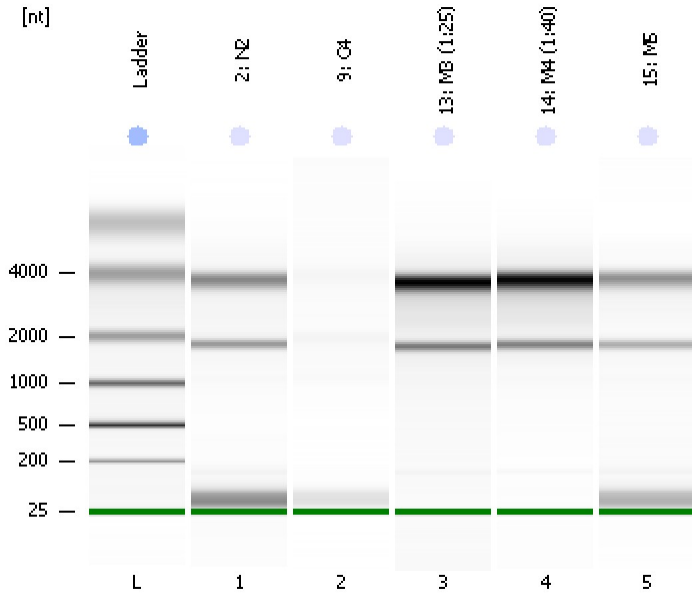


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...2100 expert\data\2016-09-19\2016-09-19\_003\_Total\_RNA\_QC.xad

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:

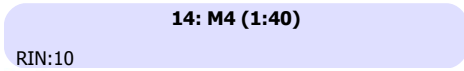
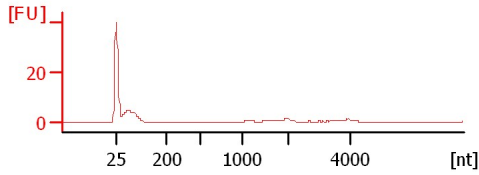
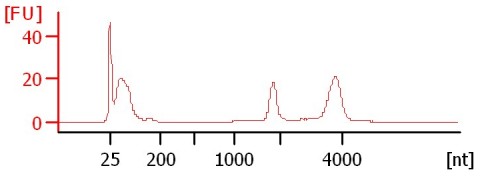
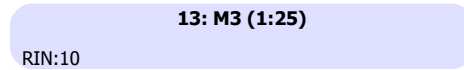
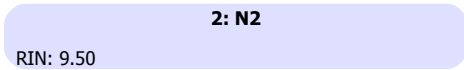
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



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 (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 :**

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 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

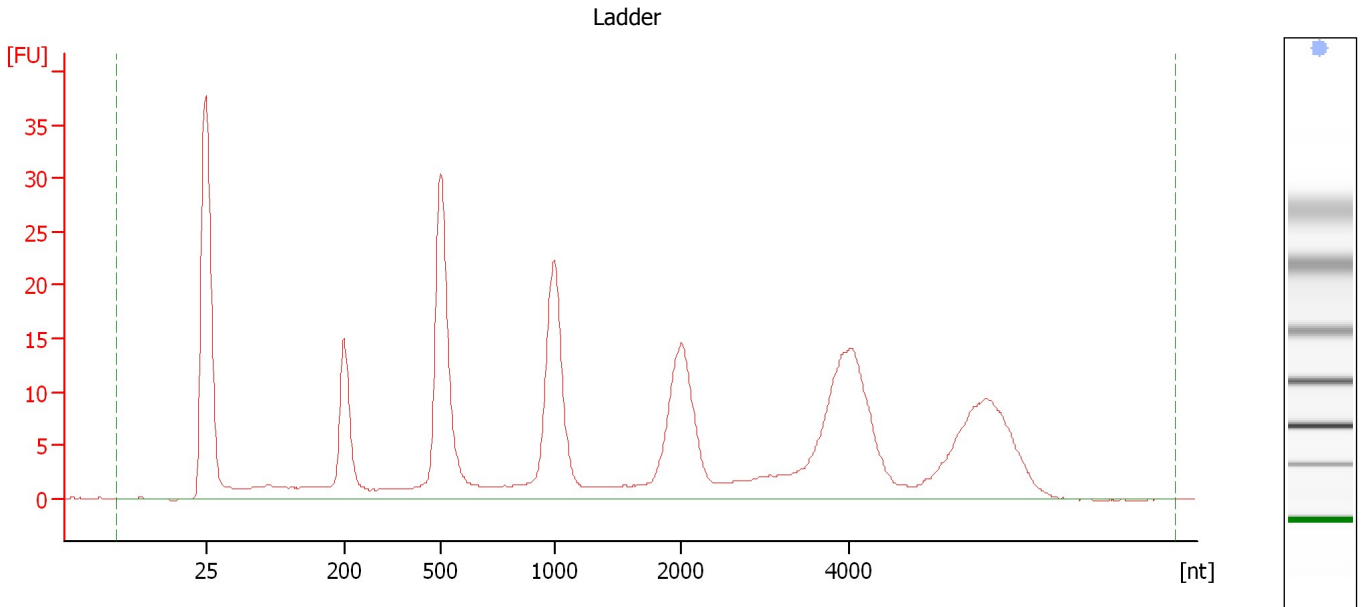
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...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

