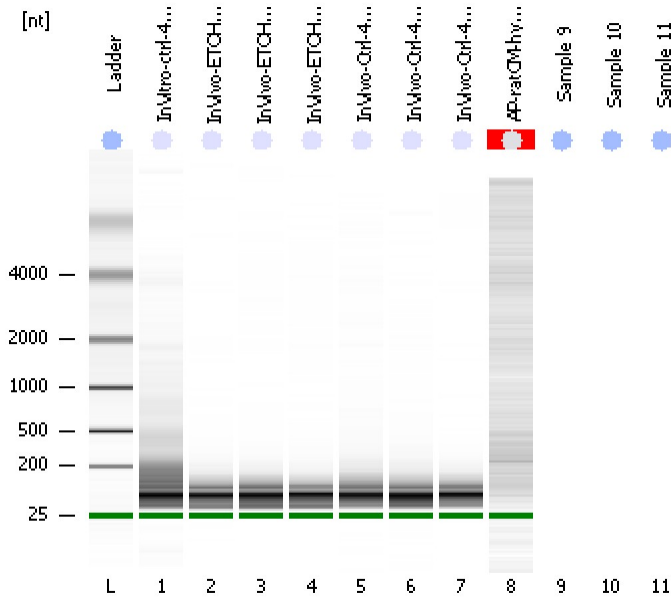


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electrophoresis File Run Summary



Instrument Information:

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

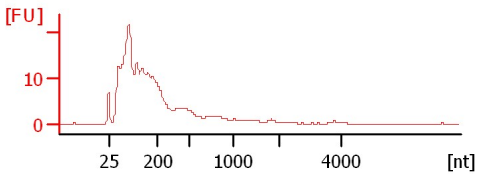
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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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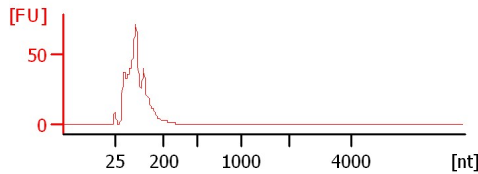
Chip Information:

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

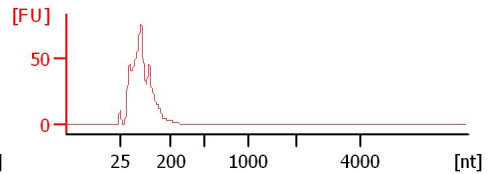
InVivo-ctrl-4hr-3
RIN: 2.30



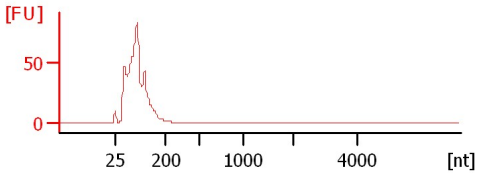
InVivo-ETOH-4hr-1
RIN: 2.60



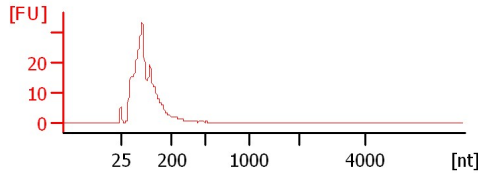
InVivo-ETOH-4hr-2
RIN: 2.60



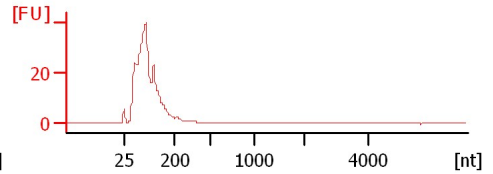
InVivo-ETOH-4hr-3
RIN: 2.60



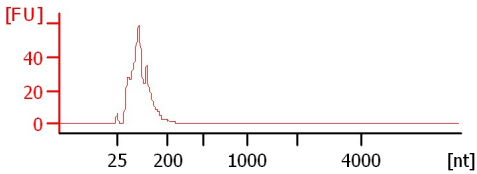
InVivo-Ctrl-4hr-1
RIN: 2.50



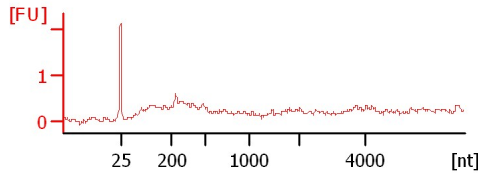
InVivo-Ctrl-4hr-2
RIN: 2.60



InVivo-Ctrl-4hr-3
RIN: 2.60



AP-ratCM-hypo-1(retest)
RIN N/A



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
InVitro-ctrl-4hr-3		✓	RIN: 2.30	
InVivo-ETOH-4hr-1		✓	RIN: 2.60	
InVivo-ETOH-4hr-2		✓	RIN: 2.60	
InVivo-ETOH-4hr-3		✓	RIN: 2.60	
InVivo-Ctrl-4hr-1		✓	RIN: 2.50	
InVivo-Ctrl-4hr-2		✓	RIN: 2.60	
InVivo-Ctrl-4hr-3		✓	RIN: 2.60	
AP-ratCM-hypo-1(retest)		✓	RIN N/A	
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

