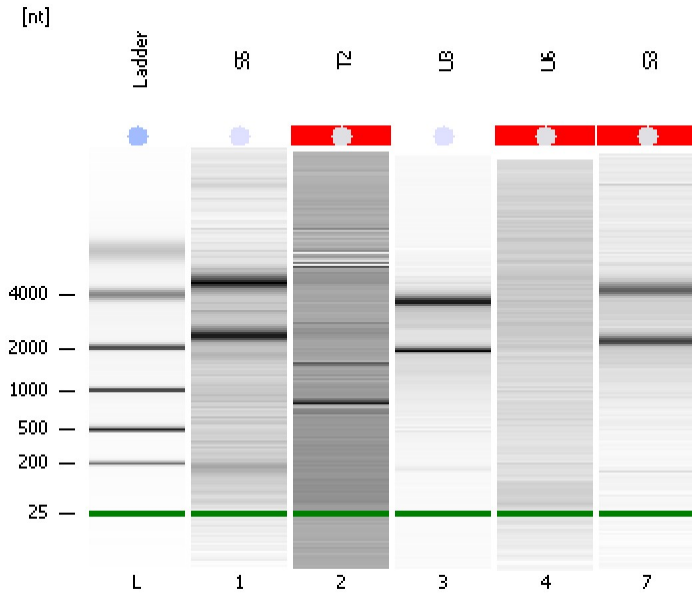


Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
 Modified: 1/8/2015 11:29:31 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

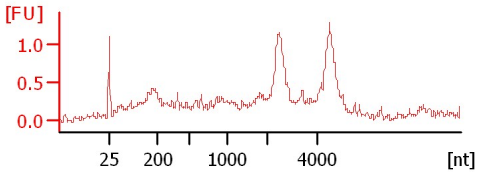
Assay Information:

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)  
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

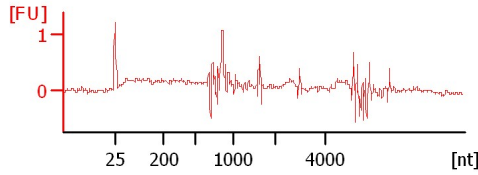
Chip Information:

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

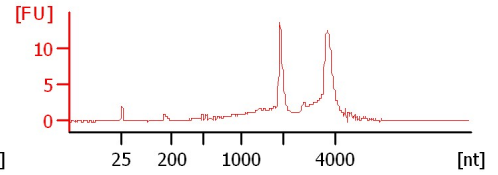
**S5**  
 Total RNA  
 RIN: 2.40



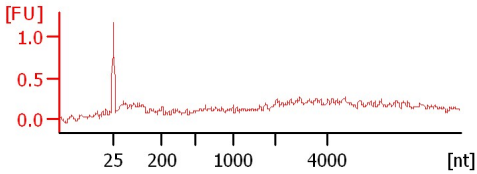
**T2**  
 Total RNA  
 RIN N/A



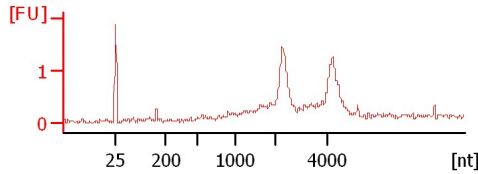
**U3**  
 Total RNA  
 RIN: 7.80



**U6**  
 Total RNA  
 RIN N/A



**S3**  
 Total RNA  
 RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
 Modified: 1/8/2015 11:29:31 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
S5	Total RNA	✓	RIN: 2.40	
T2	Total RNA	✓	RIN N/A	
U3	Total RNA	✓	RIN: 7.80	
U6	Total RNA	✓	RIN N/A	
S3	Total RNA	✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
Modified: 1/8/2015 11:29:31 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/ $\mu$ 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

