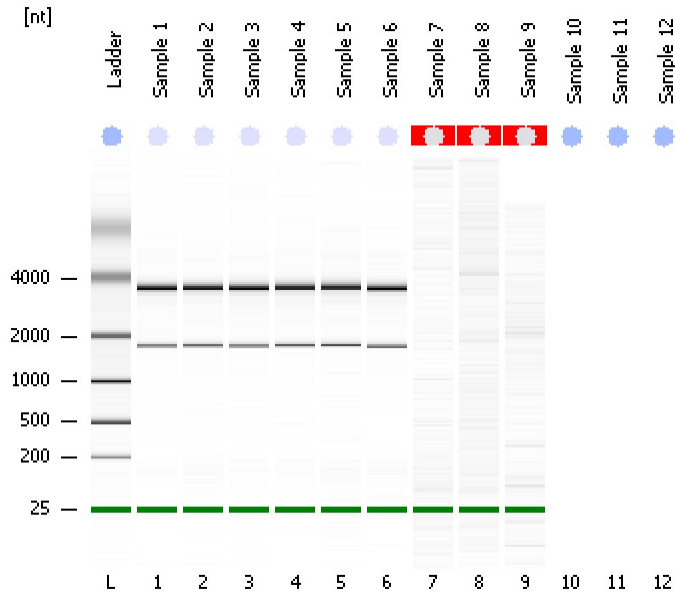


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

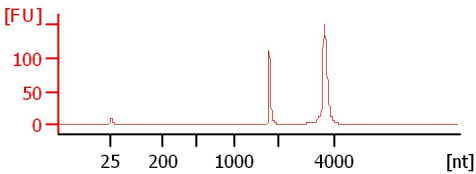
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

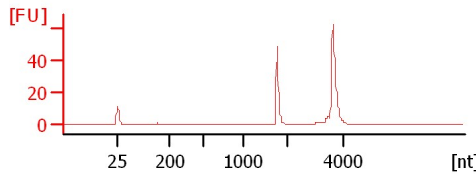
Chip Information:

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

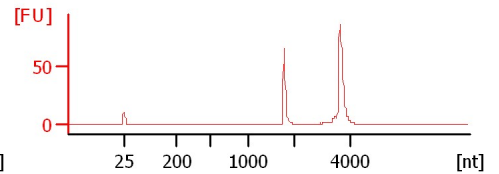
Sample 1
RIN:10



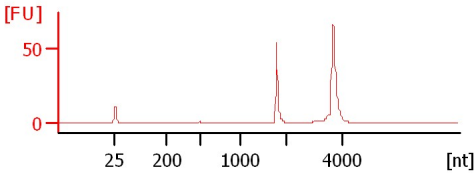
Sample 2
RIN:10



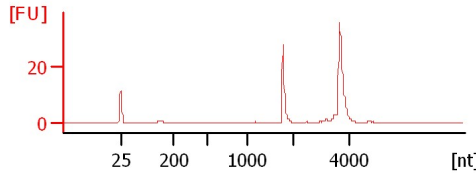
Sample 3
RIN:10



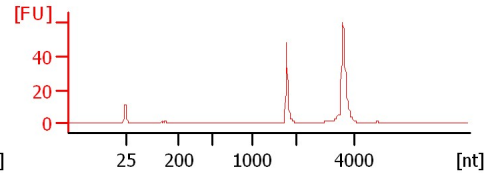
Sample 4
RIN:10



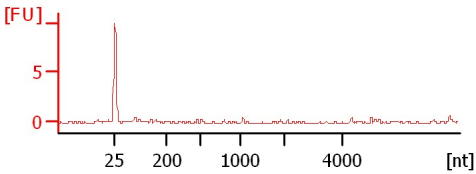
Sample 5
RIN:10



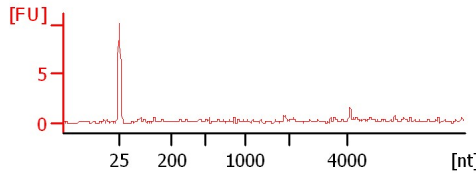
Sample 6
RIN:10



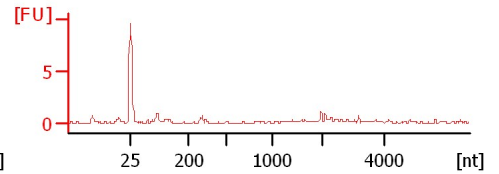
Sample 7
RIN N/A



Sample 8
RIN N/A



Sample 9
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN:10	
Sample 2		✓	RIN:10	
Sample 3		✓	RIN:10	
Sample 4		✓	RIN:10	
Sample 5		✓	RIN:10	
Sample 6		✓	RIN:10	
Sample 7		✓	RIN N/A	
Sample 8		✓	RIN N/A	
Sample 9		✗	RIN N/A	
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:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 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

