

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...2100 expert\data\2016-09-19\2016-09-19_003_Total_RNA_QC.xad

Created: 9/19/2016 1:29:52 PM
Modified: 9/19/2016 1:56:23 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\RNA\Eukaryote Total RNA Pico Series II.xsy

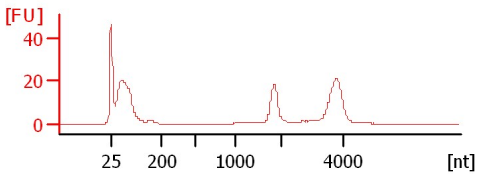
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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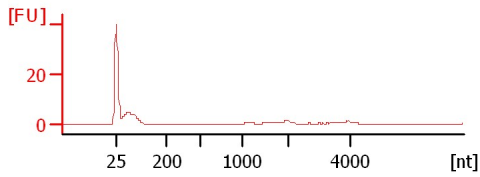
Chip Information:

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

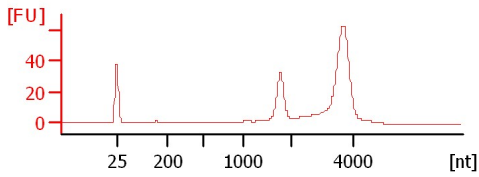
2: N2
RIN: 9.50



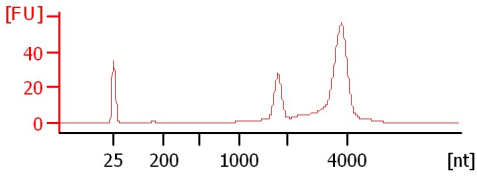
9: C4
RIN: 2.90



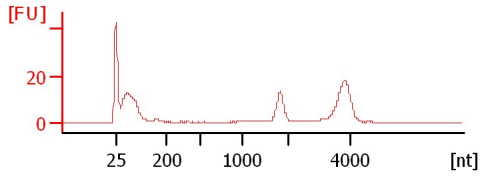
13: M3 (1:25)
RIN:10



14: M4 (1:40)
RIN:10



15: M5
RIN: 9.10



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
2: N2		✓	RIN: 9.50	
9: C4		✓	RIN: 2.90	
13: M3 (1:25)		✓	RIN:10	
14: M4 (1:40)		✓	RIN:10	
15: M5		✓	RIN: 9.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