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

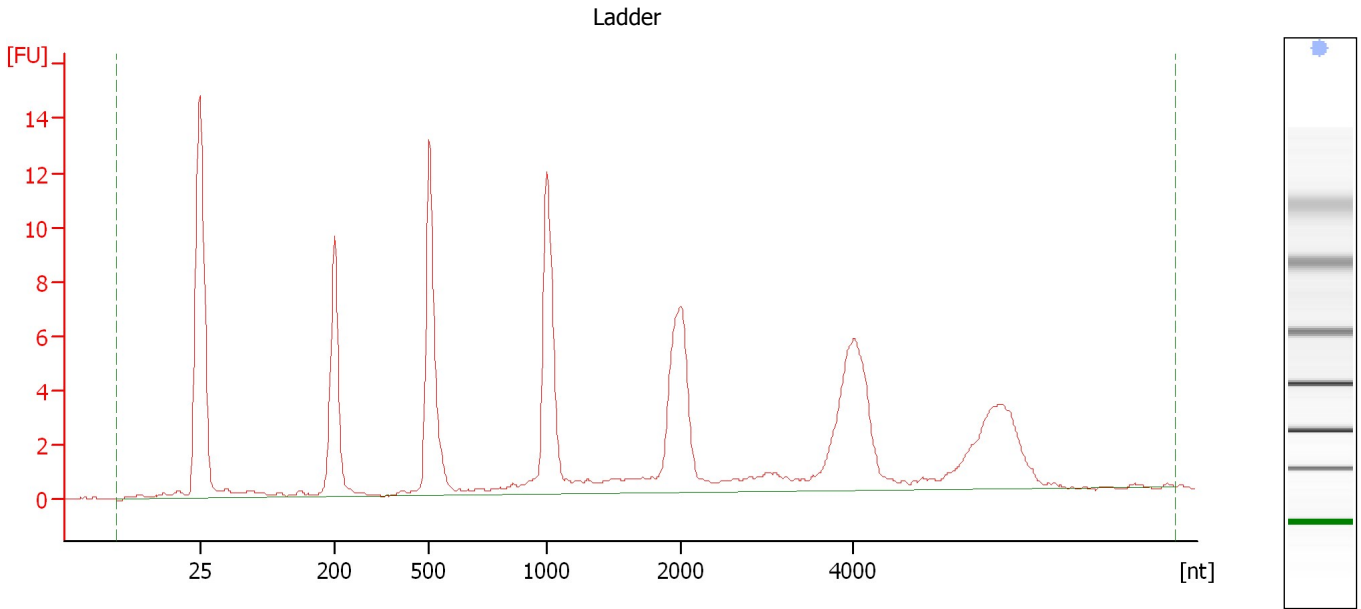
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary



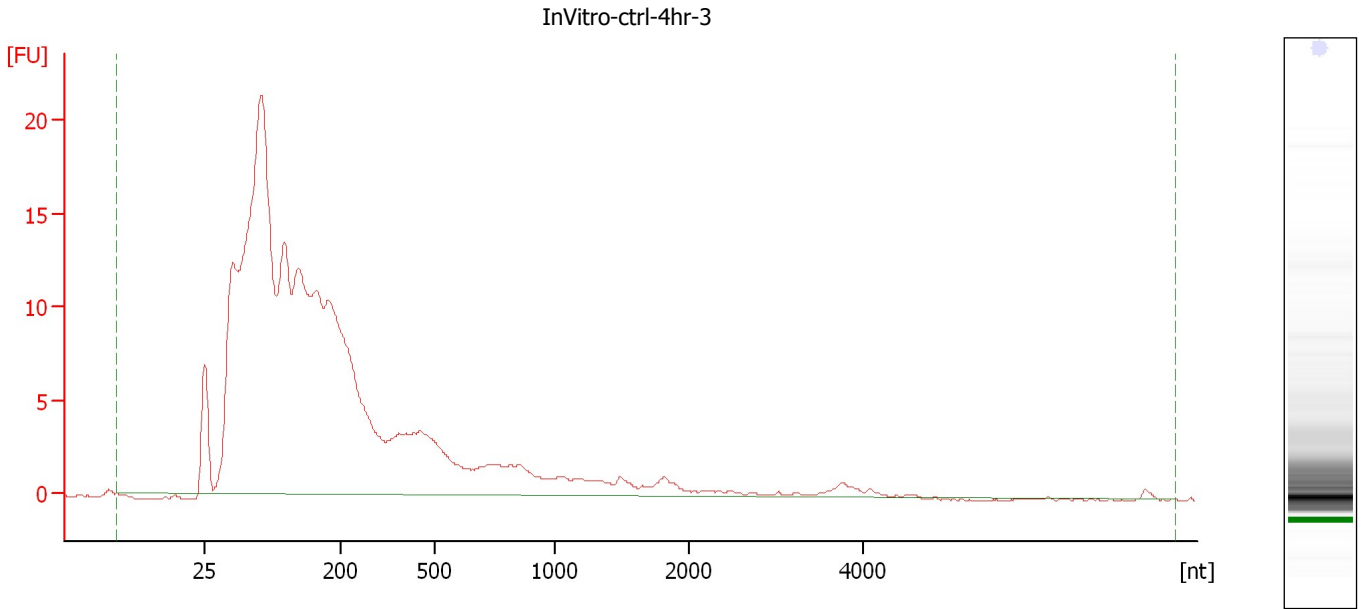
Overall Results for Ladder

RNA Area:	113.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...



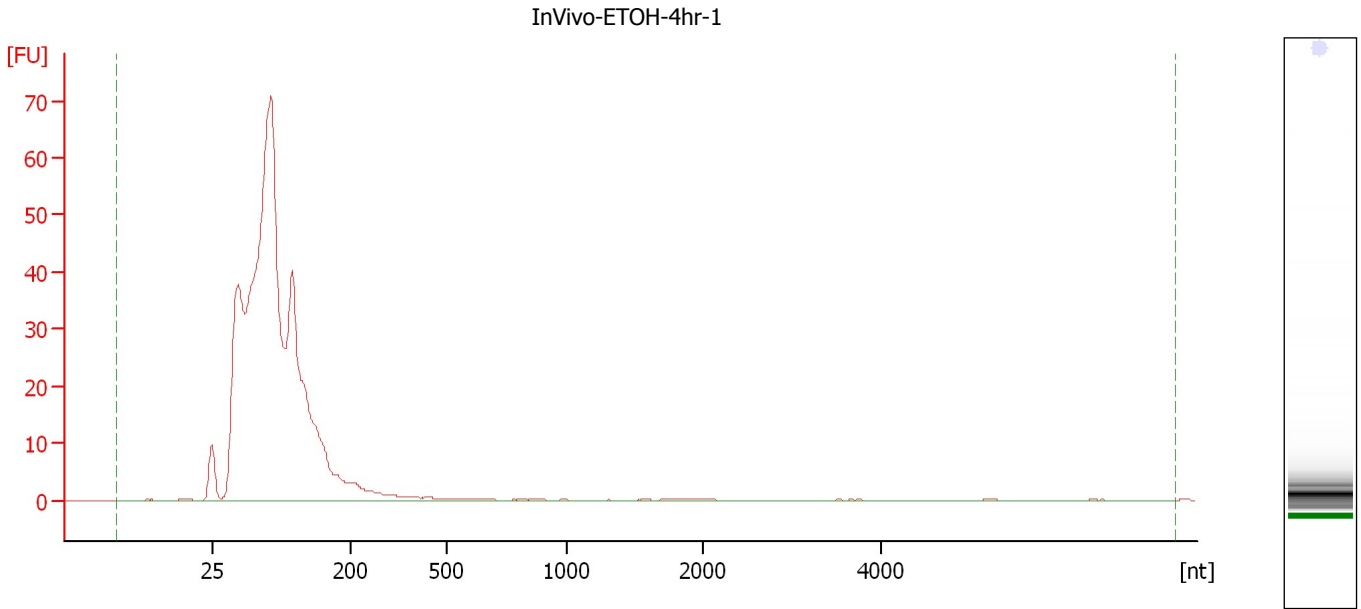
Overall Results for sample 1 : InVitro-ctrl-4hr-3

RNA Area:	351.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	3,084 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...



