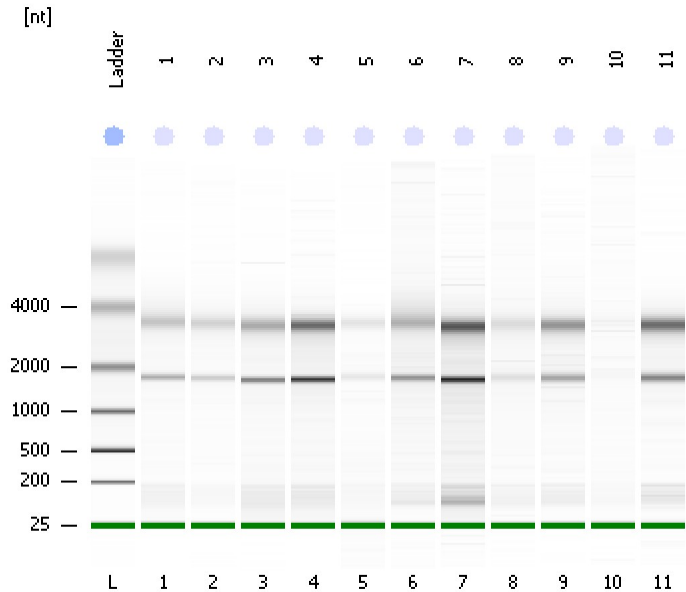


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

### Electrophoresis File Run Summary



#### Instrument Information:

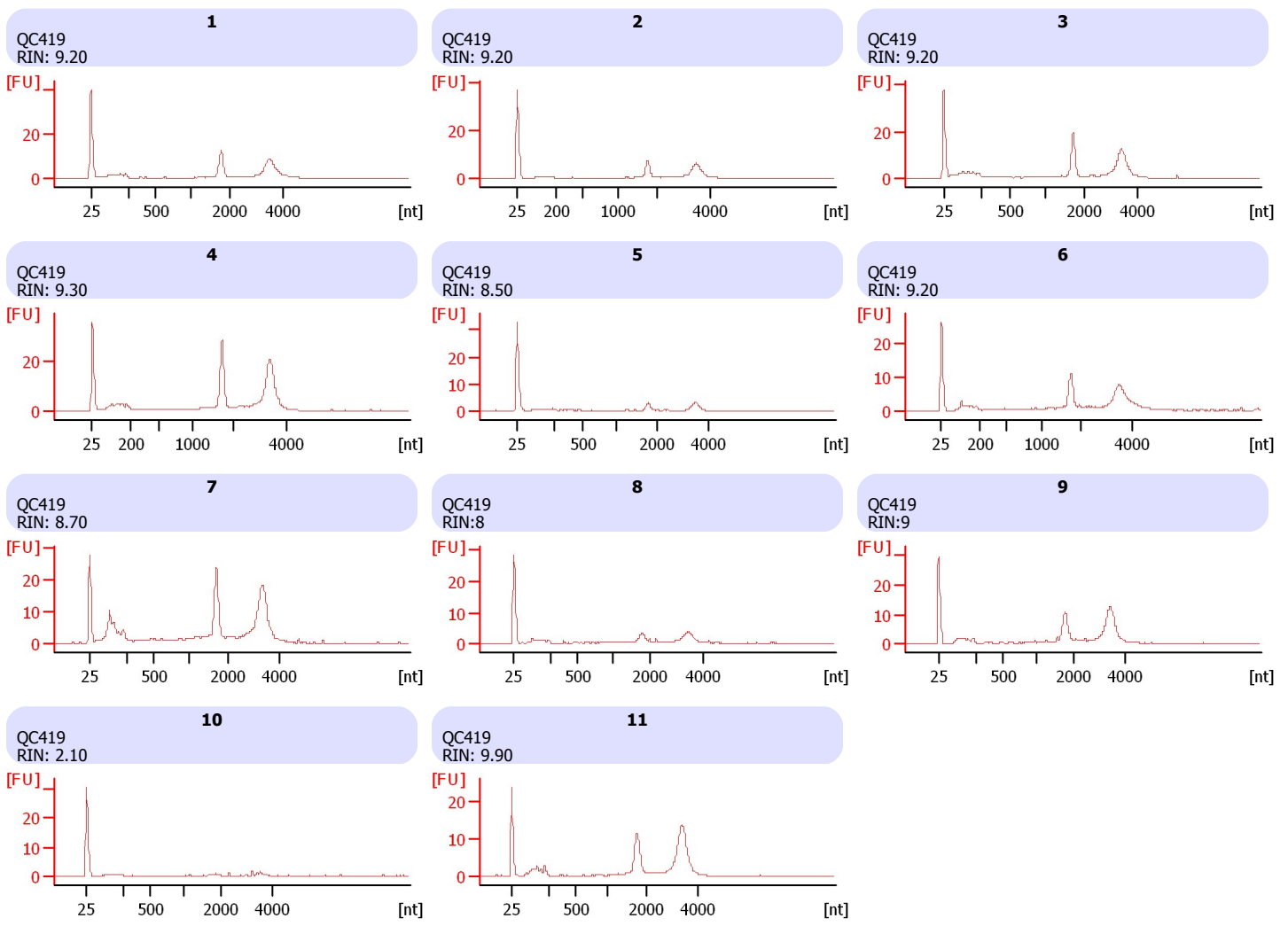
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

#### 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)  
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#### Chip Information:

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\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1	QC419	✓	RIN: 9.20	
2	QC419	✓	RIN: 9.20	
3	QC419	✓	RIN: 9.20	
4	QC419	✓	RIN: 9.30	
5	QC419	✓	RIN: 8.50	
6	QC419	✓	RIN: 9.20	
7	QC419	✓	RIN: 8.70	
8	QC419	✓	RIN:8	
9	QC419	✓	RIN:9	
10	QC419	✓	RIN: 2.10	
11	QC419	✓	RIN: 9.90	
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\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 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

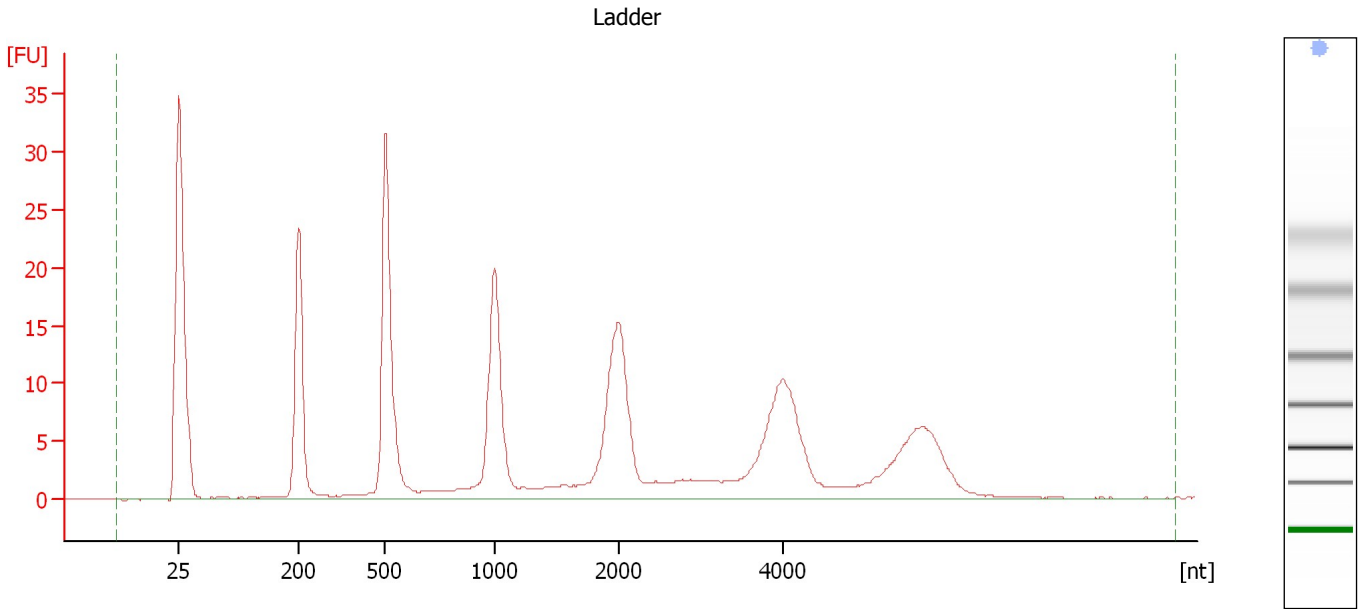
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary**



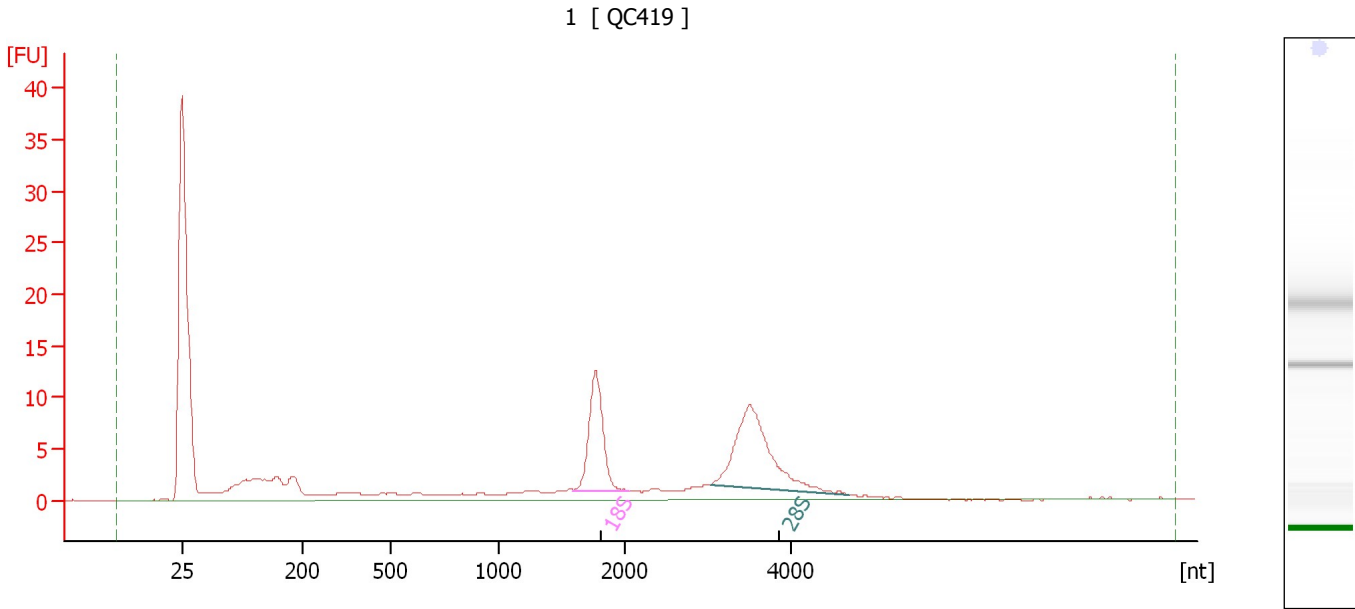
**Overall Results for Ladder**

RNA Area:	272.3	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:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1**