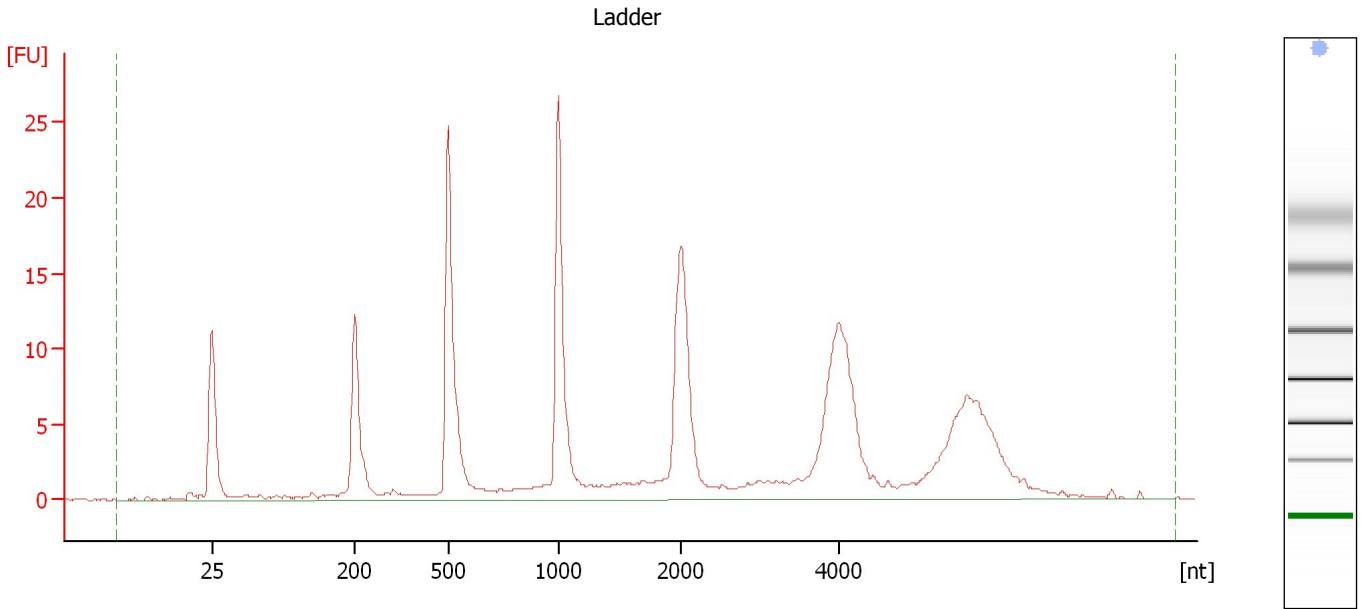
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary



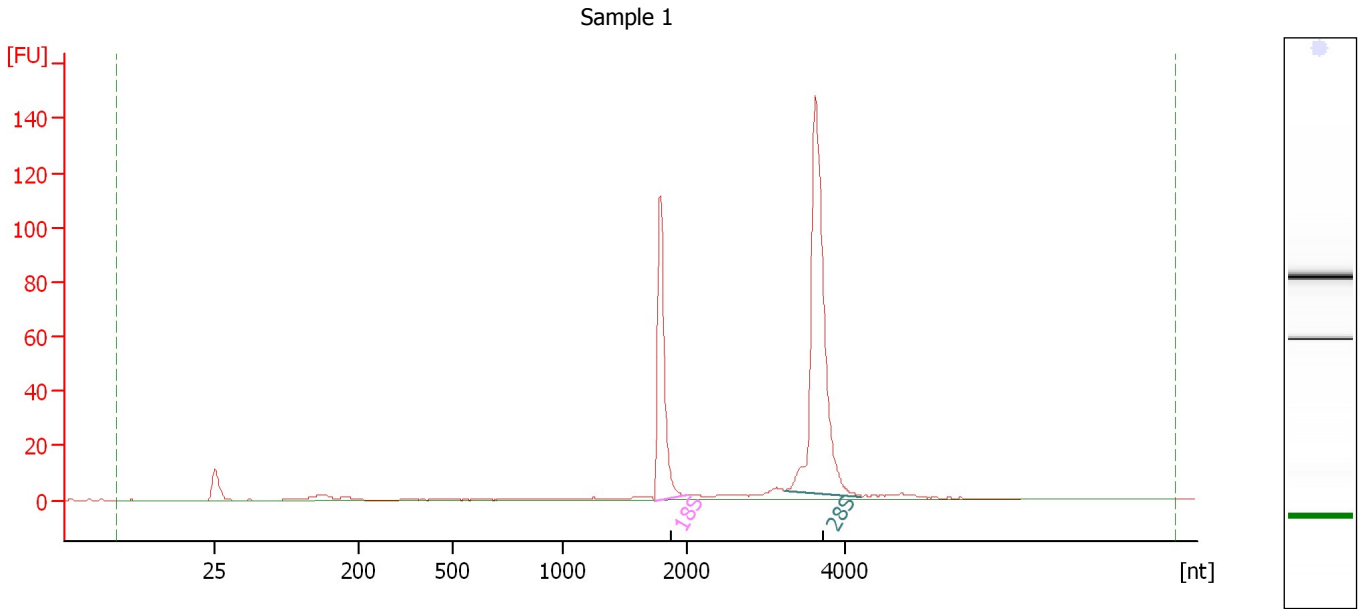
Overall Results for Ladder

RNA Area:	214.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
 Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	339.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	237 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN:10

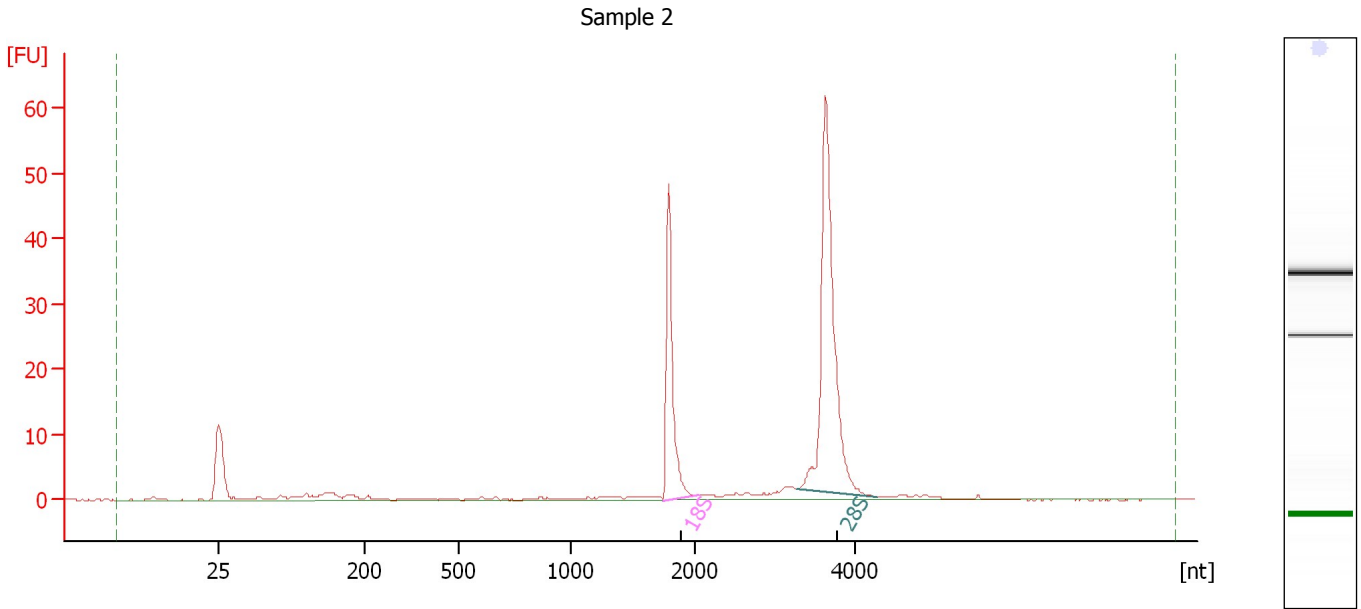
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	1,993	86.2	25.4
28S	3,233	4,207	193.3	56.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	156.2	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	109 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

