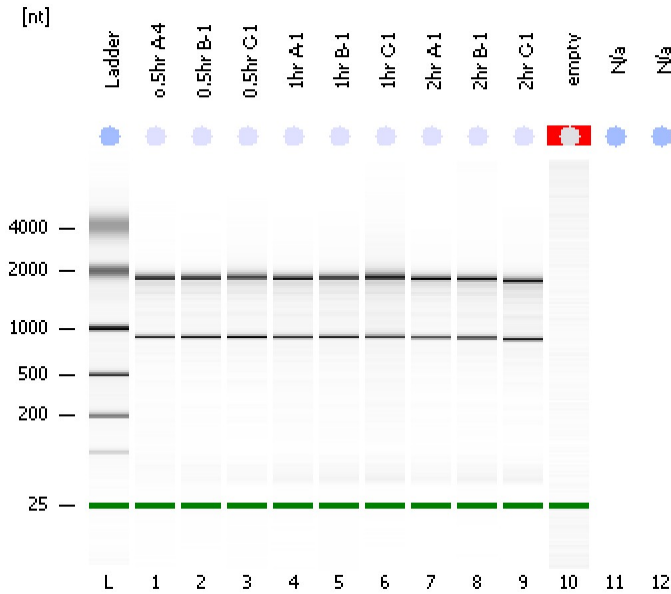


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

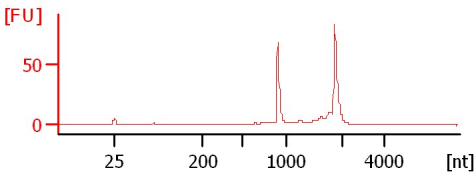
Assay Information:

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

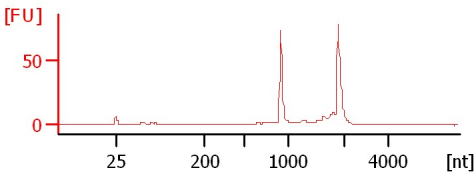
Chip Information:

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

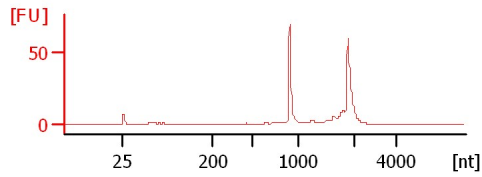
**0.5hr A-4**  
RIN: 9.20



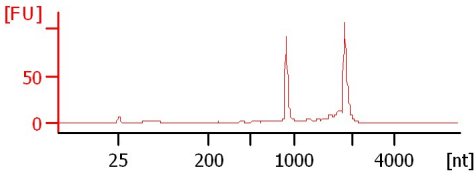
**0.5hr B-1**  
RIN: 9.10



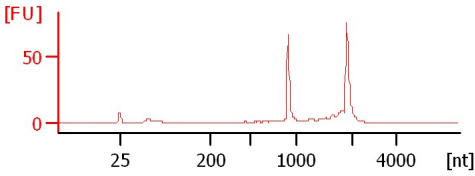
**0.5hr C-1**  
RIN: 9.40



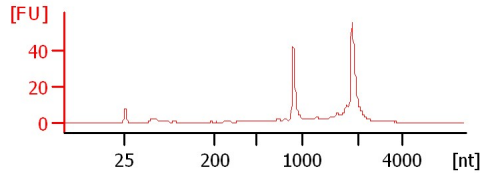
**1hr A-1**  
RIN: 8.60



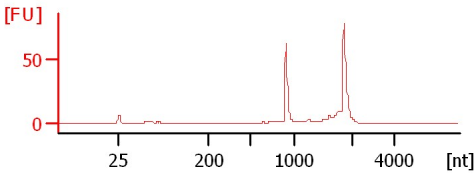
**1hr B-1**  
RIN: 8.80



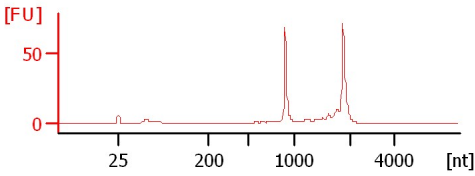
**1hr C-1**  
RIN: 8.50



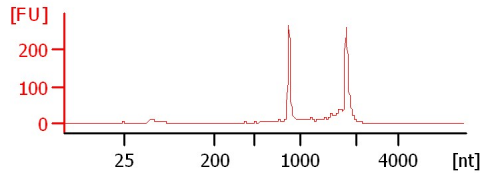
**2hr A-1**  
RIN: 9.50



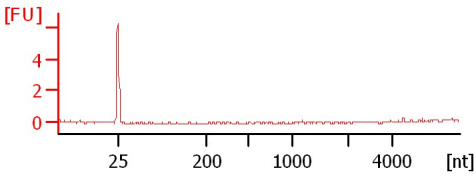
**2hr B-1**  
RIN: 9



**2hr C-1**  
RIN: 8.70



**empty**  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
 Modified: 2/28/2017 12:51:22 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
o.5hr A-4		✓	RIN: 9.20	
0.5hr B-1		✓	RIN: 9.10	
0.5hr C-1		✓	RIN: 9.40	
1hr A-1		✓	RIN: 8.60	
1hr B-1		✓	RIN: 8.80	
1hr C-1		✓	RIN: 8.50	
2hr A-1		✓	RIN: 9.50	
2hr B-1		✓	RIN:9	
2hr C-1		✓	RIN: 8.70	
empty		✓	RIN N/A	
N/a				
N/a				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