RNA Area:	127.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	469 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: 9.20

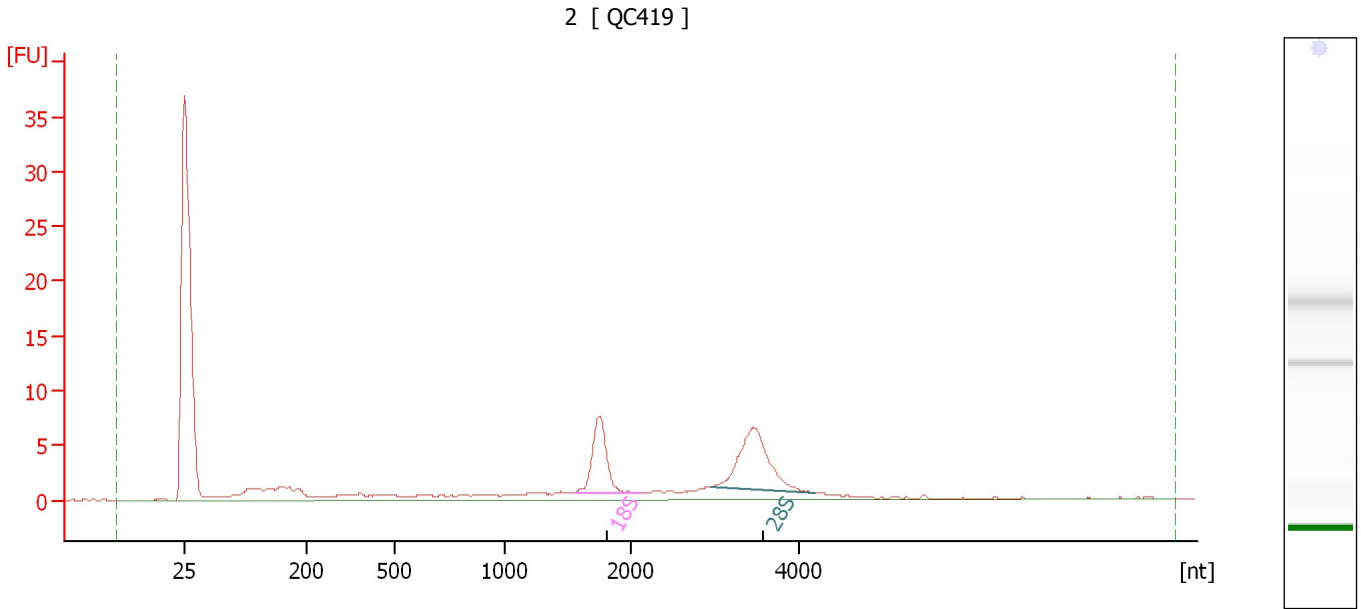
**Fragment table for sample 1 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	2,054	20.7	16.2
28S	3,041	4,694	30.1	23.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2**

RNA Area:	77.7	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	286 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: 9.20

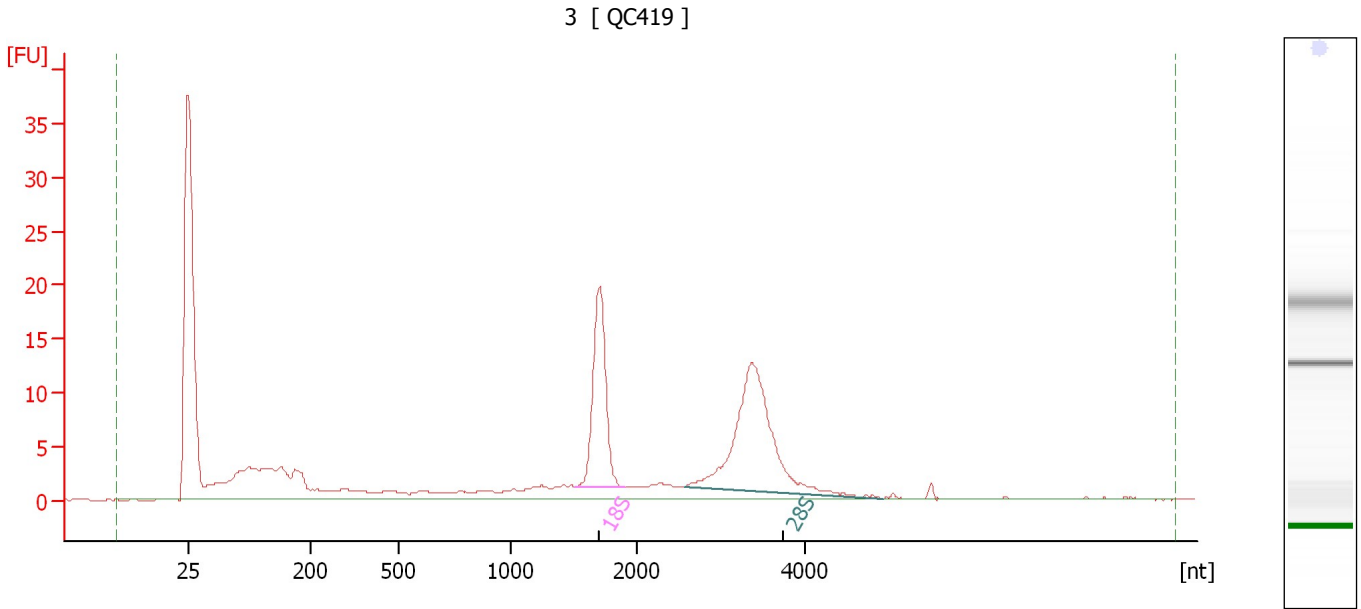
**Fragment table for sample 2 : 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	2,133	13.0	16.7
28S	2,961	4,196	18.3	23.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3**

