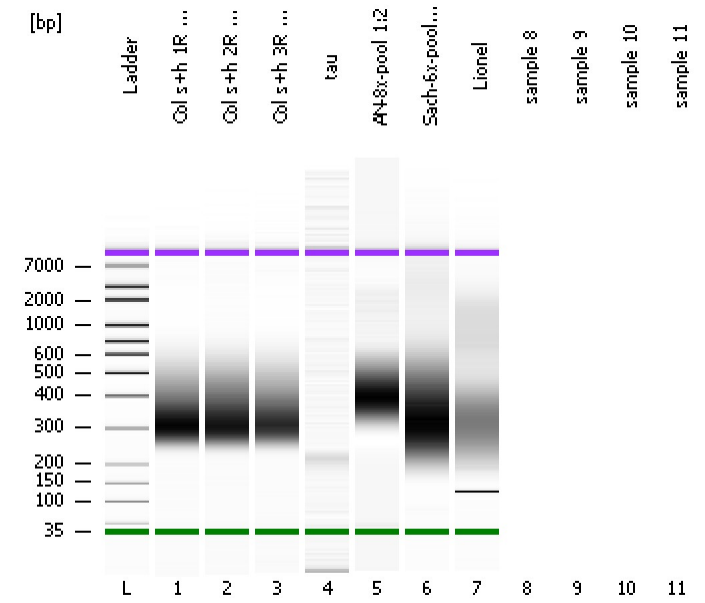
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electrophoresis File Run Summary



Instrument Information:

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

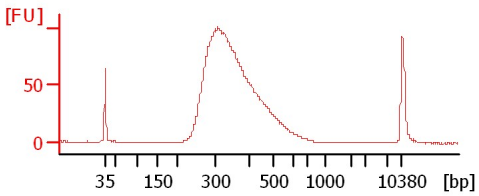
Assay Information:

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

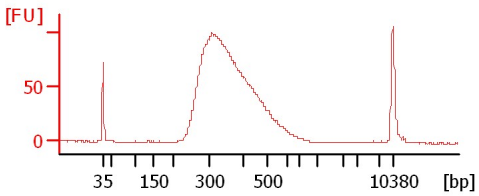
Chip Information:

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

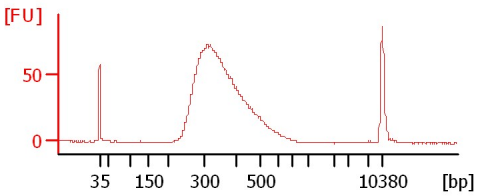
Col s+h 1R mRNA Lib 1:2



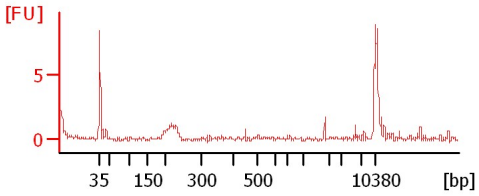
Col s+h 2R mRNA Lib 1:2



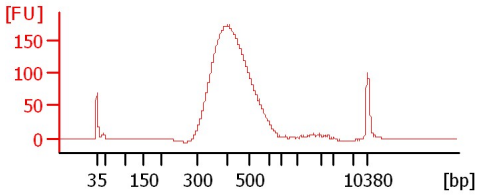
Col s+h 3R mRNA Lib 1:2



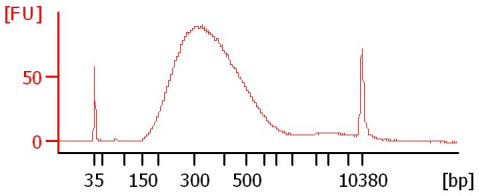
tau



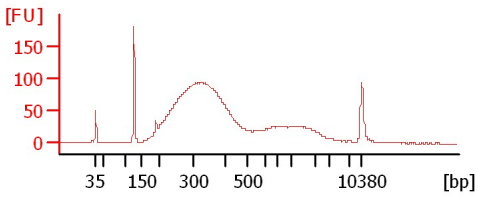
AN-8x-pool 1:2



Sach-6x-pool 1:3



Lionel



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Col s+h 1R mRNA Lib 1:2		☐	✔			
Col s+h 2R mRNA Lib 1:2		☐	✔			
Col s+h 3R mRNA Lib 1:2		☐	✔			
tau		☐	✔			
AN-8x-pool 1:2		☐	✔			
Sach-6x-pool 1:3		☐	✔			
Lionel		☐	✔			
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 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

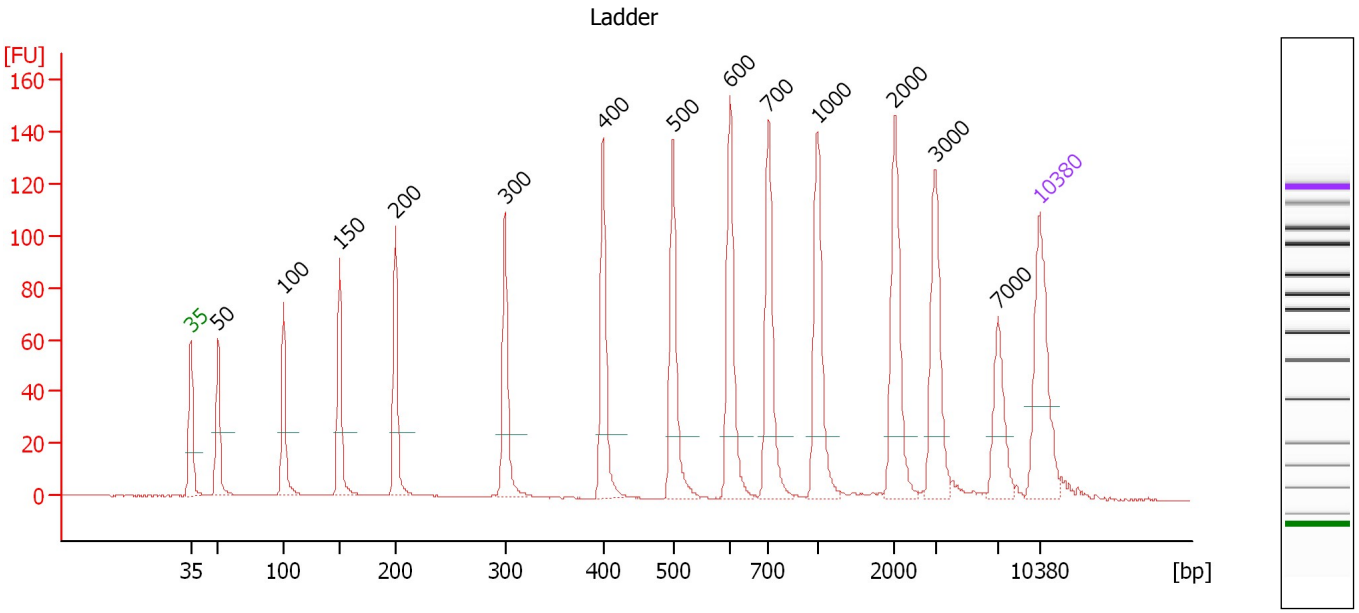
Ladder

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\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