## 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 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

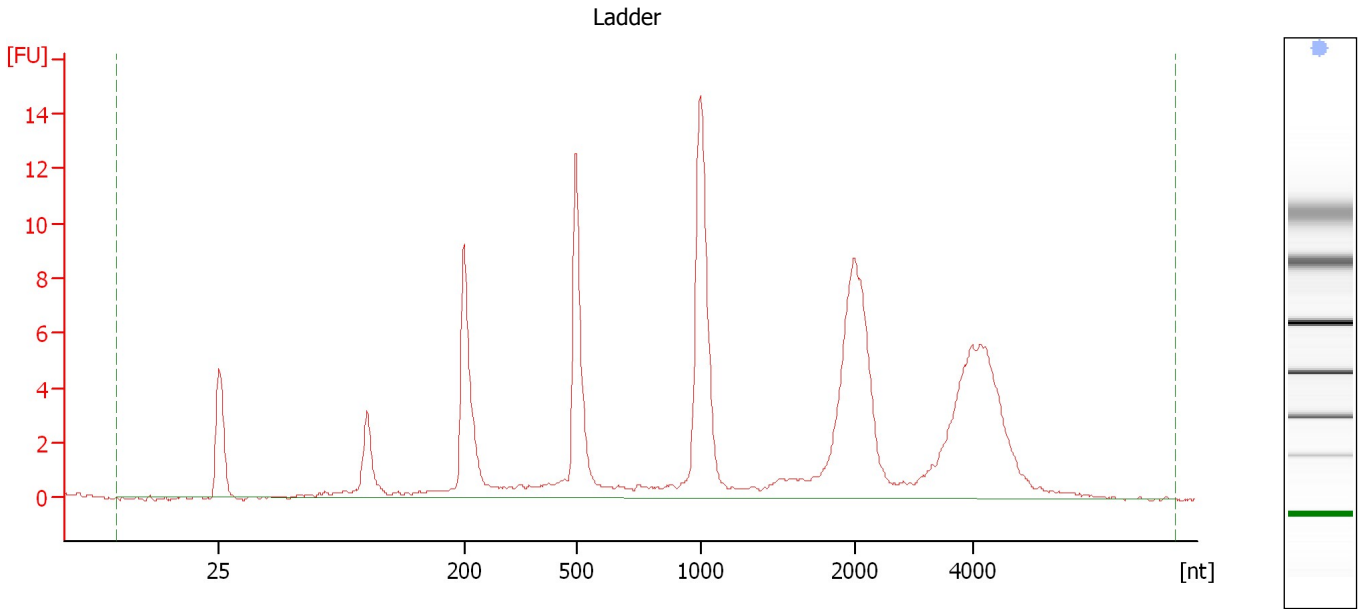
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary**



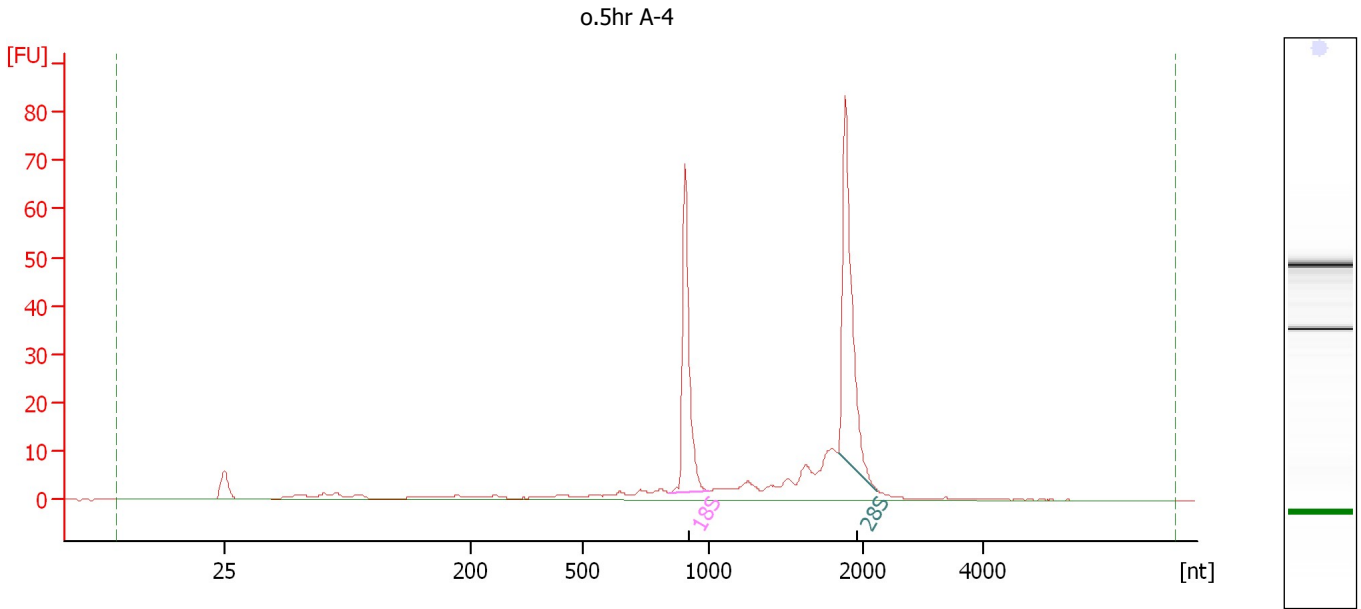
**Overall Results for Ladder**

RNA Area:	124.0	Result Flagging Color:	<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : o.5hr A-4**