RNA Area:	180.2	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	662 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]:	1.5	Result Flagging Label:	RIN: 9.20

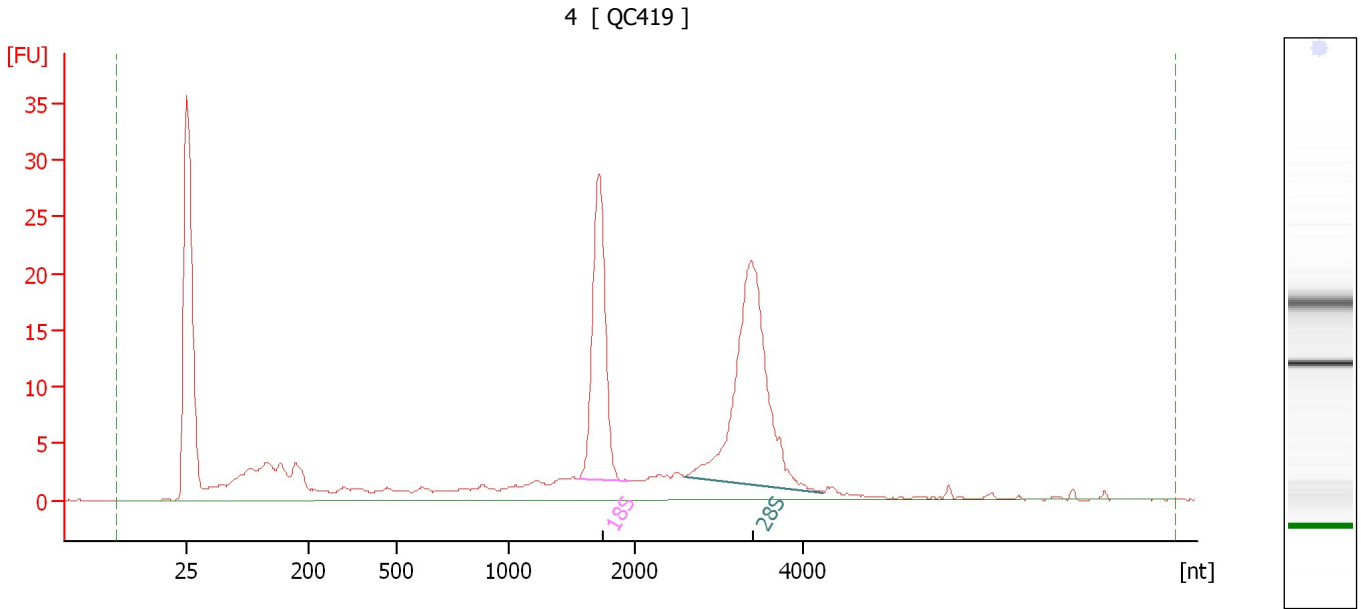
**Fragment table for sample 3 : 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,516	1,904	30.4	16.9
28S	2,565	4,918	47.0	26.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4**

RNA Area:	237.3	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	872 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]:	1.6	Result Flagging Label:	RIN: 9.30

**Fragment table for sample 4 : 4**

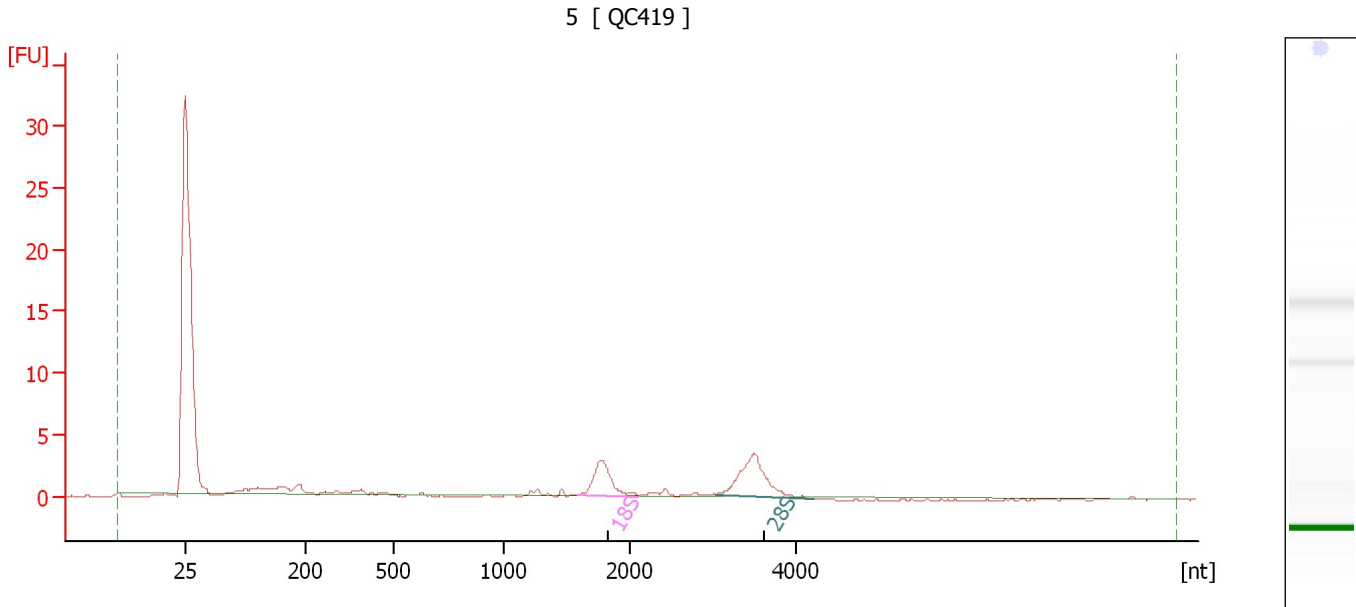
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,954	44.0	18.5
28S	2,591	4,239	68.4	28.8



