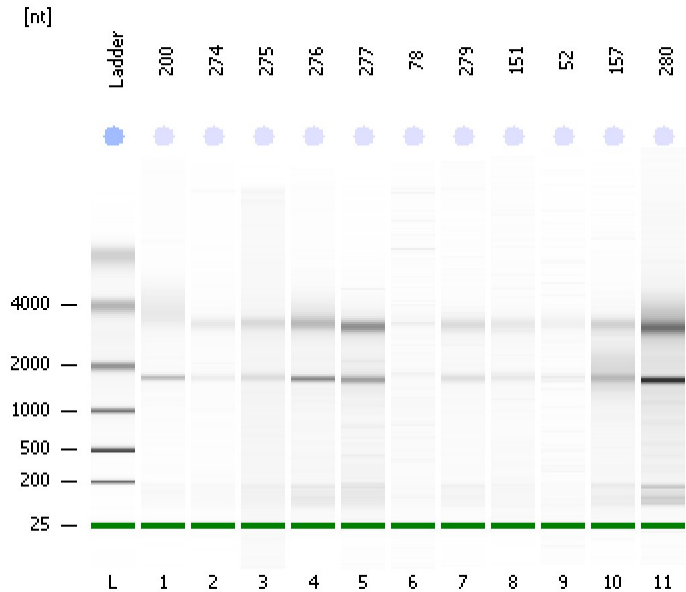


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

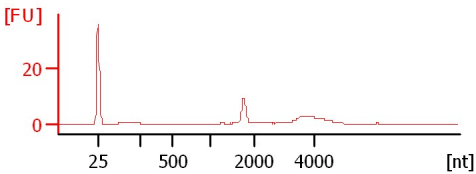
#### Assay Information:

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.

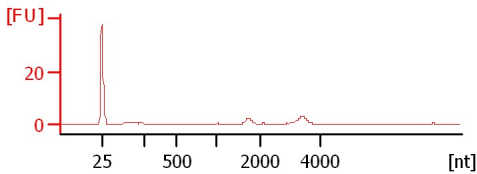
#### Chip Information:

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

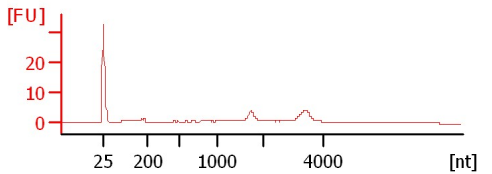
**200**  
QC419  
RIN: 7.90



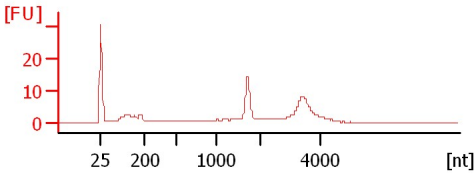
**274**  
QC419  
RIN: 7.90



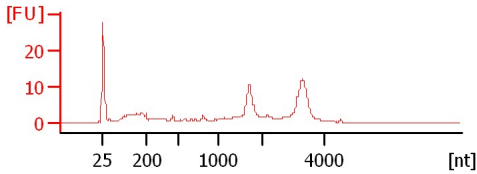
**275**  
QC419  
RIN: 7.30



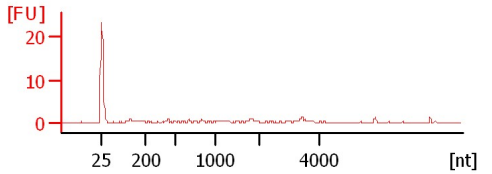
**276**  
QC419  
RIN: 8.60



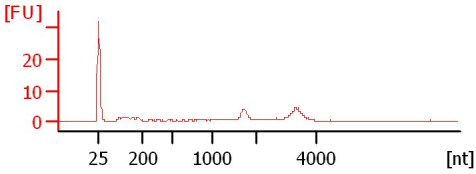
**277**  
QC419  
RIN: 8.60



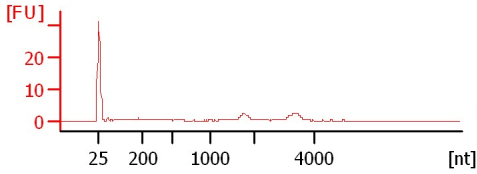
**78**  
QC419  
RIN: 5.50



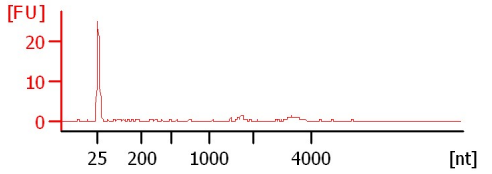
**279**  
QC419  
RIN: 7.80



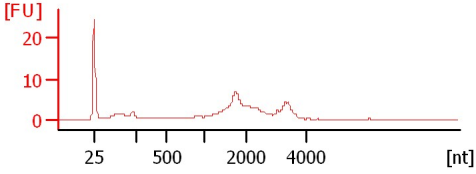
**151**  
QC419  
RIN: 7.50



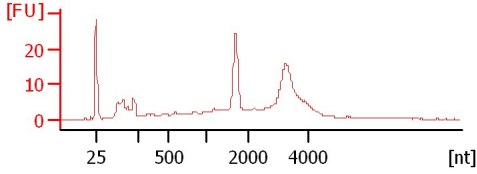
**52**  
QC419  
RIN: 8.40



**157**  
QC419  
RIN: 7.10



**280**  
QC419  
RIN: 8.40



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
 Modified: 4/19/2019 11:22:39 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
200	QC419	✓	RIN: 7.90	
274	QC419	✓	RIN: 7.90	
275	QC419	✓	RIN: 7.30	
276	QC419	✓	RIN: 8.60	
277	QC419	✓	RIN: 8.60	
78	QC419	✓	RIN: 5.50	
279	QC419	✓	RIN: 7.80	
151	QC419	✓	RIN: 7.50	
52	QC419	✓	RIN: 8.40	
157	QC419	✓	RIN: 7.10	
280	QC419	✓	RIN: 8.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 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/μl] : 1000  
Lower Marker Concentration [pg/μl] : 0  
Upper Marker Concentration [pg/μl] : 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