RNA Area: 251.4                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 304 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 9.20

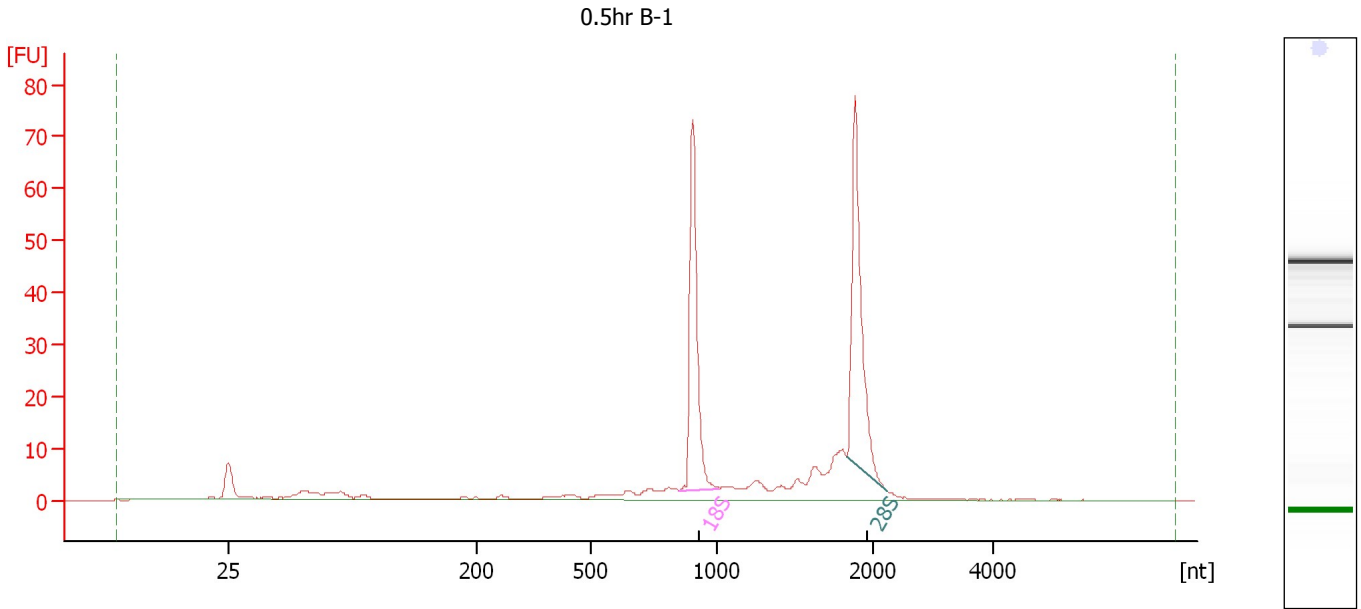
**Fragment table for sample 1 : o.5hr A-4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	843	1,002	54.2	21.6
28S	1,835	2,234	69.1	27.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 0.5hr B-1**

RNA Area: 244.7                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 296 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 9.10

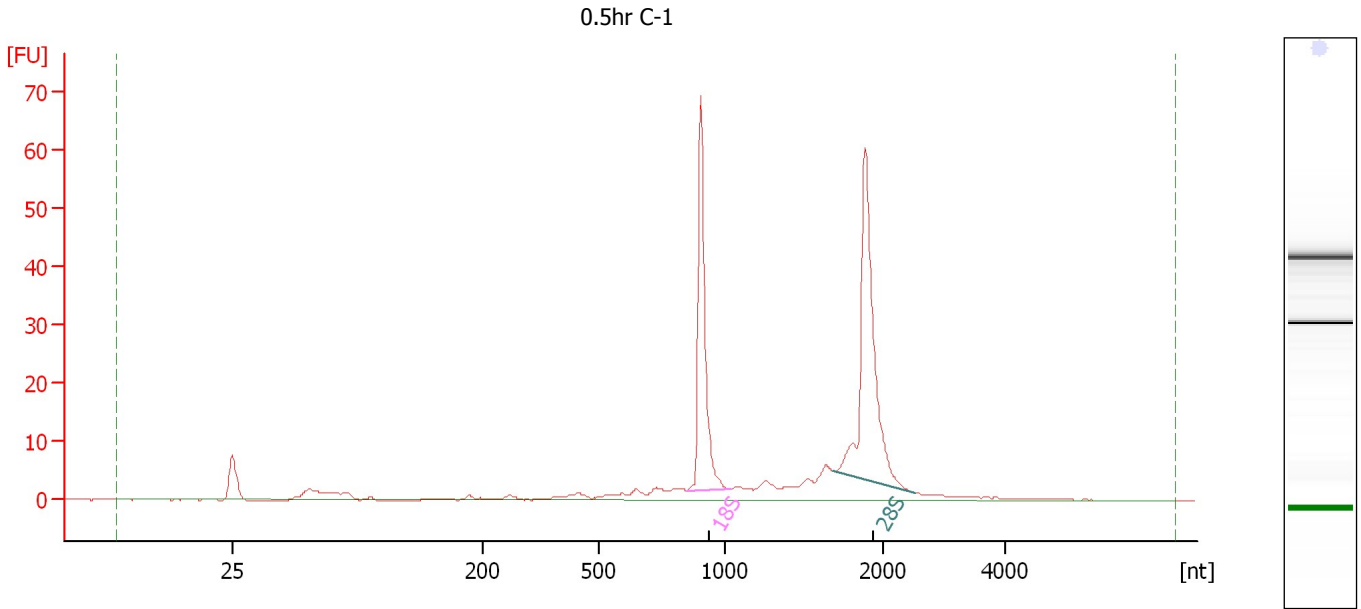
**Fragment table for sample 2 : 0.5hr B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	849	1,017	57.0	23.3
28S	1,837	2,216	63.7	26.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 0.5hr C-1**