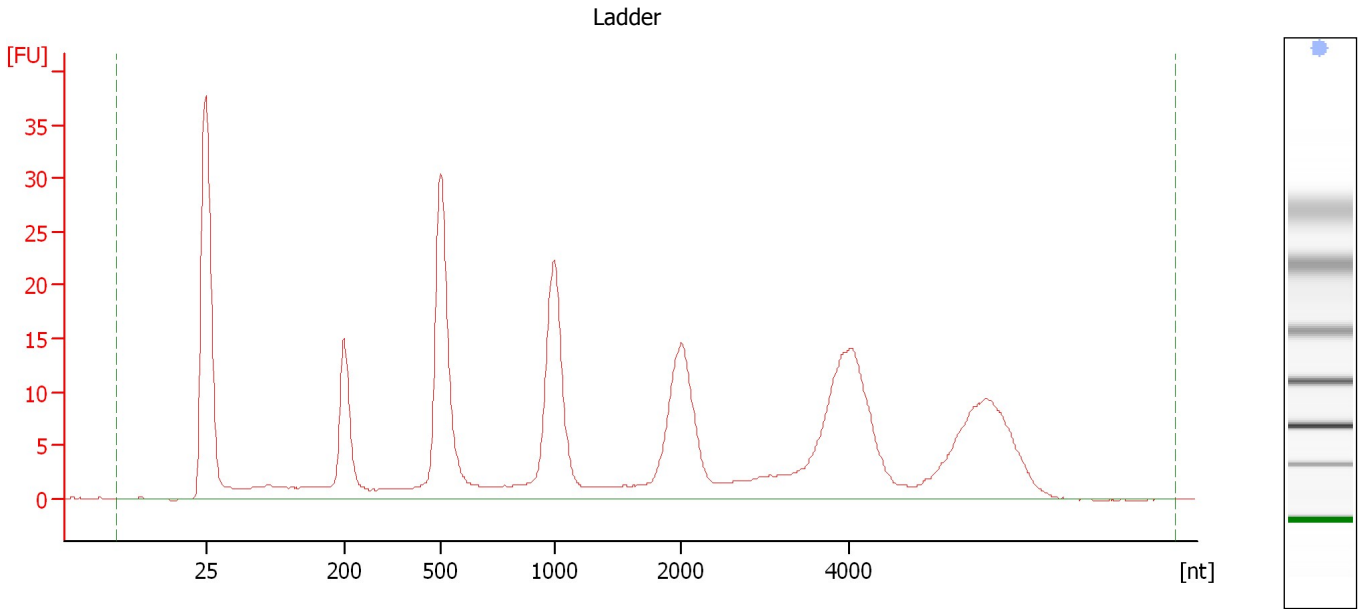
Ladder

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

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Electropherogram Summary



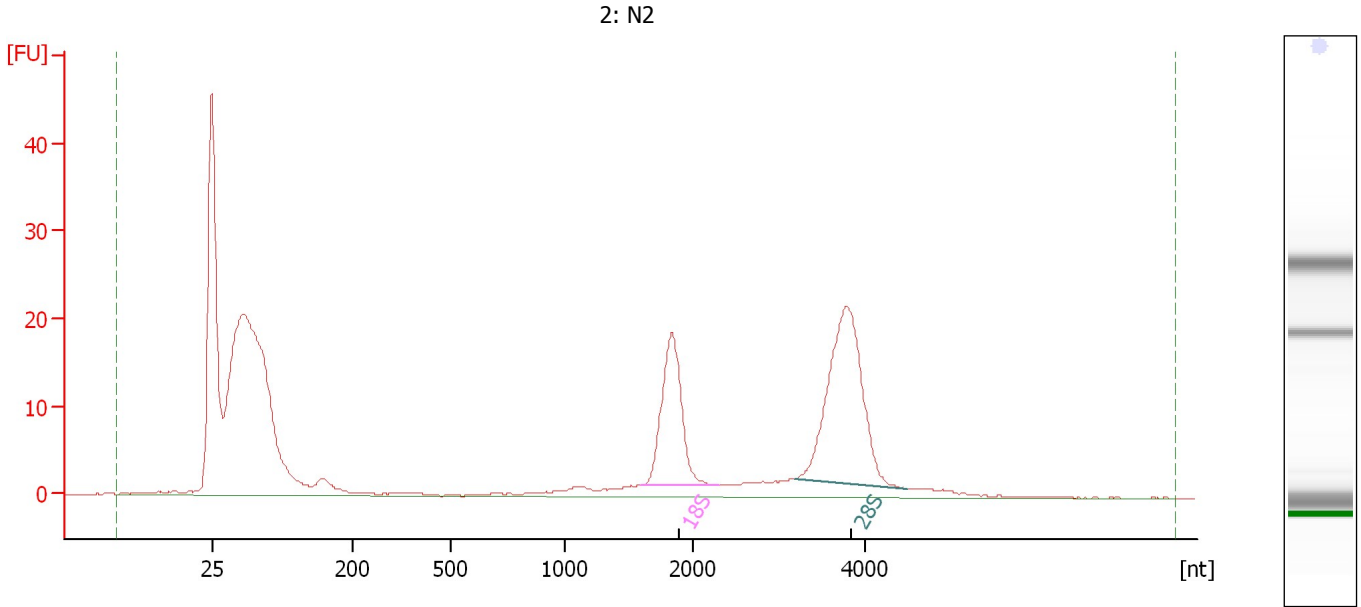
Overall Results for Ladder

RNA Area:	368.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 2: N2

RNA Area:	337.2	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	916 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

