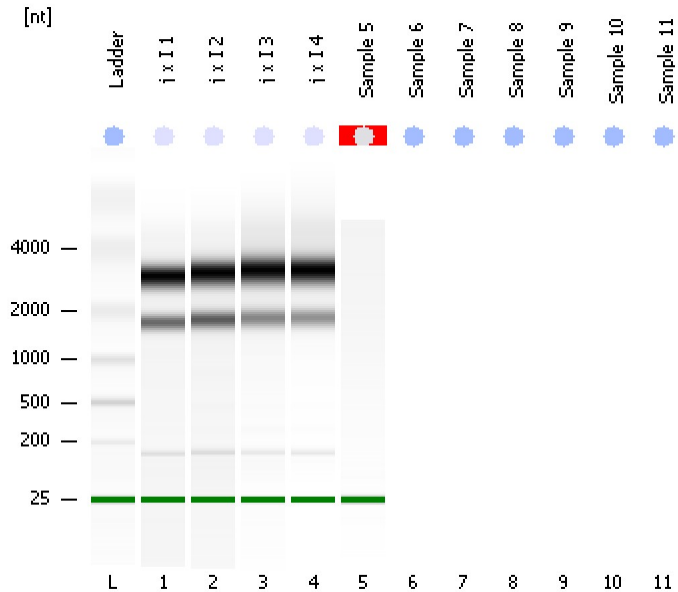


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

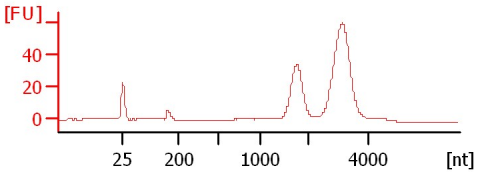
Assay Information:

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.

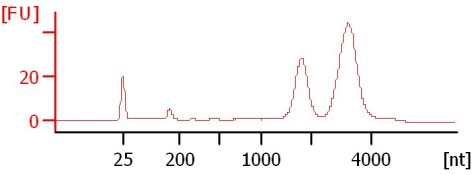
Chip Information:

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

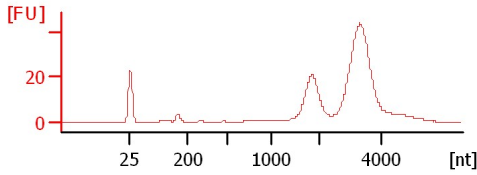
**j x I 1**  
RIN:10



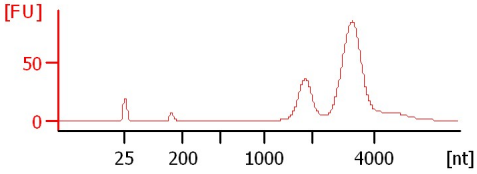
**j x I 2**  
RIN:10



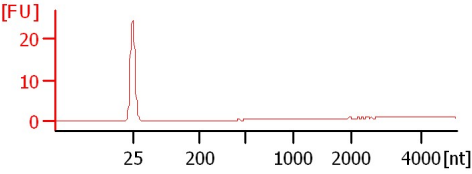
**j x I 3**  
RIN: 9.80



**j x I 4**  
RIN: 9.80



**Sample 5**  
RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
 Modified: 9/2/2016 1:43:07 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
j x I 1		✓	RIN:10	
j x I 2		✓	RIN:10	
j x I 3		✓	RIN: 9.80	
j x I 4		✓	RIN: 9.80	
Sample 5		✗	RIN N/A	
Sample 6		✗		
Sample 7		✗		
Sample 8		✗		
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\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 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

