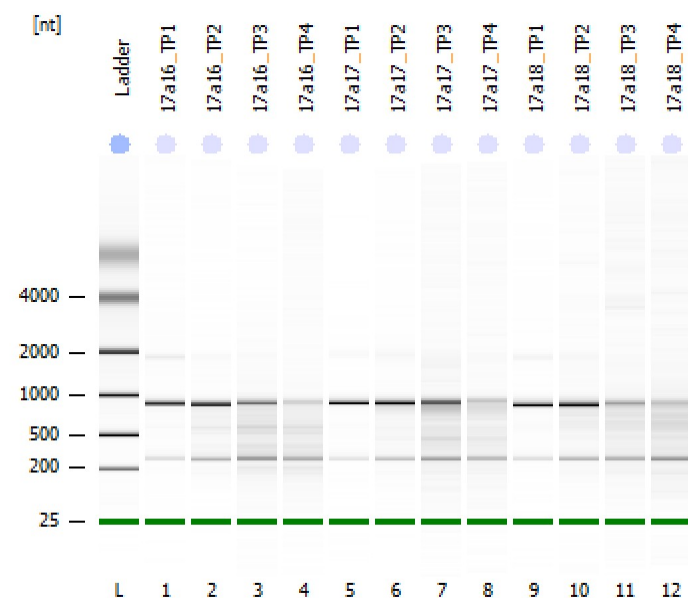


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
Modified: 12/2/2020 4:27:00 PM

**Electrophoresis File Run Summary**Instrument Information:

Instrument Name: DE72901302

Firmware: C.01.069

Serial#: DE72901302

Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy

Assay Class: Eukaryote Total RNA Nano

Version: 2.6

Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

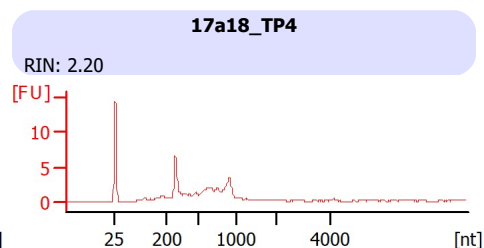
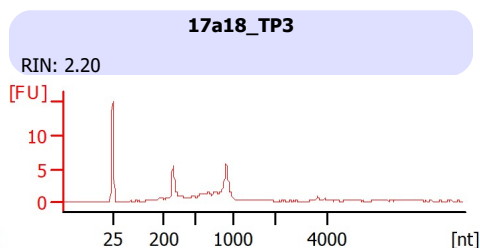
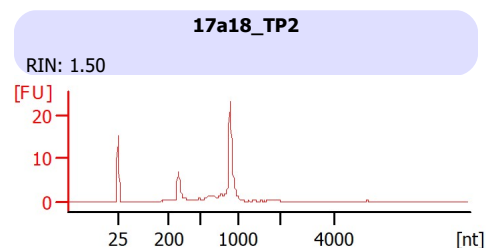
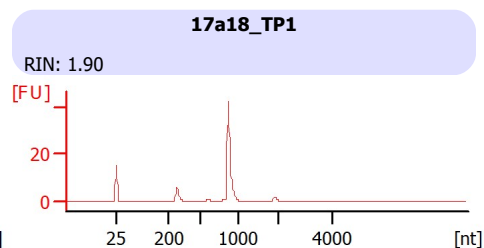
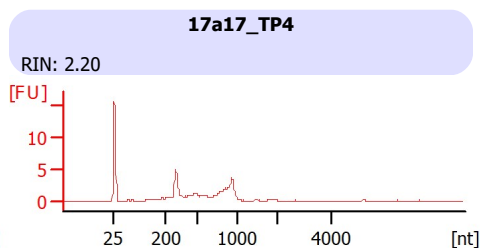
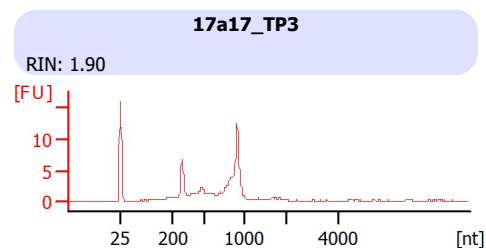
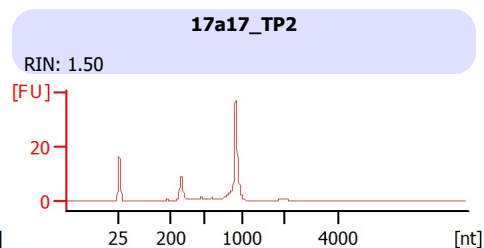
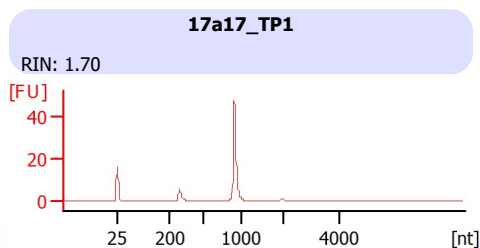
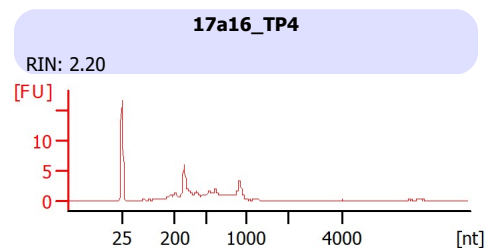
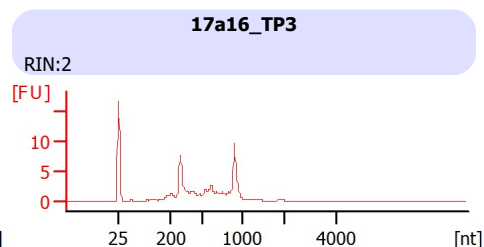
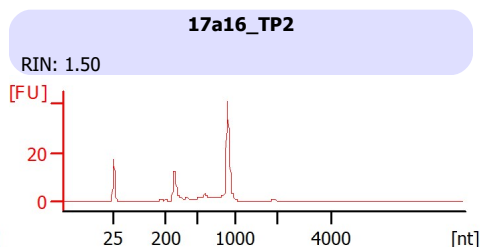
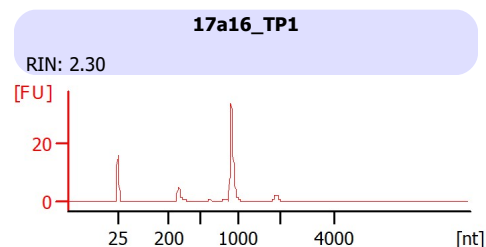
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
Modified: 12/2/2020 4:27:00 PM