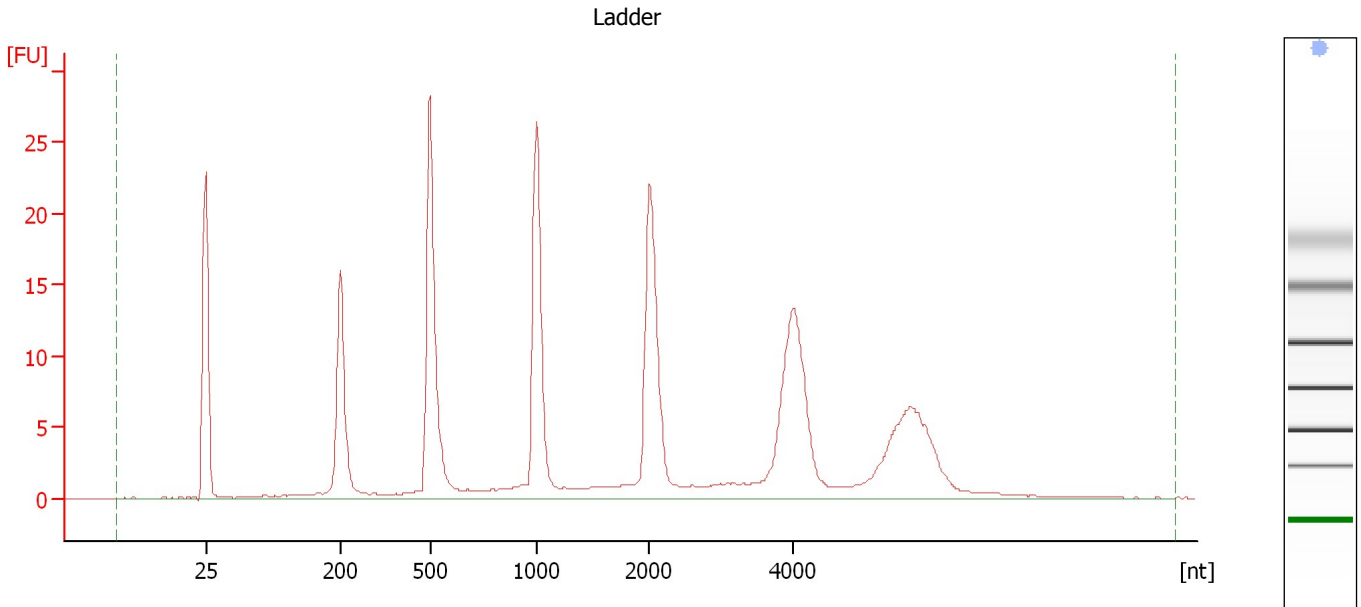
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary**



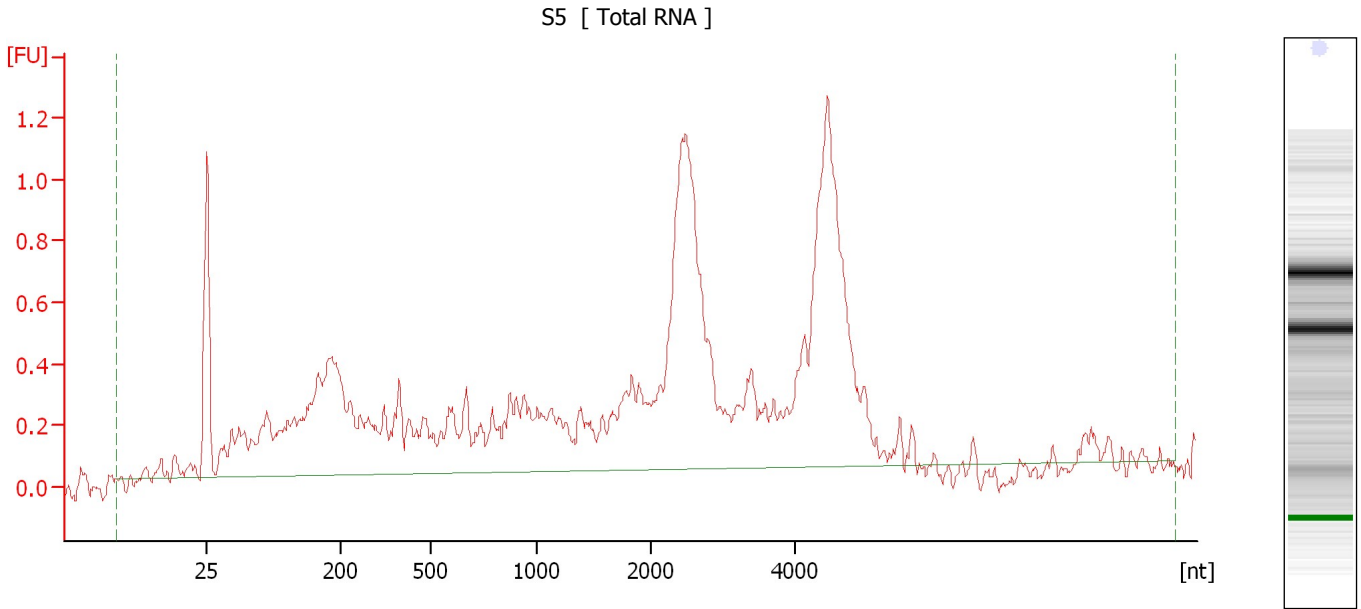
**Overall Results for Ladder**

RNA Area:	226.3	Result Flagging Color:	<span style="background-color: #ADD8E6; 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:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary Continued ...**



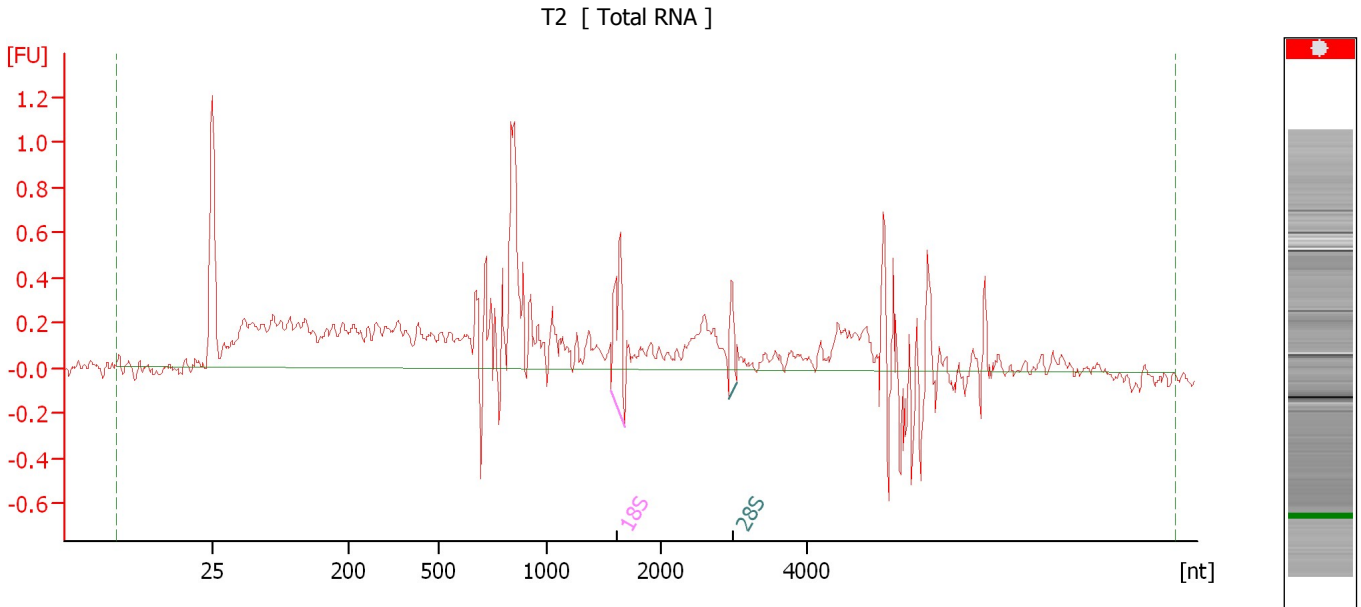
**Overall Results for sample 1 : S5**

RNA Area:	20.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	90 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]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
 Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : T2**

RNA Area:	13.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	58 pg/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]:	0.4	Result Flagging Label:	RIN N/A