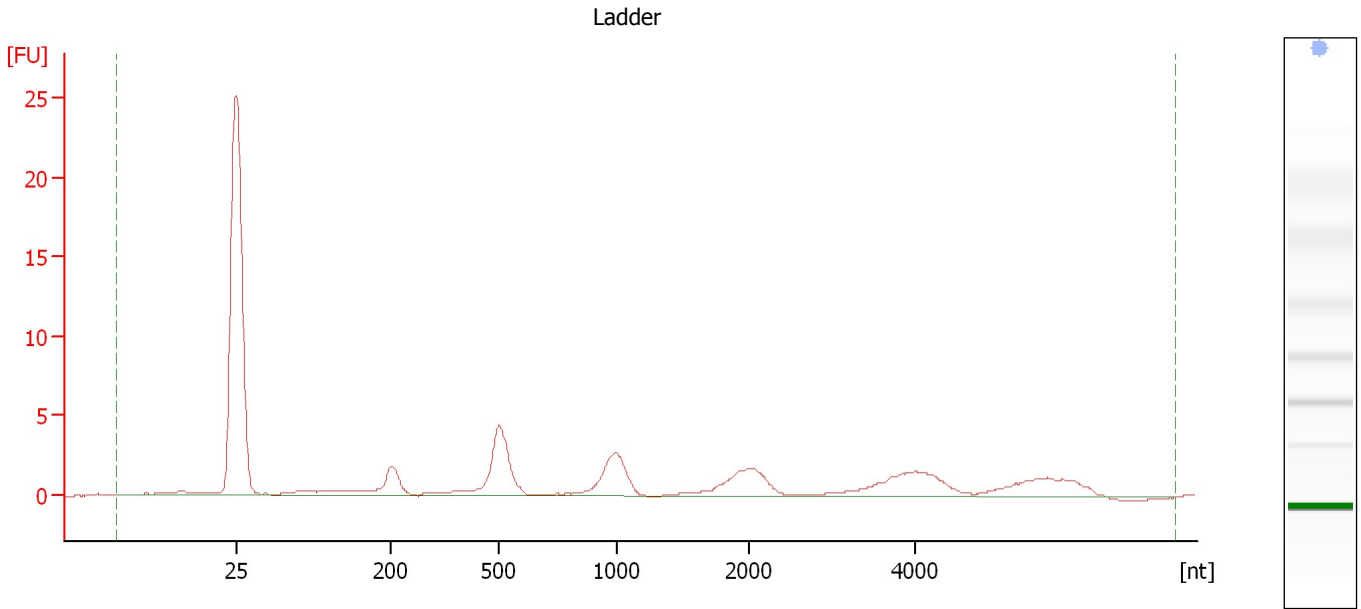
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary**