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

Sample Name	Sample Comment	Stat Result Label	Result Color
17a16_TP1		✓ RIN: 2.30	
17a16_TP2		✓ RIN: 1.50	
17a16_TP3		✓ RIN:2	
17a16_TP4		✓ RIN: 2.20	
17a17_TP1		✓ RIN: 1.70	
17a17_TP2		✓ RIN: 1.50	
17a17_TP3		✓ RIN: 1.90	
17a17_TP4		✓ RIN: 2.20	
17a18_TP1		✓ RIN: 1.90	
17a18_TP2		✓ RIN: 1.50	
17a18_TP3		✓ RIN: 2.20	
17a18_TP4		✓ RIN: 2.20	
Ladder		✓ All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
Modified: 12/2/2020 4:27:00 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13

Minimum Visible Range [s] : 17

Maximum Visible Range [s] : 70

Start Analysis Time Range [s] : 19

End Analysis Time Range [s] : 69

Ladder Concentration [ng/μl] : 150

Lower Marker Concentration [ng/μl] : 0

Upper Marker Concentration [ng/μl] : 0

Used Lower Marker for Quantitation

Standard Curve Fit is Logarithmic

Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19

Integration End Time [s] : 69

Slope Threshold : 0.6

Height Threshold [FU] : 0.5

Area Threshold : 0.2

Width Threshold [s] : 0.5

Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

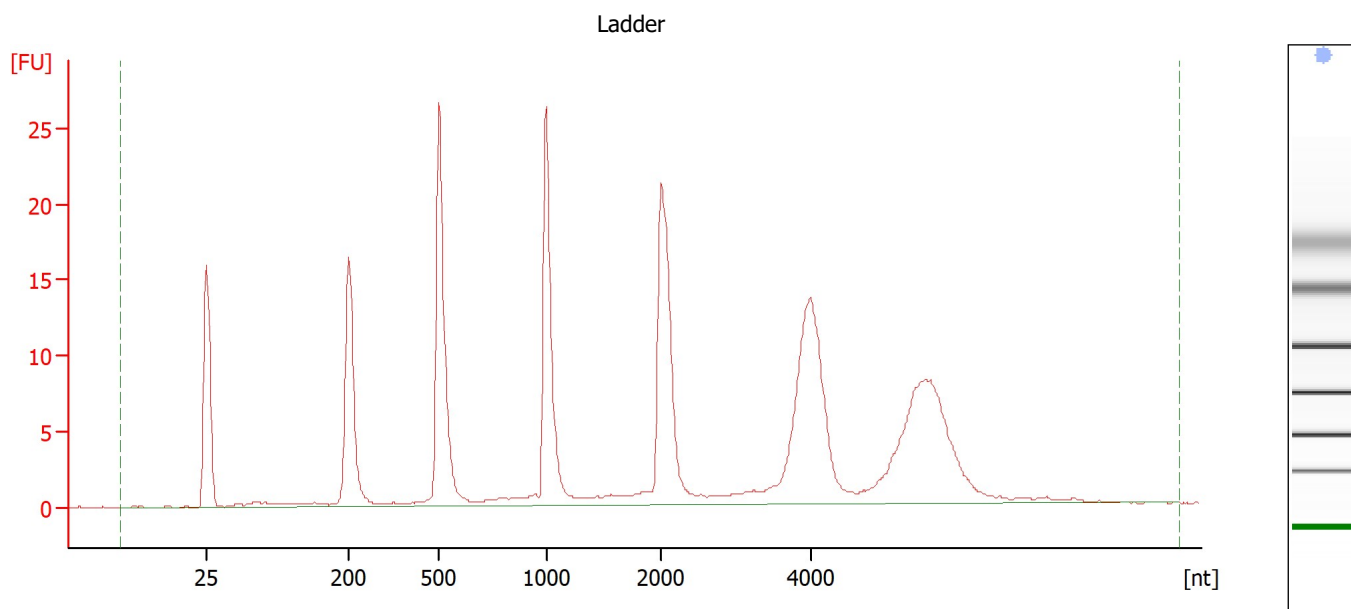
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
Modified: 12/2/2020 4:27:00 PM

### Electropherogram Summary



### Overall Results for Ladder

RNA Area: 224.9

Result Flagging Color:



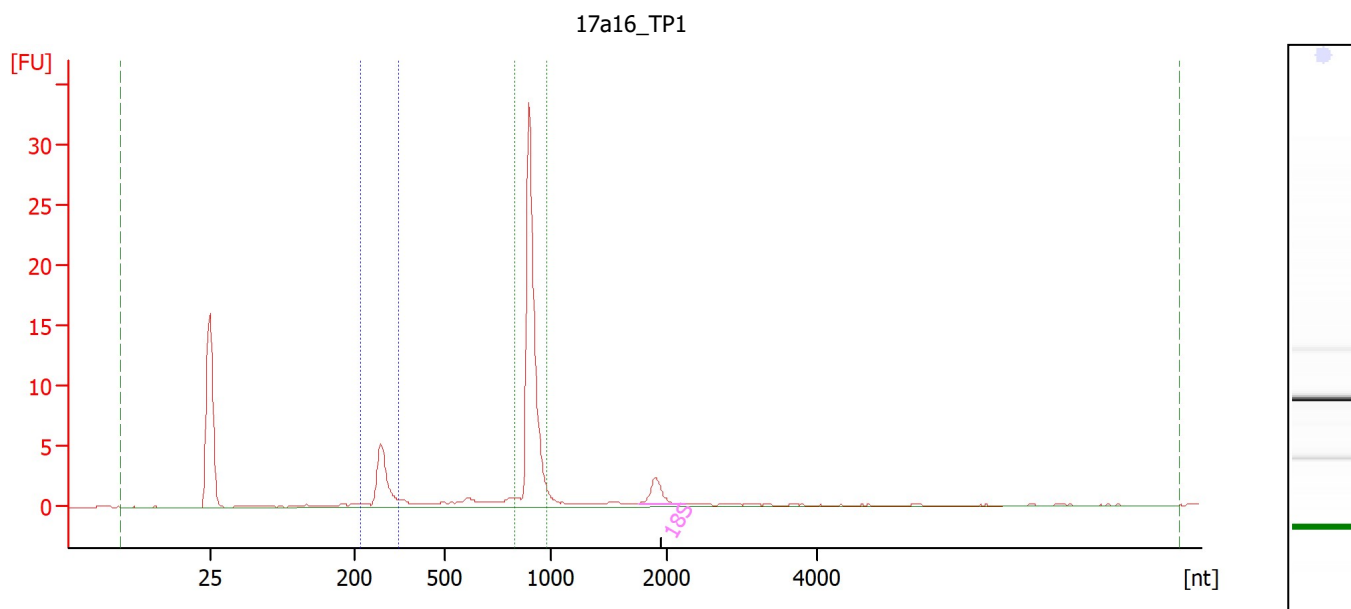
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 1 : 17a16\_TP1**

RNA Area:	67.7	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	45 ng/μl	Result Flagging Label:	RIN: 2.30
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.0
RNA Integrity Number (RIN):	2.3 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	38.8

**Fragment table for sample 1 : 17a16\_TP1**

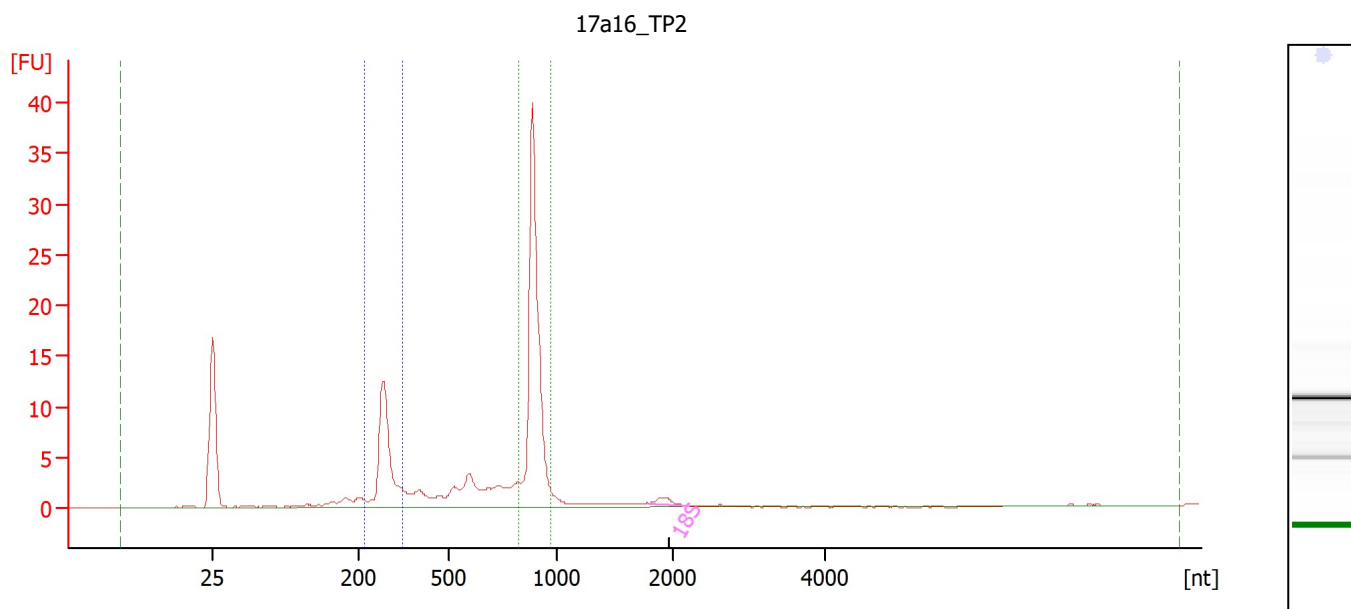
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,218	3.1	4.6

**Region table for sample 1 : 17a16\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.0	13	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	38.8	57	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : 17a16\_TP2**

RNA Area:	116.8	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	78 ng/μl	Result Flagging Label:	RIN: 1.50
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	22.7
RNA Integrity Number (RIN):	1.5 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	50.9