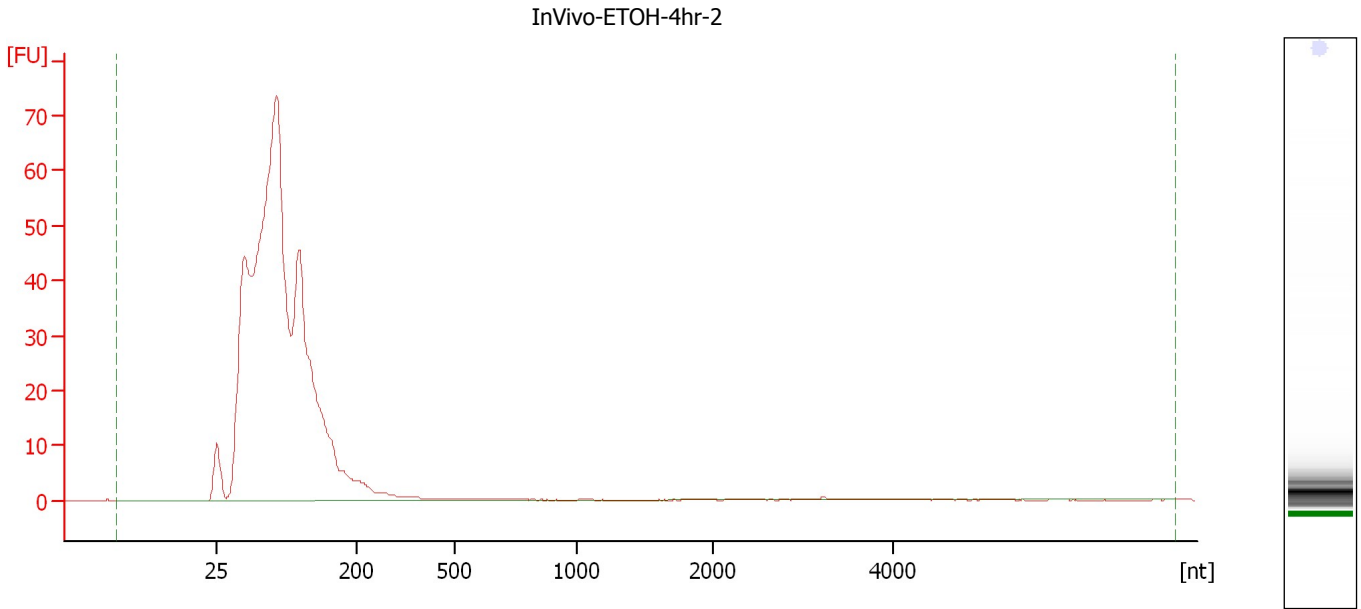
Overall Results for sample 2 : InVivo-ETOH-4hr-1

RNA Area:	597.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	5,244 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : InVivo-ETOH-4hr-2

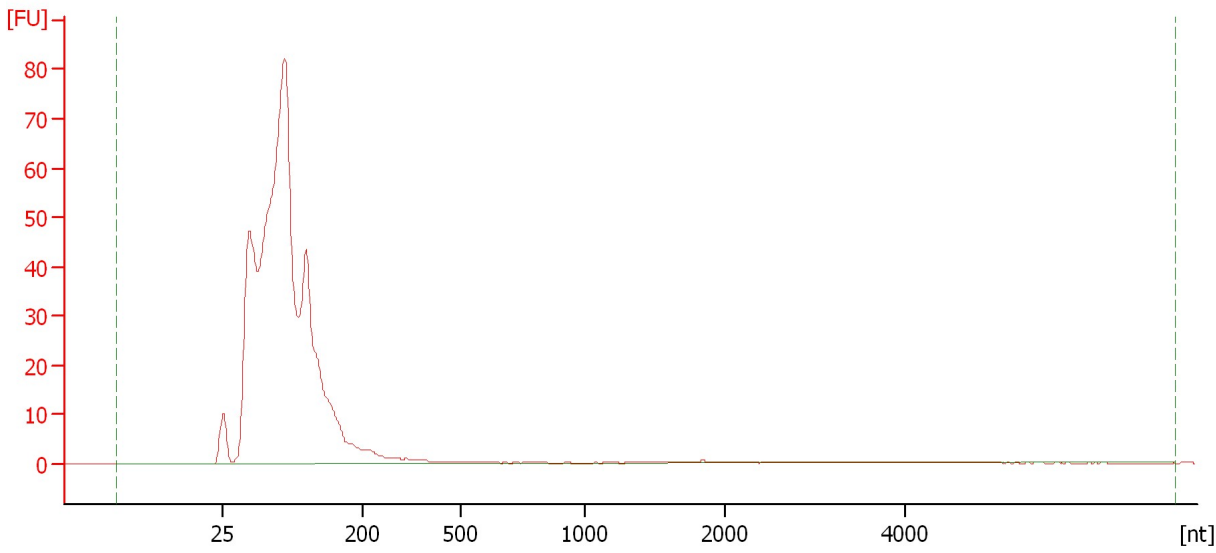
RNA Area:	684.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	6,009 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...