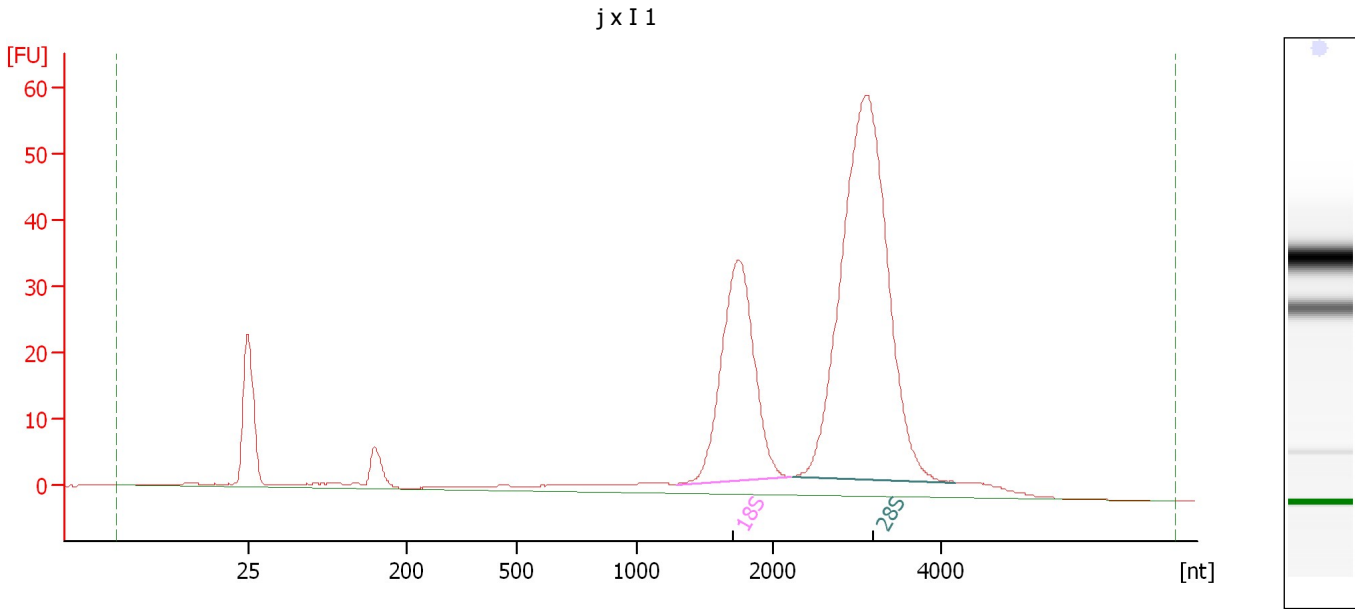
**Overall Results for Ladder**

RNA Area:	63.4	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:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
 Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : j x I 1**

RNA Area:	514.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	8,123 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]:	2.2	Result Flagging Label:	RIN:10

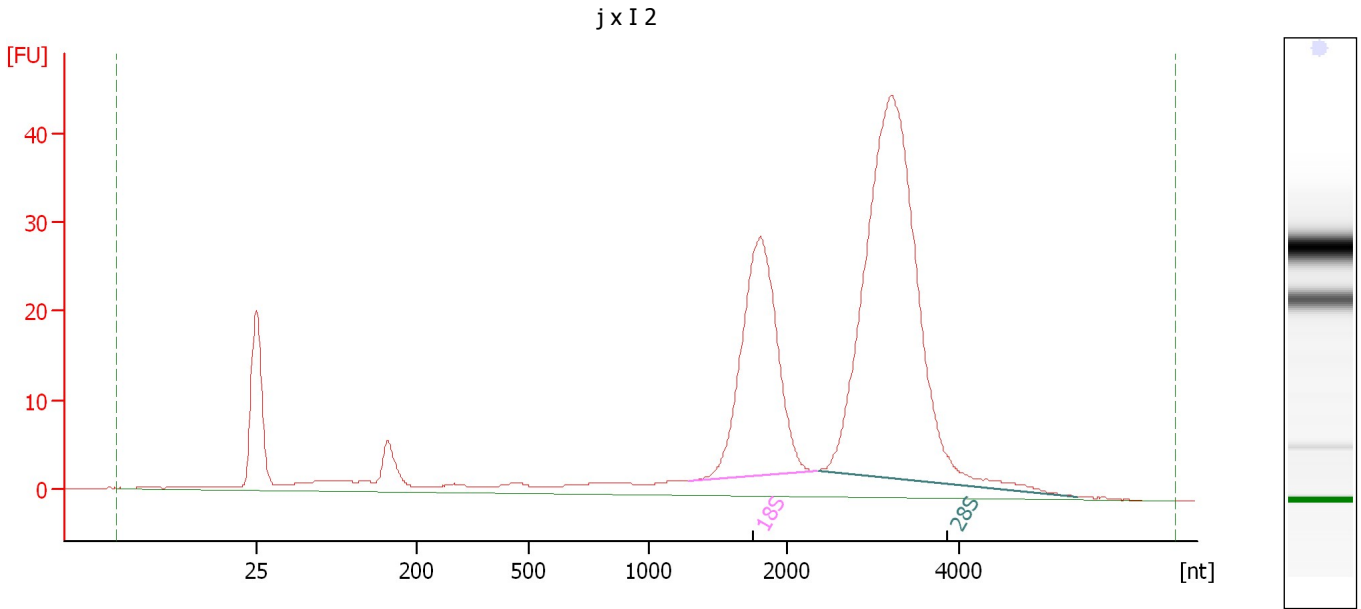
**Fragment table for sample 1 : j x I 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,299	2,220	121.0	23.5
28S	2,245	4,165	266.3	51.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : j x I 2**

RNA Area: 453.8                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 7,159 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN:10