**Fragment table for sample 2 : 17a16\_TP2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,785	2,192	1.2	1.0

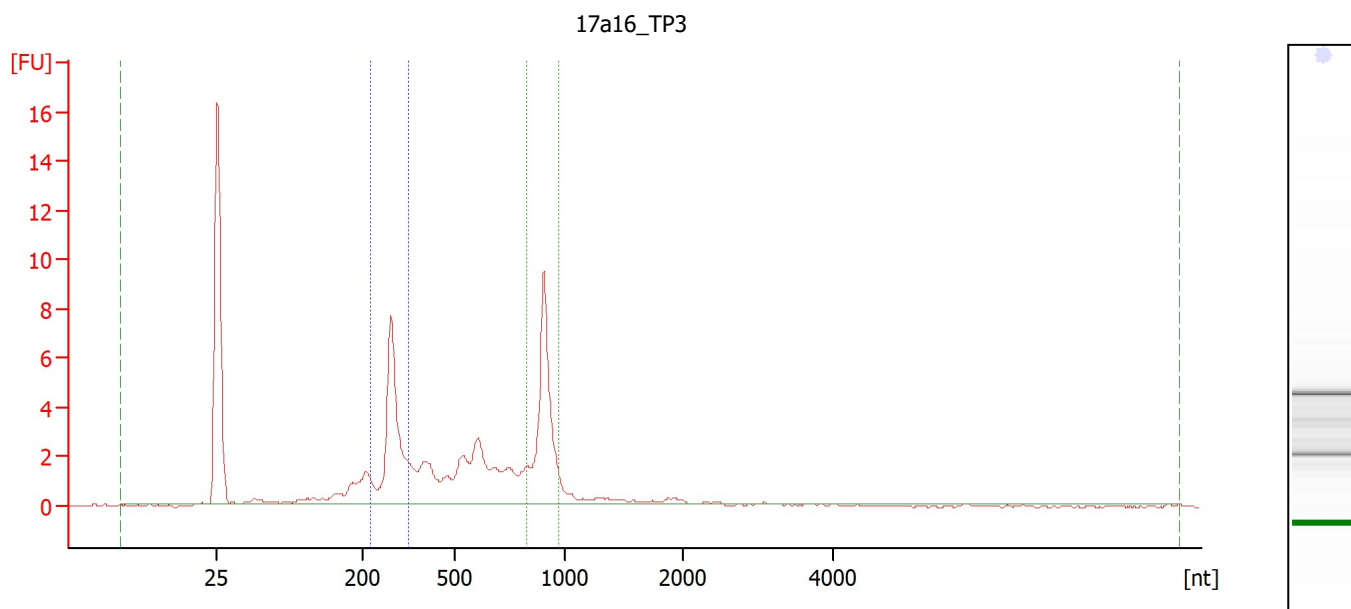
**Region table for sample 2 : 17a16\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	22.7	19	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	50.9	44	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : 17a16 TP3

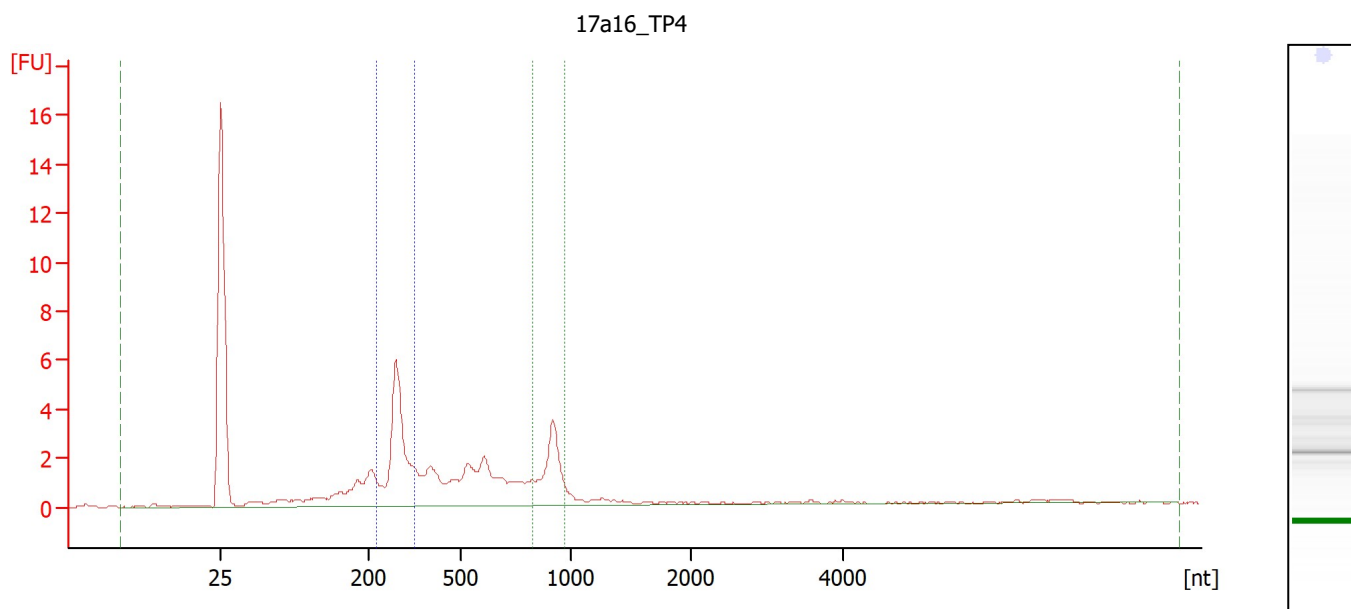
RNA Area:	64.6	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	43 ng/μl	Result Flagging Label:	RIN:2
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	15.5
RNA Integrity Number (RIN):	2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	14.9

### Region table for sample 3 : 17a16 TP3

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	15.5	24	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	14.9	23	<span style="background-color: #008000; display: inline-block; width: 20px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 4 : 17a16 TP4**

RNA Area:	53.7	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	36 ng/μl	Result Flagging Label:	RIN: 2.20
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	13.2
RNA Integrity Number (RIN):	2.2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	6.8