InVivo-ETOH-4hr-3



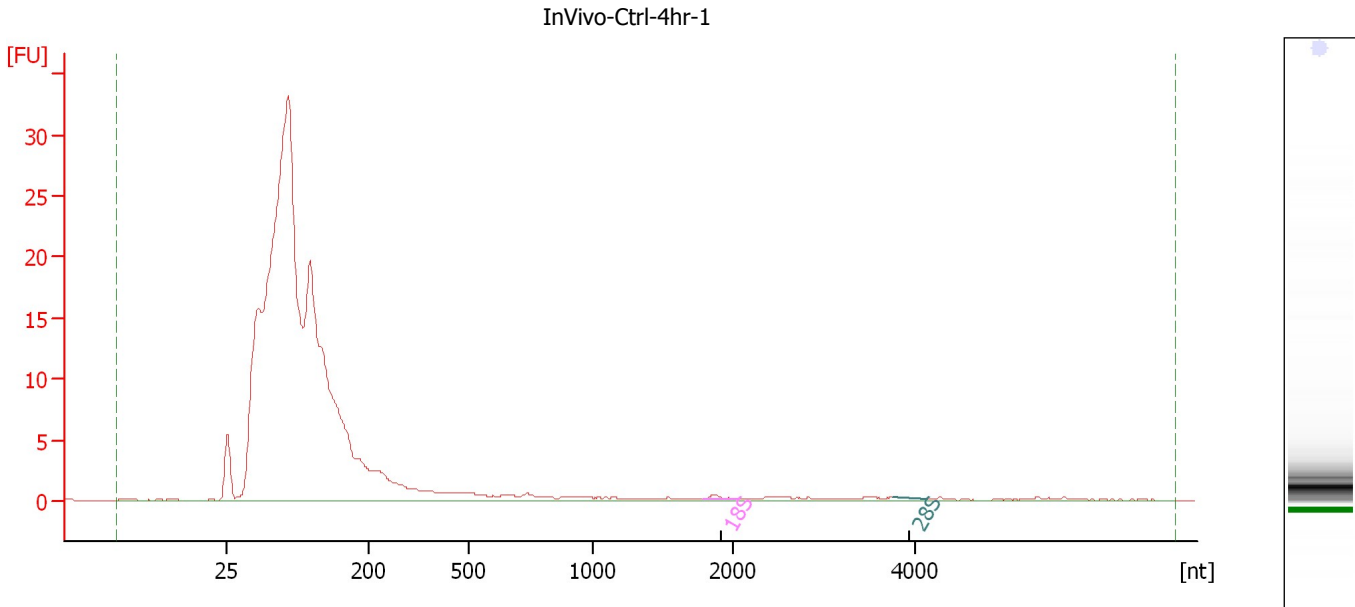
Overall Results for sample 4 : InVivo-ETOH-4hr-3

RNA Area:	688.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	6,047 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
 Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : InVivo-Ctrl-4hr-1

RNA Area:	320.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	2,810 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.50

Fragment table for sample 5 : InVivo-Ctrl-4hr-1

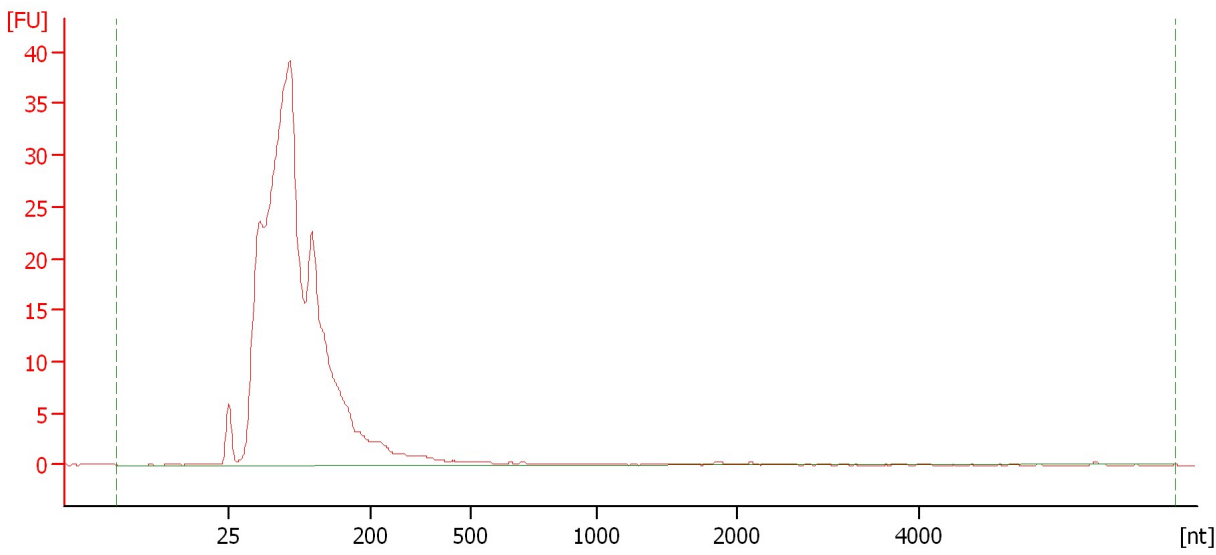
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,793	2,082	0.5	0.2
28S	3,758	4,144	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...