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 5**

RNA Area: 25.8                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 95 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5              Result Flagging Label: RIN: 8.50

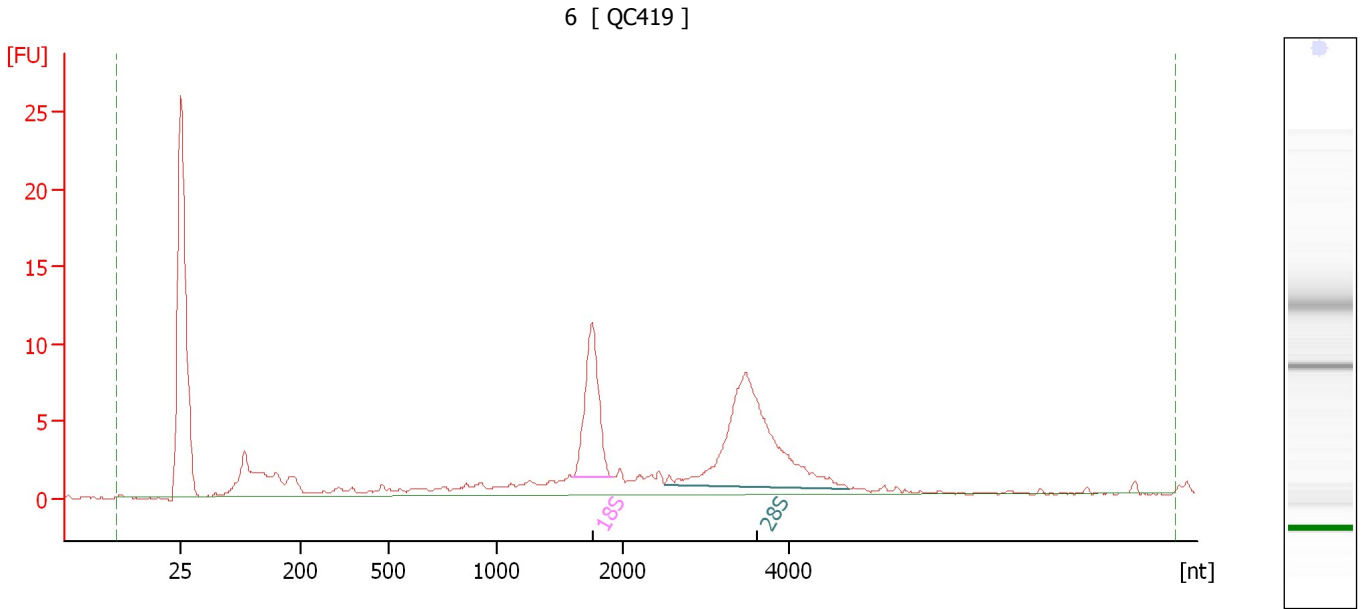
**Fragment table for sample 5 : 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	2,107	6.4	24.9
28S	3,026	4,212	9.5	36.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6**

RNA Area:	113.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	418 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]:	2.1	Result Flagging Label:	RIN: 9.20

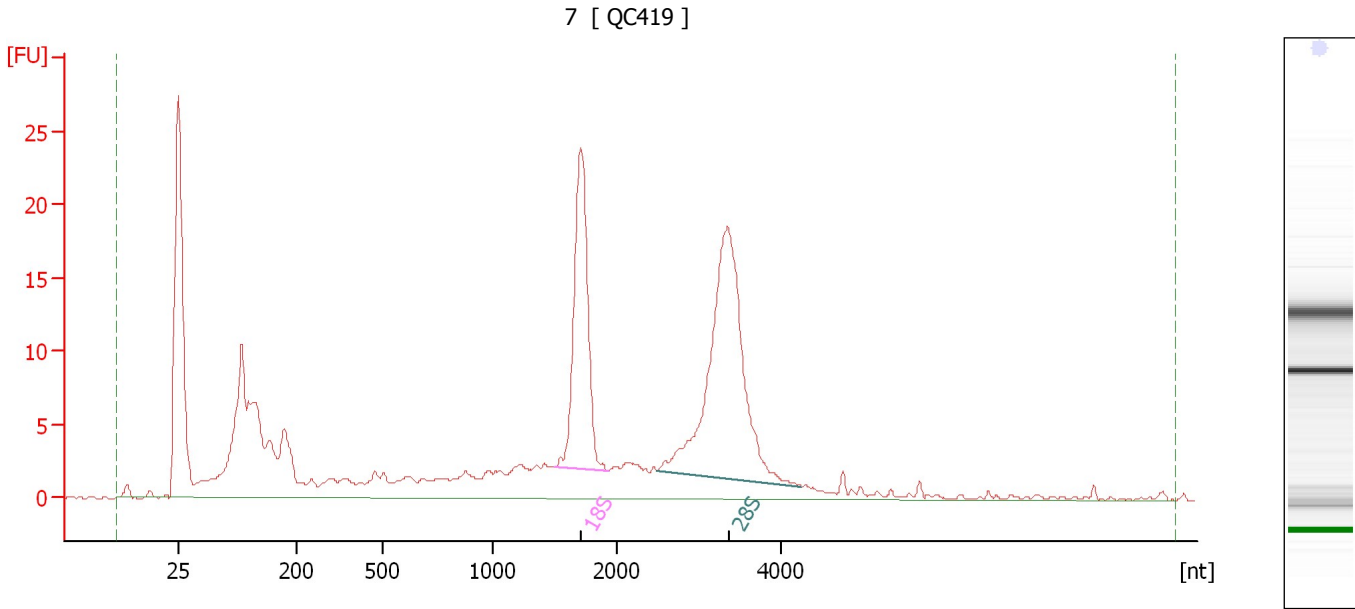
**Fragment table for sample 6 : 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,932	17.7	15.5
28S	2,503	4,738	37.4	32.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 7**