Fragment table for sample 1 : 2: N2

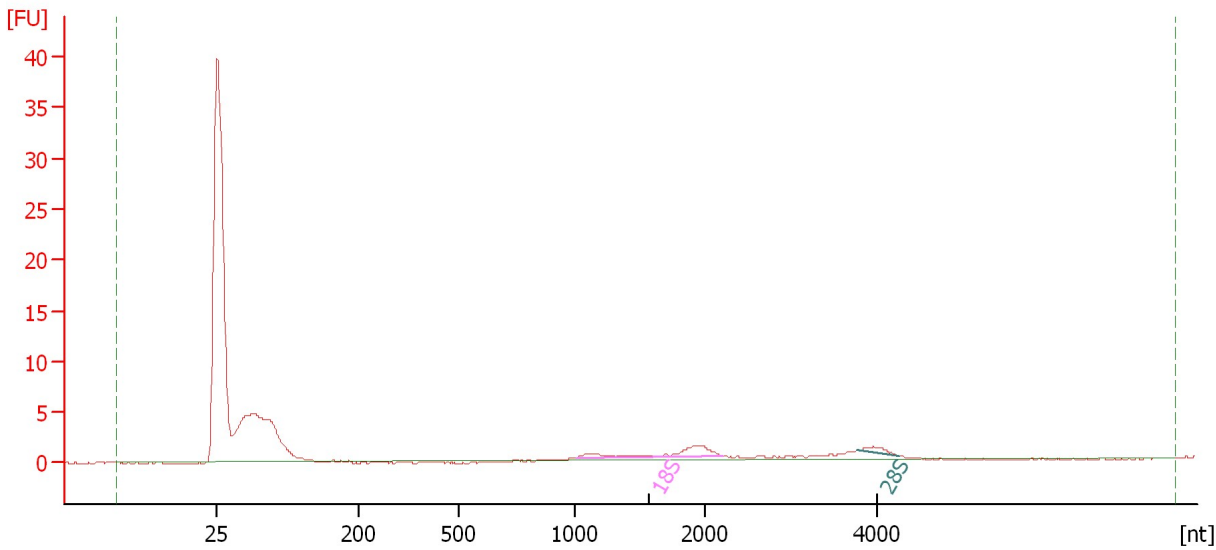
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	2,304	41.3	12.3
28S	3,179	4,504	69.7	20.7

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Electropherogram Summary Continued ...

9: C4



Overall Results for sample 2 : 9: C4

RNA Area:	53.7	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	146 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.90