InVivo-Ctrl-4hr-2



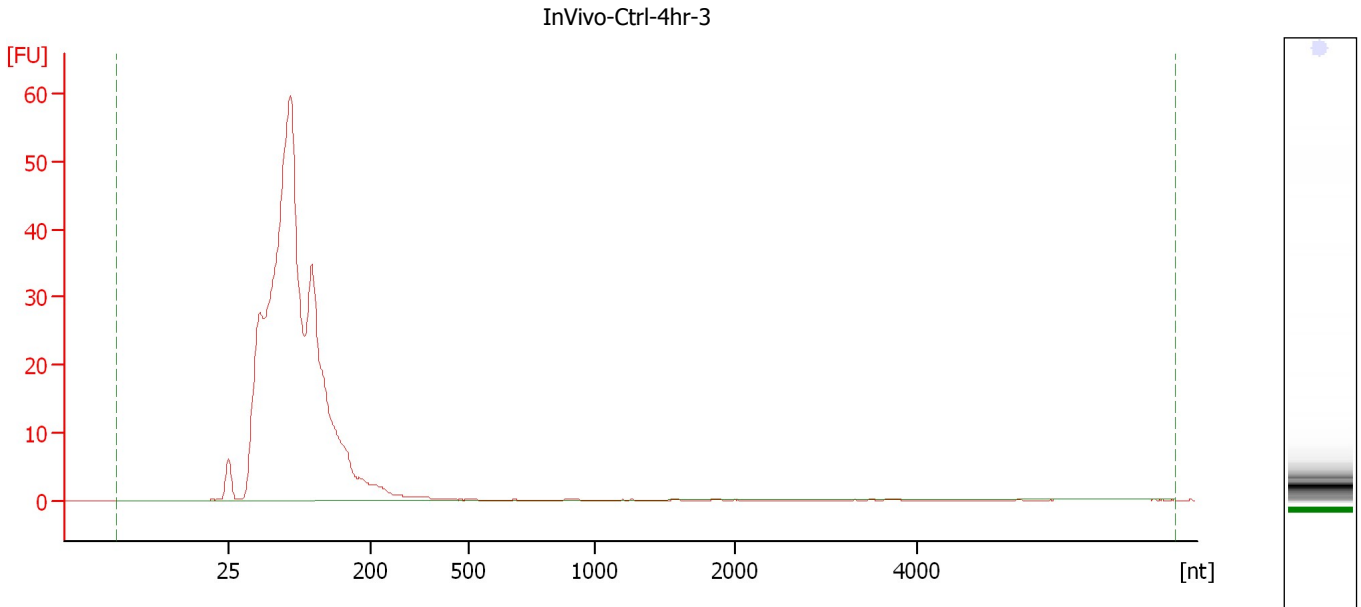
Overall Results for sample 6 : InVivo-Ctrl-4hr-2

RNA Area:	369.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	3,242 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : InVivo-Ctrl-4hr-3