RNA Area:	278.4	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,022 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]:	1.6	Result Flagging Label:	RIN: 8.70

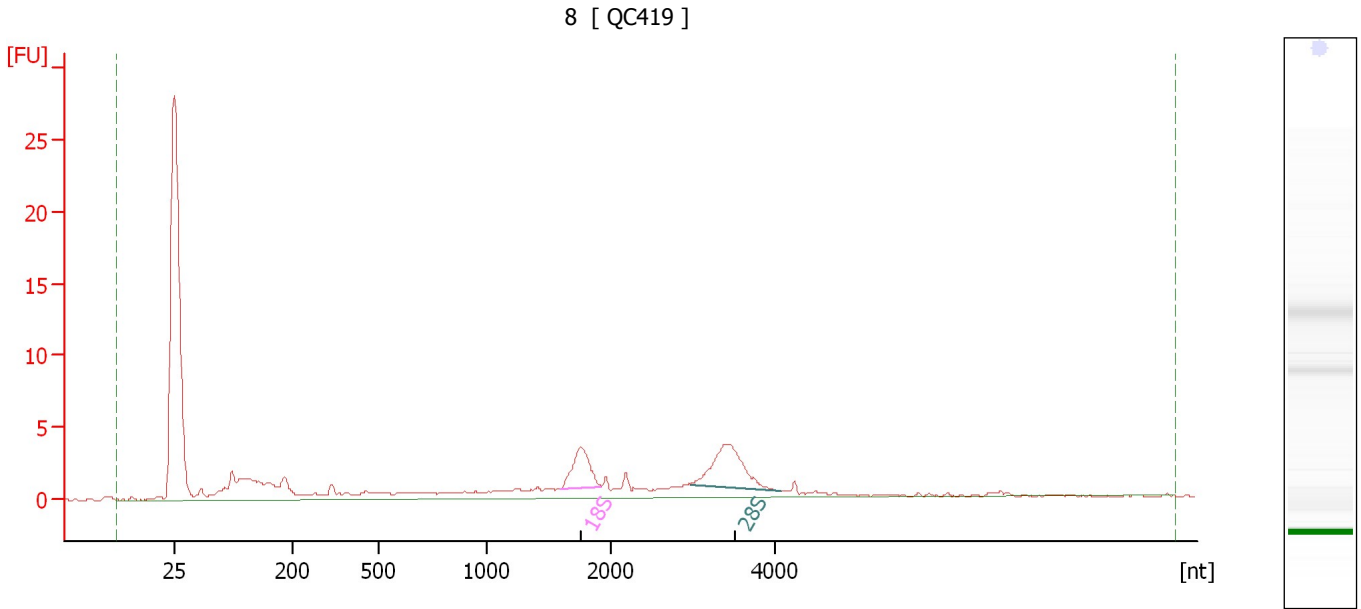
**Fragment table for sample 7 : 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,938	39.4	14.2
28S	2,503	4,249	64.8	23.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 8**

RNA Area:	70.2	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	258 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:8

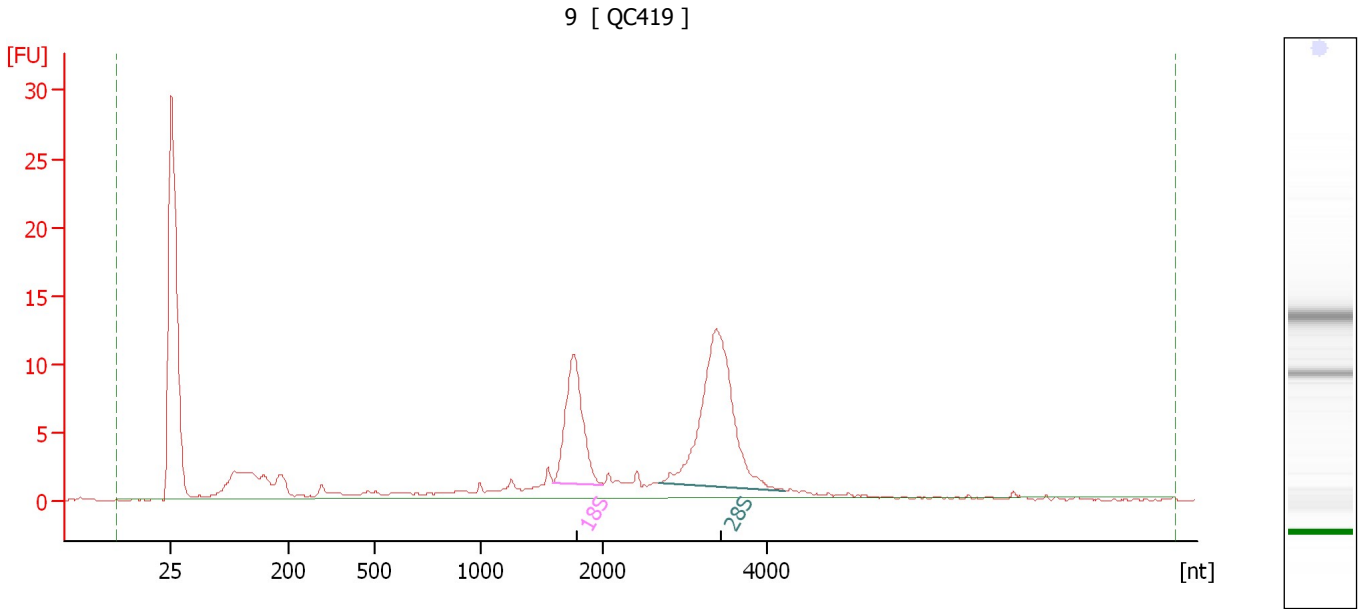
**Fragment table for sample 8 : 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,927	6.2	8.8
28S	2,985	4,091	10.4	14.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 9**