RNA Area:	224.3	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	271 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.40

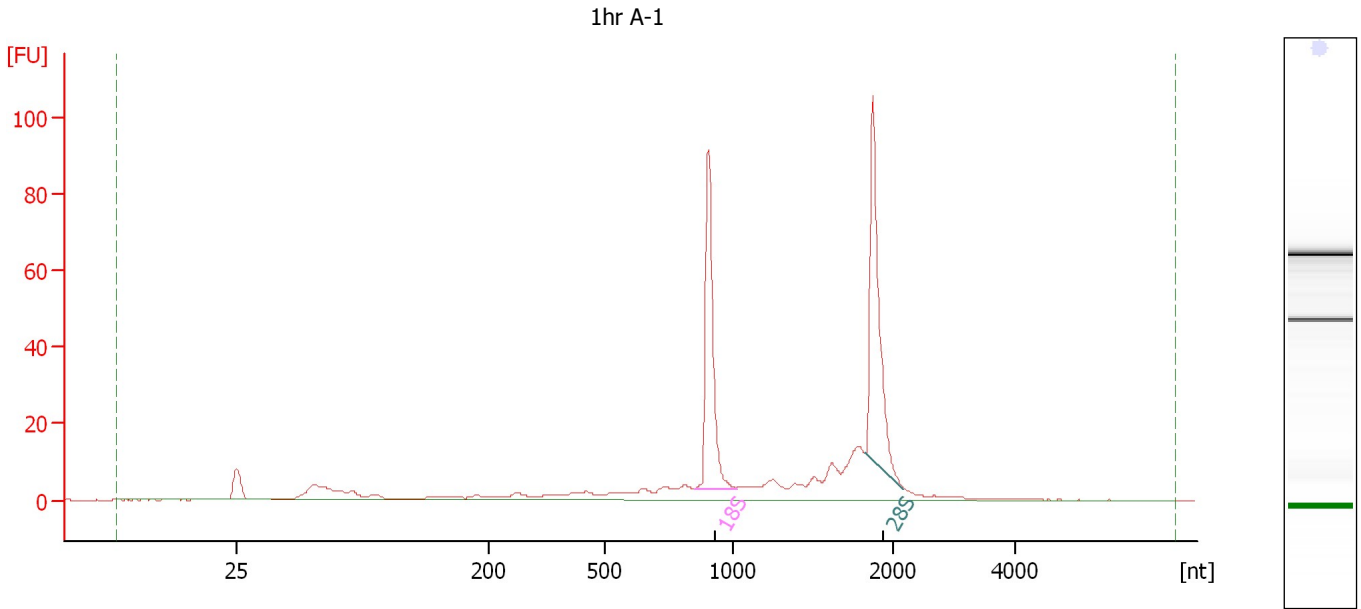
**Fragment table for sample 3 : 0.5hr C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	852	1,033	55.3	24.7
28S	1,690	2,533	71.1	31.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1hr A-1**

RNA Area: 356.9                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 432 ng/µl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 8.60