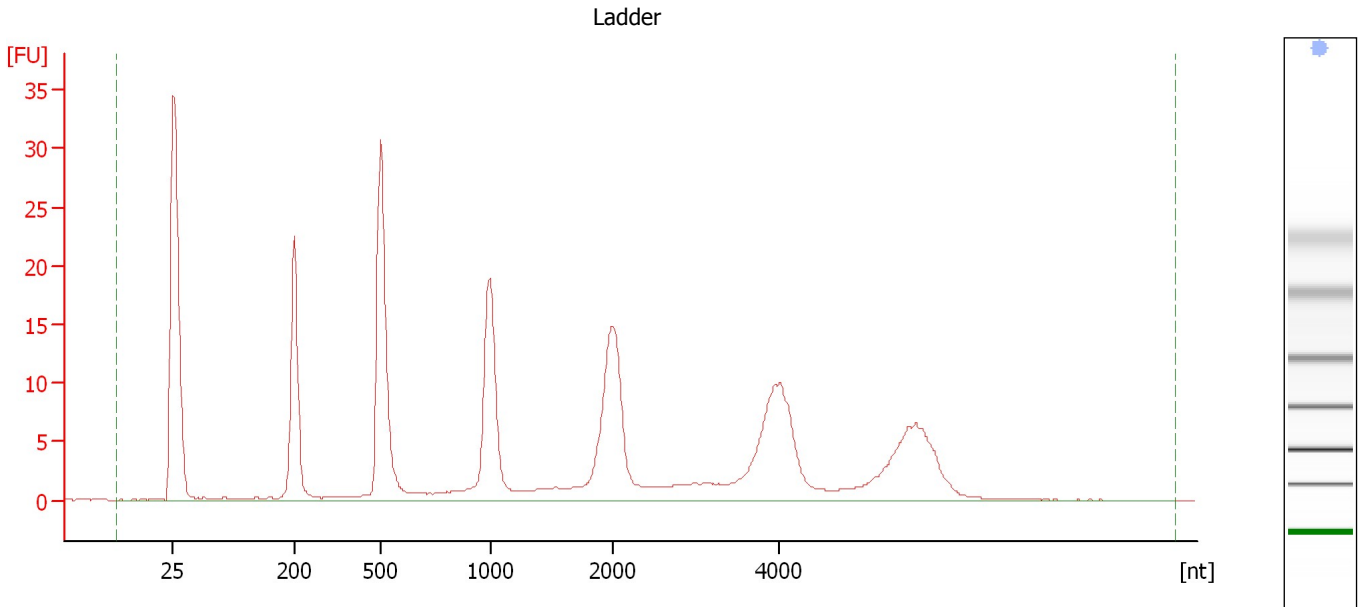
**Ladder**

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\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary**



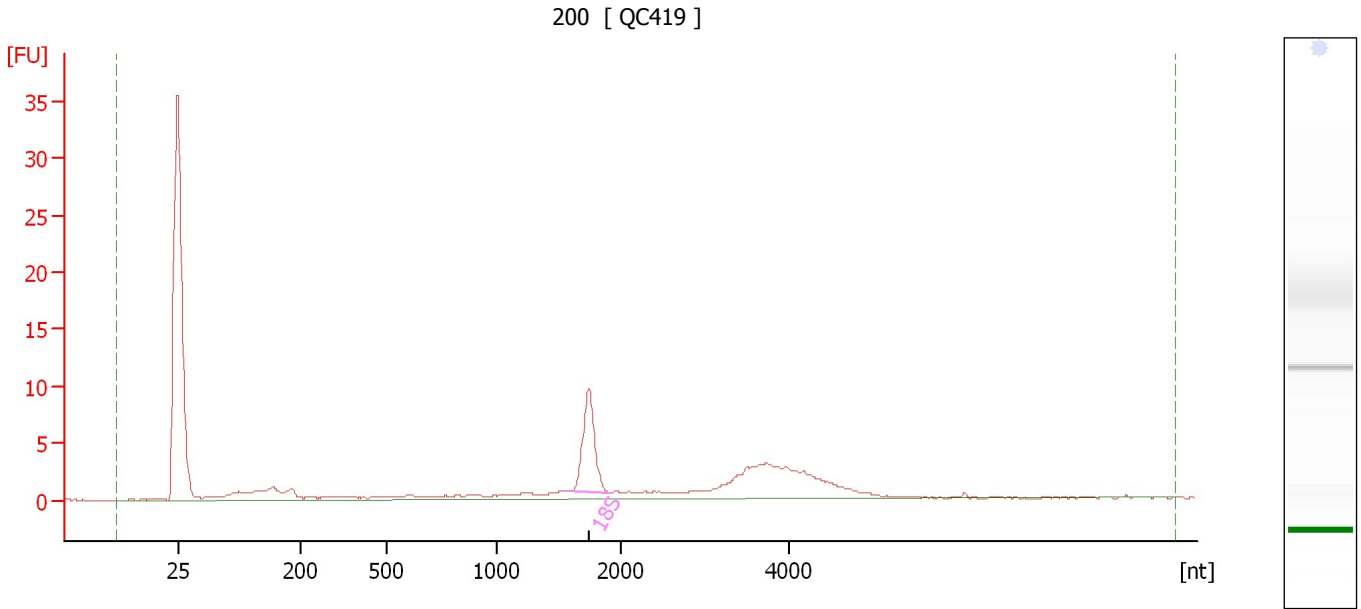
**Overall Results for Ladder**

RNA Area:	257.1	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\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 200**