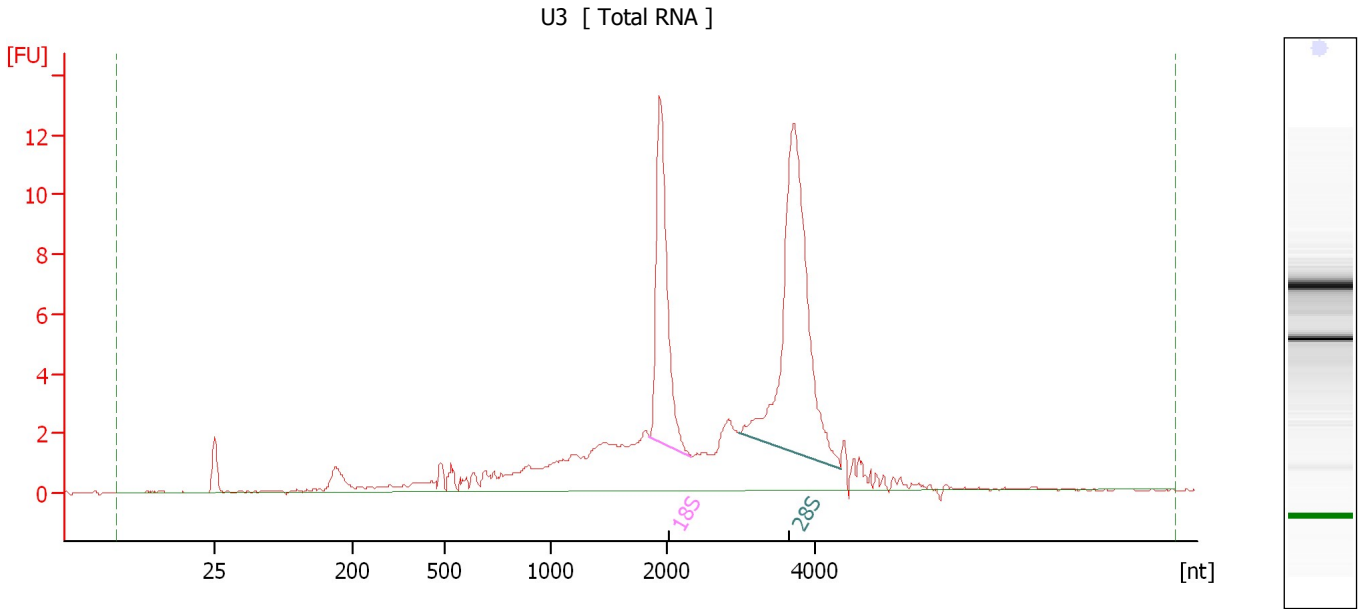
**Fragment table for sample 2 : T2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,680	0.6	5.0
28S	2,917	3,034	0.2	1.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
 Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : U3**

RNA Area:	101.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	449 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]:	1.9	Result Flagging Label:	RIN: 7.80

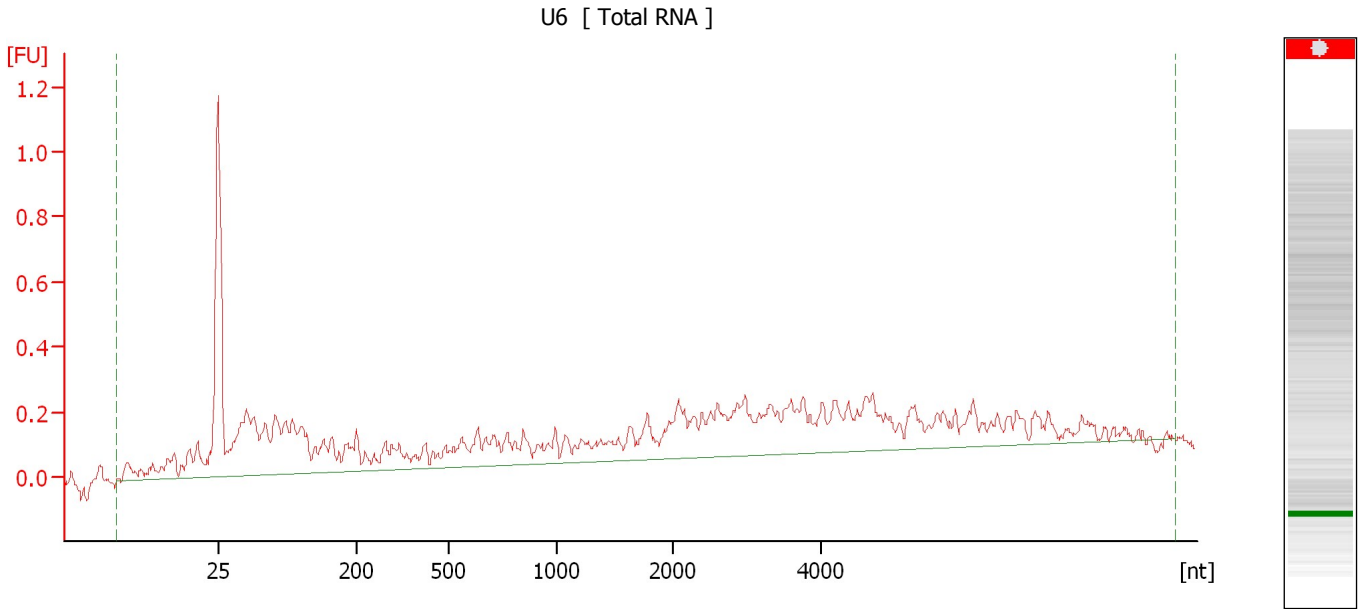
**Fragment table for sample 3 : U3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,843	2,335	14.6	14.4
28S	2,975	4,356	28.1	27.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : U6**

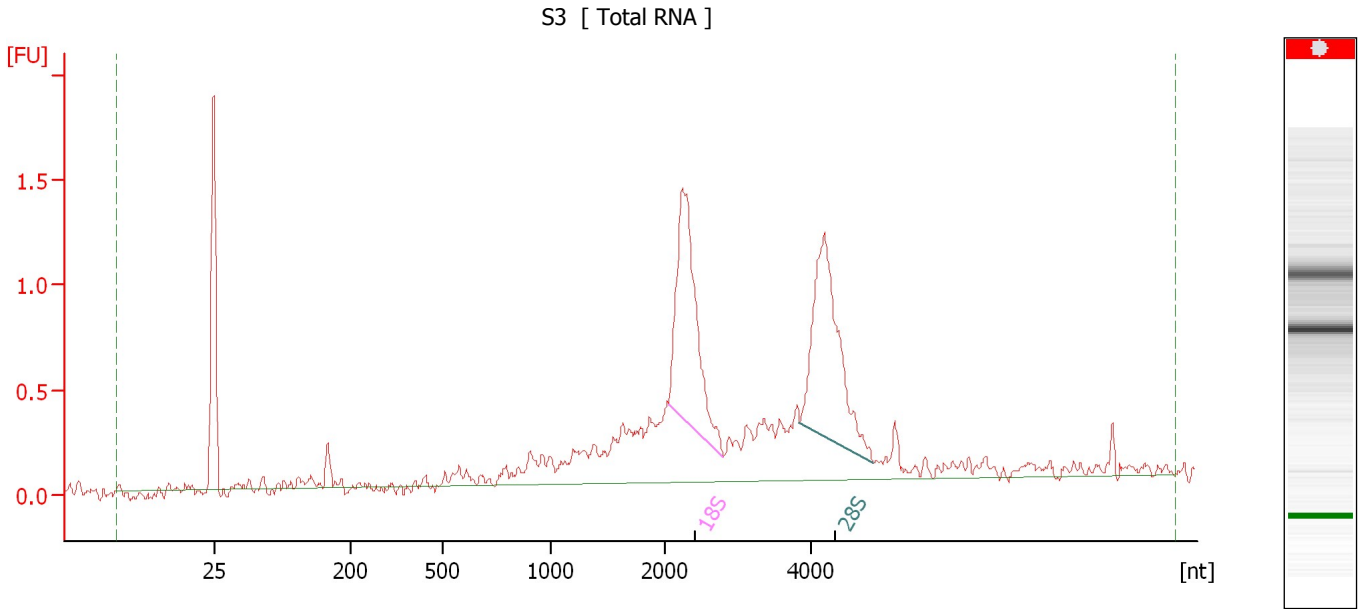
RNA Area:	9.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	43 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
 Modified: 1/8/2015 11:29:31 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : S3**

RNA Area:	14.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	64 pg/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]:	1.0	Result Flagging Label:	RIN N/A