**Fragment table for sample 4 : 1hr A-1**

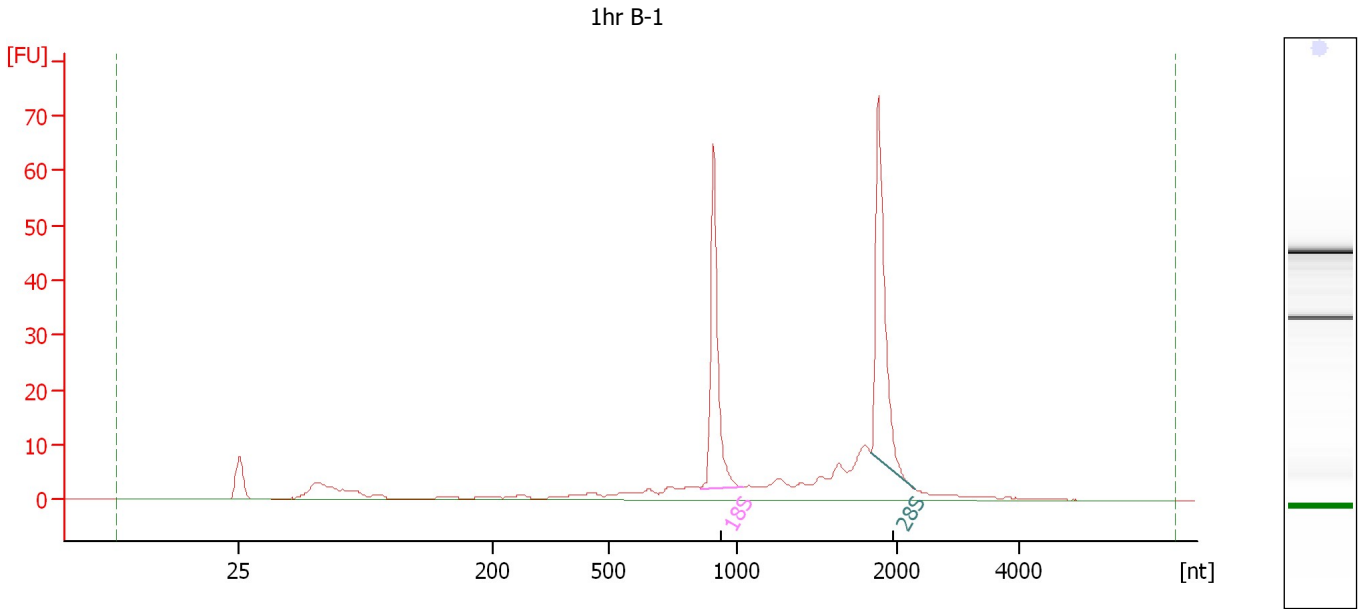
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	850	1,021	71.8	20.1
28S	1,828	2,182	83.0	23.3



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1hr B-1**

RNA Area:	251.6	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	304 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.80

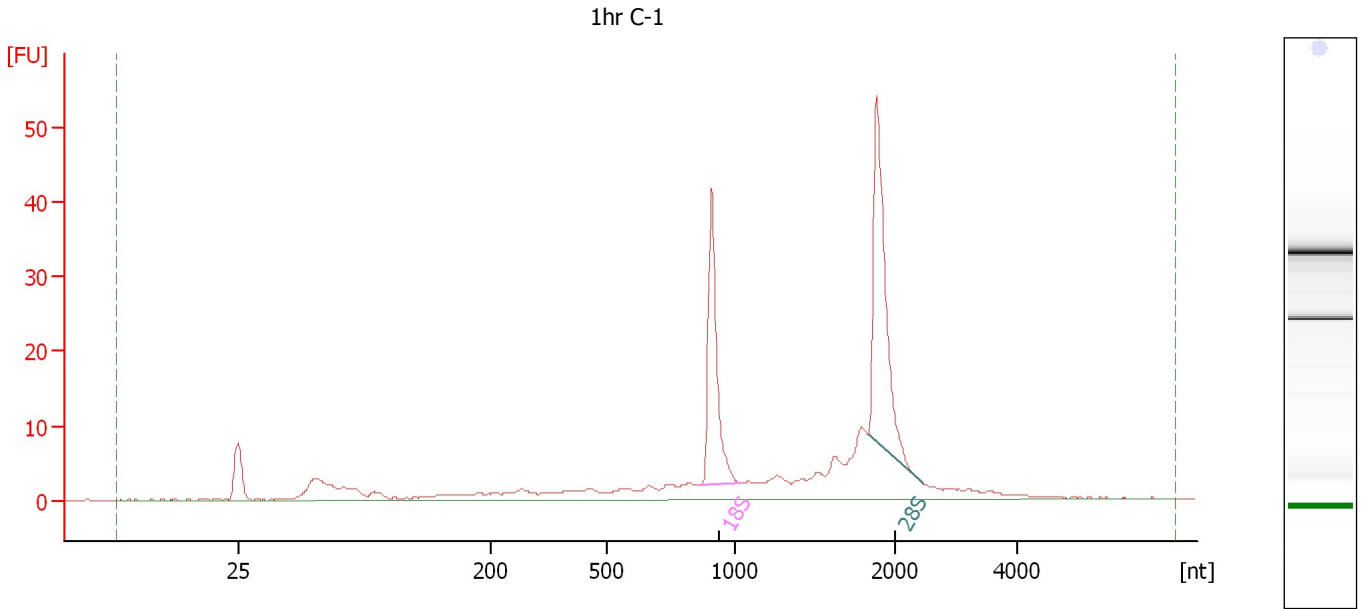
**Fragment table for sample 5 : 1hr B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	1,029	50.5	20.1
28S	1,839	2,277	56.4	22.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
 Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1hr C-1**

RNA Area:	230.7	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	279 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.50

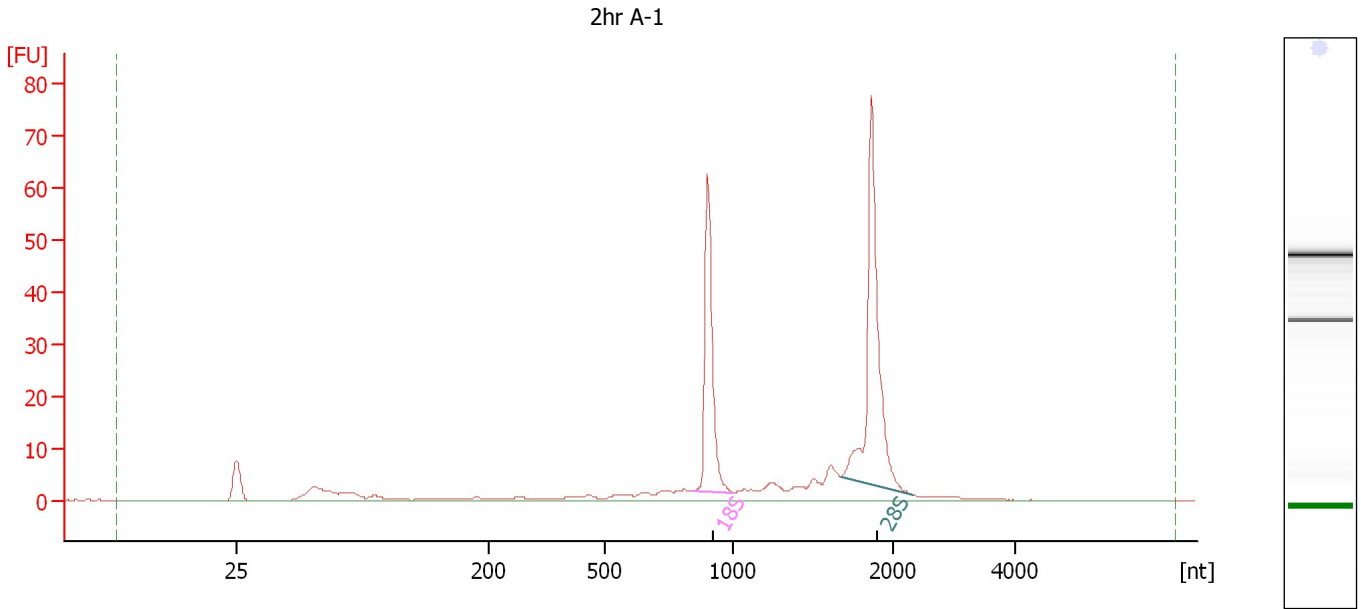
**Fragment table for sample 6 : 1hr C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	1,035	37.8	16.4
28S	1,833	2,456	53.4	23.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 2hr A-1**

RNA Area: 230.1                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 278 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 9.50

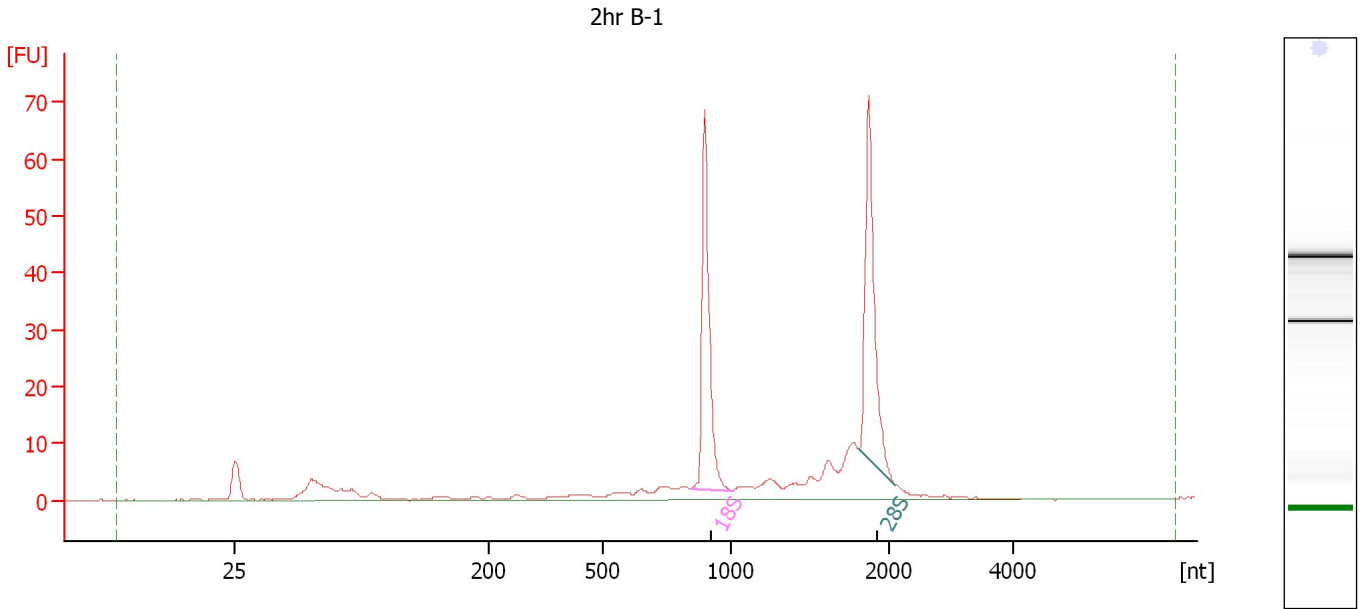
**Fragment table for sample 7 : 2hr A-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	842	1,001	49.6	21.5
28S	1,673	2,339	79.4	34.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 2hr B-1**