RNA Area:	71.5	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	278 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]:	0.0	Result Flagging Label:	RIN: 7.90

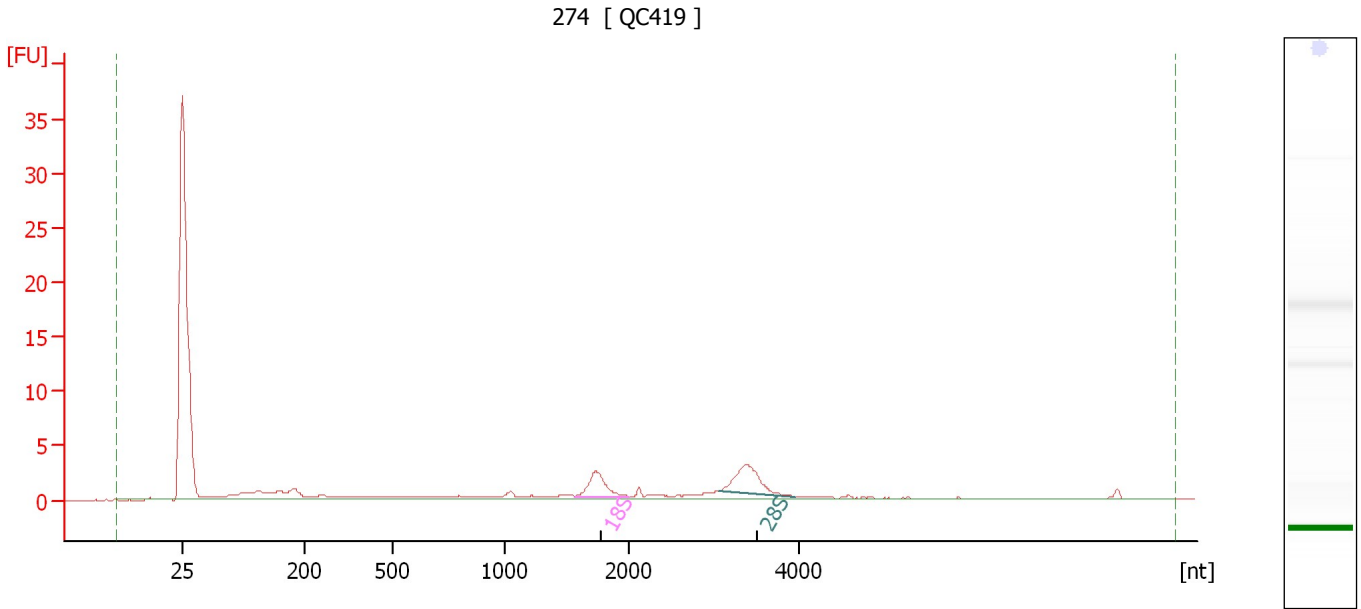
**Fragment table for sample 1 : 200**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	1,907	13.8	19.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 274**

RNA Area:	44.6	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	174 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]:	1.4	Result Flagging Label:	RIN: 7.90

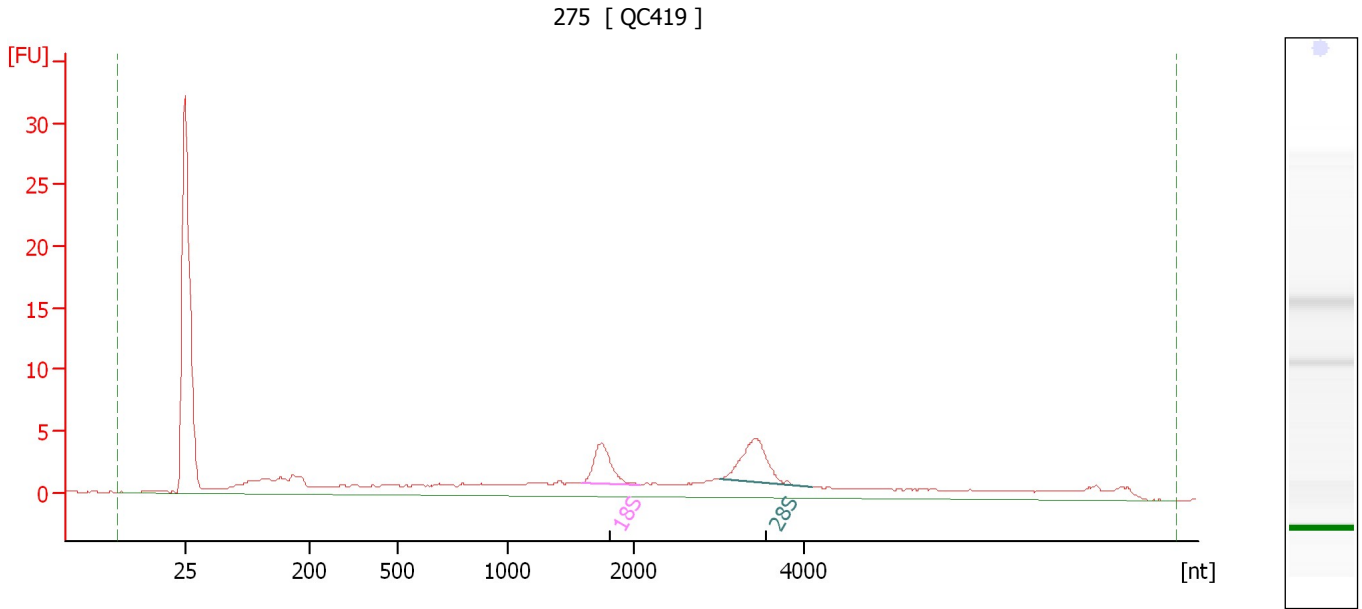
**Fragment table for sample 2 : 274**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	2,007	4.9	11.0
28S	3,065	3,946	6.8	15.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 275**