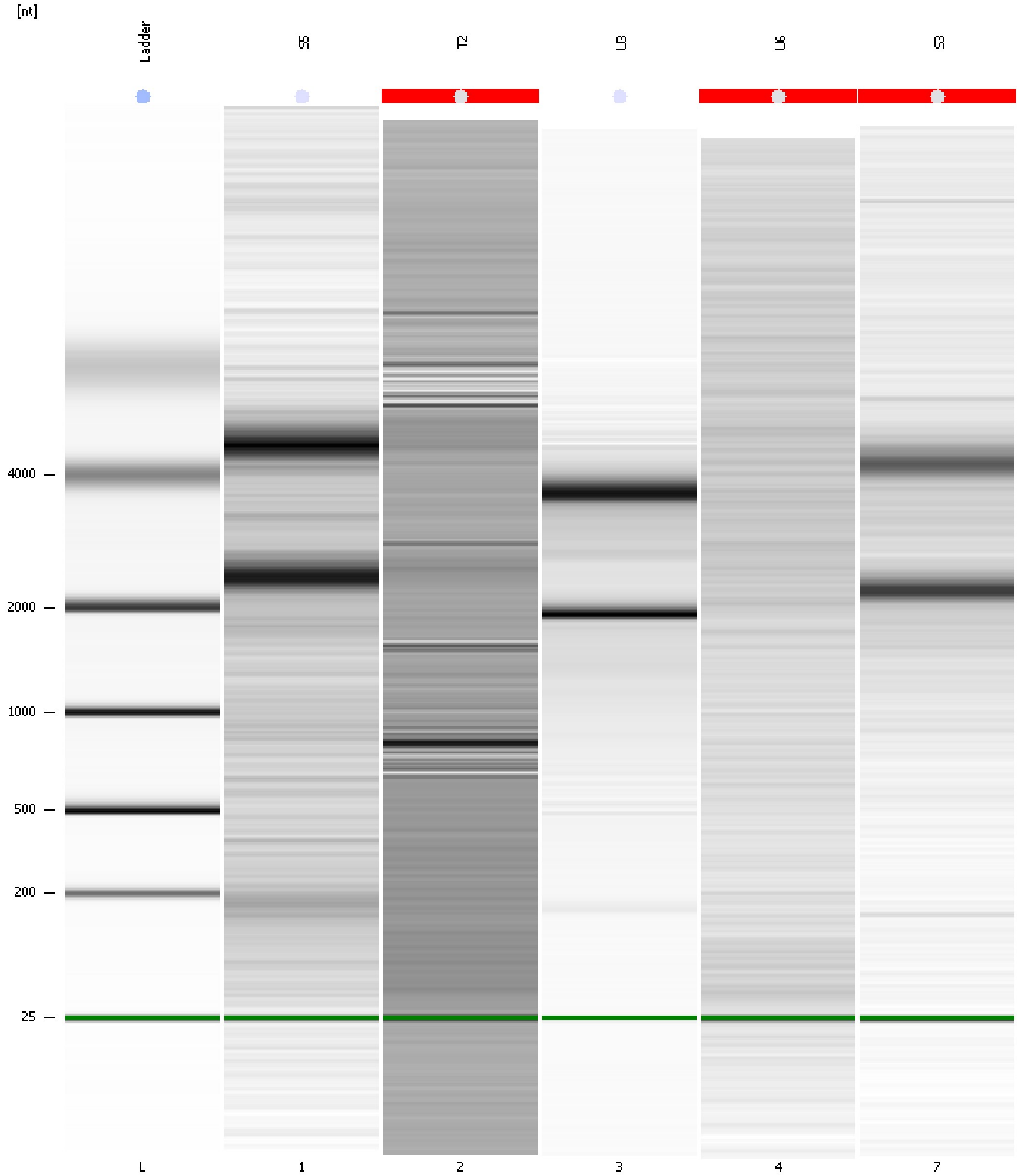
**Fragment table for sample 7 : S3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,043	2,800	2.6	17.7
28S	3,835	4,840	2.6	17.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad

Created: 1/8/2015 11:07:28 AM  
Modified: 1/8/2015 11:29:31 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico Created: 1/8/2015 11:07:28 AM  
 Data Path: C:\...oanalyzer\2015-01-08\2015-01-08\_002\_ArmstrongTotRNA2of2.xad Modified: 1/8/2015 11:29:31 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		1/8/2015 11:26:03 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad)		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1