**Electropherogram Summary**



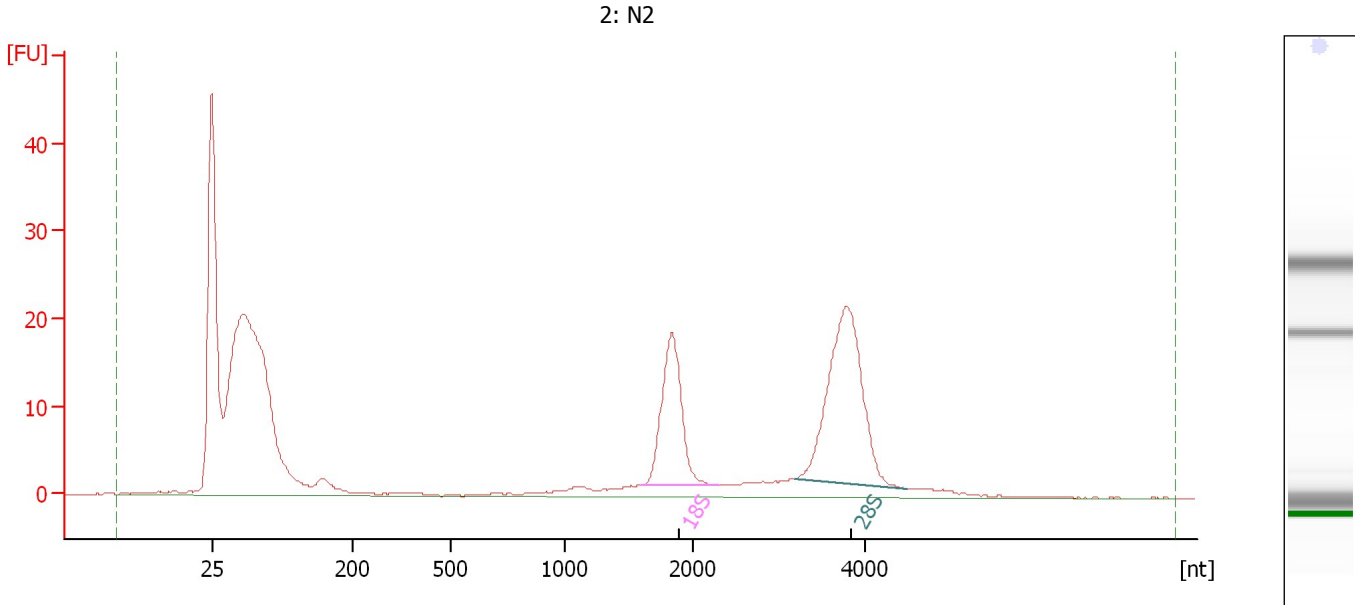
**Overall Results for Ladder**

RNA Area:	368.1	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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