RNA Area:	132.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	485 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

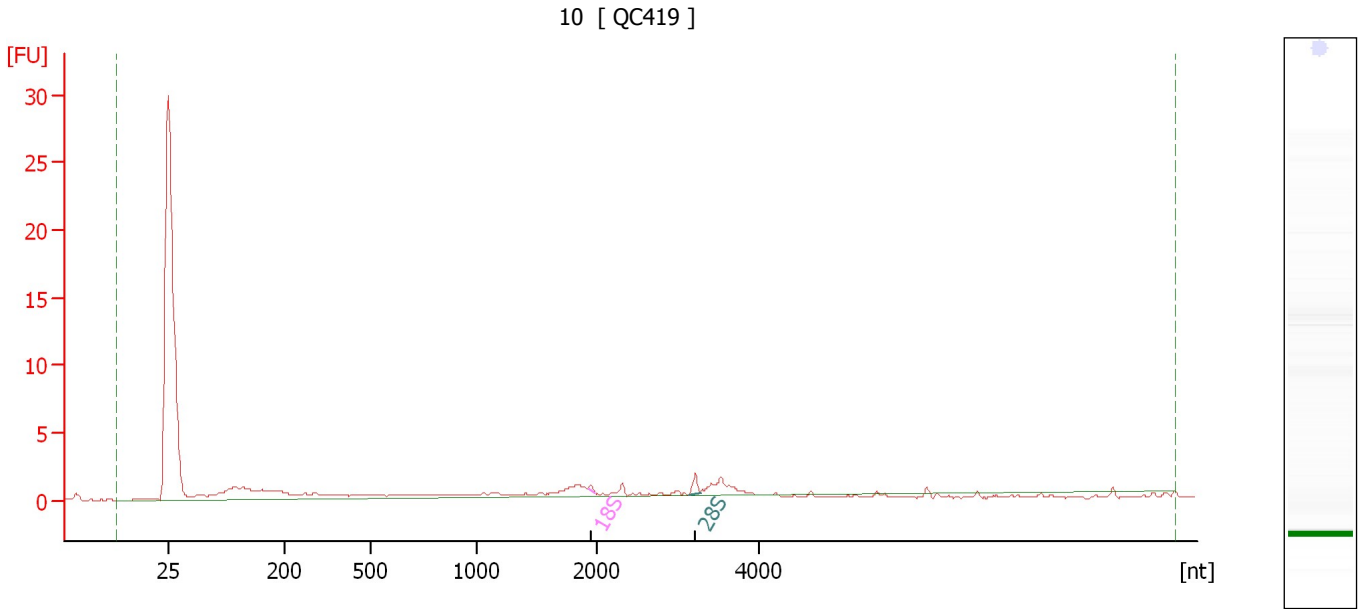
**Fragment table for sample 9 : 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,994	21.4	16.2
28S	2,674	4,233	42.0	31.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
 Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 10**

RNA Area:	28.2	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	104 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]:	4.0	Result Flagging Label:	RIN: 2.10

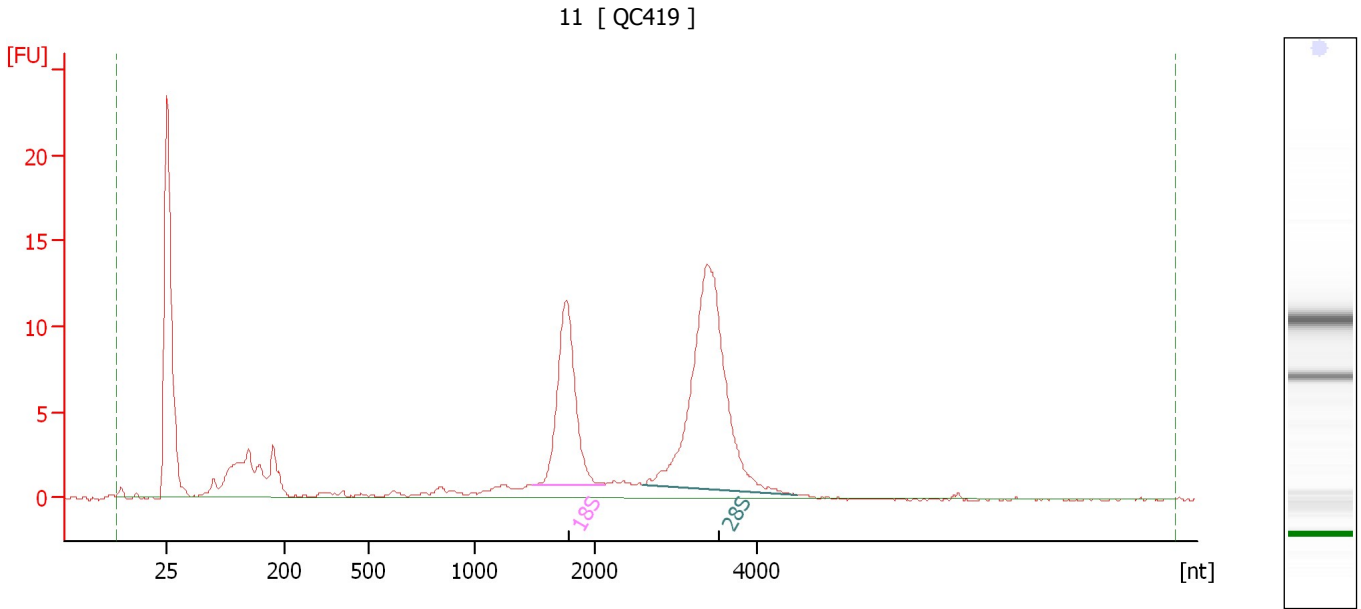
**Fragment table for sample 10 : 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,922	1,983	0.2	0.7
28S	3,124	3,269	0.8	2.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 11**