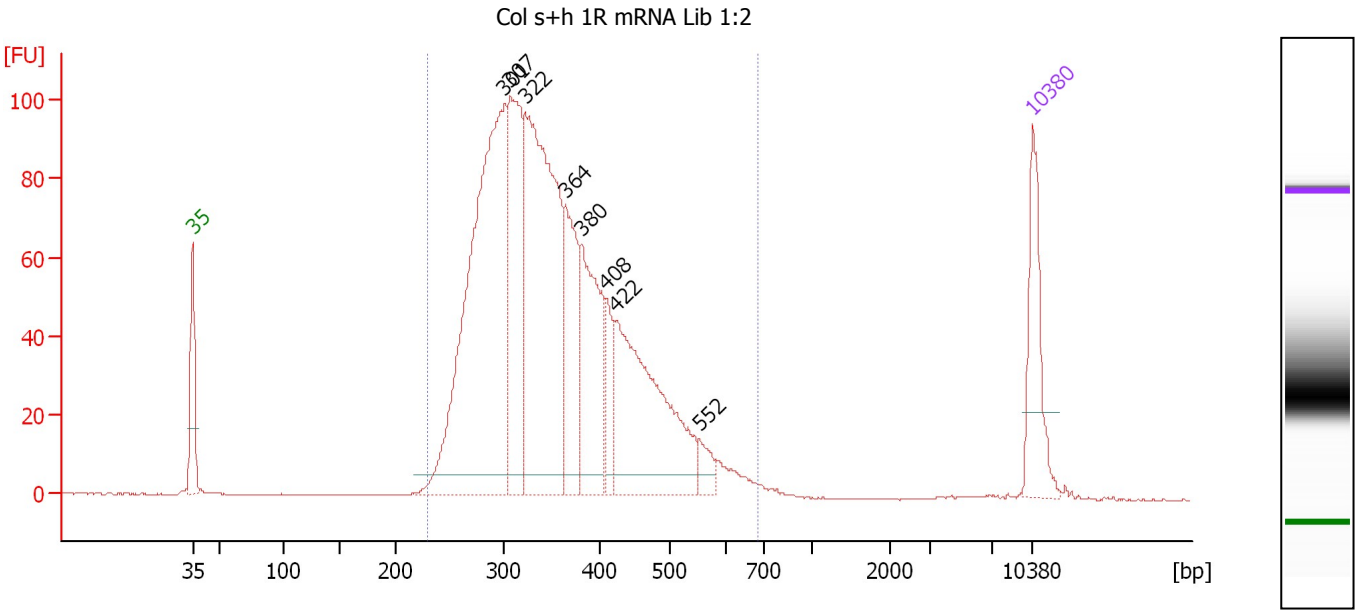
Peak table for Ladder

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\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Col s+h 1R mRNA Lib 1:2

Number of peaks found:	8	Corr. Area 1:	1,833.4
Noise:	0.1		

Peak table for sample 1 : Col s+h 1R mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	301	653.51	3,289.0	
3	307	251.22	1,241.7	
4	322	495.96	2,330.4	
5	364	146.52	610.5	
6	380	179.98	717.4	
7	408	49.11	182.6	
8	422	283.37	1,017.0	
9	552	20.71	56.8	
10	10,380	75.00	10.9	Upper Marker

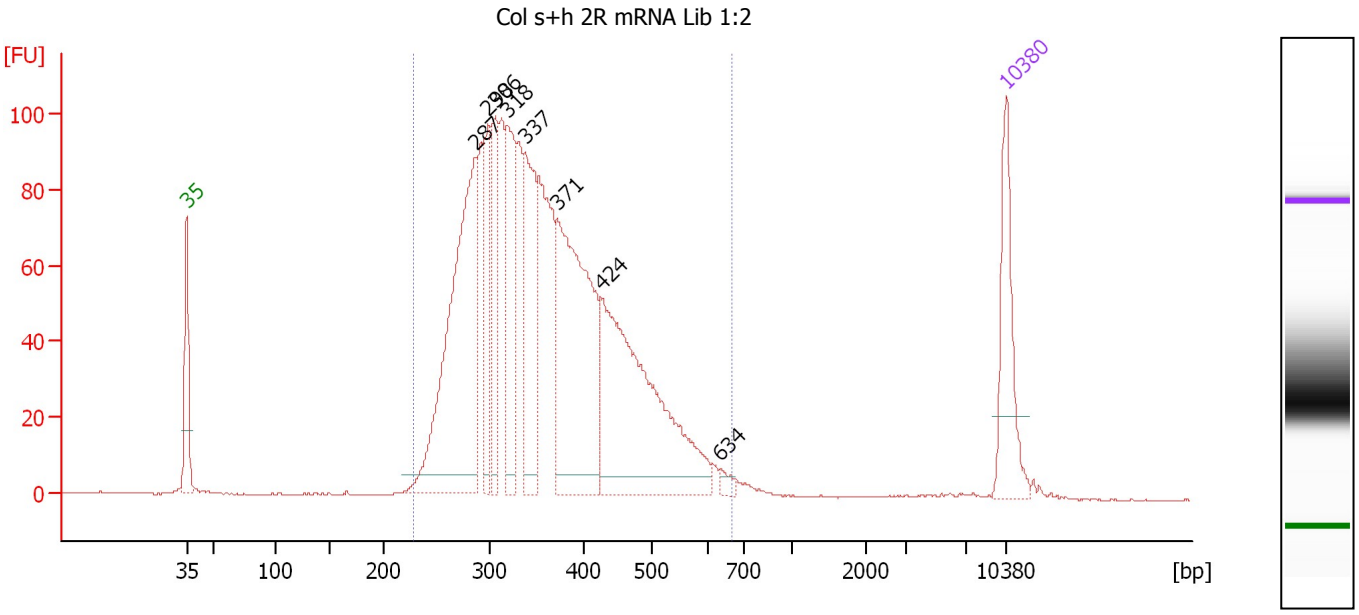
Region table for sample 1 : Col s+h 1R mRNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
230	684	358	9,582.2	2,133.80	1,833.4	99	22.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Col s+h 2R mRNA Lib 1:2