RNA Area:	229.5	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	278 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN:9

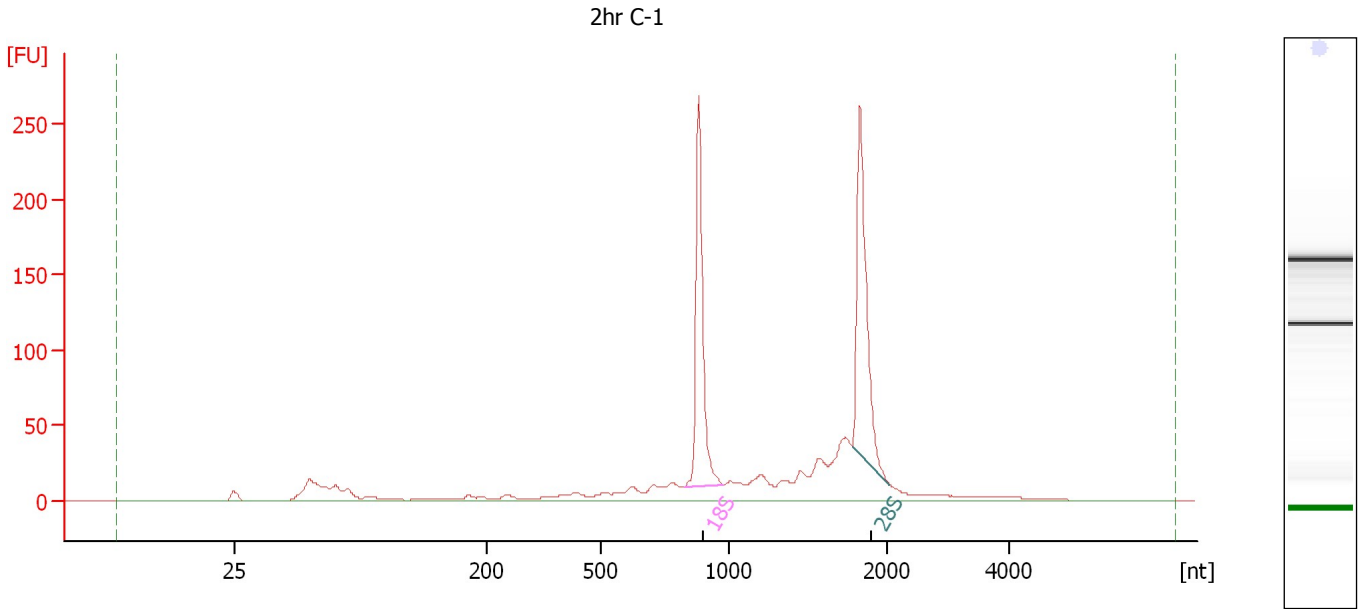
**Fragment table for sample 8 : 2hr B-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	1,007	54.0	23.5
28S	1,802	2,081	55.7	24.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
 Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 2hr C-1**

RNA Area:	1,039.3	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,257 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 8.70

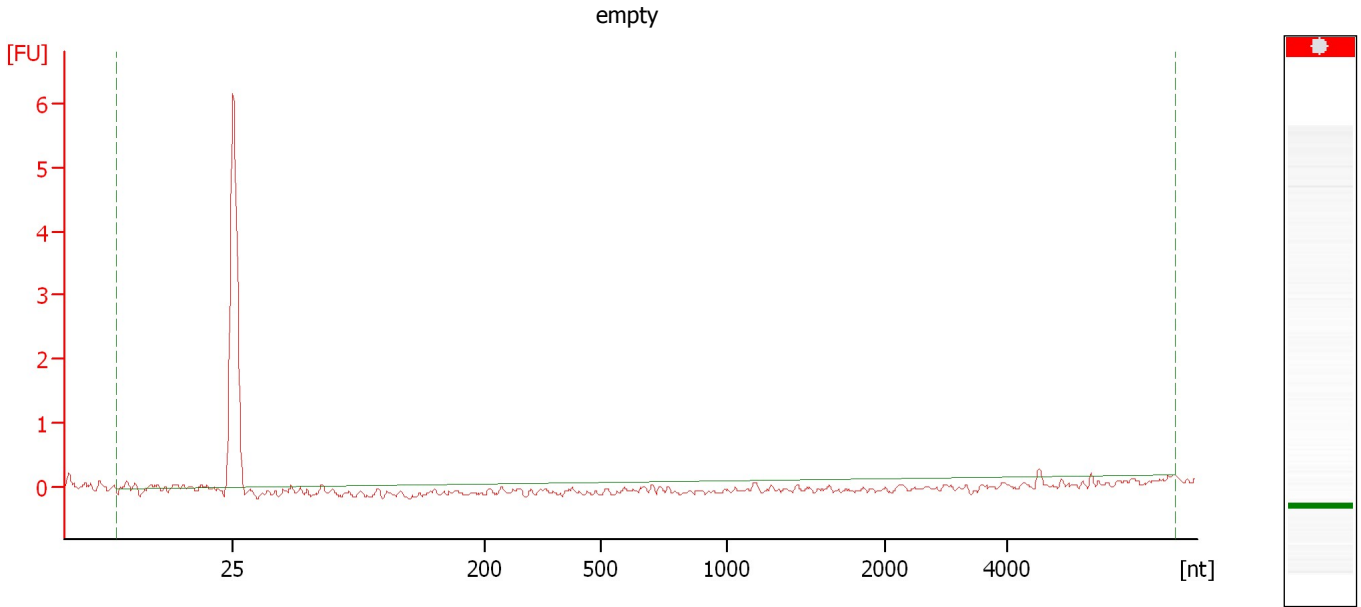
**Fragment table for sample 9 : 2hr C-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	824	979	213.7	20.6
28S	1,776	2,033	214.0	20.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Electropherogram Summary Continued ...**