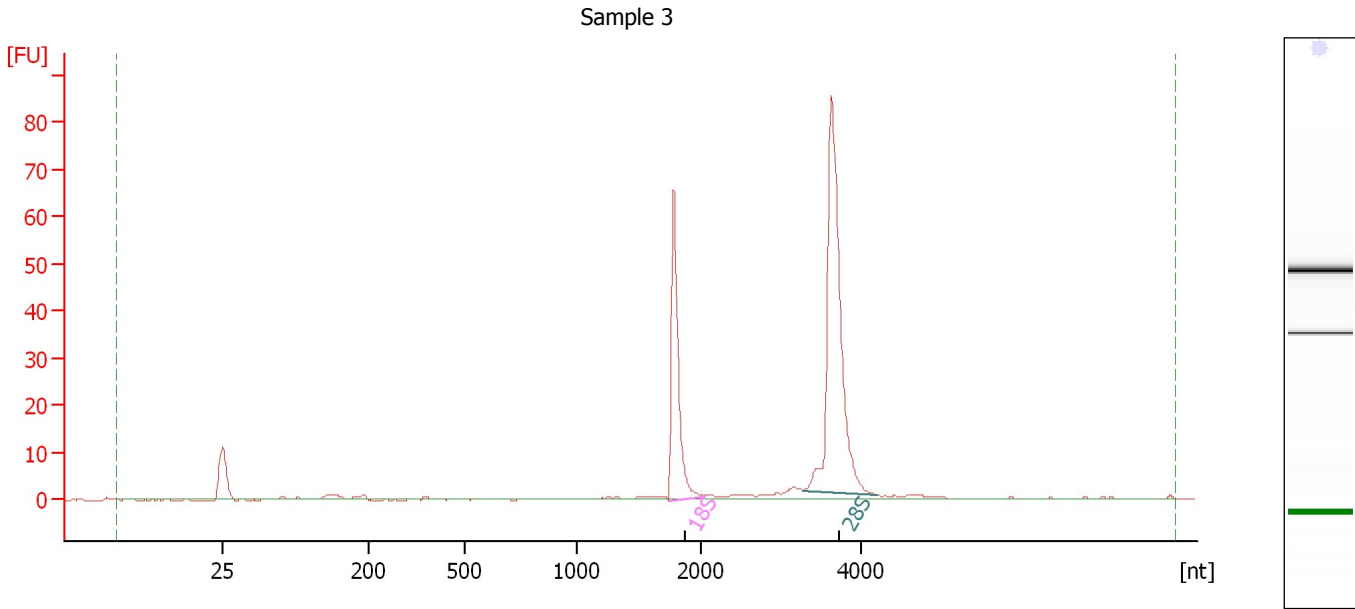
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	2,048	37.1	23.7
28S	3,281	4,274	78.1	50.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
 Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	185.4	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	129 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

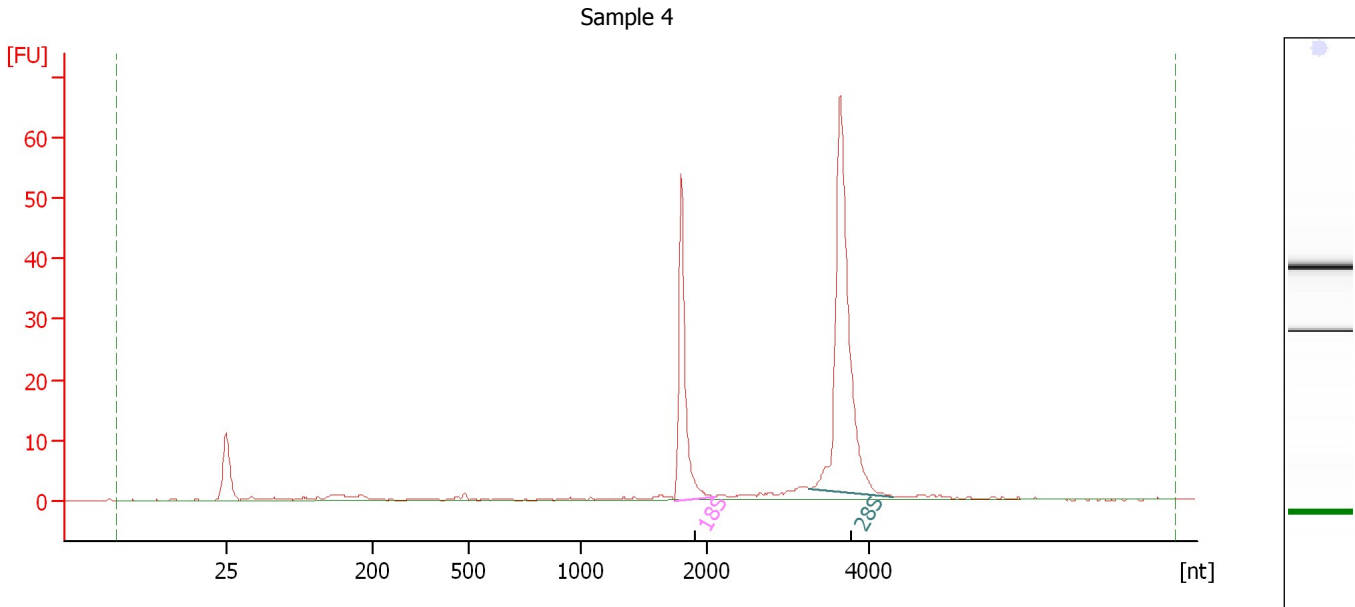
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	2,024	51.2	27.6
28S	3,263	4,196	109.3	59.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	166.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	116 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