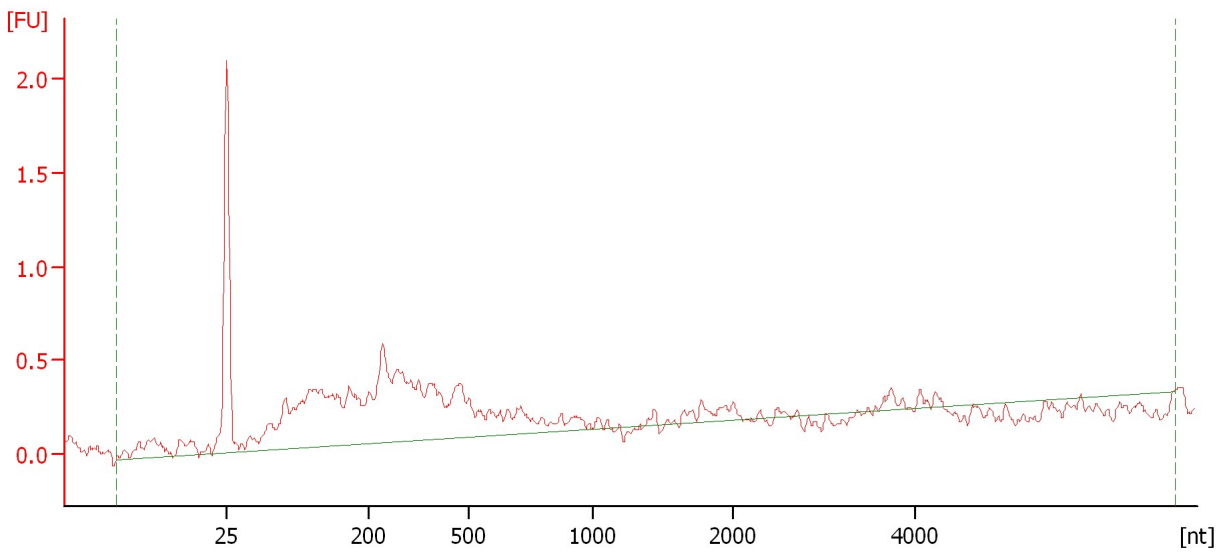
RNA Area:	480.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	4,216 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Electropherogram Summary Continued ...

AP-ratCM-hypo-1(retest)



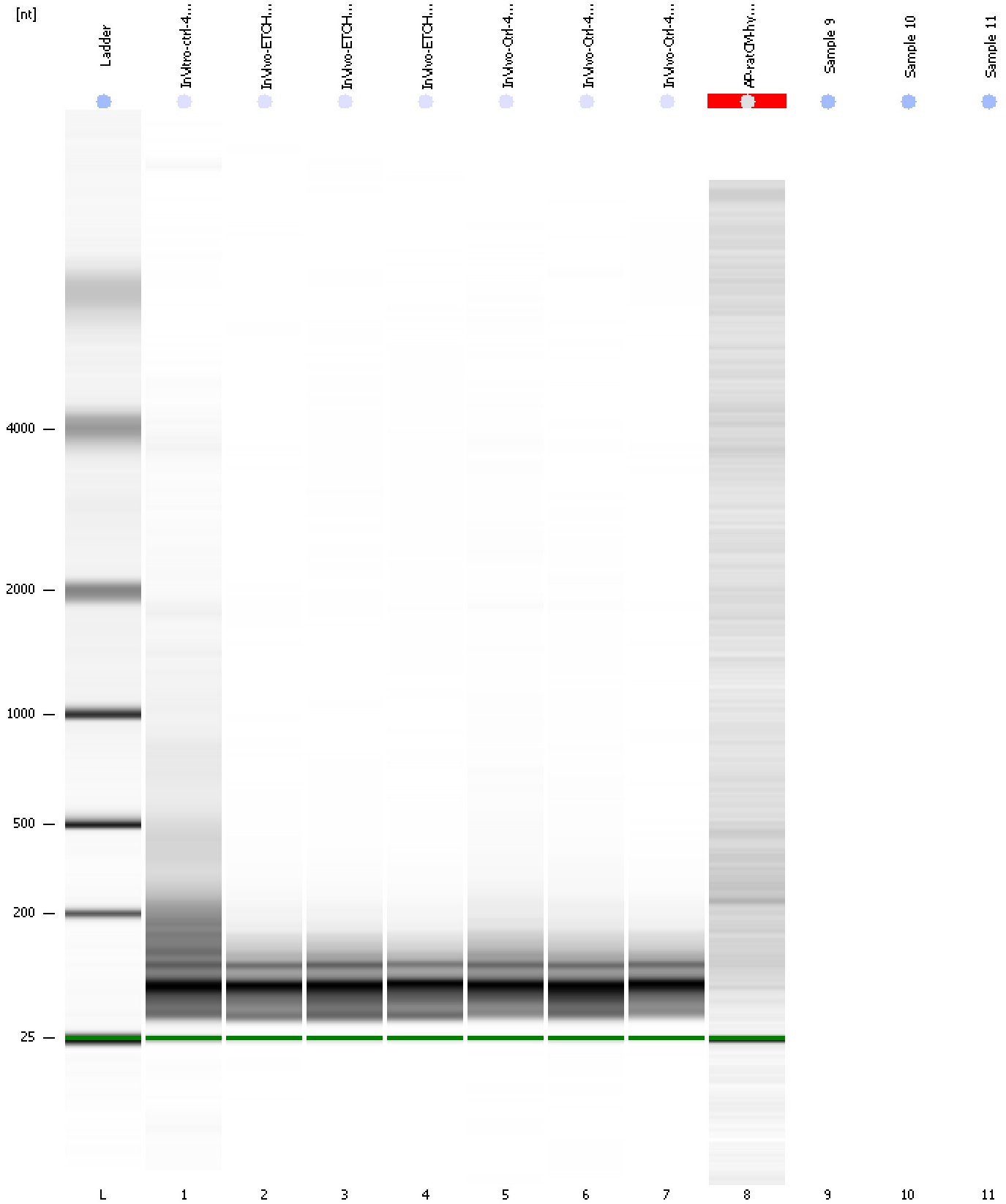
Overall Results for sample 8 : AP-ratCM-hypo-1(retest)