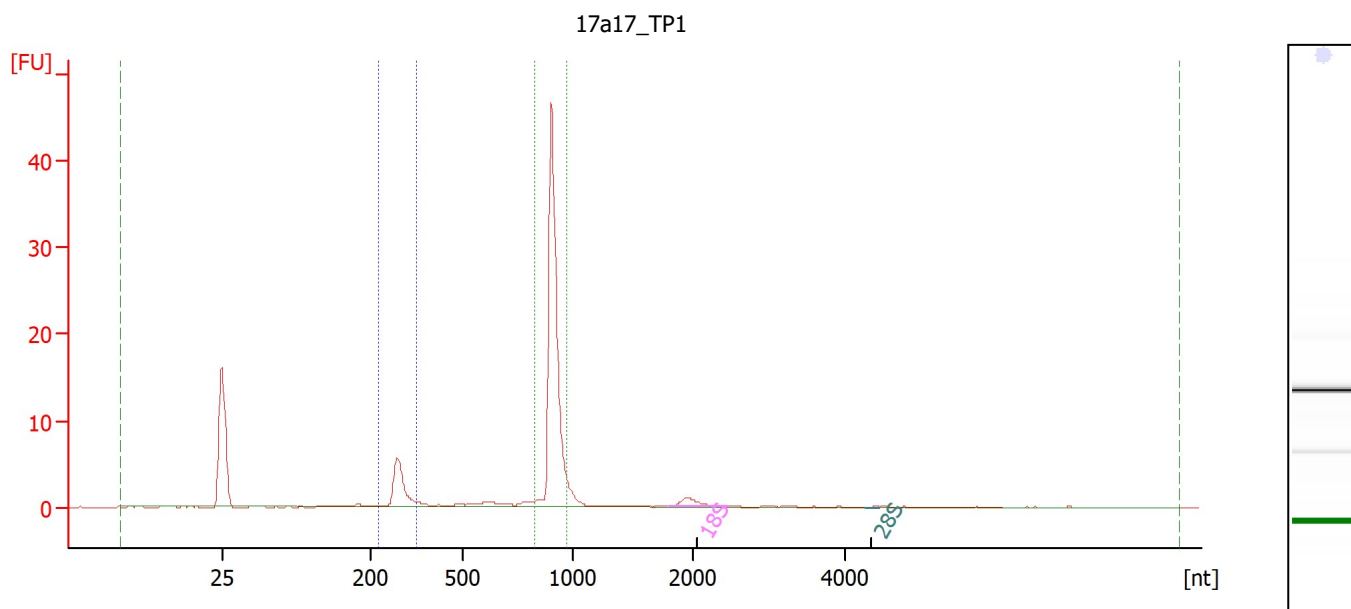
**Region table for sample 4 : 17a16 TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	13.2	25	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	6.8	13	<span style="background-color: #008000; display: inline-block; width: 20px; height: 10px;"></span>



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 17a17\_TP1**

RNA Area:	75.6	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	50 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.7
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	50.4

**Fragment table for sample 5 : 17a17\_TP1**

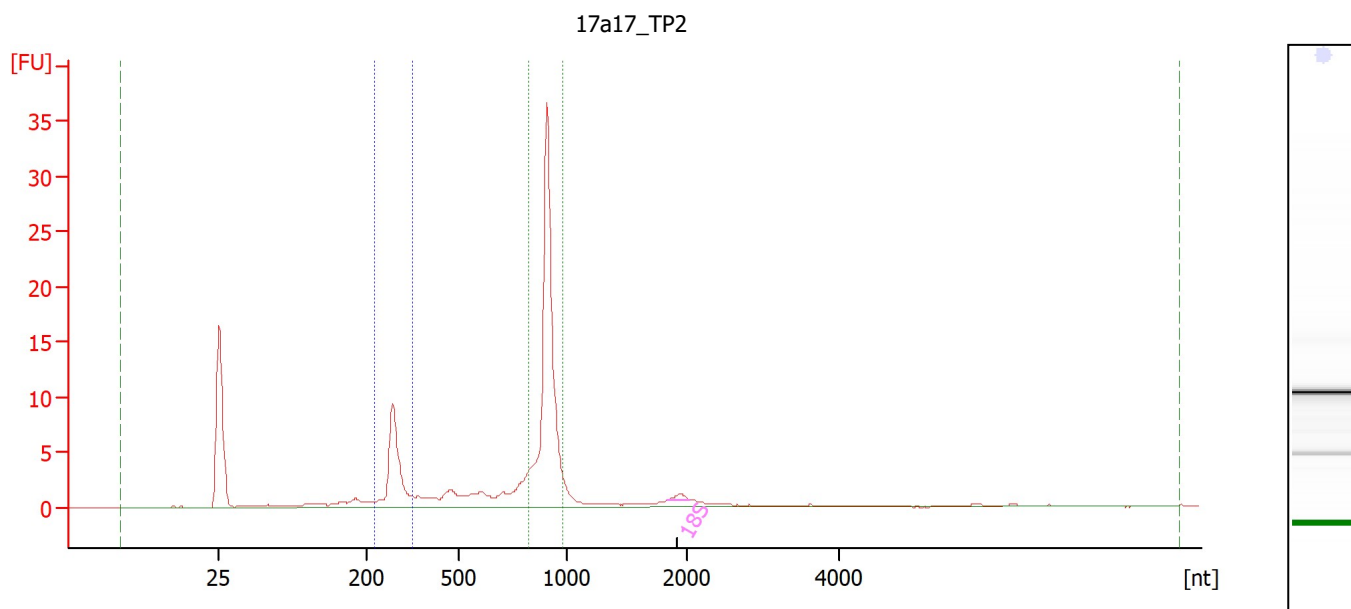
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,806	2,465	2.3	3.0
28S	4,264	4,445	0.1	0.1

**Region table for sample 5 : 17a17\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.7	13	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	50.4	67	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : 17a17\_TP2**

RNA Area:	103.2	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	69 ng/μl	Result Flagging Label:	RIN: 1.50
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	16.5
RNA Integrity Number (RIN):	1.5 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	49.2