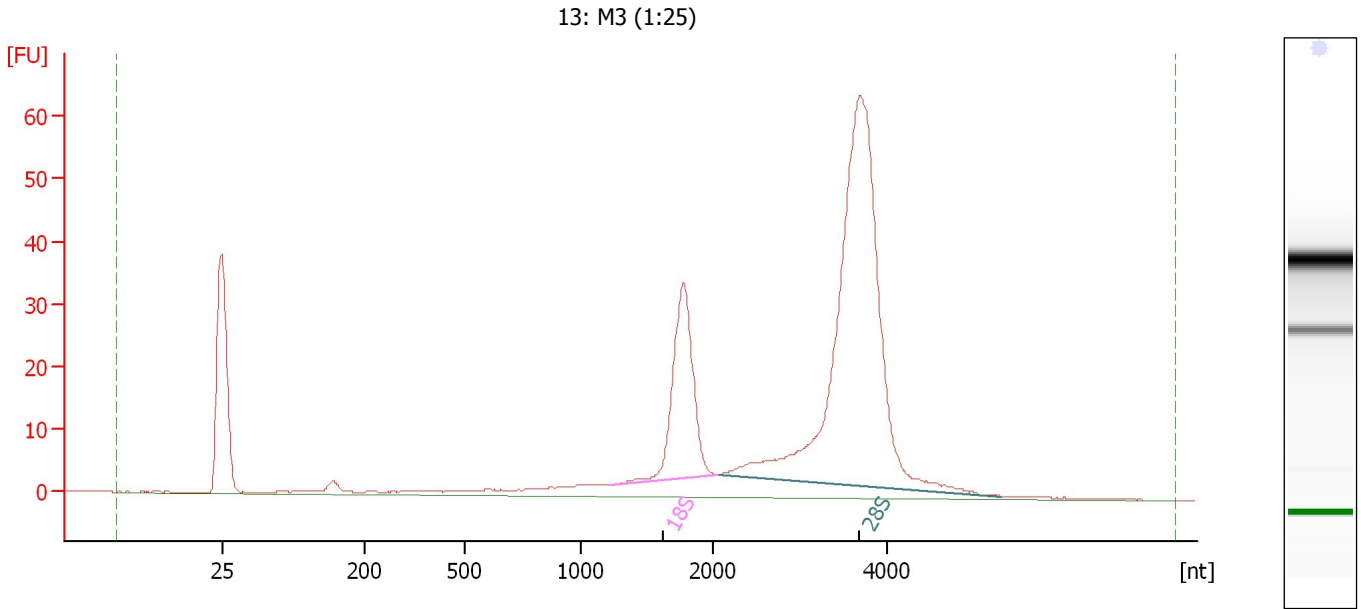
Fragment table for sample 2 : 9: C4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,028	2,218	4.7	8.7
28S	3,764	4,247	1.1	2.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 13: M3 (1:25)

RNA Area: 461.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 1,253 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.5 Result Flagging Label: RIN:10

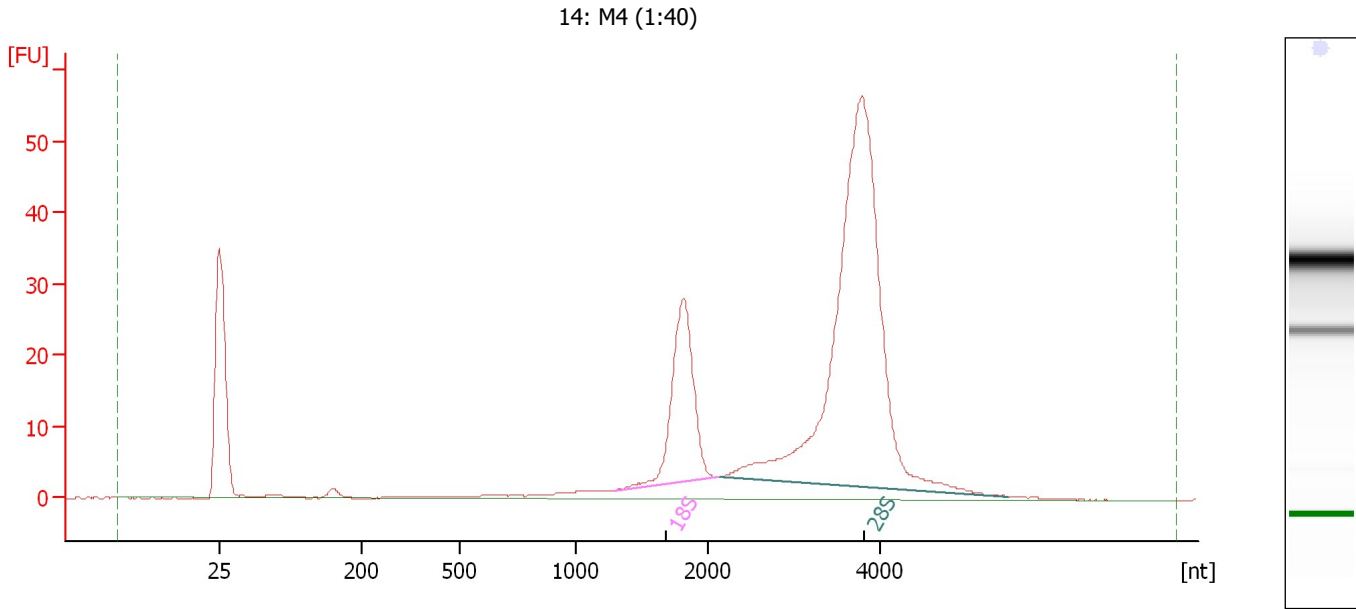
Fragment table for sample 3 : 13: M3 (1:25)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,233	2,059	74.6	16.2
28S	2,084	5,323	260.1	56.4