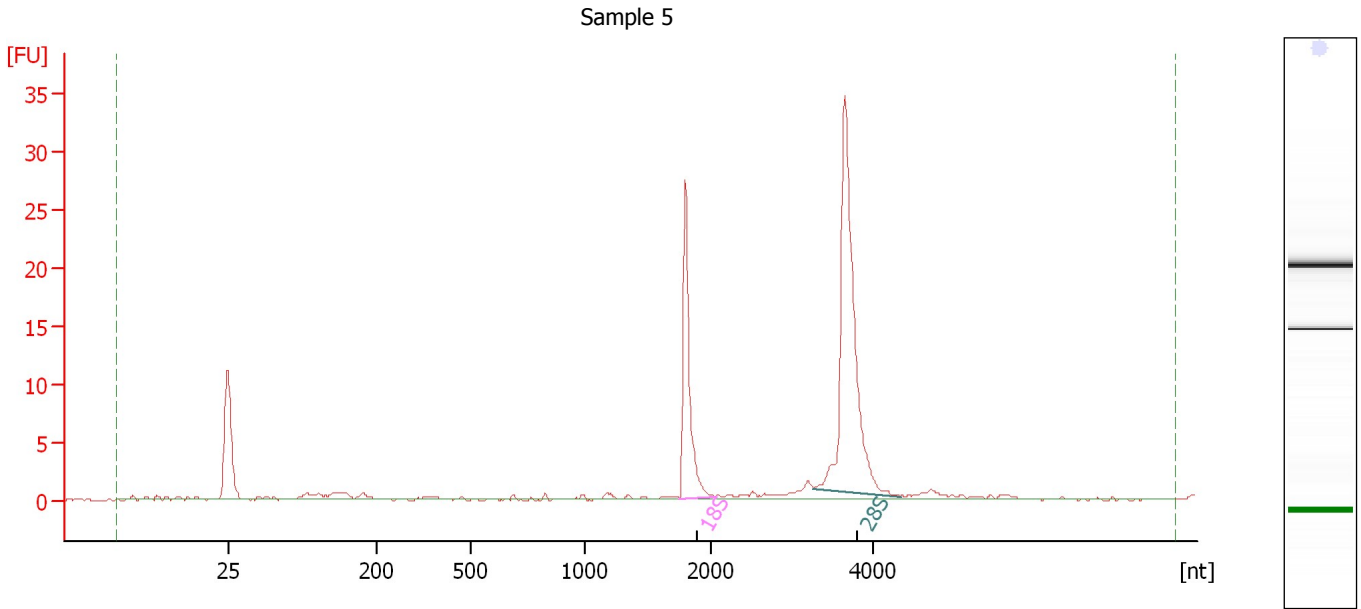
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,738	2,080	41.1	24.7
28S	3,246	4,292	86.3	52.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area: 88.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 61 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN:10