Number of peaks found:	8	Corr. Area 1:	1,942.5
Noise:	0.2		

Peak table for sample 2 : Col s+h 2R mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	402.62	2,128.5	
3	298	95.45	485.1	
4	306	103.88	514.7	
5	318	146.75	698.8	
6	337	151.47	680.3	
7	371	328.46	1,340.9	
8	424	347.89	1,242.4	
9	634	8.23	19.7	
10	10,380	75.00	10.9	Upper Marker

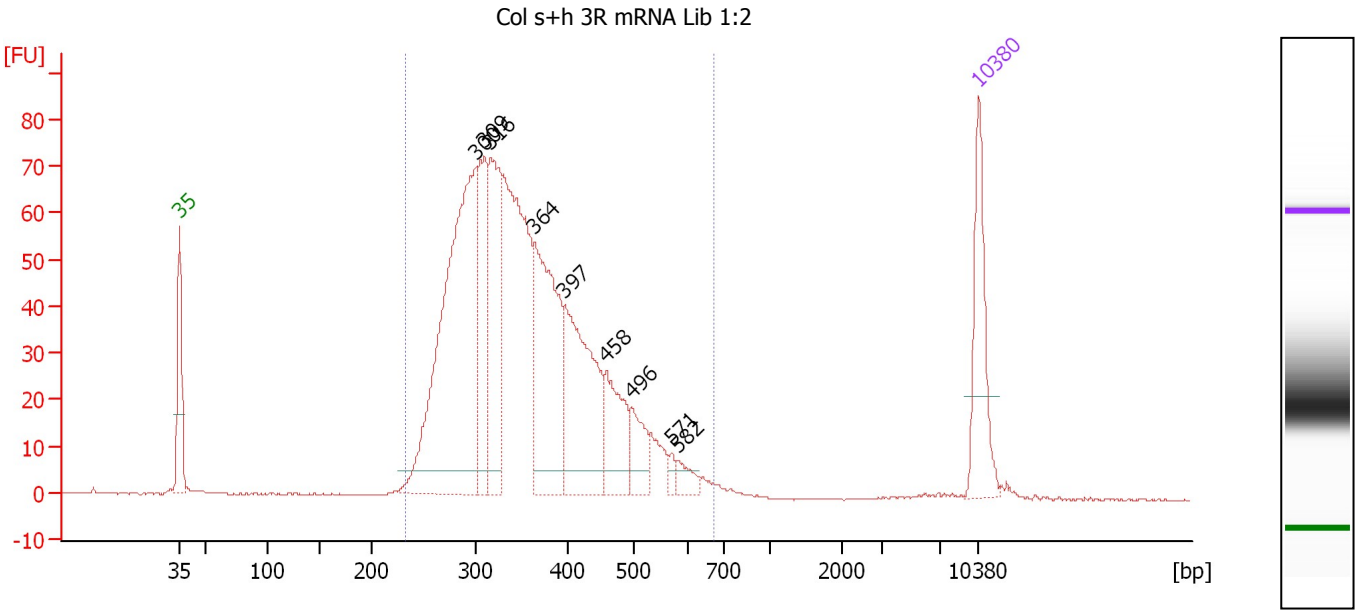
Region table for sample 2 : Col s+h 2R mRNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
229	668	363	9,069.7	2,037.96	1,942.5	98	22.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Col s+h 3R mRNA Lib 1:2

Number of peaks found:	9	Corr. Area 1:	1,316.1
Noise:	0.2		

Peak table for sample 3 : Col s+h 3R mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	300	491.17	2,478.7	
3	309	144.24	706.2	
4	316	180.77	865.6	
5	364	220.89	920.2	
6	397	192.75	736.3	
7	458	77.26	255.3	
8	496	41.52	126.9	
9	571	6.95	18.4	
10	582	15.12	39.4	
11	10,380	75.00	10.9	Upper Marker