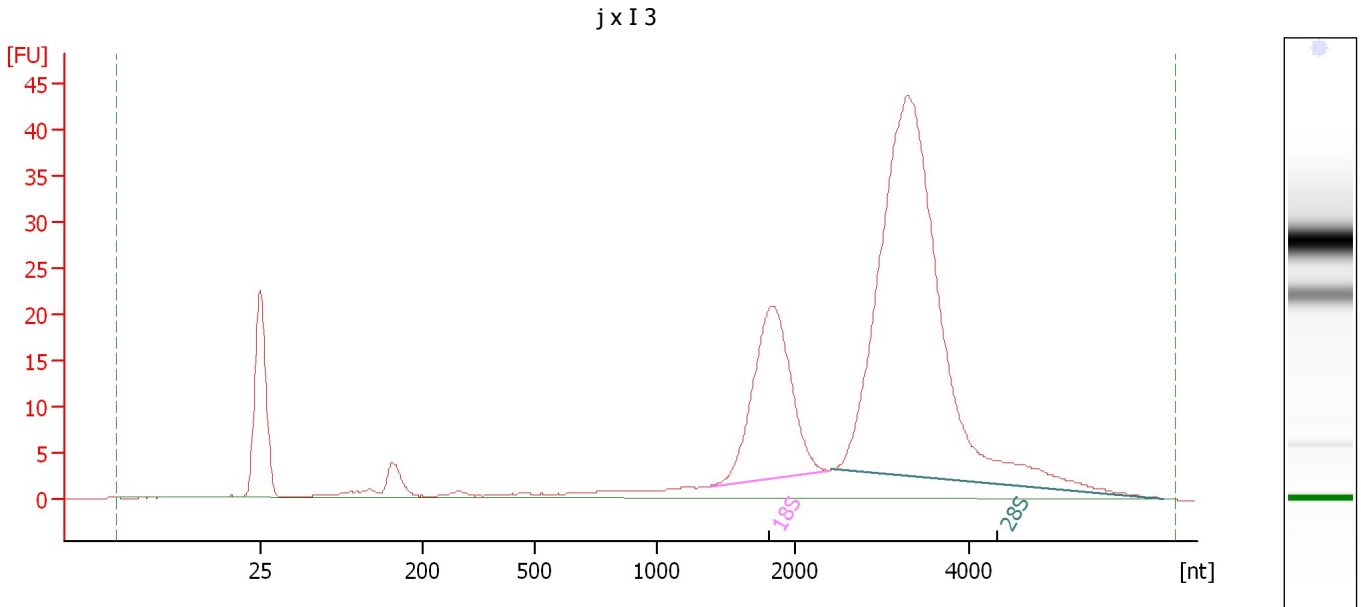
**Fragment table for sample 2 : j x I 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,295	2,346	105.5	23.3
28S	2,371	5,385	219.0	48.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
 Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : j x I 3**

RNA Area:	421.8	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	6,655 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]:	3.1	Result Flagging Label:	RIN: 9.80

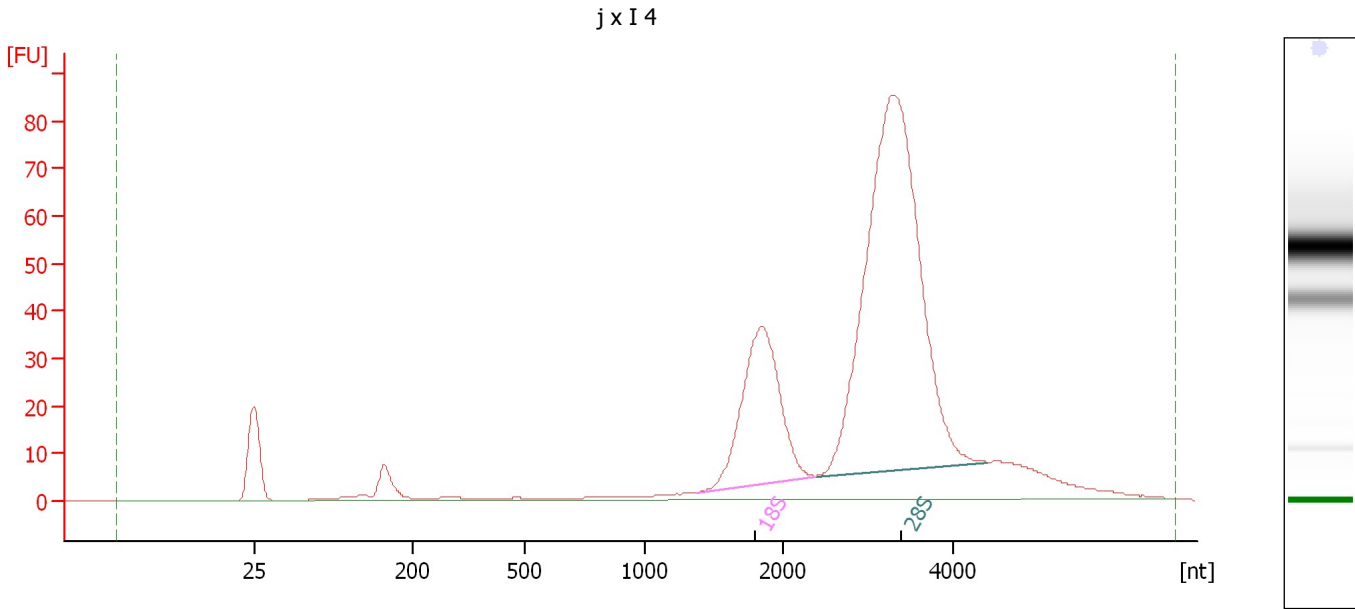
**Fragment table for sample 3 : j x I 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,378	2,395	76.6	18.2
28S	2,419	6,264	239.3	56.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : j x I 4**