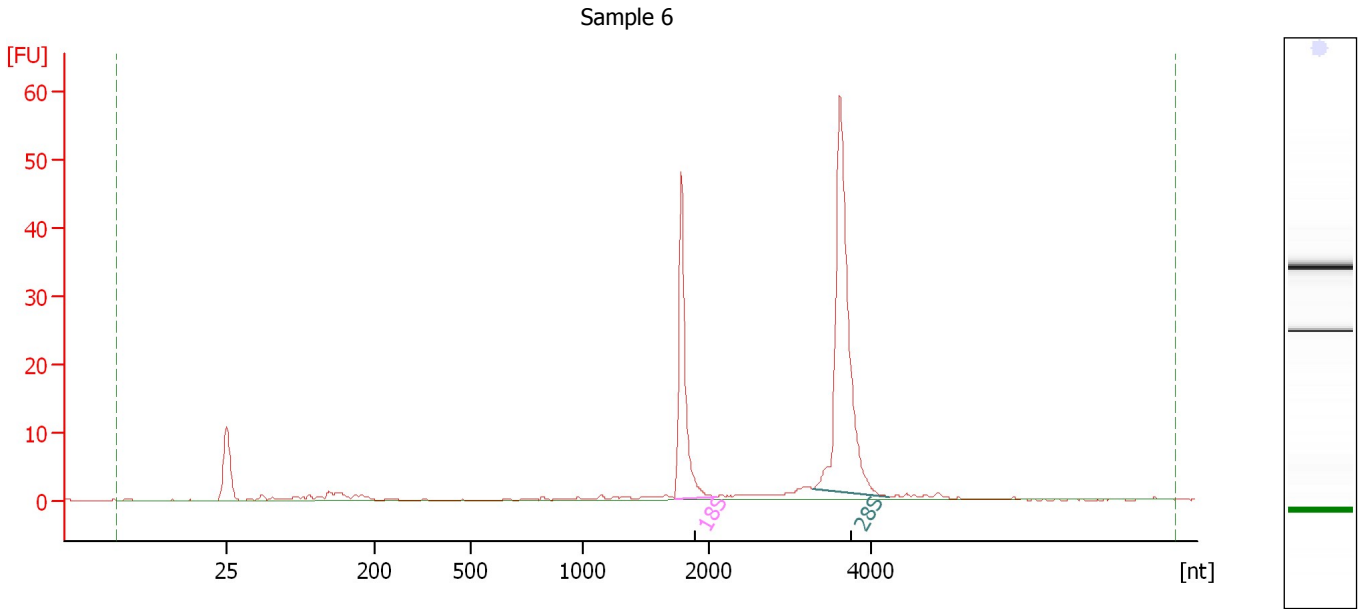
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,740	2,042	20.8	23.6
28S	3,256	4,325	45.0	51.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 146.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 102 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

Fragment table for sample 6 : Sample 6

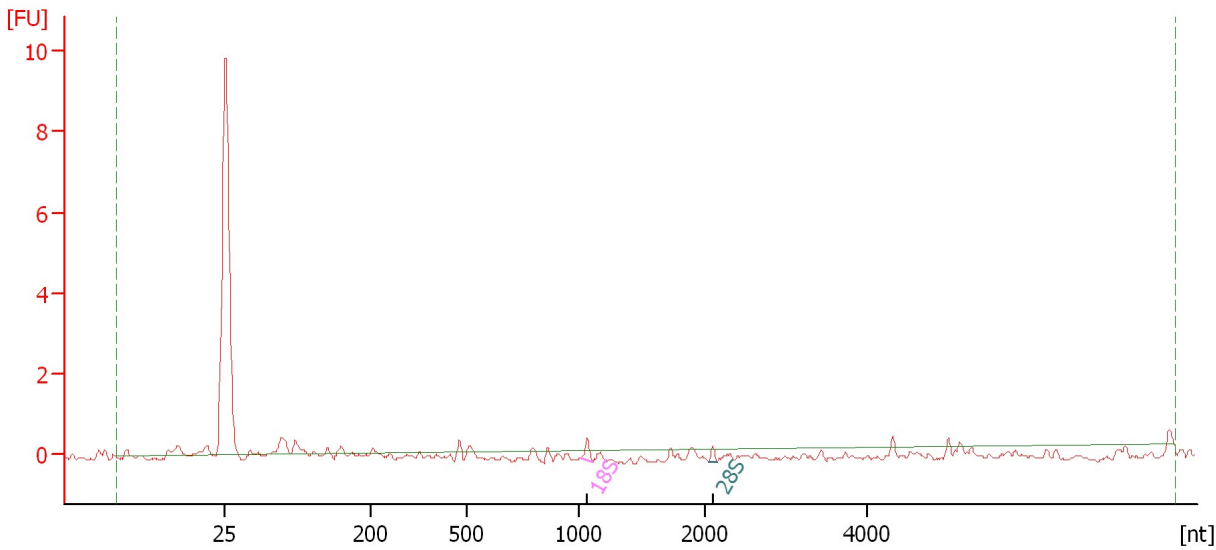
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,081	36.8	25.2
28S	3,284	4,209	75.0	51.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

RNA Area: 2.9 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 2 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN N/A