**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 1 : 2: N2**

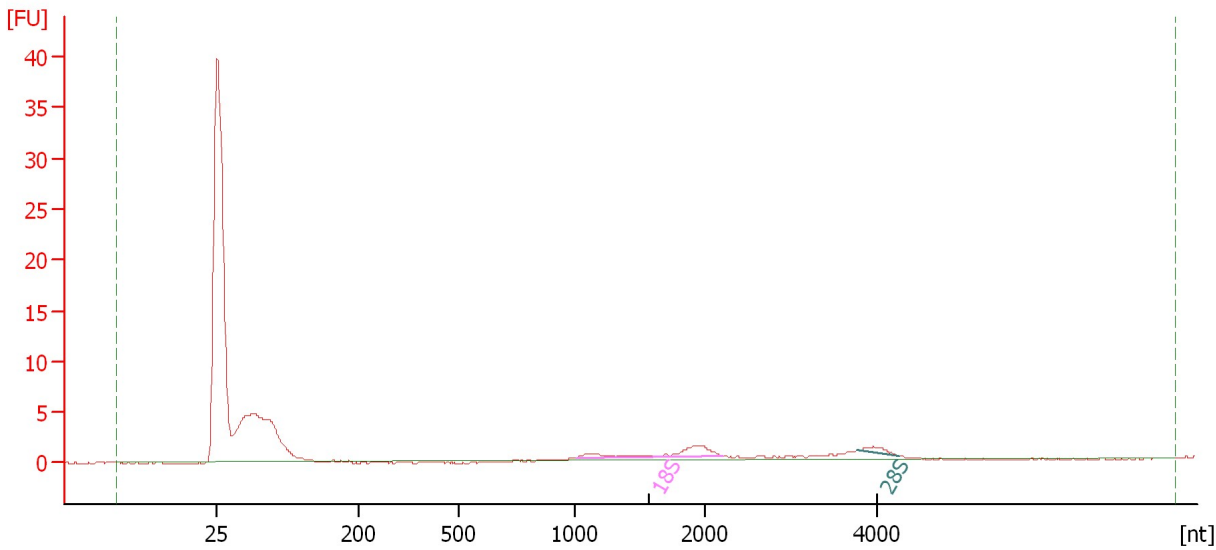
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	2,304	41.3	12.3
28S	3,179	4,504	69.7	20.7