**Fragment table for sample 6 : 17a17\_TP2**

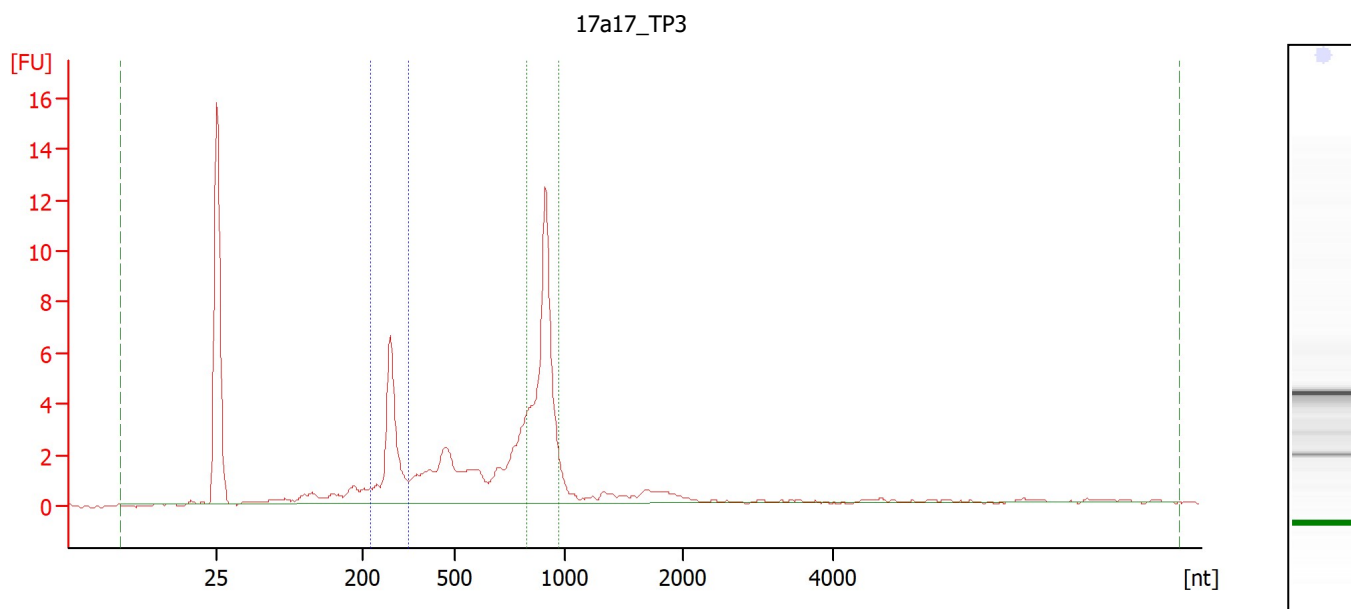
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,829	2,043	0.6	0.6

**Region table for sample 6 : 17a17\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	16.5	16	<span style="background-color: #0000ff; color: white;">r</span>
Region 2	825	975	49.2	48	<span style="background-color: #008000; color: white;">r</span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 7 : 17a17\_TP3**

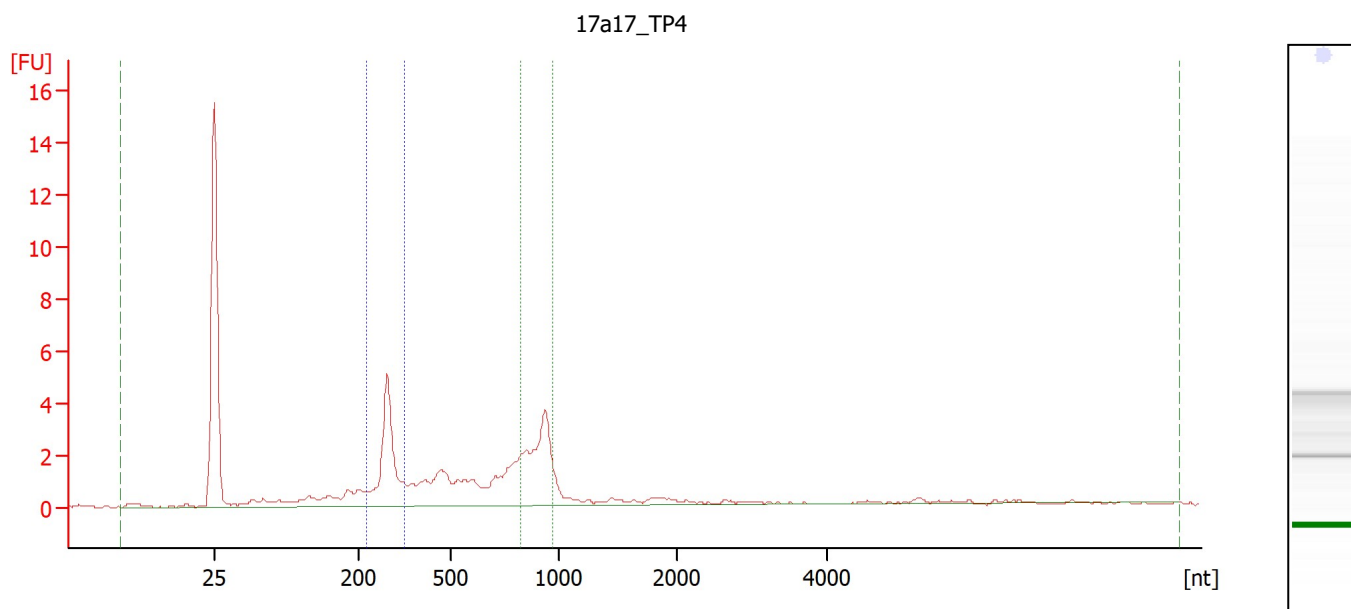
RNA Area:	73.5	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	49 ng/μl	Result Flagging Label:	RIN: 1.90
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	12.3
RNA Integrity Number (RIN):	1.9 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	23.3

**Region table for sample 7 : 17a17\_TP3**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	12.3	17	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	23.3	32	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : 17a17 TP4**