RNA Area:	764.8	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	12,067 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]:	3.0	Result Flagging Label:	RIN: 9.80

**Fragment table for sample 4 : j x I 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,369	2,371	136.3	17.8
28S	2,396	4,384	413.1	54.0

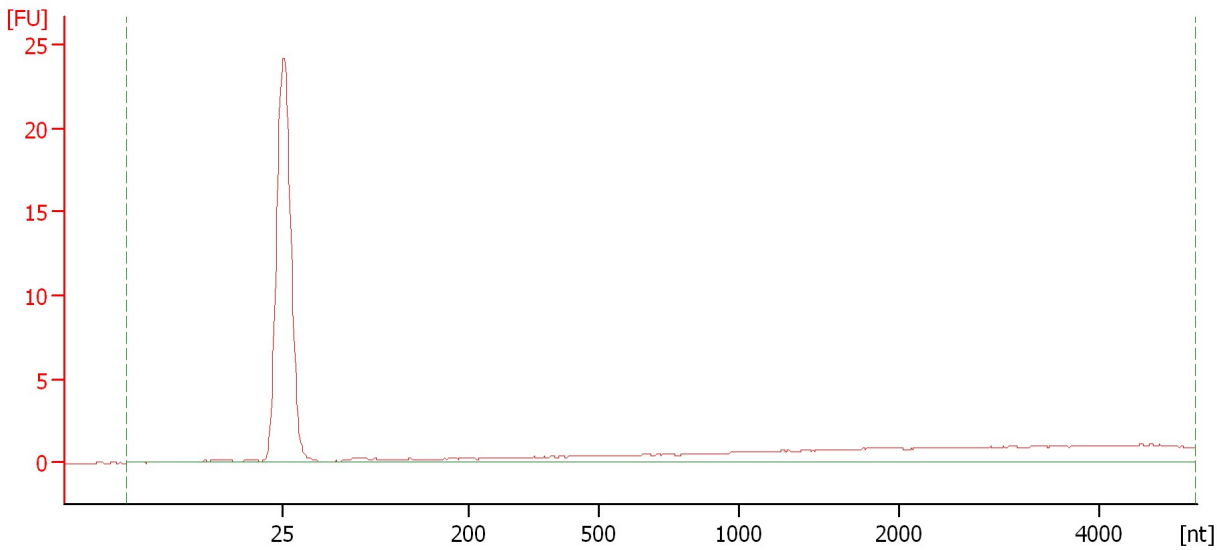


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Electropherogram Summary Continued ...**