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

**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.90

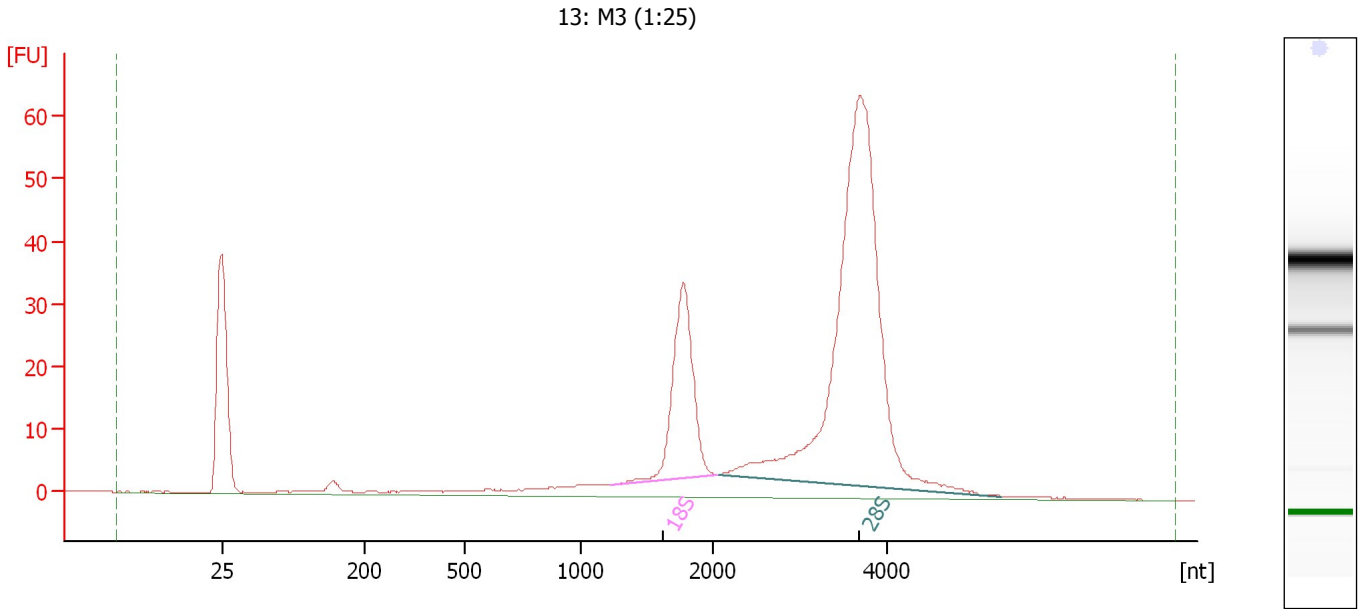
**Fragment table for sample 2 : 9: C4**

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

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

**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN:10

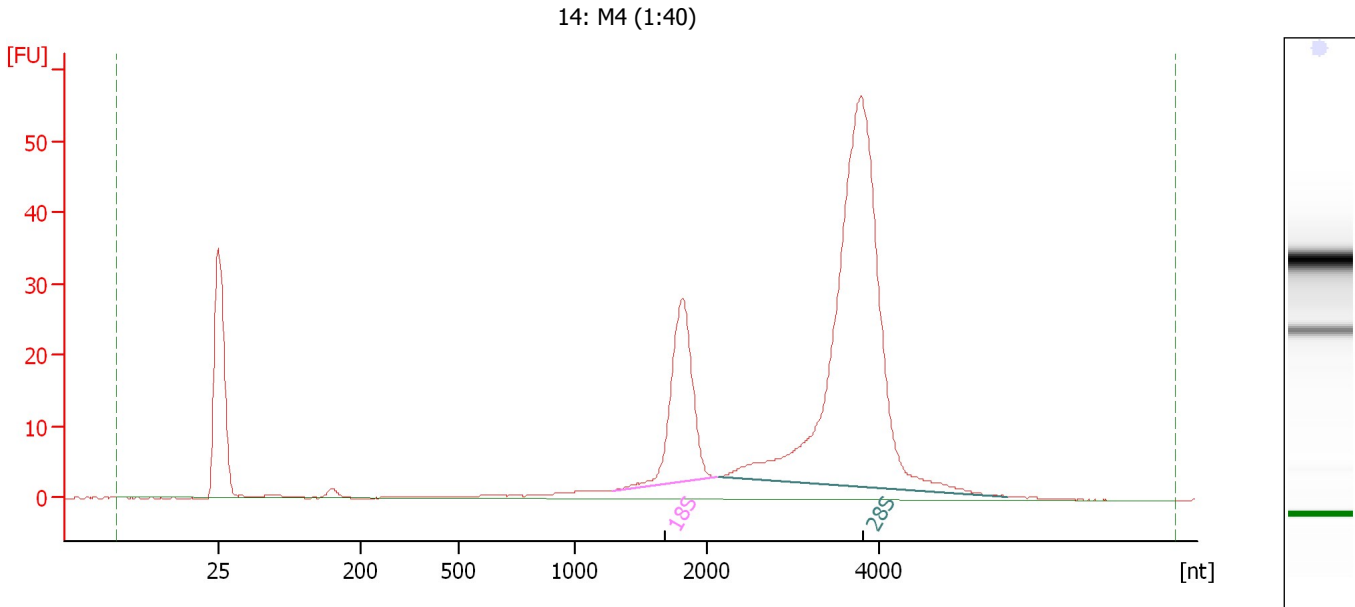
**Fragment table for sample 3 : 13: M3 (1:25)**

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

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

**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	3.7	Result Flagging Label:	RIN:10

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

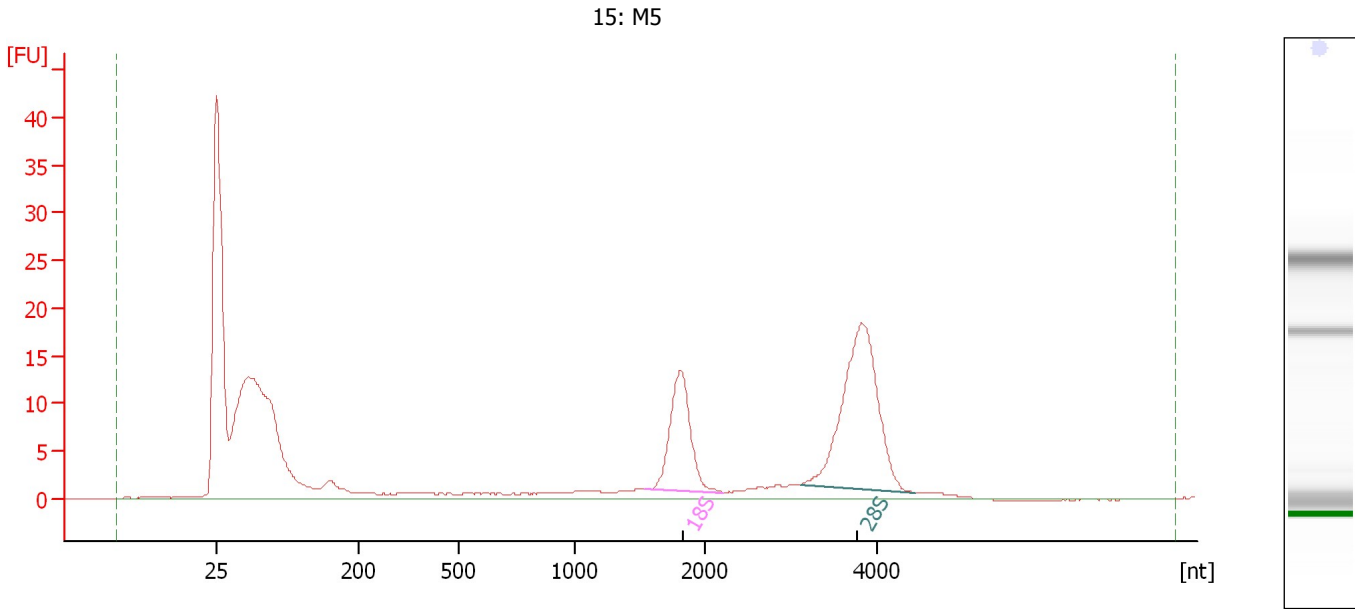
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,292	2,132	64.9	16.4
28S	2,156	5,477	243.2	61.5