RNA Area:	11.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	98 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Gel Image

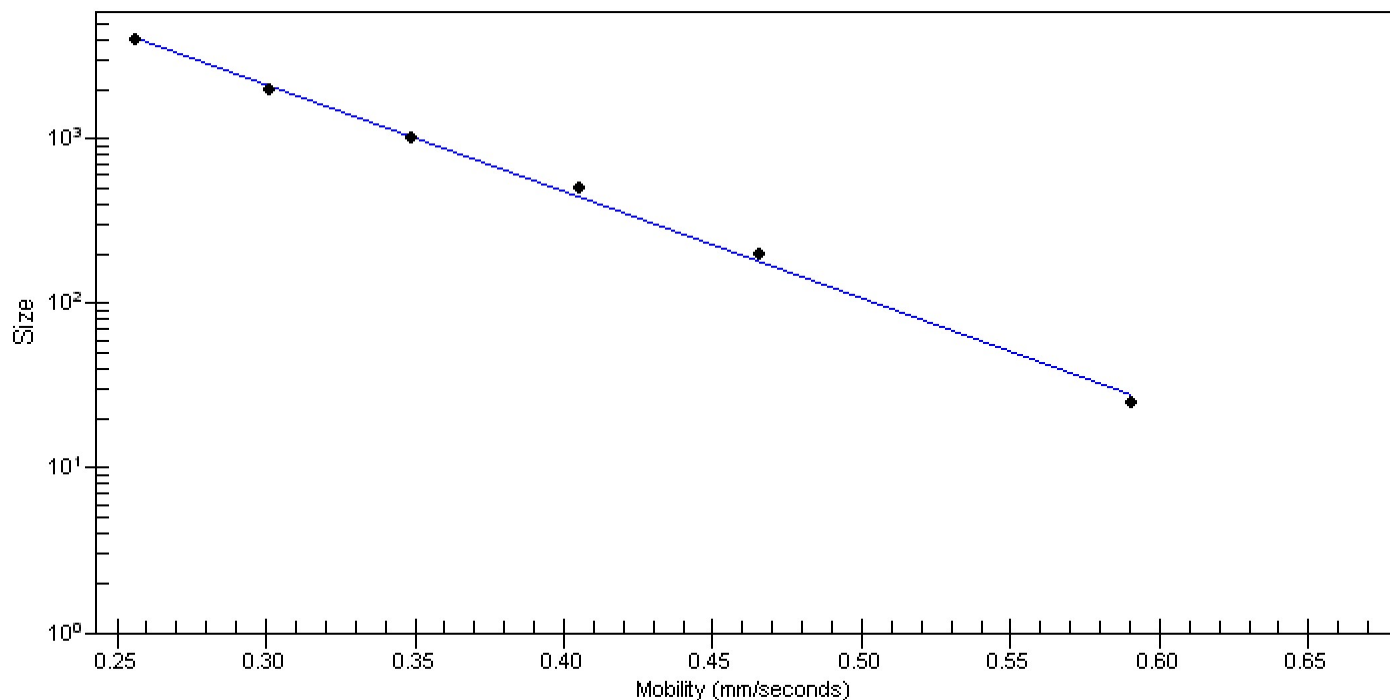


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
Modified: 3/31/2016 11:45:13 AM

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: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad

Created: 3/31/2016 11:07:07 AM
 Modified: 3/31/2016 11:45:13 AM

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		3/31/2016 11:25:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-31\2016-03-31_002.xad)		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1