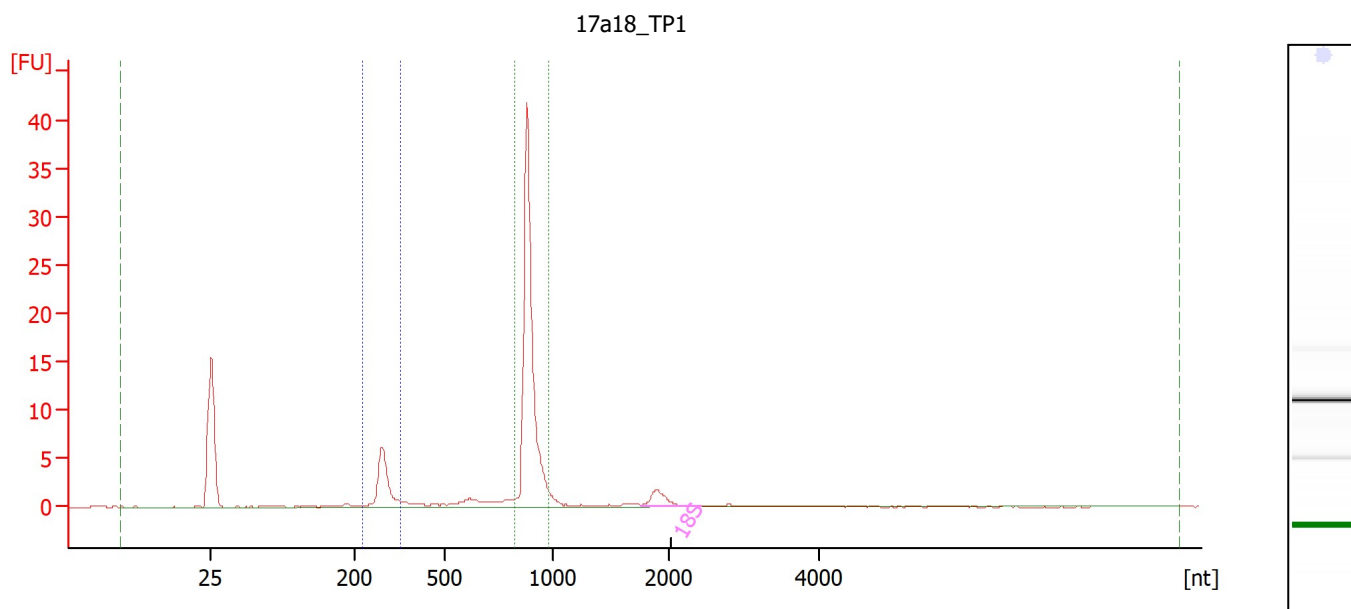
RNA Area:	45.8	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	31 ng/μl	Result Flagging Label:	RIN: 2.20
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.9
RNA Integrity Number (RIN):	2.2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	9.6

**Region table for sample 8 : 17a17 TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.9	22	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	9.6	21	<span style="background-color: #008000; display: inline-block; width: 20px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : 17a18\_TP1**

RNA Area:	73.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	49 ng/μl	Result Flagging Label:	RIN: 1.90
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.9
RNA Integrity Number (RIN):	1.9 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	49.3

**Fragment table for sample 9 : 17a18\_TP1**

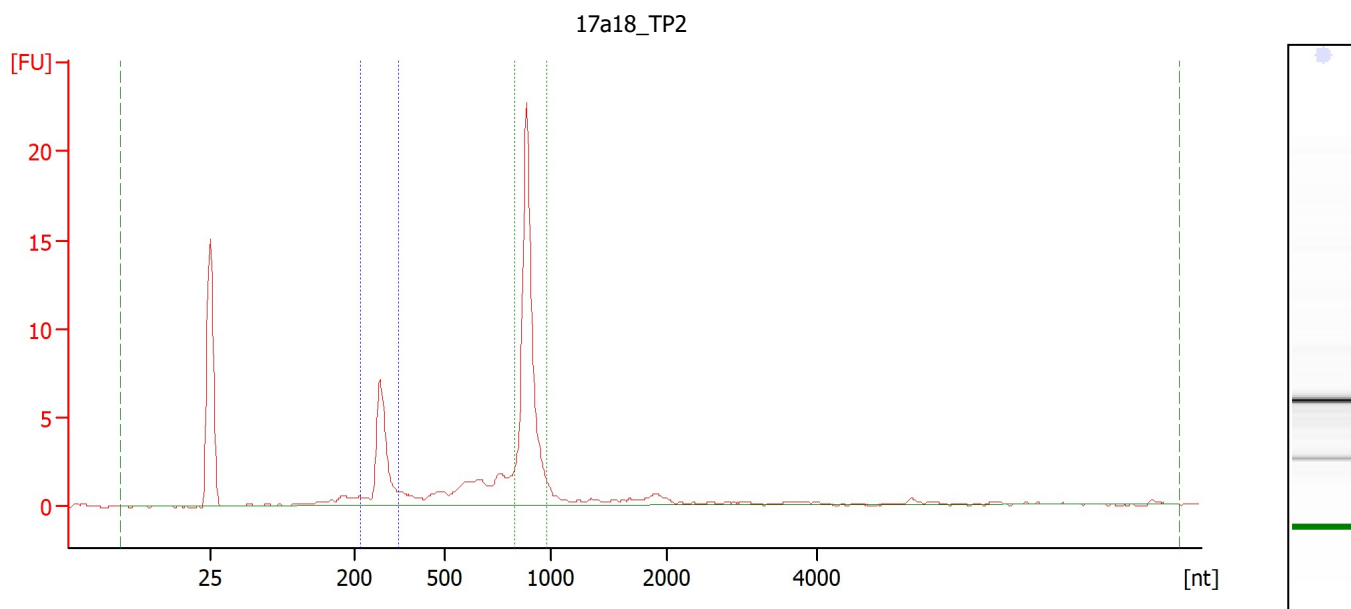
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,755	2,419	2.8	3.9

**Region table for sample 9 : 17a18\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.9	14	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	49.3	67	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 10 : 17a18\_TP2**