RNA Area: 122.6                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 450 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0                      Result Flagging Label: RIN: 9.90

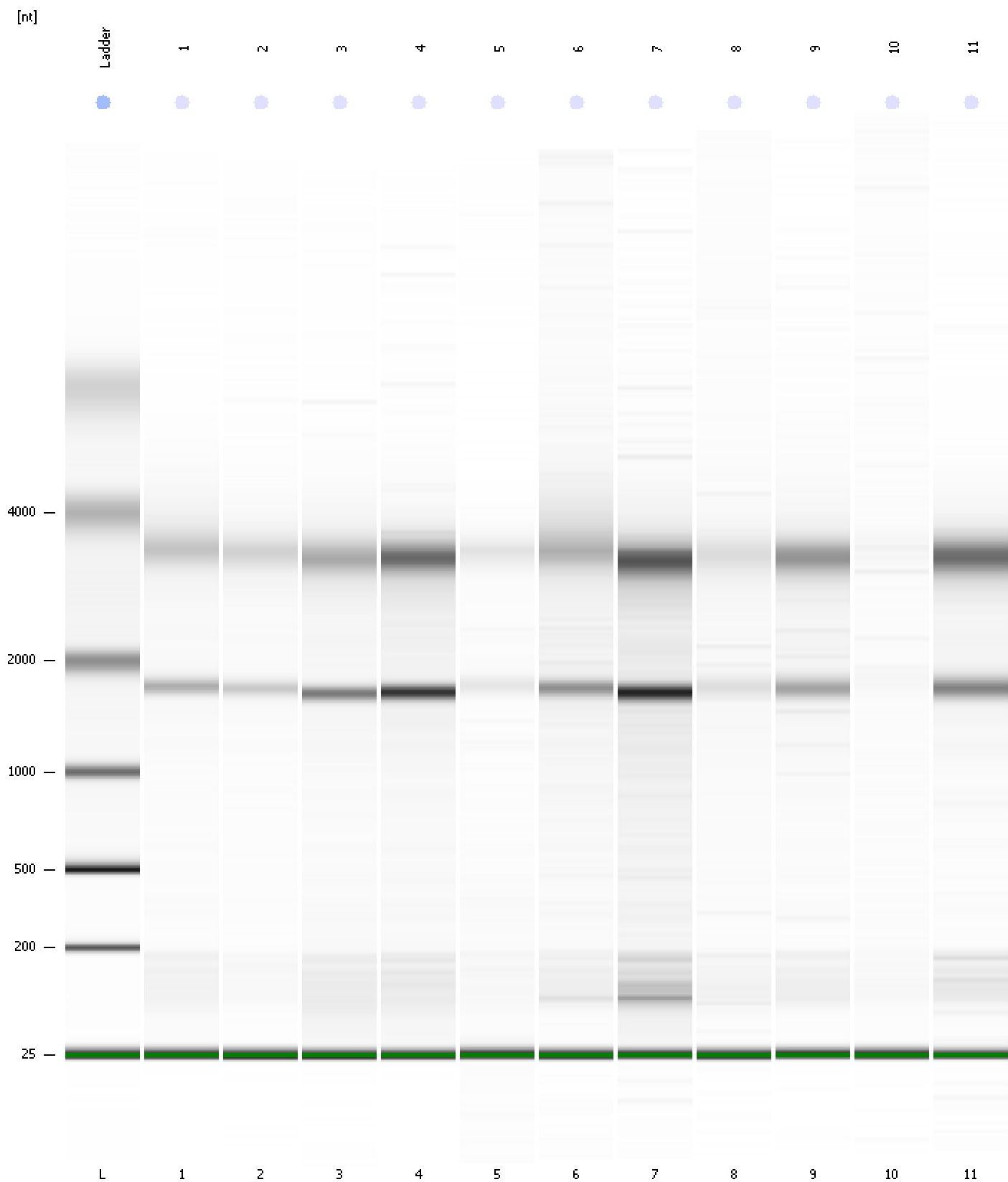
**Fragment table for sample 11 : 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,488	2,120	25.1	20.4
28S	2,596	4,488	50.8	41.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
Modified: 4/19/2019 10:06:25 AM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19\_001.xad

Created: 4/19/2019 9:43:31 AM  
 Modified: 4/19/2019 10:06:25 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 10:06:25 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_001.xad)		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2019 9:43:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1