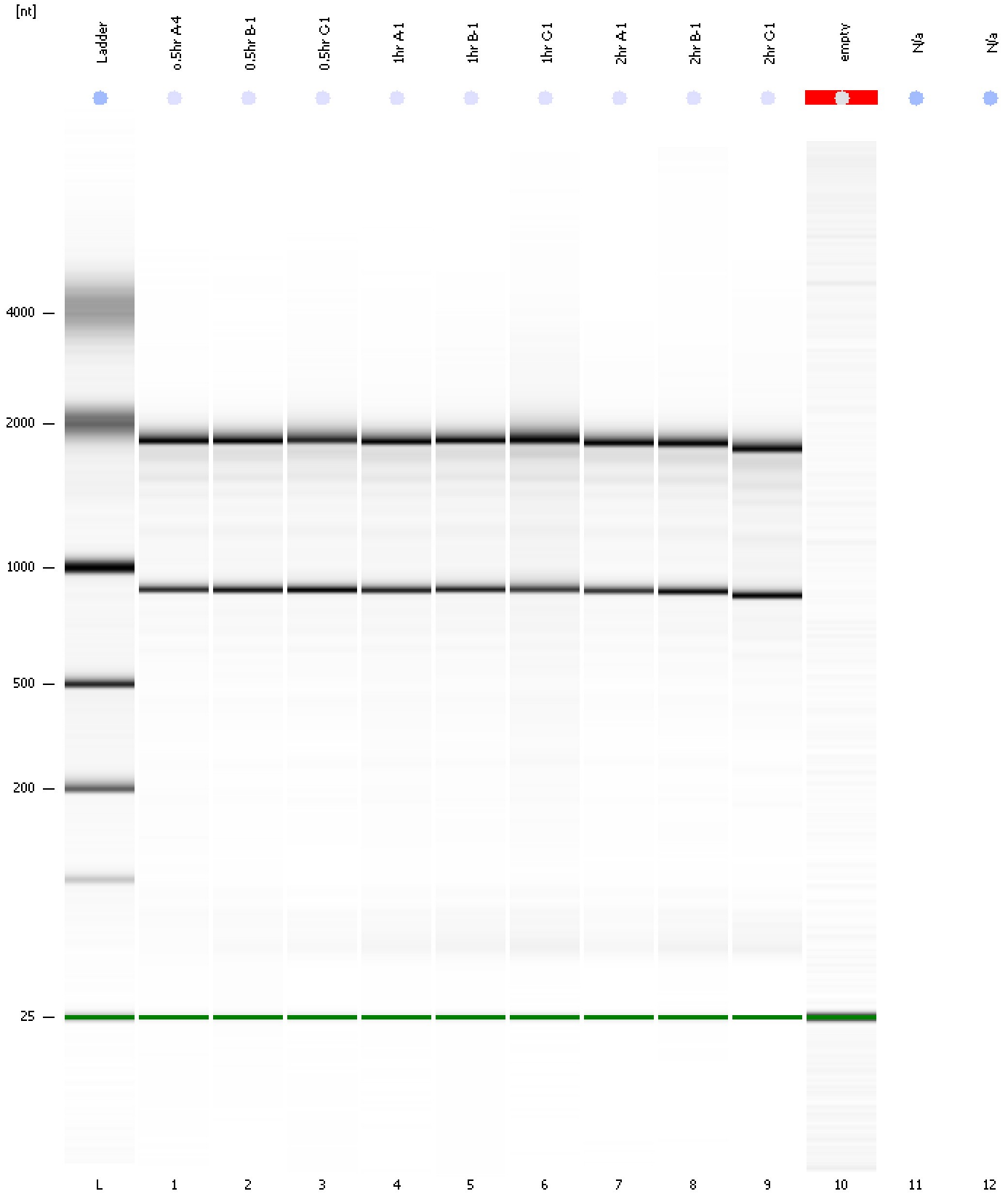
**Overall Results for sample 10 : empty**

RNA Area:	0.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Gel Image**



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Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
Modified: 2/28/2017 12:51:22 PM

**Invalid Samples**

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:\Documents and Settings\UC Davis\Desktop\2017-02-28\_006AW1.xad

Created: 2/28/2017 12:14:14 PM  
 Modified: 2/28/2017 12:51:22 PM

**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		2/28/2017 12:34:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-28\2017-02-28_006.xad)		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/28/2017 12:14:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1