Sample 5



**Setpoint Deviations for sample 5 : Sample 5**

End Analysis Time Range [s] : 62.35

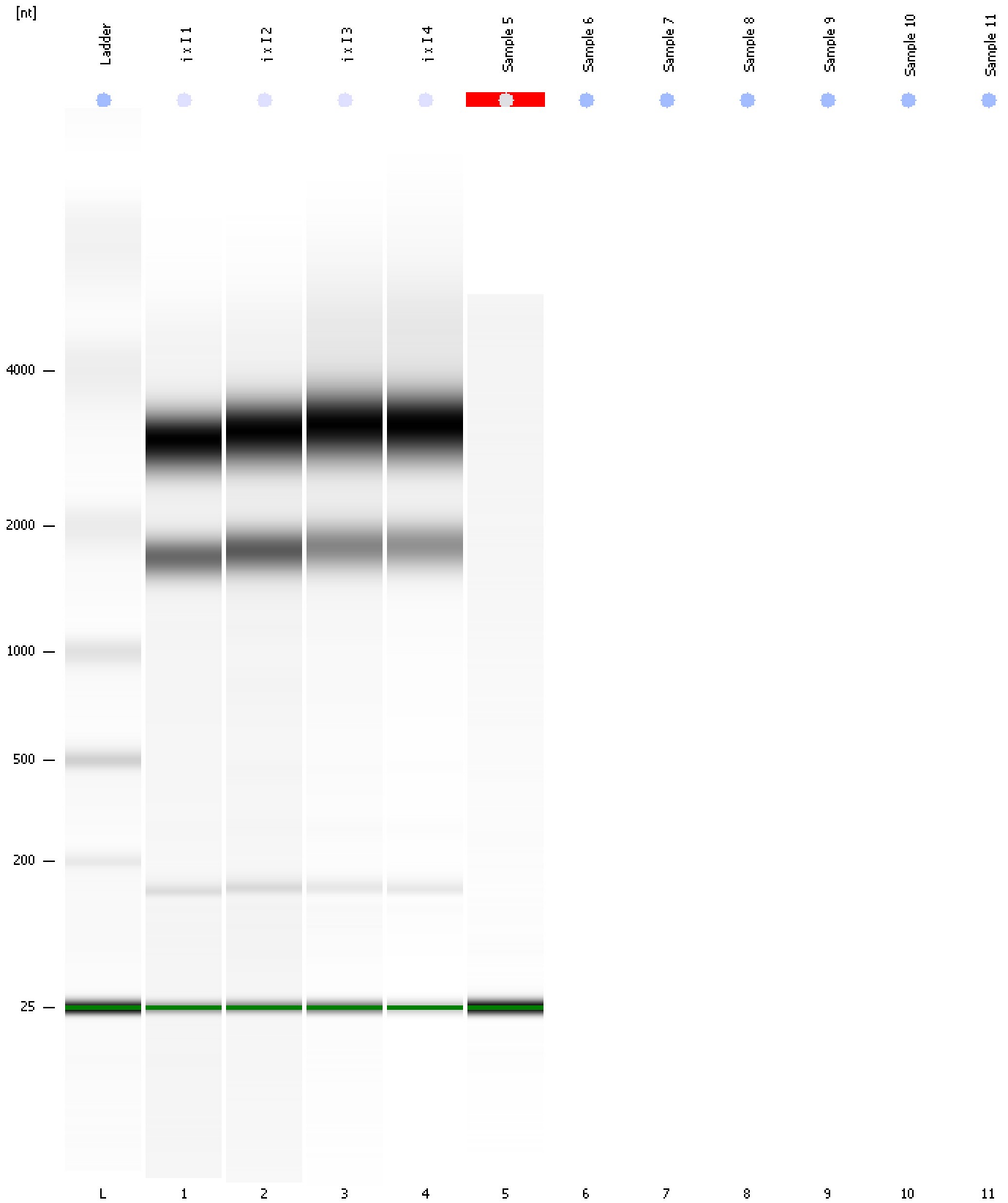
**Overall Results for sample 5 : Sample 5**

RNA Area:	48.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	763 pg/μl	Result Flagging Color:	<input type="checkbox"/>
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\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad

Created: 9/2/2016 1:24:17 PM  
Modified: 9/2/2016 1:43:07 PM

**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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 Created: 9/2/2016 1:24:17 PM  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-02\2016-09-02\_002.xad Modified: 9/2/2016 1:43:07 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		9/2/2016 1:38:48 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\2016-09-02\2016-09-02_002.xad)		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/2/2016 1:24:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1