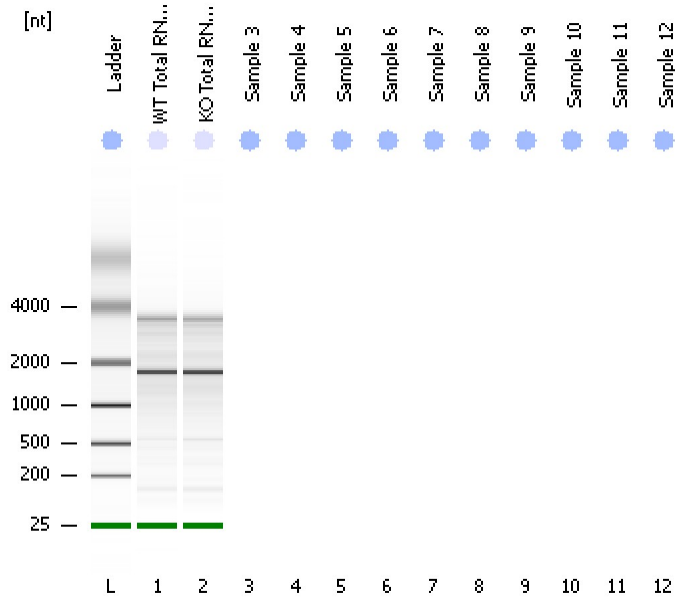


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Electrophoresis File Run Summary



Instrument Information:

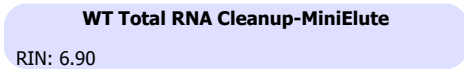
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
 Modified: 7/29/2013 11:32:17 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|--------------------------------|----------------|--------|-------------------|--------------|
| WT Total RNA Cleanup-MiniElute | | ✓ | RIN: 6.90 | |
| KO Total RNA Cleanup-MiniElute | | ✓ | RIN: 6.60 | |
| Sample 3 | | | | |
| Sample 4 | | | | |
| Sample 5 | | | | |
| Sample 6 | | | | |
| Sample 7 | | | | |
| Sample 8 | | | | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Sample 12 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

