-V4-4 Lib 1:8

Number of peaks found: 15 Corr. Area 1: 1,856.6
 Noise: 0.5

Peak table for sample 8 : NAB-V4-4 Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	430	1,794.18	6,315.7	
3	497	414.18	1,261.8	
4	582	116.33	302.8	
5	660	18.86	43.3	
6	676	29.34	65.8	
7	839	10.43	18.8	
8	928	12.76	20.8	
9	1,040	15.89	23.2	
10	1,216	11.63	14.5	
11	1,362	11.37	12.7	
12	1,472	17.42	17.9	
13	2,204	18.96	13.0	
14	3,639	16.45	6.9	
15	5,842	7.72	2.0	
16	6,356	11.46	2.7	
17	10,380	75.00	10.9	Upper Marker

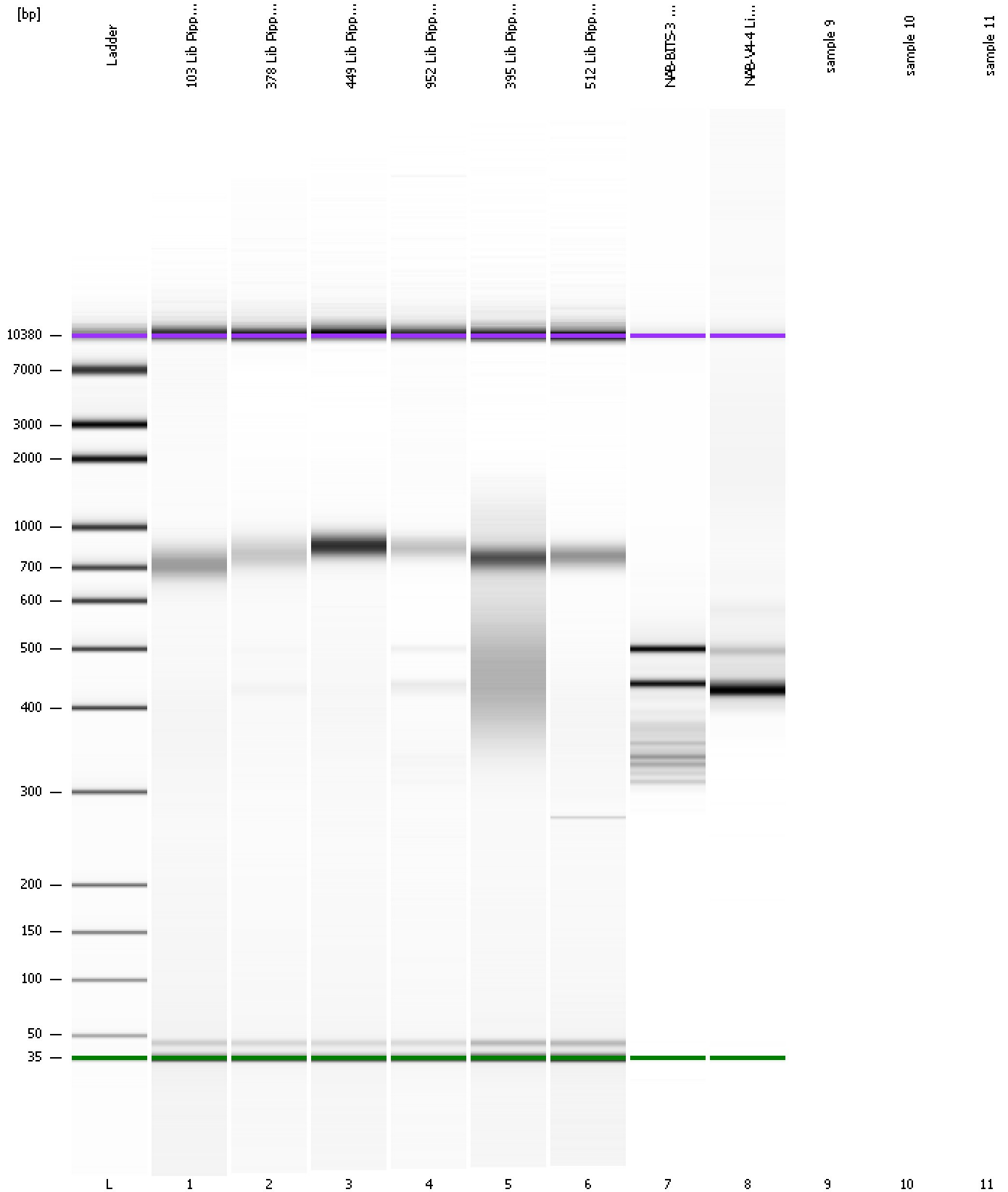
Region table for sample 8 : NAB-V4-4 Lib 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
393	615	455	7,532.8	2,243.84	1,856.6	83	9.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
Modified: 1/25/2013 3:22:48 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
Modified: 1/25/2013 3:22:48 PM

Invalid Samples

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
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad

Created: 1/25/2013 2:45:59 PM
 Modified: 1/25/2013 3:22:48 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		1/25/2013 3:18:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-25\2013-01-25_001.xad)		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/25/2013 2:46:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1