Fragment table for sample 7 : Sample 7

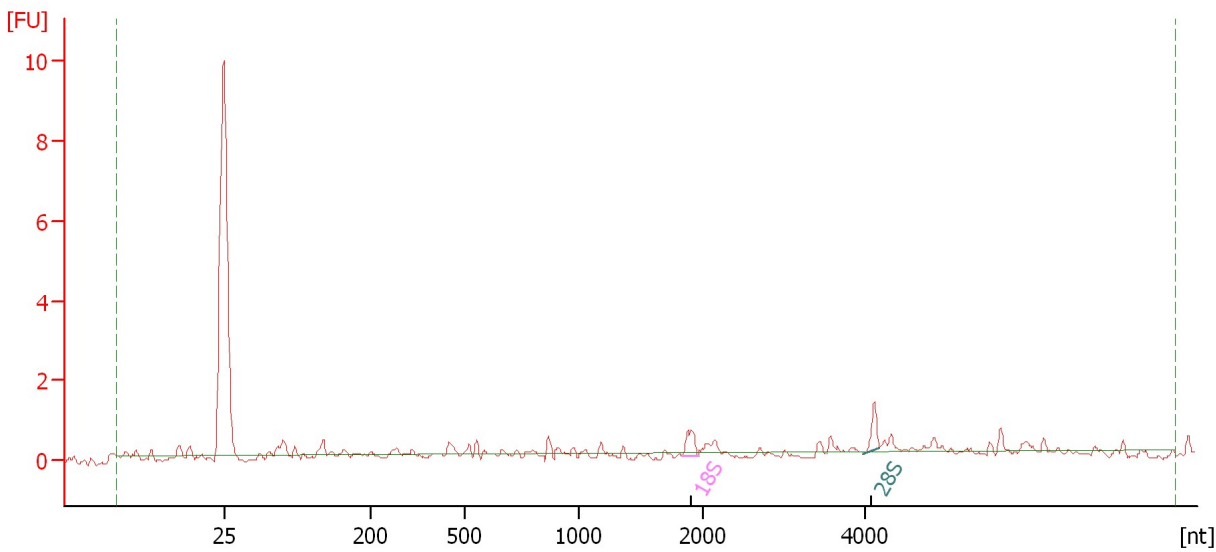
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,007	1,100	0.3	10.6
28S	2,039	2,146	0.2	6.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area:	7.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

Fragment table for sample 8 : Sample 8

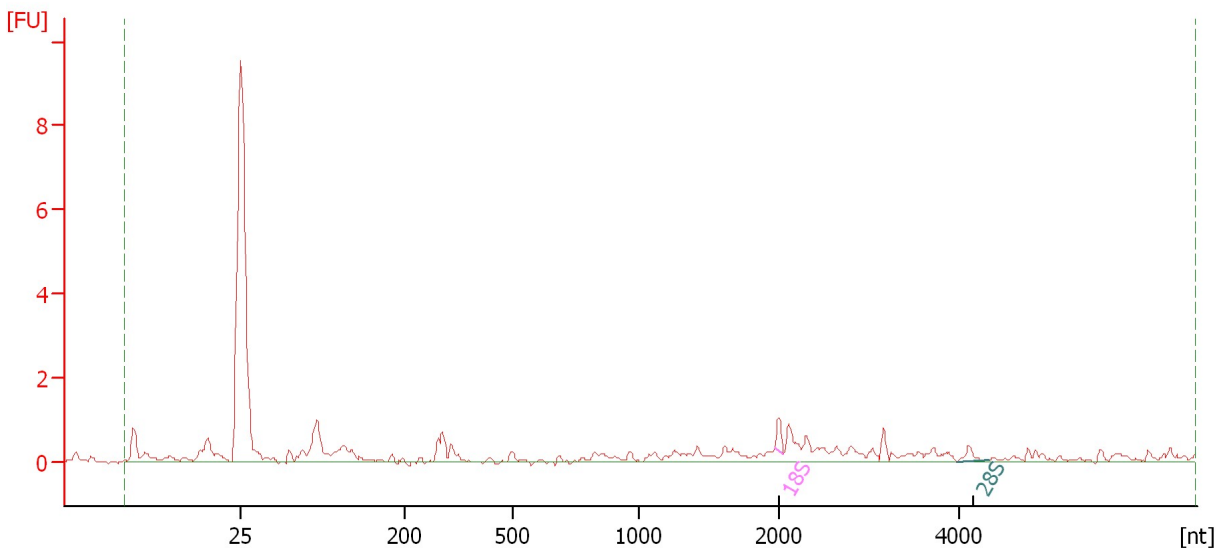
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,829	1,956	0.6	7.9
28S	3,993	4,193	0.6	8.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
 Modified: 7/15/2016 10:20:20 AM

Electropherogram Summary Continued ...