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

**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:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.10

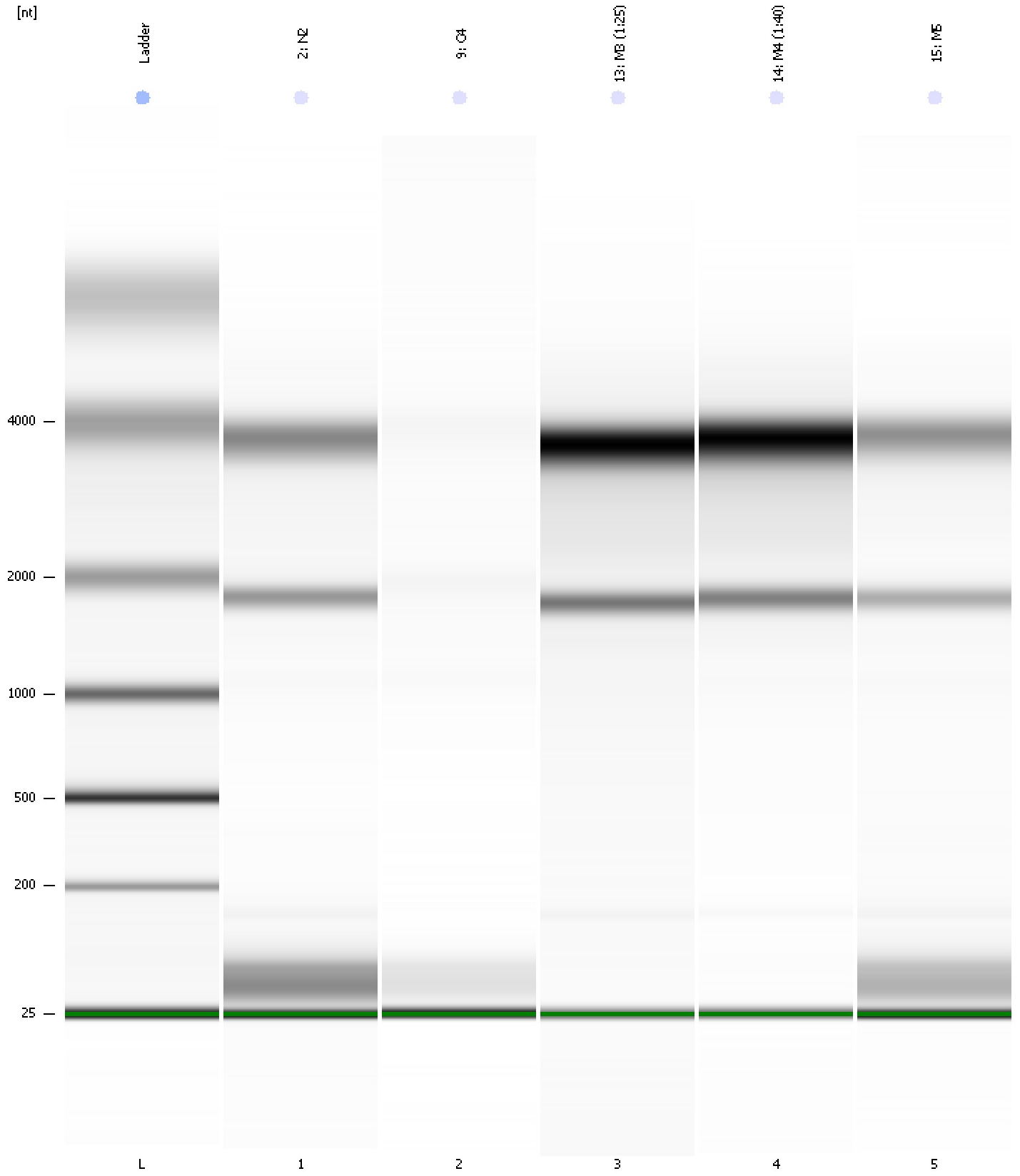
**Fragment table for sample 5 : 15: M5**

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

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

**Gel Image**



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

**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