RNA Area: 112.8 RNA Integrity Number (RIN): 7.3 (B.02.08)  
RNA Concentration: 439 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.30

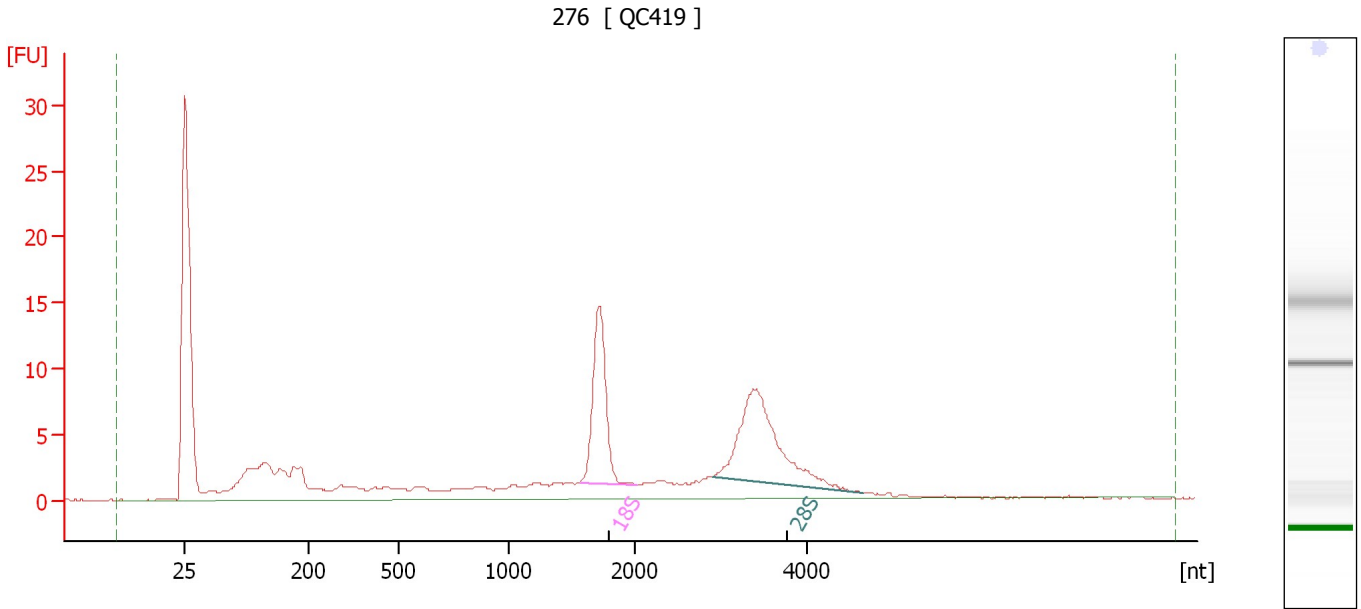
**Fragment table for sample 3 : 275**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	2,059	7.2	6.4
28S	2,999	4,077	10.2	9.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 276**

RNA Area:	151.5	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	589 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]:	1.3	Result Flagging Label:	RIN: 8.60

**Fragment table for sample 4 : 276**

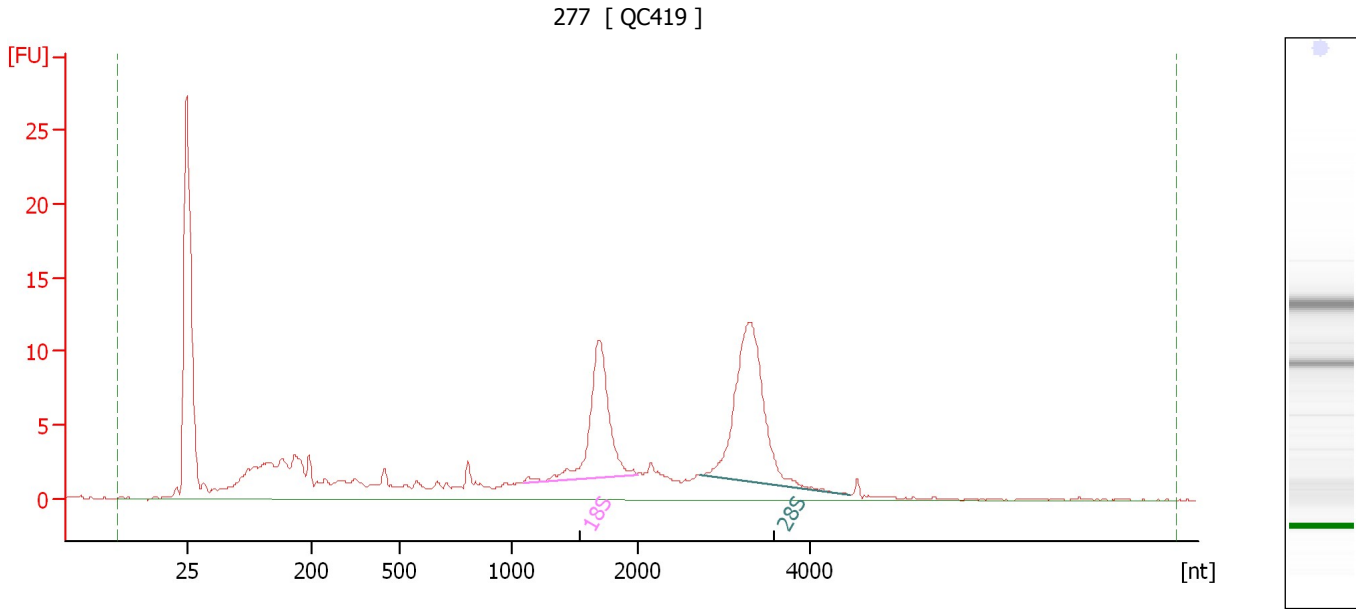
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	2,009	22.2	14.7
28S	2,910	4,662	29.9	19.7