Sample 9



Setpoint Deviations for sample 9 : Sample 9

End Analysis Time Range [s] : 64.1

Overall Results for sample 9 : Sample 9

RNA Area:	18.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN N/A

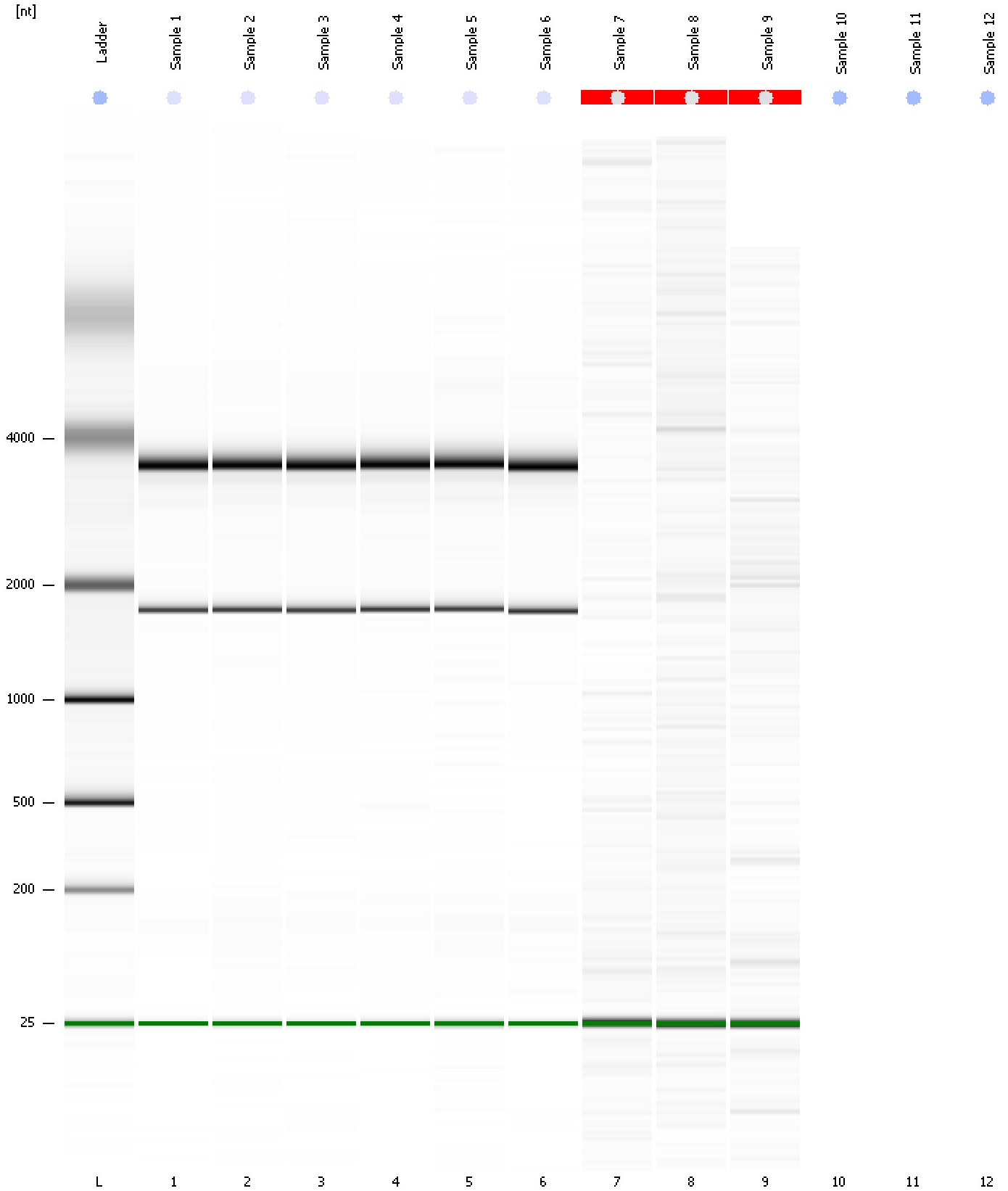
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,972	2,050	0.3	1.9
28S	3,973	4,333	0.3	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
Modified: 7/15/2016 10:20:20 AM

Invalid Samples

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:\... bioanalyzer\2100 expert\data\2016-07-15\2016-07-15_001.xad

Created: 7/15/2016 10:00:37 AM
 Modified: 7/15/2016 10:20:20 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		7/15/2016 10:20:20 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\2016-07-15\2016-07-15_001.xad)		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/15/2016 10:00:43 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1