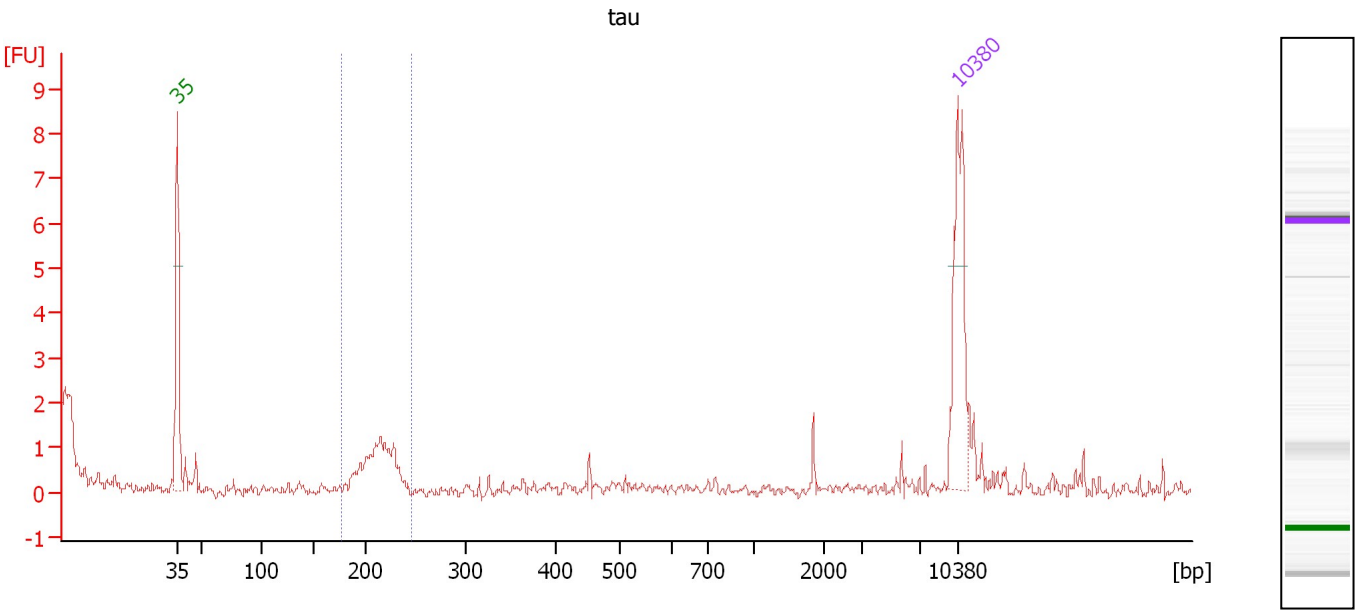
Region table for sample 3 : Col s+h 3R mRNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
233	672	360	7,847.5	1,757.05	1,316.1	98	22.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : tau

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.2		

Peak table for sample 4 : tau

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

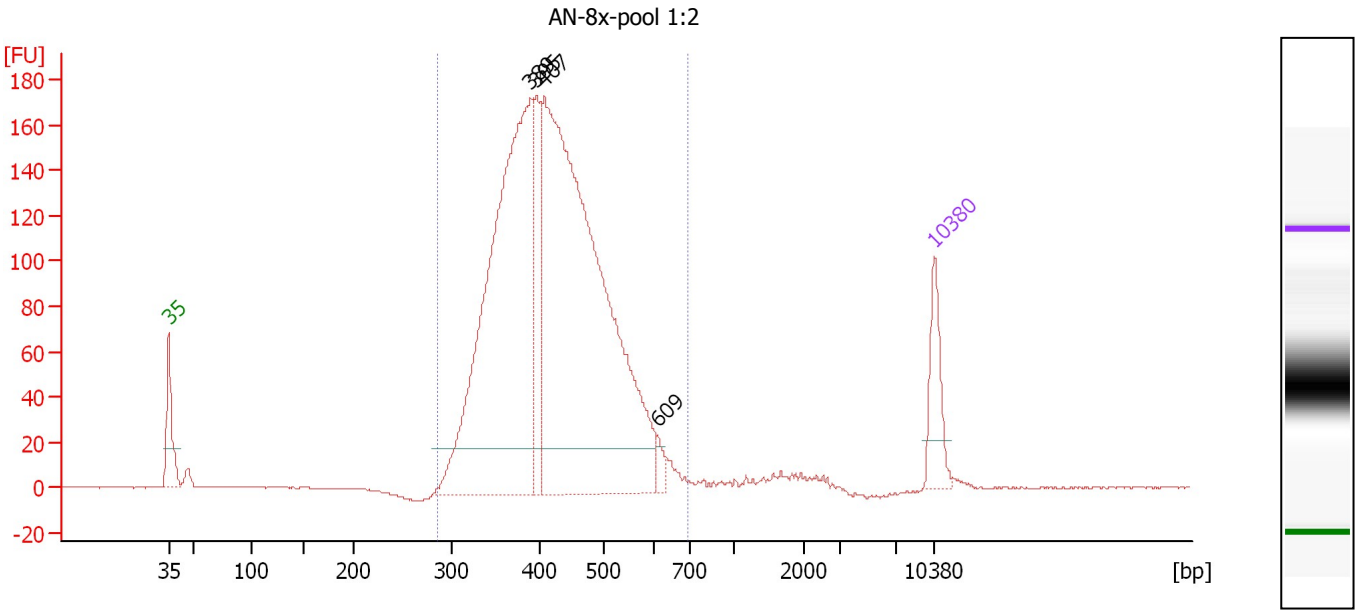
Region table for sample 4 : tau

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
177	246	0	0.0	0.00	0.0	0	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : AN-8x-pool 1:2

Height Threshold [FU] : 20

Overall Results for sample 5 : AN-8x-pool 1:2

Number of peaks found:	4	Corr. Area 1:	2,591.9
Noise:	0.1		

Peak table for sample 5 : AN-8x-pool 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	389	1,116.32	4,344.9	
3	395	151.74	581.6	
4	407	1,443.33	5,373.5	
5	609	20.08	50.0	
6	10,380	75.00	10.9	Upper Marker

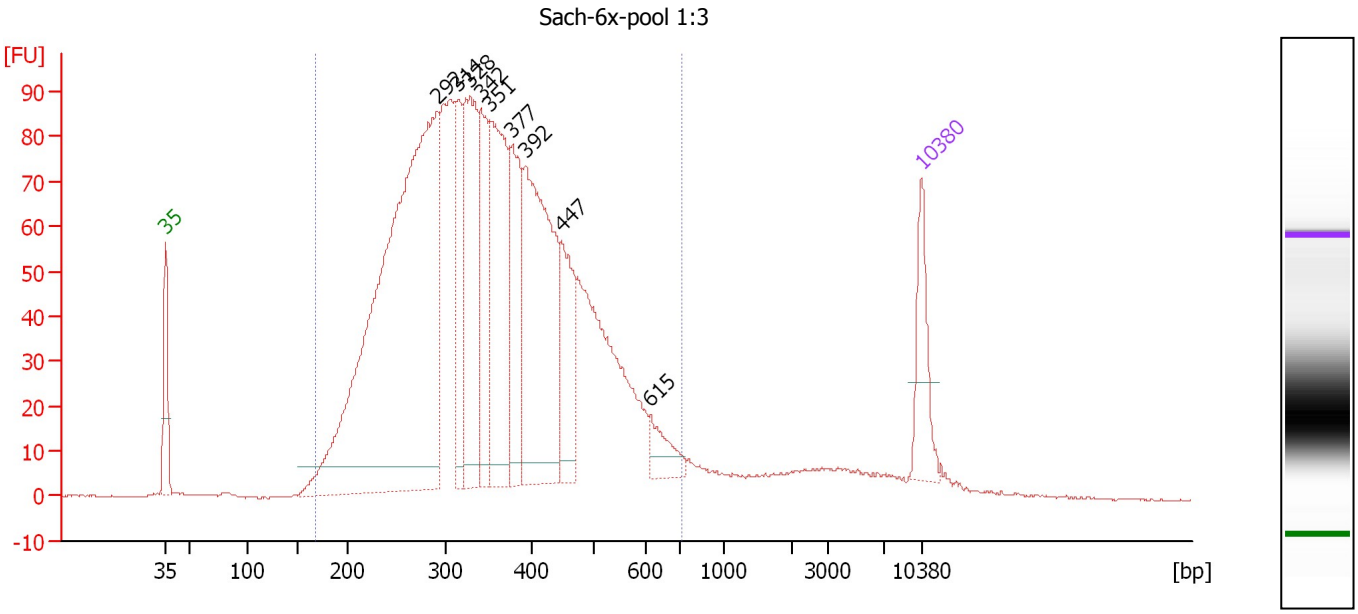
Region table for sample 5 : AN-8x-pool 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	699	425	9,872.0	2,676.21	2,591.9	97	16.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sach-6x-pool 1:3