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 14: M4 (1:40)

RNA Area:	395.5	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,075 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.7	Result Flagging Label:	RIN:10

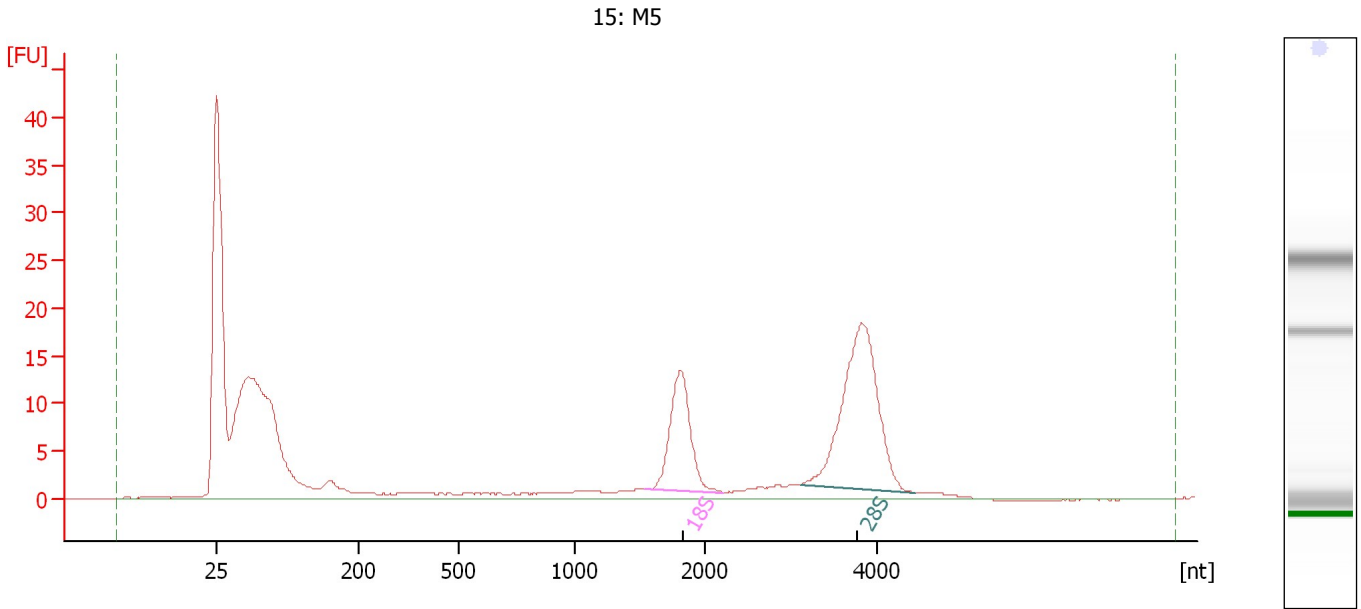
Fragment table for sample 4 : 14: M4 (1:40)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,292	2,132	64.9	16.4
28S	2,156	5,477	243.2	61.5

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 15: M5

RNA Area:	254.4	RNA Integrity Number (RIN):	9.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	691 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.10

Fragment table for sample 5 : 15: M5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	2,230	30.4	11.9
28S	3,121	4,432	61.3	24.1

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Gel Image

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		9/19/2016 1:51:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-09-19\2016-09-19_003.xad)		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/19/2016 1:29:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1