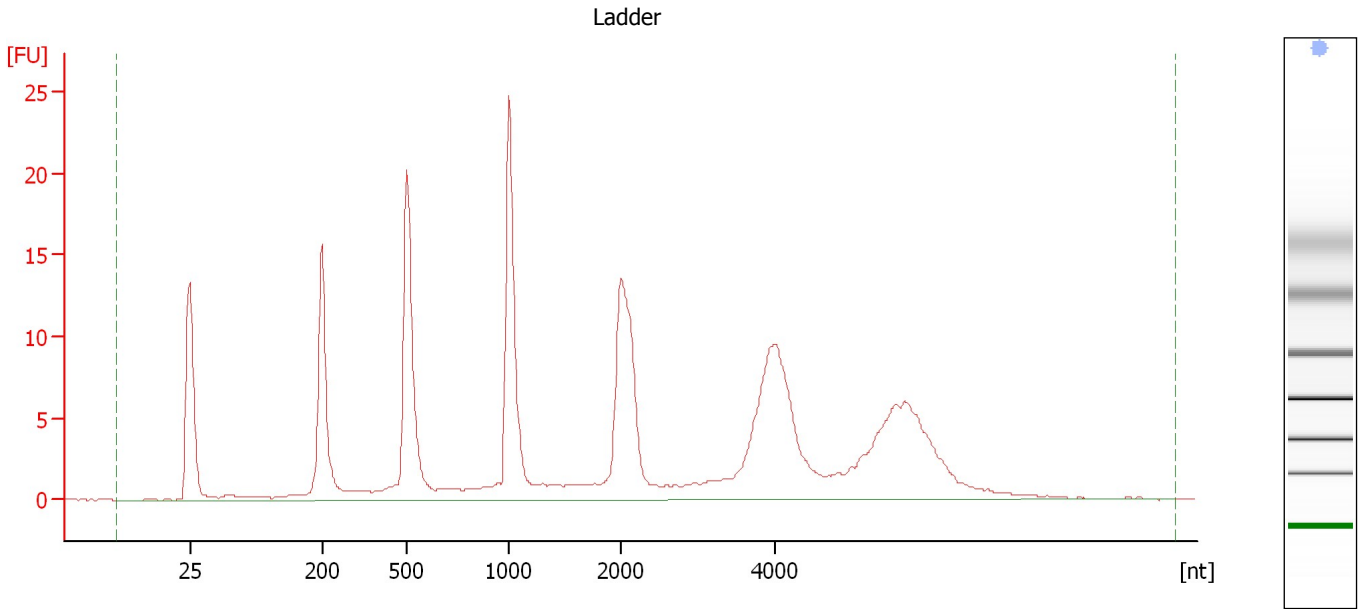
Ladder

| Ladder Peak | Size |
|-------------|------|
| 1 | 25 |
| 2 | 200 |
| 3 | 500 |
| 4 | 1000 |
| 5 | 2000 |
| 6 | 4000 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Electropherogram Summary



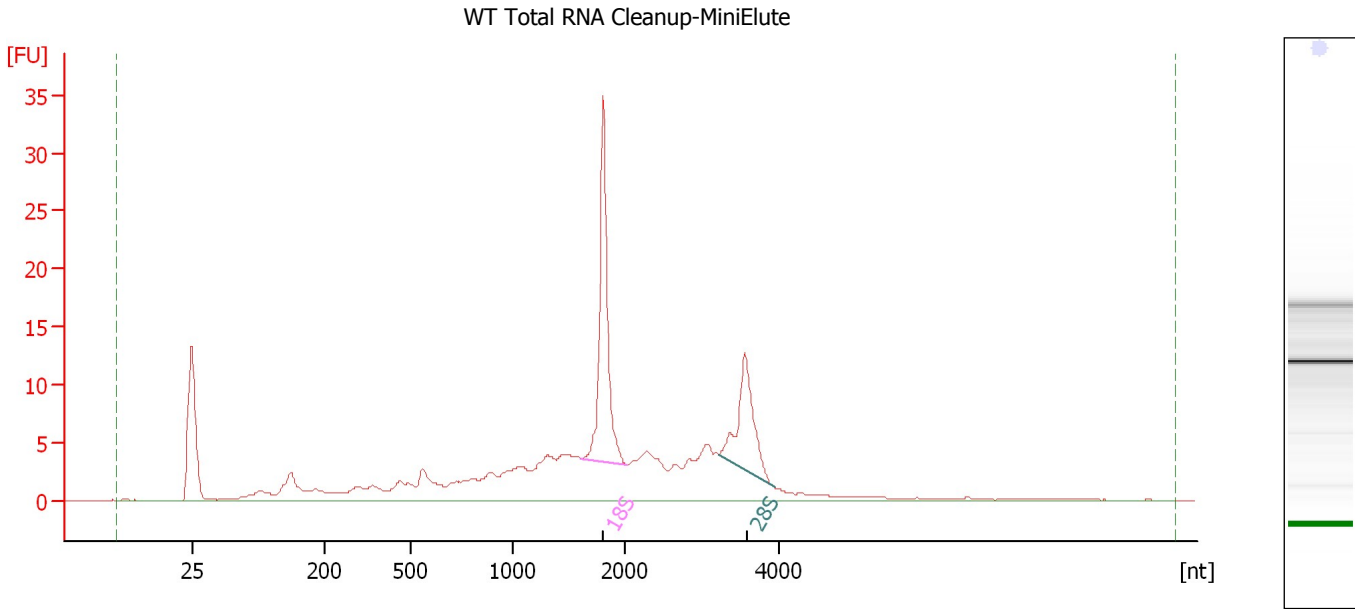
Overall Results for Ladder

| | | | |
|--------------------|-----------------|------------------------|---|
| RNA Area: | 229.7 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/ μ l | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT Total RNA Cleanup-MiniElute