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
 Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 277**

RNA Area:	165.8	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	645 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]:	1.5	Result Flagging Label:	RIN: 8.60

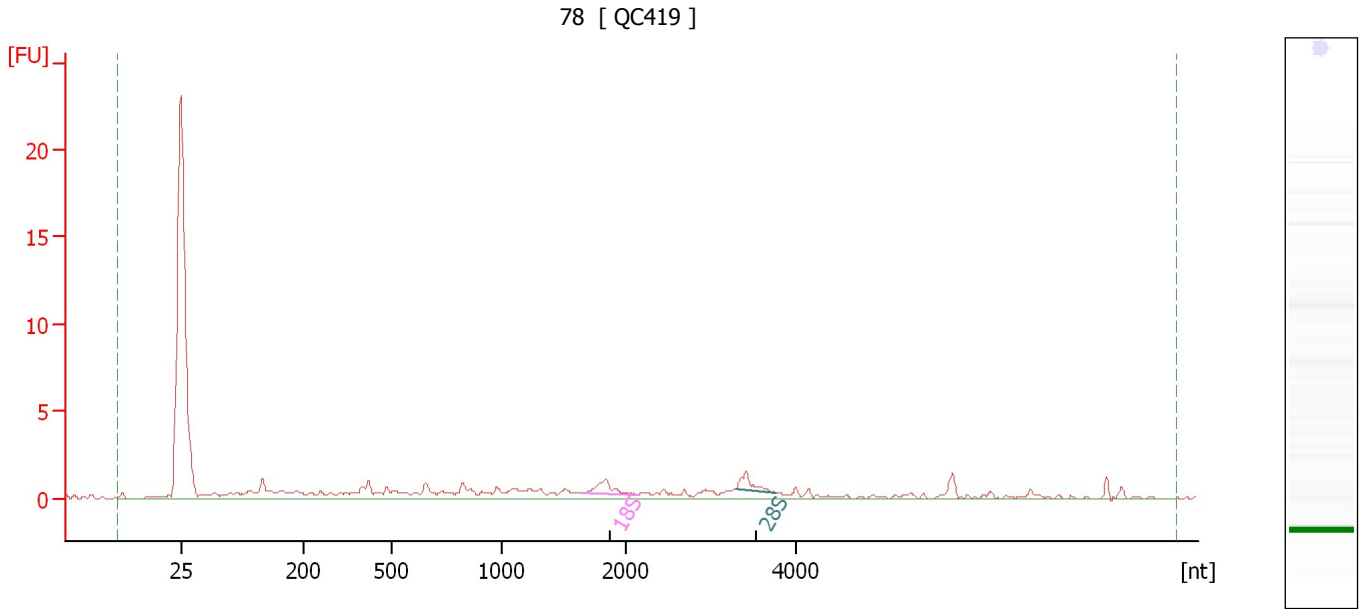
**Fragment table for sample 5 : 277**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,084	1,990	23.0	13.9
28S	2,709	4,469	34.8	21.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 78**

RNA Area: 33.3                      RNA Integrity Number (RIN): 5.5 (B.02.08)  
RNA Concentration: 130 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7                      Result Flagging Label: RIN: 5.50

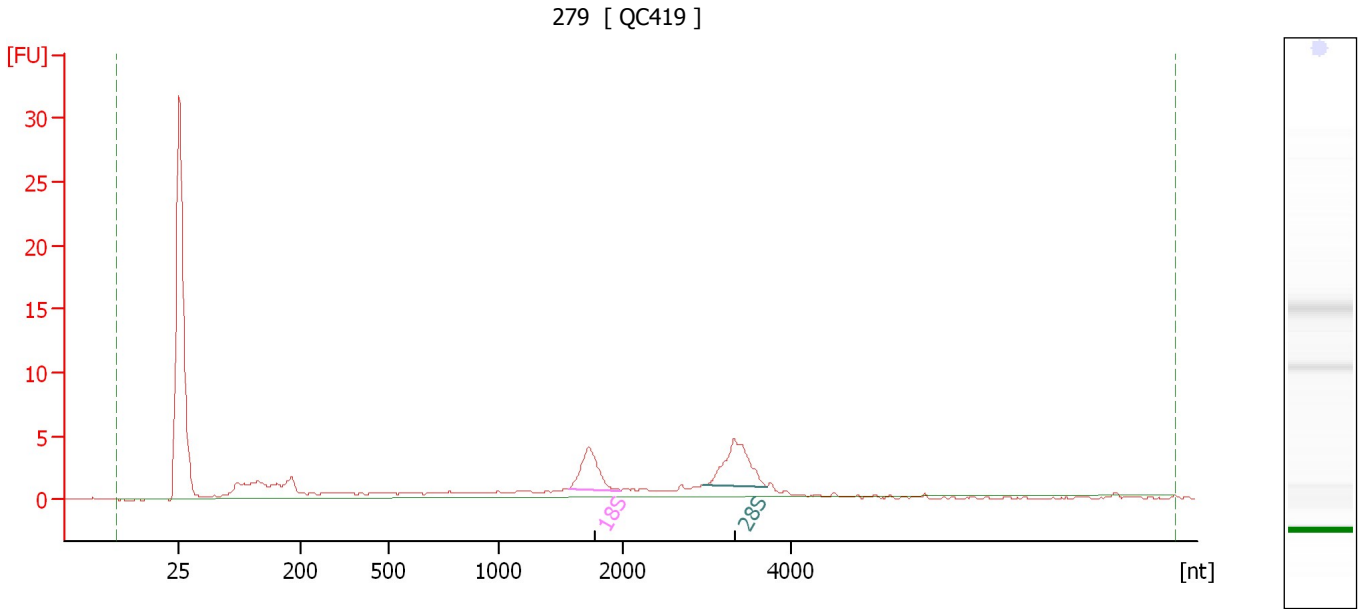
**Fragment table for sample 6 : 78**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,144	1.7	5.0
28S	3,295	3,763	1.2	3.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 279**

RNA Area:	63.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	248 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]:	1.3	Result Flagging Label:	RIN: 7.80

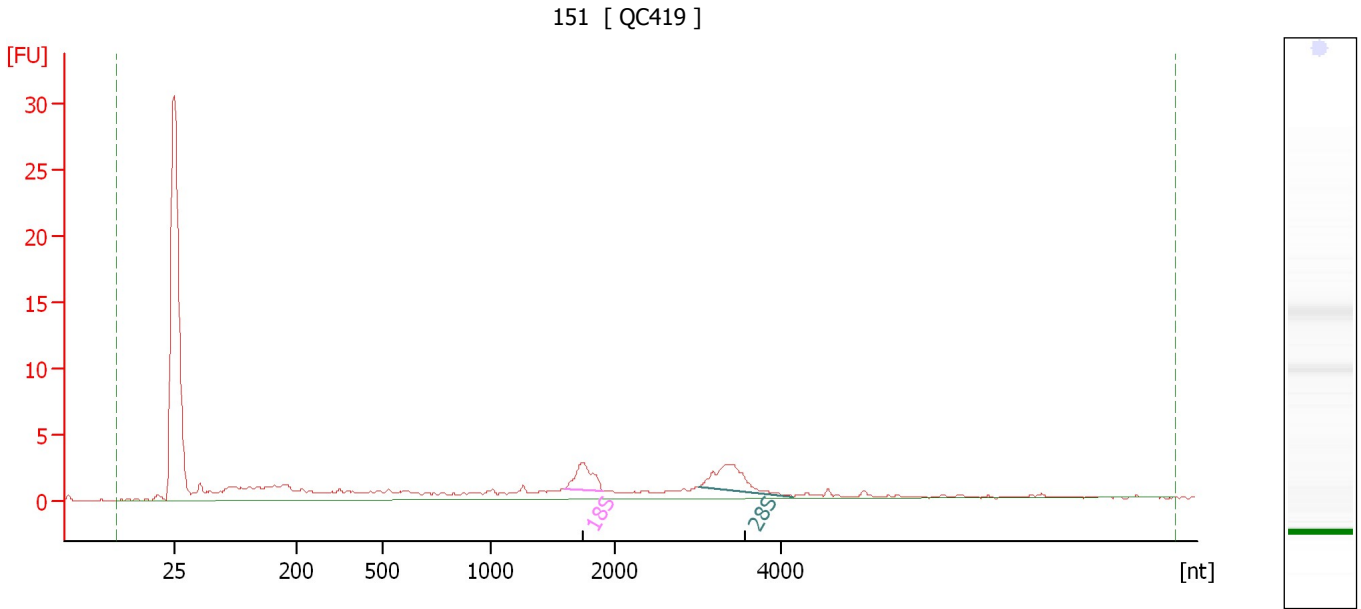
**Fragment table for sample 7 : 279**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,977	7.4	11.6
28S	2,955	3,703	9.9	15.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 151**

RNA Area: 68.3                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 266 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN: 7.50

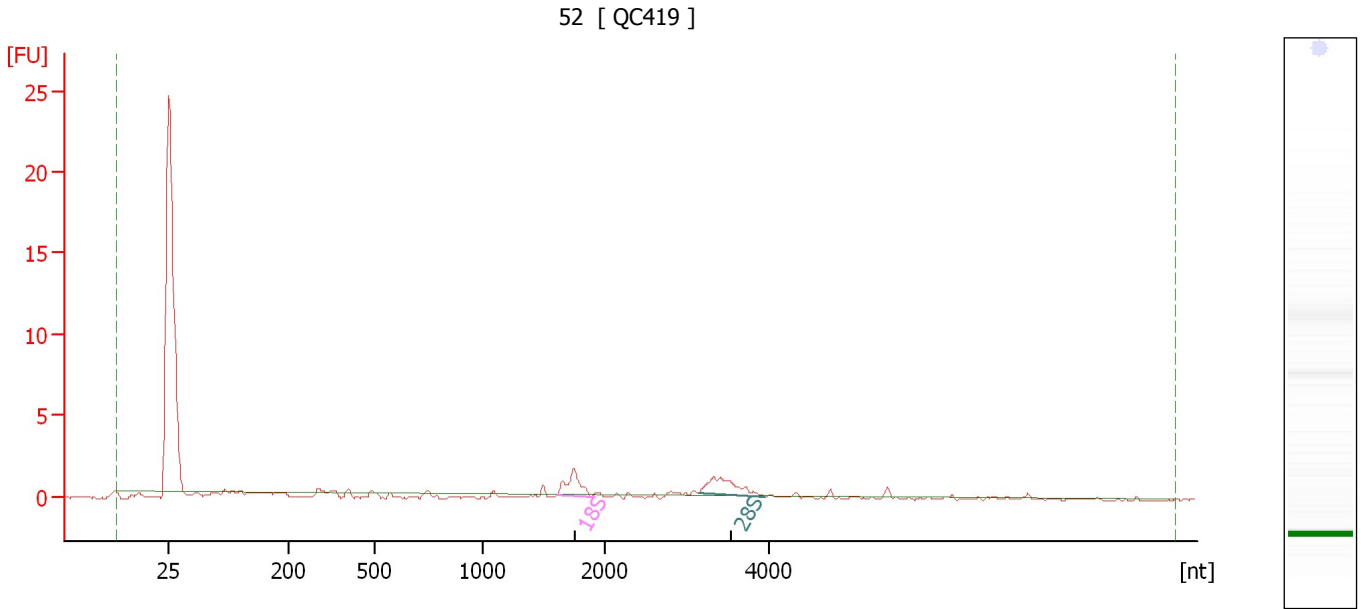
**Fragment table for sample 8 : 151**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,905	4.8	7.0
28S	3,011	4,124	6.9	10.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 52**

RNA Area: 9.6                      RNA Integrity Number (RIN): 8.4 (B.02.08)  
RNA Concentration: 37 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 8.40

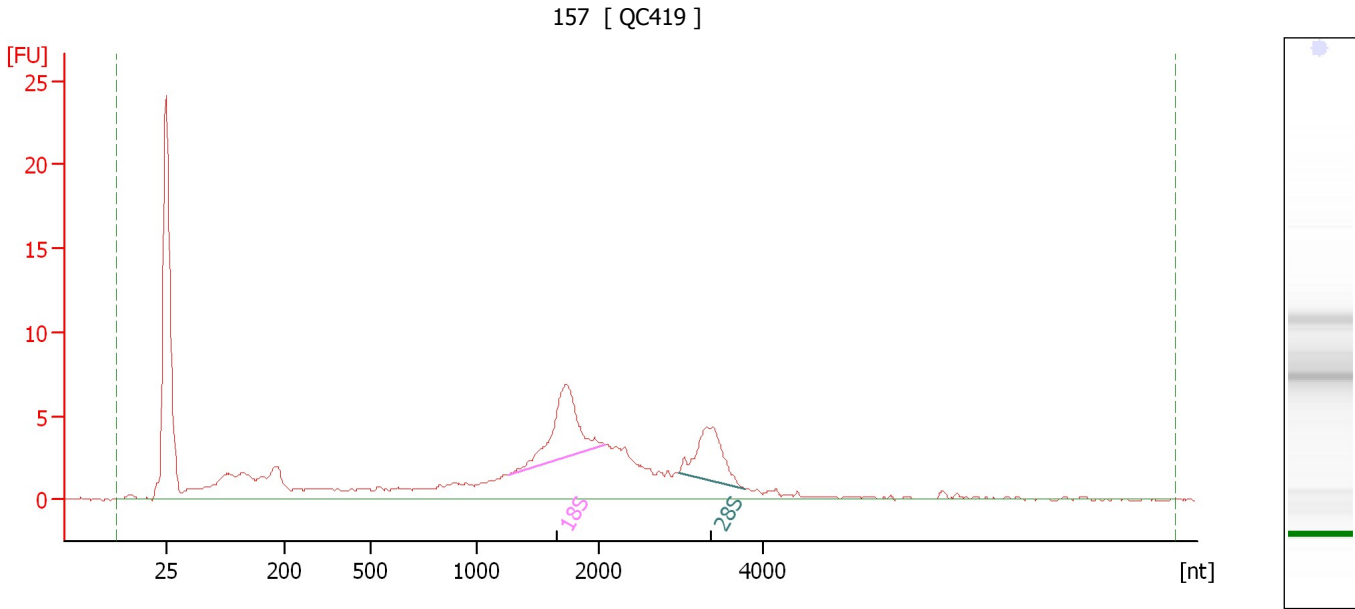
**Fragment table for sample 9 : 52**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,900	2.9	30.2
28S	3,134	3,949	3.5	36.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 157**

RNA Area: 122.3                      RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 476 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7                      Result Flagging Label: RIN: 7.10

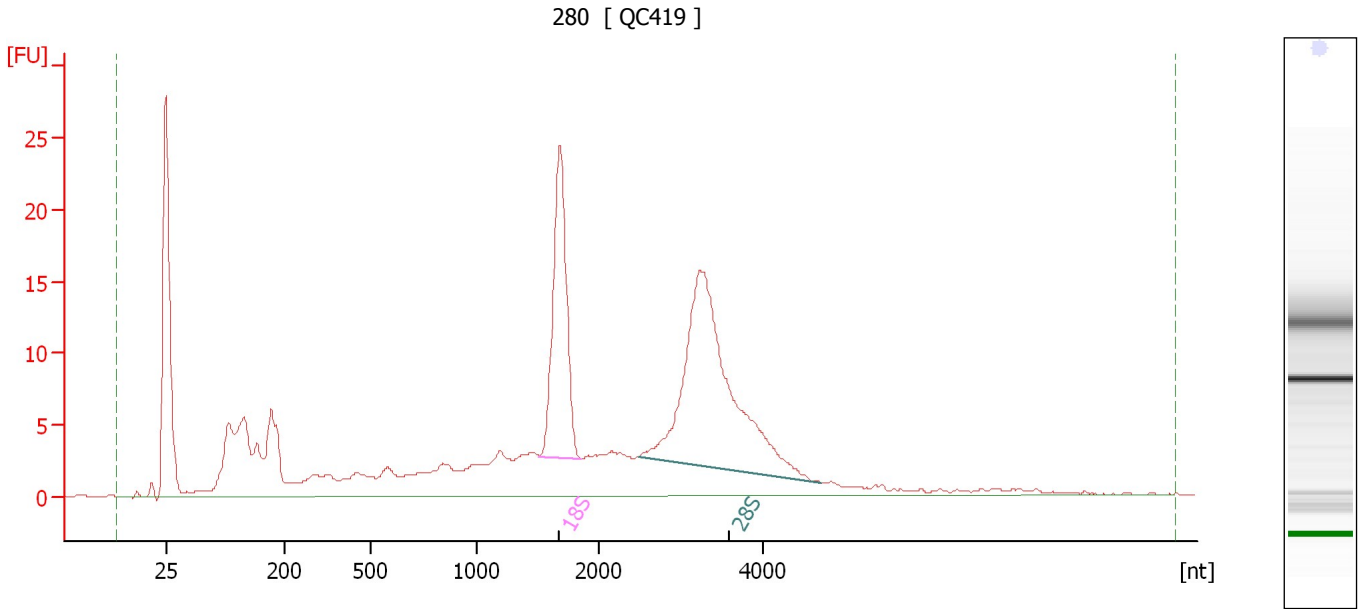
**Fragment table for sample 10 : 157**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,253	2,084	14.5	11.9
28S	2,970	3,778	10.1	8.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 280**