Number of peaks found:	9	Corr. Area 1:	2,491.4
Noise:	0.2		

Peak table for sample 6 : Sach-6x-pool 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	1,375.46	7,136.3	
3	314	159.44	768.7	
4	328	306.90	1,416.4	
5	342	181.63	805.3	
6	351	330.53	1,427.3	
7	377	188.33	756.7	
8	392	453.30	1,753.2	
9	447	155.99	529.1	
10	615	47.37	116.7	
11	10,380	75.00	10.9	Upper Marker

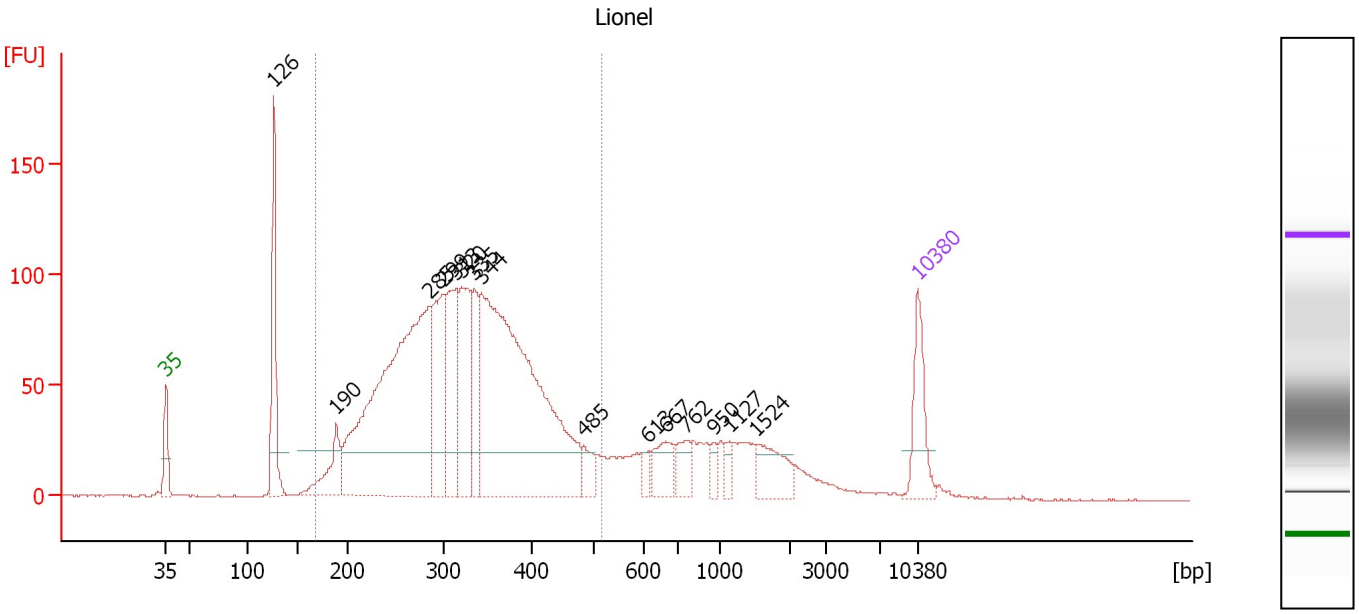
Region table for sample 6 : Sach-6x-pool 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
168	720	359	19,824.4	4,182.24	2,491.4	94	29.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Lionel

Height Threshold [FU] : 20

Overall Results for sample 7 : Lionel

Number of peaks found:	15	Corr. Area 1:	2,205.9
Noise:	0.3		

Peak table for sample 7 : Lionel

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	230.07	2,772.1	
3	190	94.83	757.9	
4	285	896.97	4,771.3	
5	299	202.36	1,025.2	
6	313	187.77	908.7	
7	320	202.49	959.2	
8	335	115.65	522.8	
9	344	904.96	3,988.5	
10	485	36.55	114.2	
11	613	21.09	52.1	
12	667	55.83	126.9	
13	762	40.45	80.4	
14	950	17.19	27.4	
15	1,127	16.72	22.5	
16	1,524	65.41	65.0	
17	10,380	75.00	10.9	Upper Marker

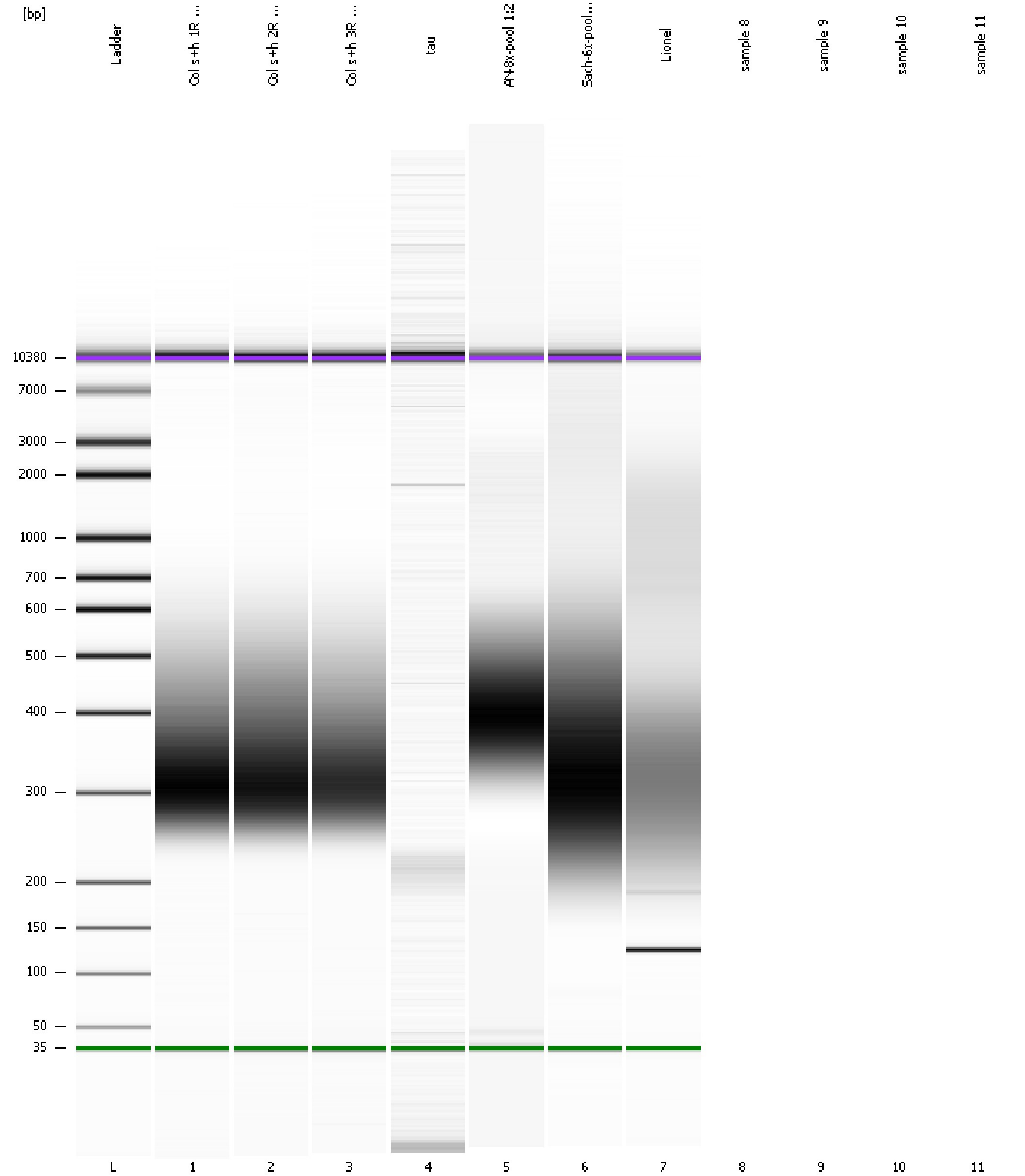
Region table for sample 7 : Lionel

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
167	518	323	13,561.0	2,682.35	2,205.9	76	22.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Invalid Samples

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.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad

Created: 5/17/2013 5:03:19 PM
Modified: 5/17/2013 5:37:52 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		5/17/2013 5:33:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-17\2013-05-17_002.xad)		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/17/2013 5:03:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1