RNA Area: 199.1 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 130 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 6.90

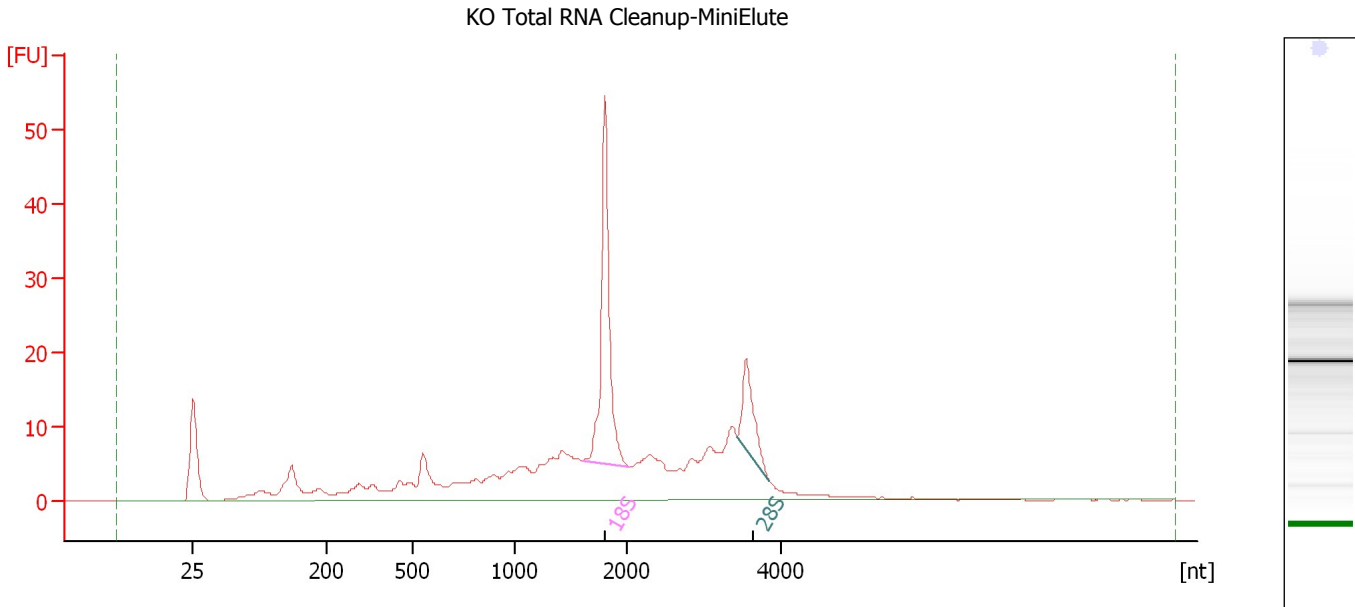
Fragment table for sample 1 : WT Total RNA Cleanup-MiniElute

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,613 | 2,017 | 31.4 | 15.8 |
| 28S | 3,228 | 3,938 | 17.2 | 8.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KO Total RNA Cleanup-MiniElute

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 303.3 | RNA Integrity Number (RIN): | 6.6 (B.02.08) |
| RNA Concentration: | 198 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN: 6.60 |