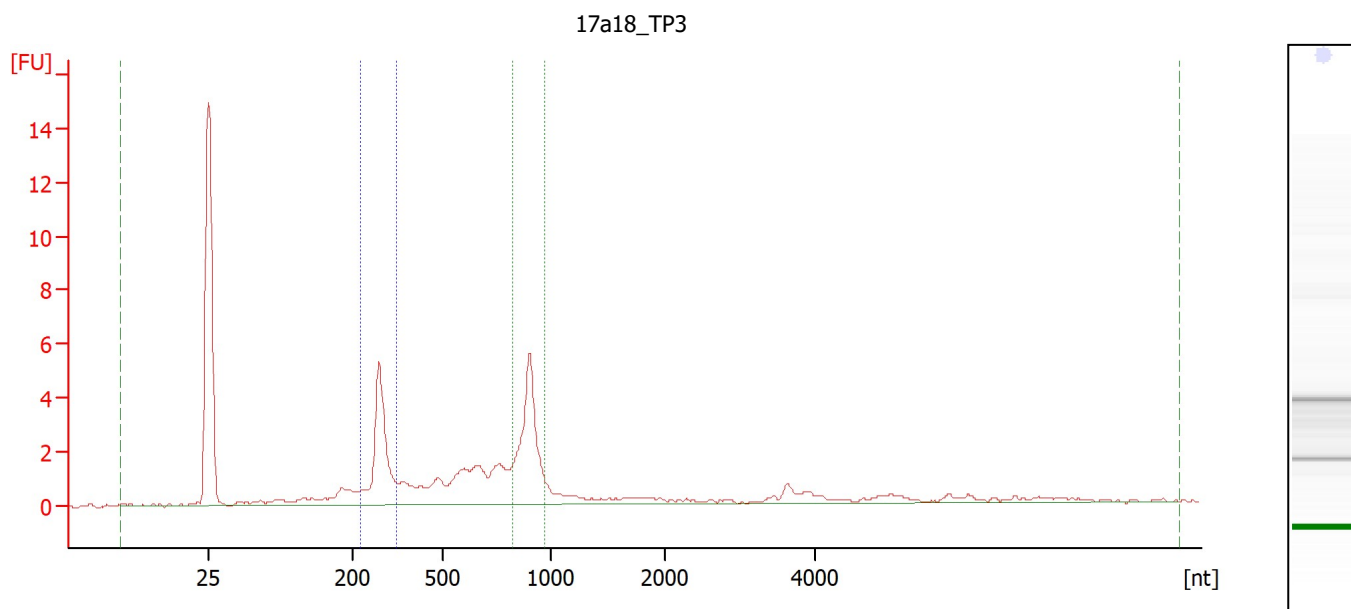
RNA Area:	72.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	48 ng/μl	Result Flagging Label:	RIN: 1.50
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	12.5
RNA Integrity Number (RIN):	1.5 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	32.0

**Region table for sample 10 : 17a18\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	12.5	17	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	32.0	44	<span style="background-color: #008000; display: inline-block; width: 20px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 11 : 17a18\_TP3**

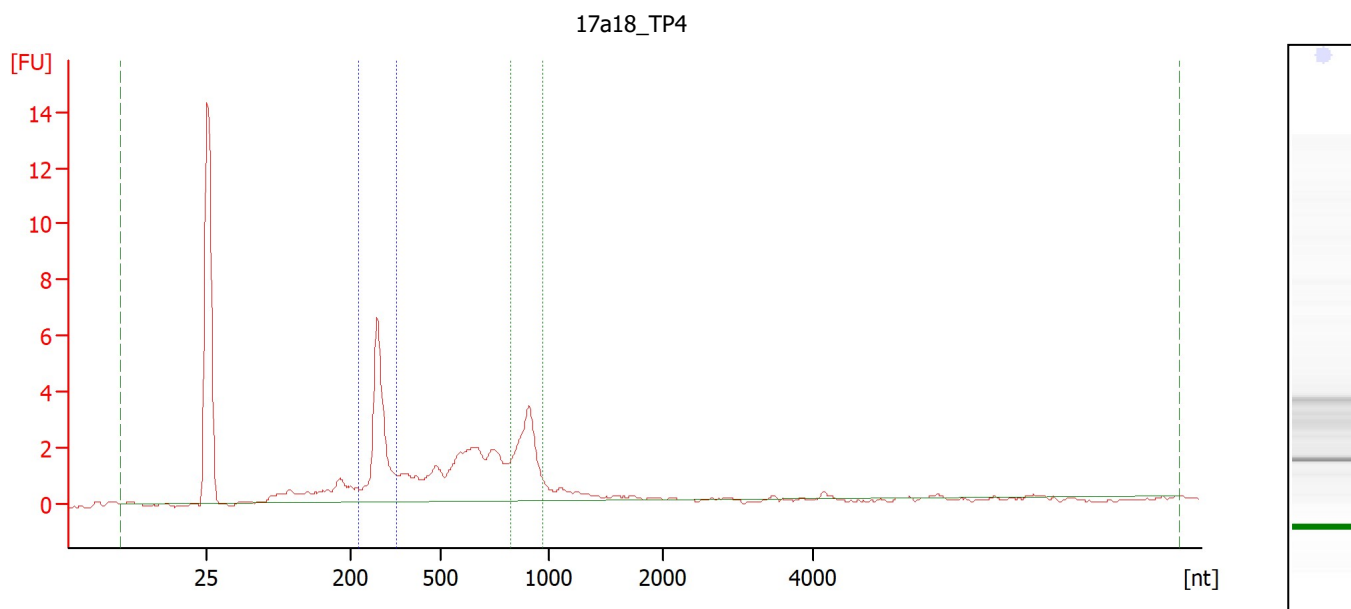
RNA Area:	49.6	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	33 ng/μl	Result Flagging Label:	RIN: 2.20
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	10.2
RNA Integrity Number (RIN):	2.2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	11.1

**Region table for sample 11 : 17a18\_TP3**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	10.2	20	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	11.1	22	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
 Modified: 12/2/2020 4:27:00 PM

**Electropherogram Summary Continued ...****Overall Results for sample 12 : 17a18\_TP4**

RNA Area:	52.2	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	35 ng/μl	Result Flagging Label:	RIN: 2.20
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	12.4
RNA Integrity Number (RIN):	2.2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	8.5

**Region table for sample 12 : 17a18\_TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	12.4	24	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	8.5	16	<span style="background-color: #008000; display: inline-block; width: 15px; height: 10px;"></span>



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_15-54-46.xad

Created: 12/2/2020 3:54:46 PM  
Modified: 12/2/2020 4:27:00 PM

**Gel Image**