RNA Area:	294.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	1,146 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: 8.40

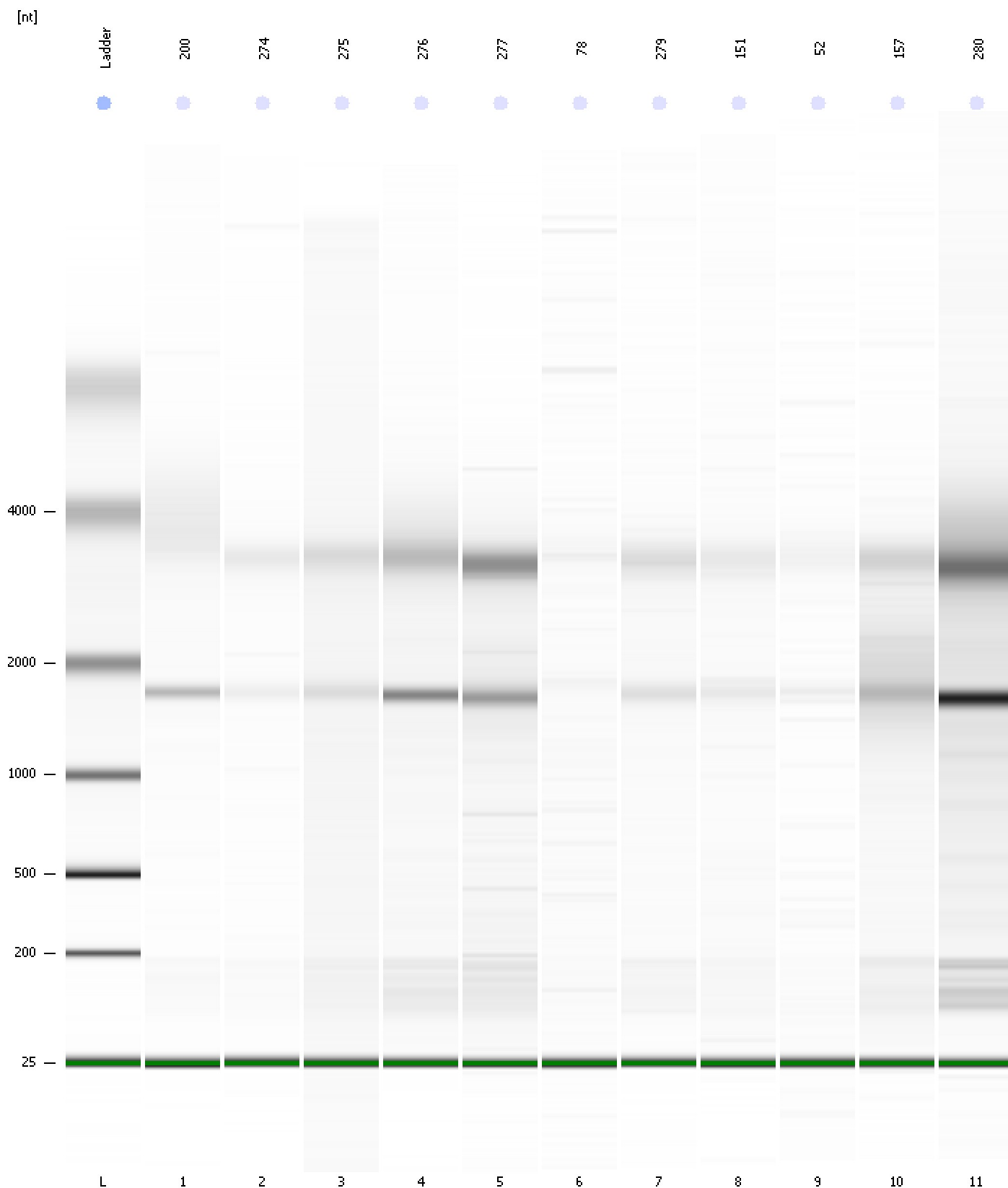
**Fragment table for sample 11 : 280**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,509	1,854	38.9	13.2
28S	2,501	4,715	72.2	24.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
Modified: 4/19/2019 11:22:39 AM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_003.xad

Created: 4/19/2019 11:00:33 AM  
 Modified: 4/19/2019 11:22:39 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/19/2019 11:22:38 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\2019-04-19\2019-04-19_003.xad)		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2019 11:00:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1