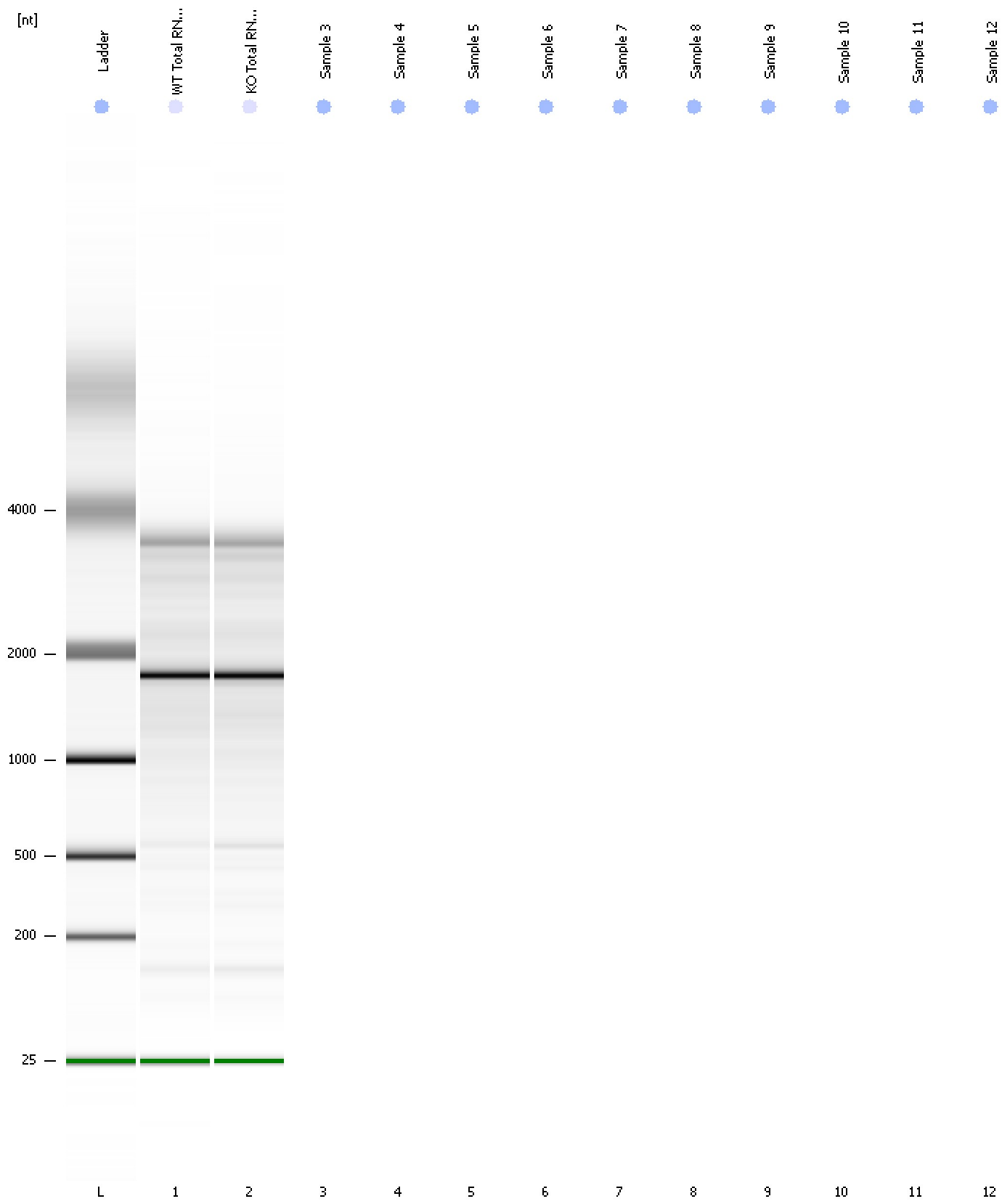
Fragment table for sample 2 : KO Total RNA Cleanup-MiniElute

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,605 | 2,032 | 51.1 | 16.8 |
| 28S | 3,436 | 3,852 | 14.8 | 4.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
Modified: 7/29/2013 11:32:17 AM

Invalid Samples

- Sample 3 has not been run, no results available.
- Sample 4 has not been run, no results available.
- 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.
- Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad

Created: 7/29/2013 11:22:07 AM
 Modified: 7/29/2013 11:32:17 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 3) | | Instrument | Run | | 7/29/2013 11:32:15 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-29\2013-07-29_001.xad) | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/29/2013 11:22:13 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |