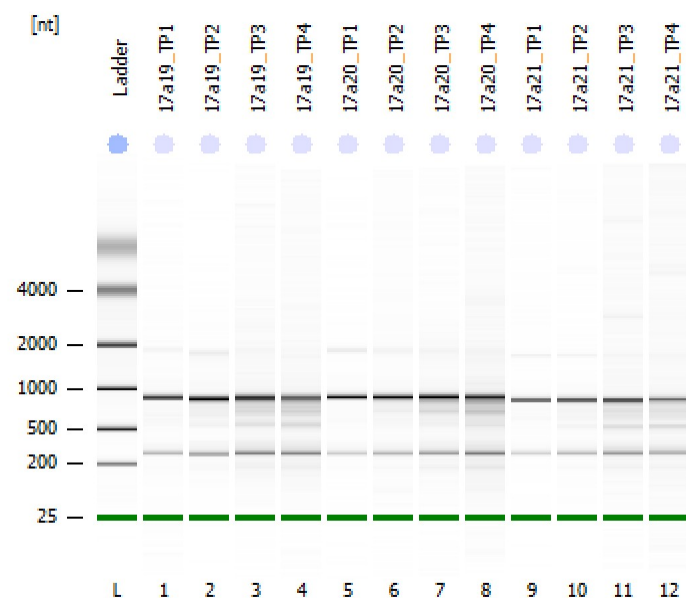


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
Modified: 12/2/2020 5:06:42 PM

**Electrophoresis File Run Summary****Instrument Information:**

Instrument Name: DE72901420  
Serial#: DE72901420

Firmware: C.01.069  
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)

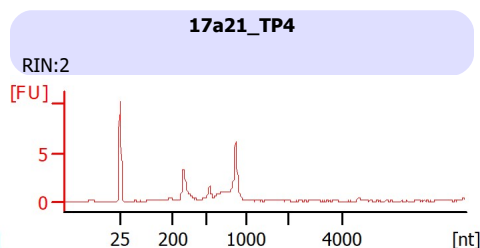
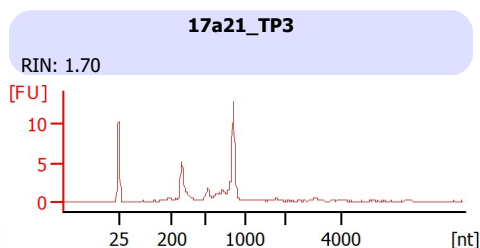
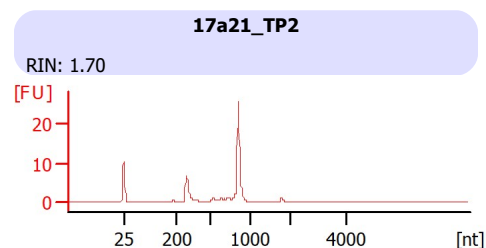
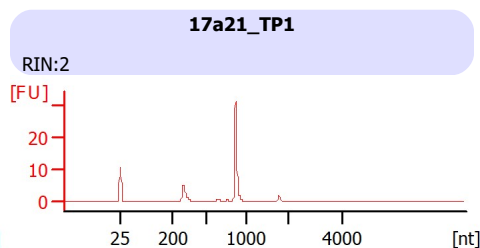
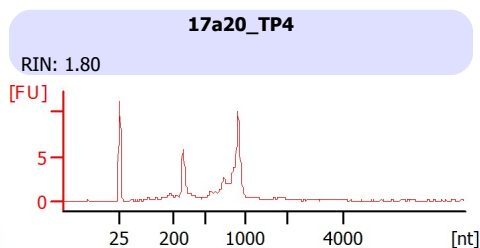
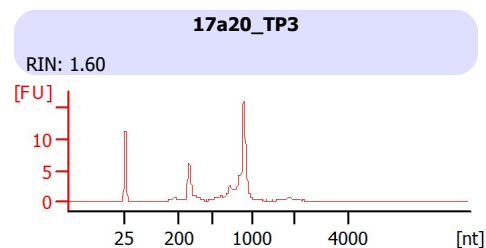
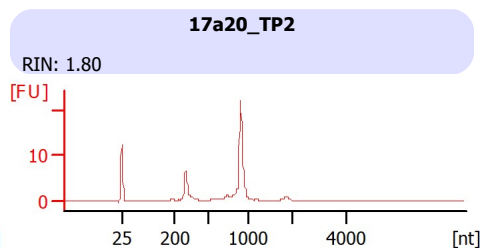
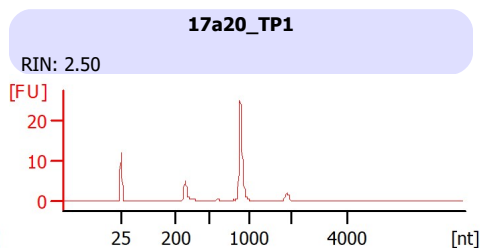
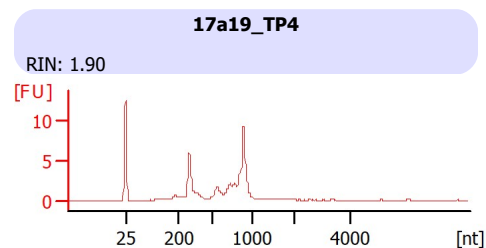
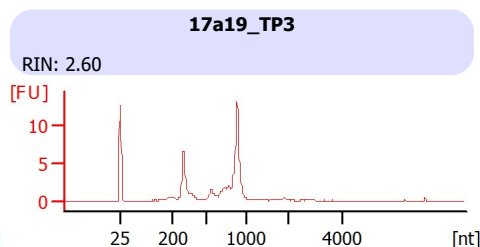
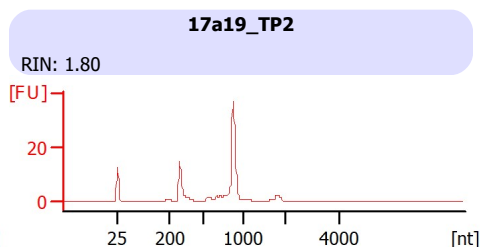
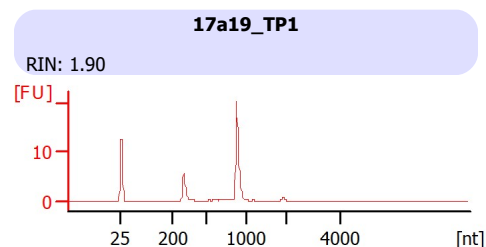
© Copyright 2003 - 2009 Agilent Technologies, Inc.

**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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
Modified: 12/2/2020 5:06:42 PM

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

Sample Name	Sample Comment	Stat Result Label	Result Color
17a19_TP1		✓ RIN: 1.90	
17a19_TP2		✓ RIN: 1.80	
17a19_TP3		✓ RIN: 2.60	
17a19_TP4		✓ RIN: 1.90	
17a20_TP1		✓ RIN: 2.50	
17a20_TP2		✓ RIN: 1.80	
17a20_TP3		✓ RIN: 1.60	
17a20_TP4		✓ RIN: 1.80	
17a21_TP1		✓ RIN:2	
17a21_TP2		✓ RIN: 1.70	
17a21_TP3		✓ RIN: 1.70	
17a21_TP4		✓ RIN:2	
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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
Modified: 12/2/2020 5:06:42 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

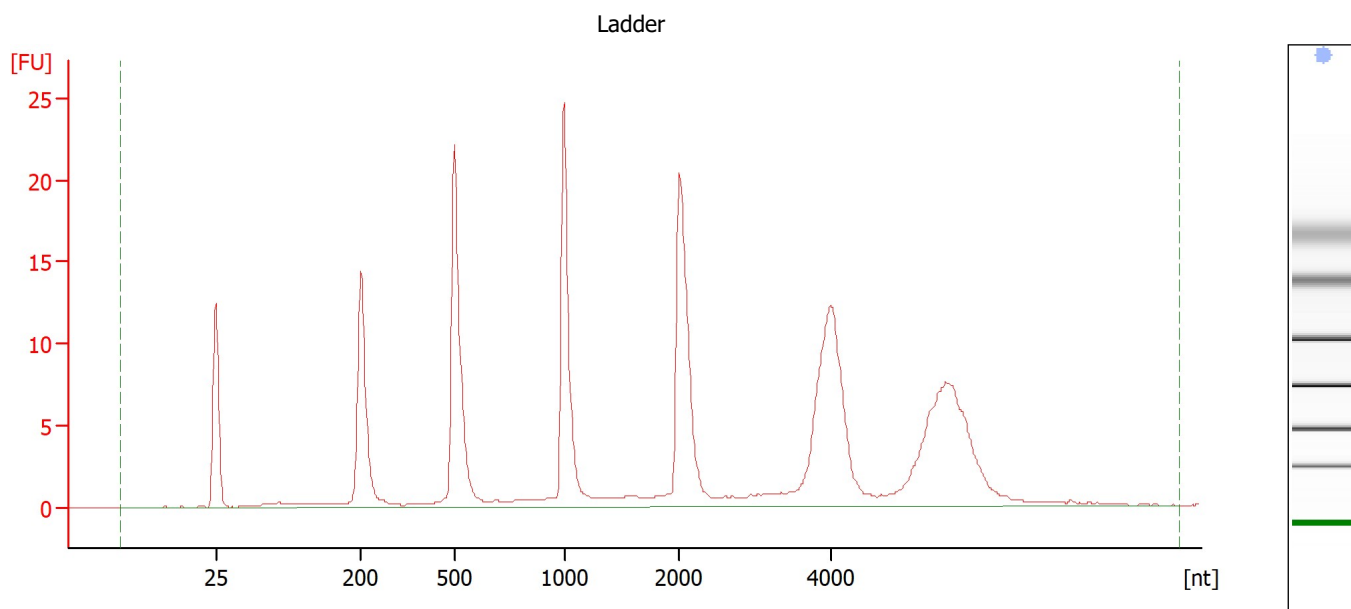
### Ladder

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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
Modified: 12/2/2020 5:06:42 PM

### Electropherogram Summary



### Overall Results for Ladder

RNA Area: 196.3

Result Flagging Color:



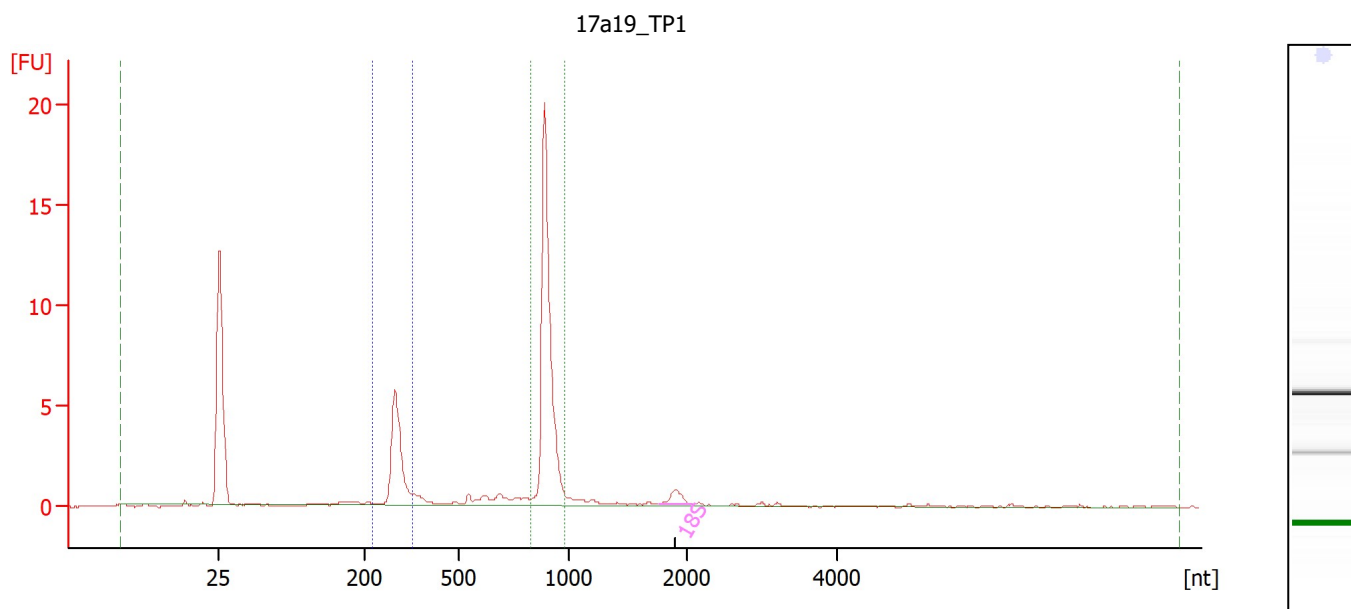
RNA Concentration: 150 ng/μl

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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 1 : 17a19\_TP1**

RNA Area:	43.1	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: 1.90
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.1
RNA Integrity Number (RIN):	1.9 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	23.8

**Fragment table for sample 1 : 17a19\_TP1**

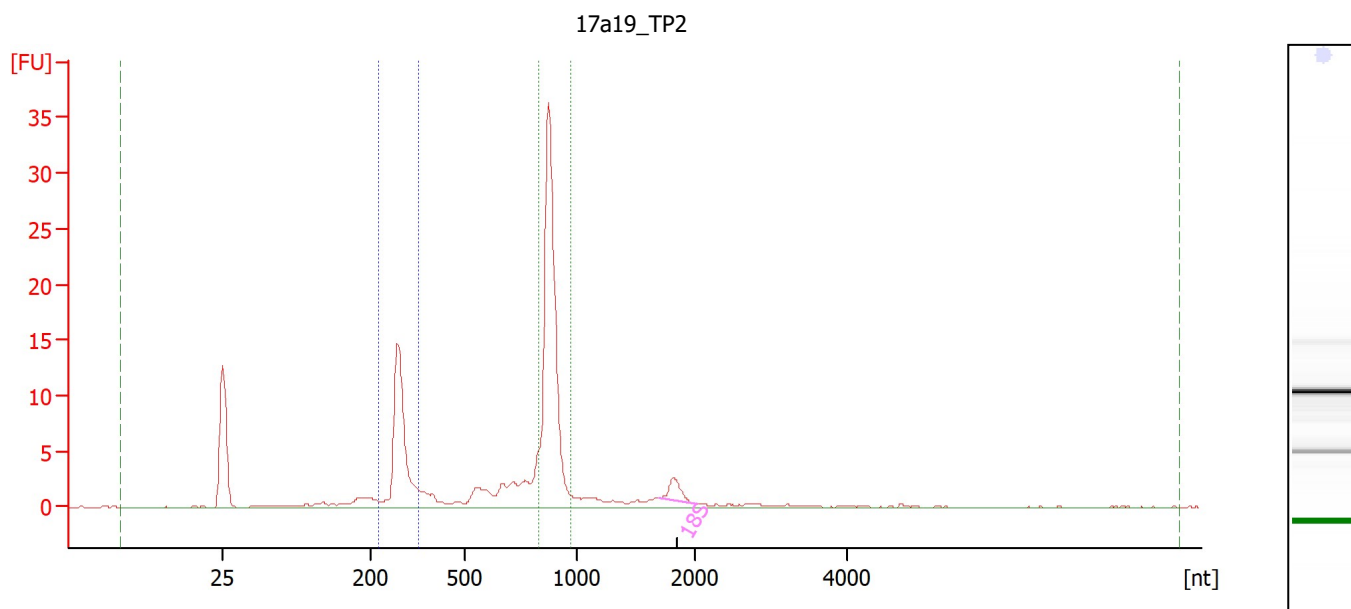
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,060	1.0	2.2

**Region table for sample 1 : 17a19\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.1	21	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	23.8	55	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : 17a19\_TP2**

RNA Area:	121.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	93 ng/μl	Result Flagging Label:	RIN: 1.80
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	25.7
RNA Integrity Number (RIN):	1.8 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	54.6

**Fragment table for sample 2 : 17a19\_TP2**

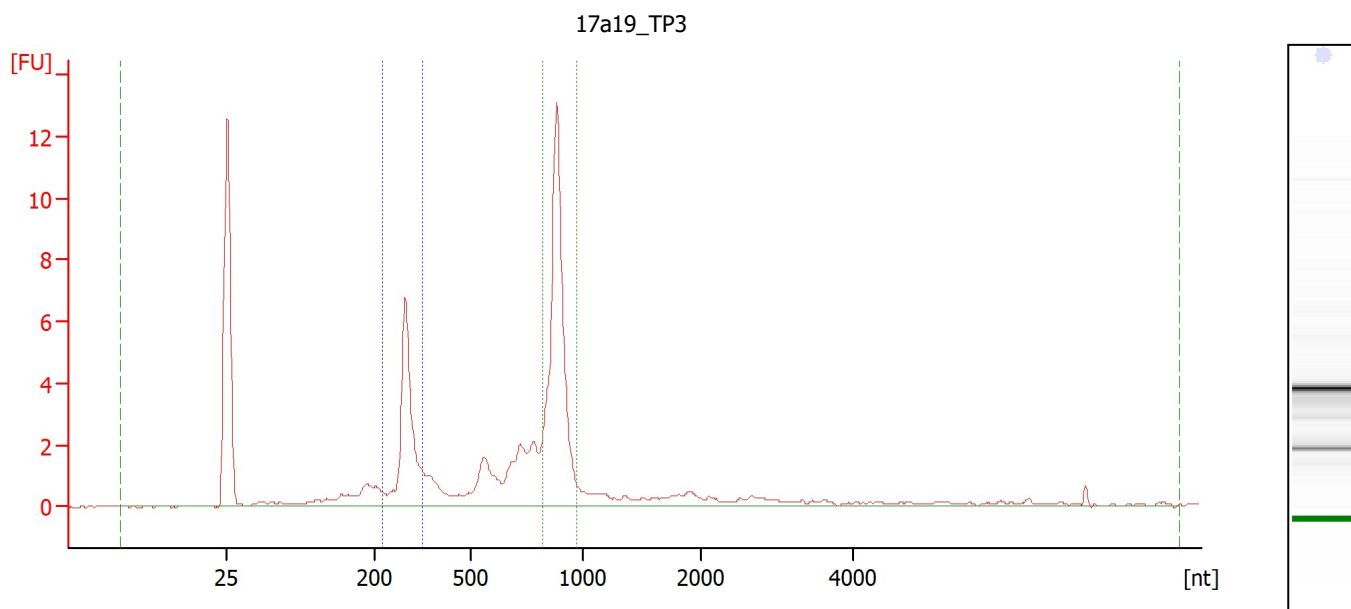
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,037	2.8	2.3

**Region table for sample 2 : 17a19\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	25.7	21	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	54.6	45	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : 17a19\_TP3**

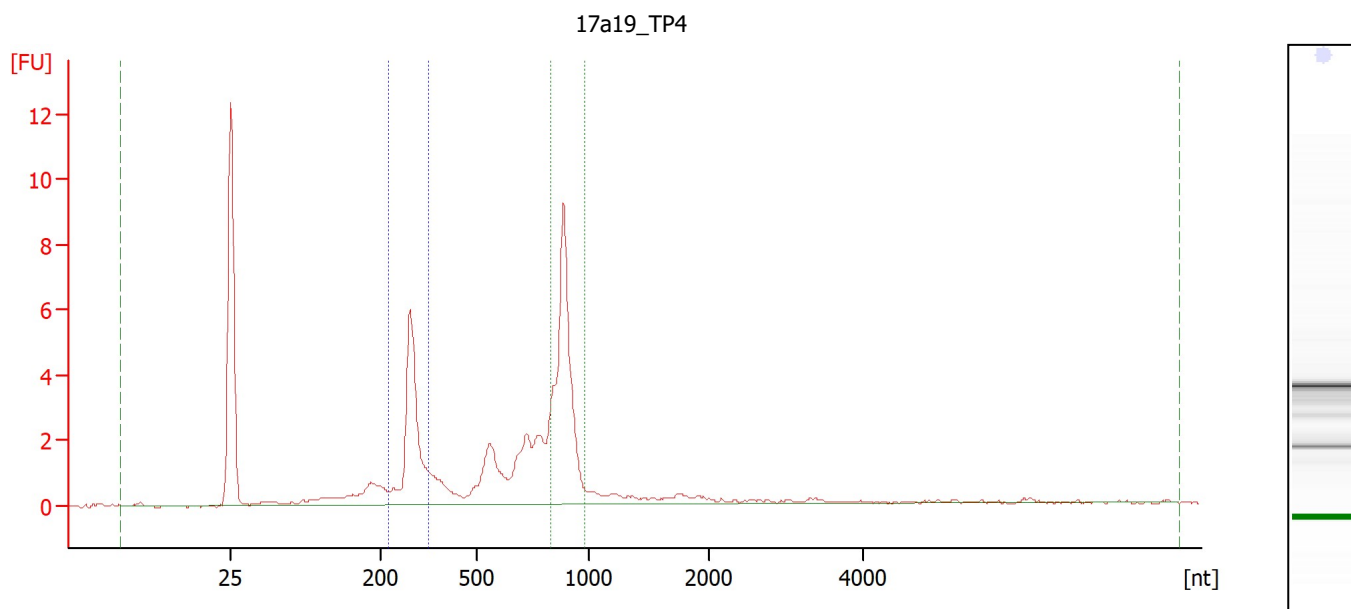
RNA Area:	63.1	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	48 ng/μl	Result Flagging Label:	RIN: 2.60
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	12.1
RNA Integrity Number (RIN):	2.6 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	21.6

**Region table for sample 3 : 17a19\_TP3**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	12.1	19	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	21.6	34	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 4 : 17a19 TP4**

RNA Area:	53.8	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	41 ng/μl	Result Flagging Label:	RIN: 1.90
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	11.0
RNA Integrity Number (RIN):	1.9 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	16.7

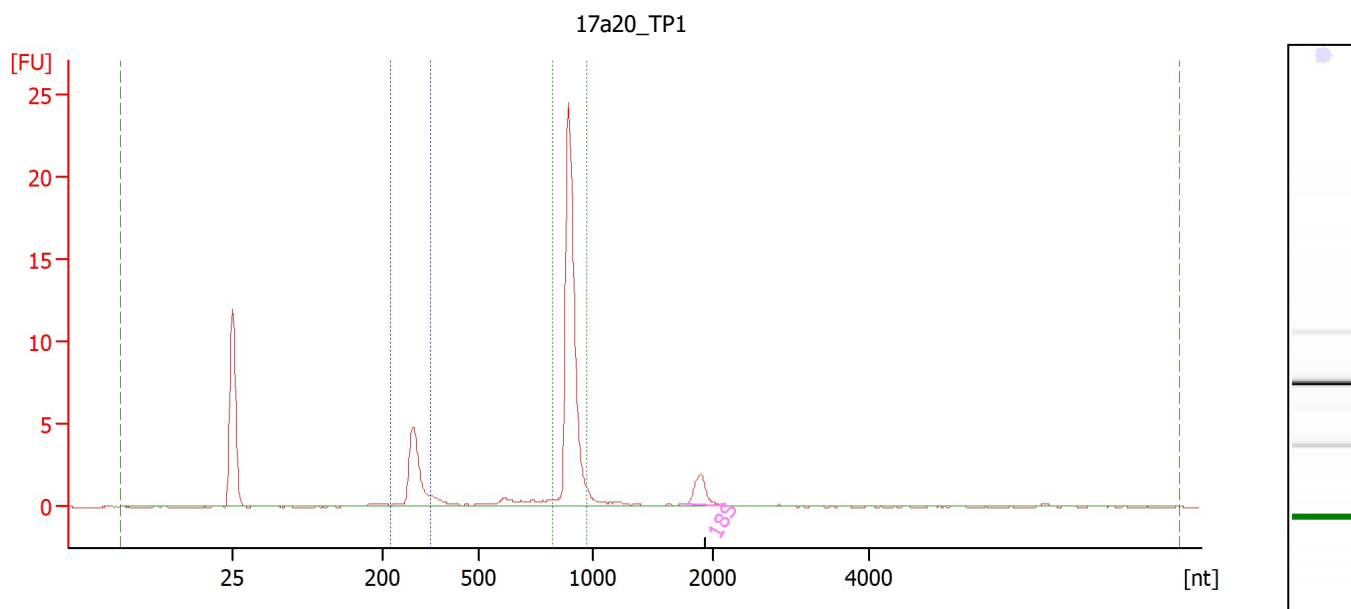
**Region table for sample 4 : 17a19 TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	11.0	20	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	16.7	31	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 17a20\_TP1**

RNA Area:	48.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	37 ng/μl	Result Flagging Label:	RIN: 2.50
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	8.3
RNA Integrity Number (RIN):	2.5 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	28.6

**Fragment table for sample 5 : 17a20\_TP1**

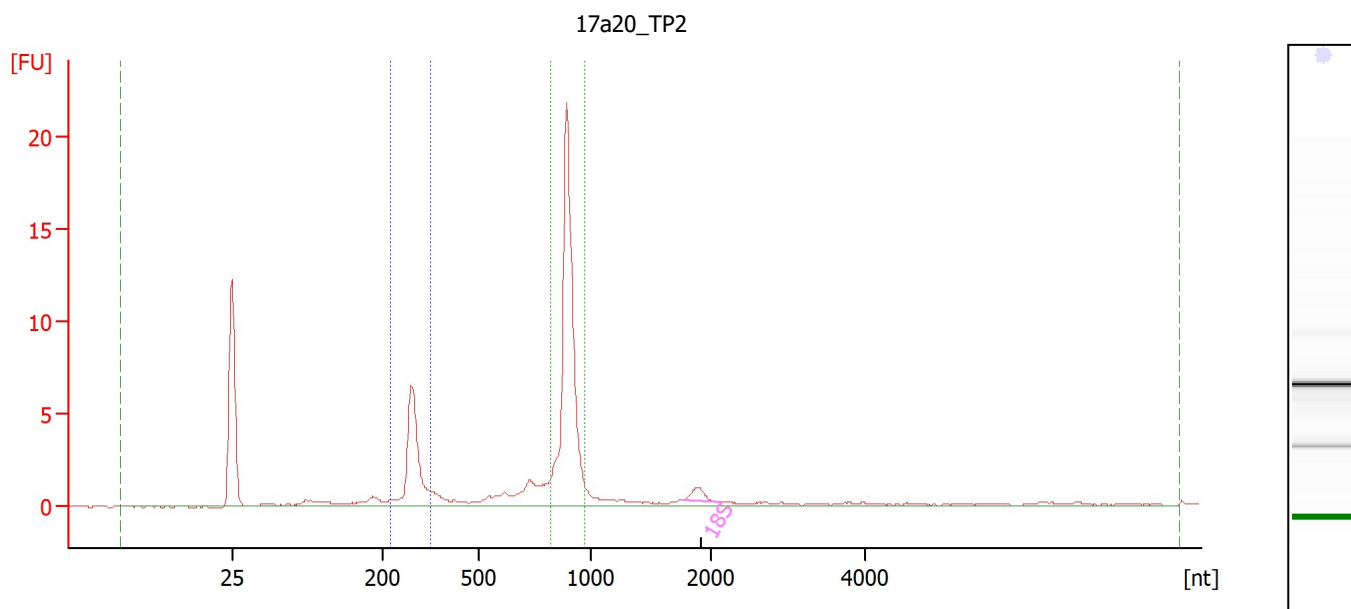
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,762	2,199	2.6	5.4

**Region table for sample 5 : 17a20\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	8.3	17	<span style="background-color: #0000ff; color: white;">r</span>
Region 2	825	975	28.6	59	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : 17a20\_TP2**

RNA Area:	62.0	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	47 ng/μl	Result Flagging Label:	RIN: 1.80
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	11.2
RNA Integrity Number (RIN):	1.8 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	29.5

**Fragment table for sample 6 : 17a20\_TP2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,770	2,129	1.1	1.8

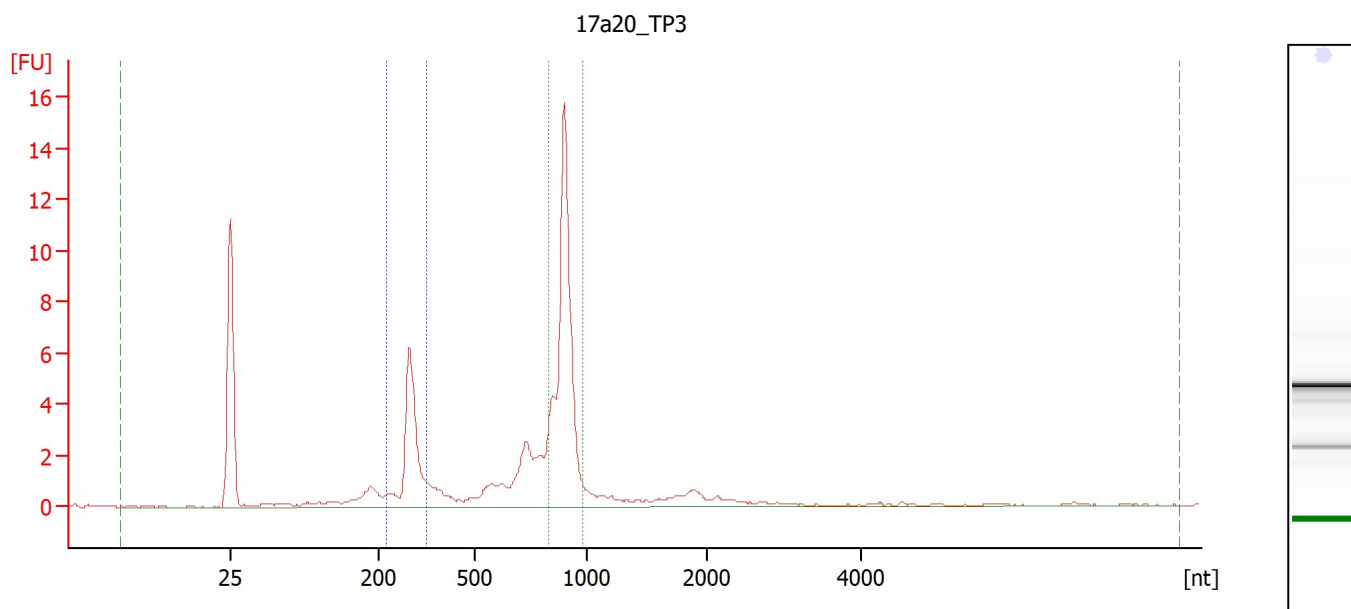
**Region table for sample 6 : 17a20\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	11.2	18	<span style="background-color: #0000ff; color: white; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	29.5	48	<span style="background-color: #008000; color: white; 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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : 17a20\_TP3

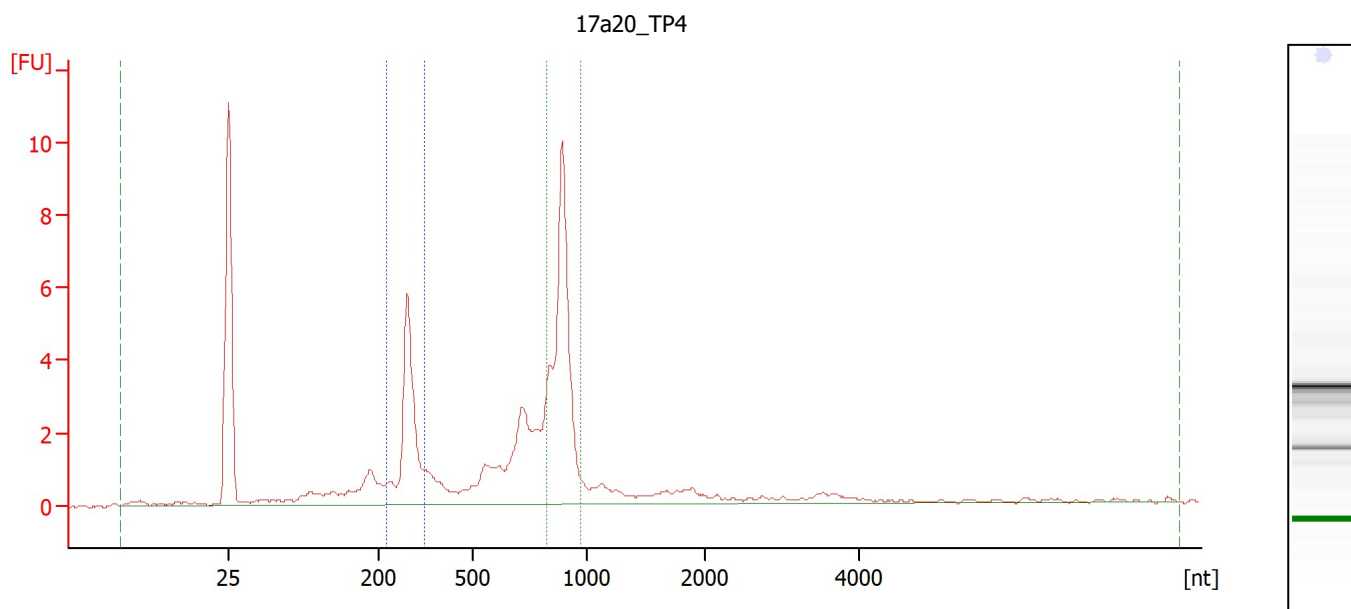
RNA Area:	64.1	Result Flagging Color:	<div style="background-color: #d1c4e9; width: 30px; height: 15px; display: inline-block;"></div>
RNA Concentration:	49 ng/μl	Result Flagging Label:	RIN: 1.60
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	11.3
RNA Integrity Number (RIN):	1.6 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	25.9

### Region table for sample 7 : 17a20\_TP3

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	11.3	18	<div style="background-color: #0000ff; width: 20px; height: 15px; display: inline-block;"></div>
Region 2	825	975	25.9	40	<div style="background-color: #008000; width: 20px; height: 15px; display: inline-block;"></div>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-02\Eukaryote Total RNA Nano\_2020-12-02\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : 17a20 TP4**

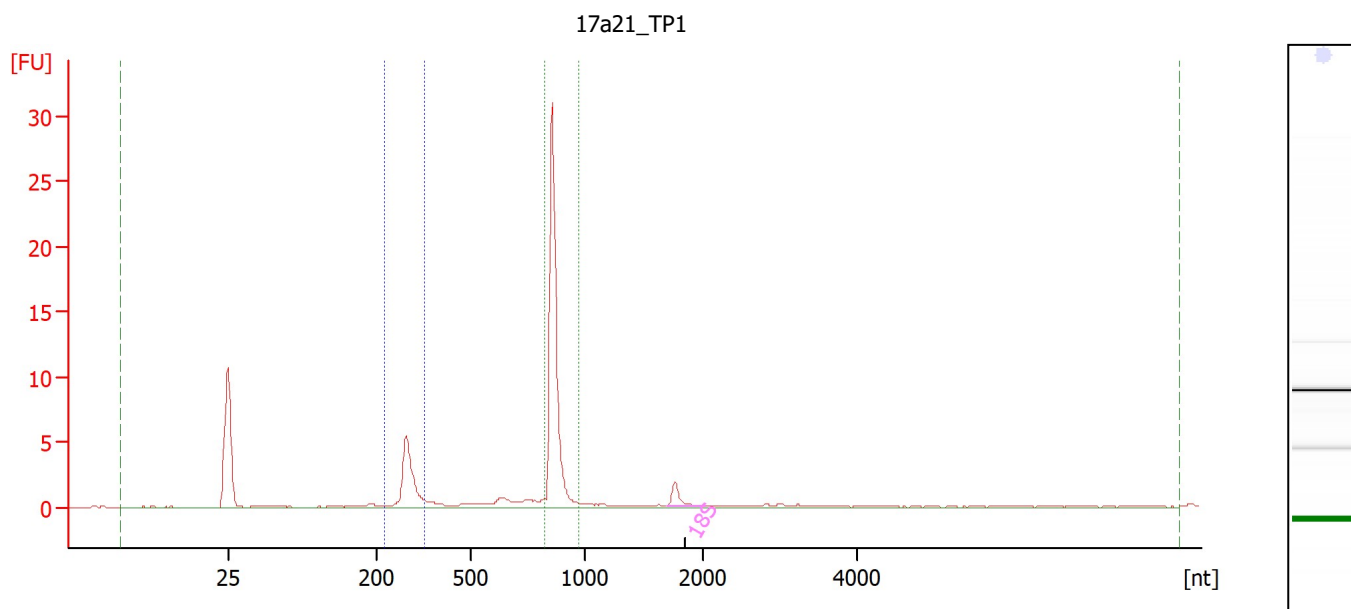
RNA Area:	62.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	48 ng/μl	Result Flagging Label:	RIN: 1.80
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	11.0
RNA Integrity Number (RIN):	1.8 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	18.8

**Region table for sample 8 : 17a20 TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	11.0	18	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	18.8	30	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : 17a21\_TP1**

RNA Area:	51.6	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	39 ng/μl	Result Flagging Label:	RIN:2
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.2
RNA Integrity Number (RIN):	2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	27.3

**Fragment table for sample 9 : 17a21\_TP1**

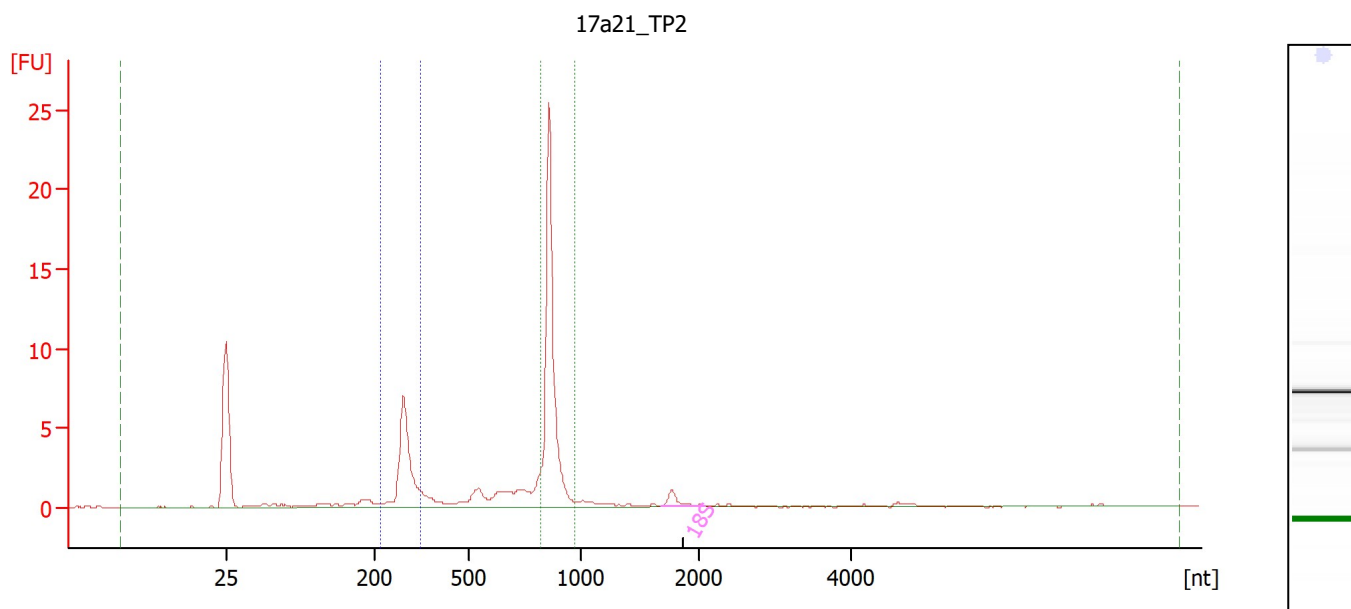
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,692	2,028	1.7	3.2

**Region table for sample 9 : 17a21\_TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.2	18	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	27.3	53	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 10 : 17a21\_TP2**

RNA Area:	57.3	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	44 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	12.0
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	26.3

**Fragment table for sample 10 : 17a21\_TP2**

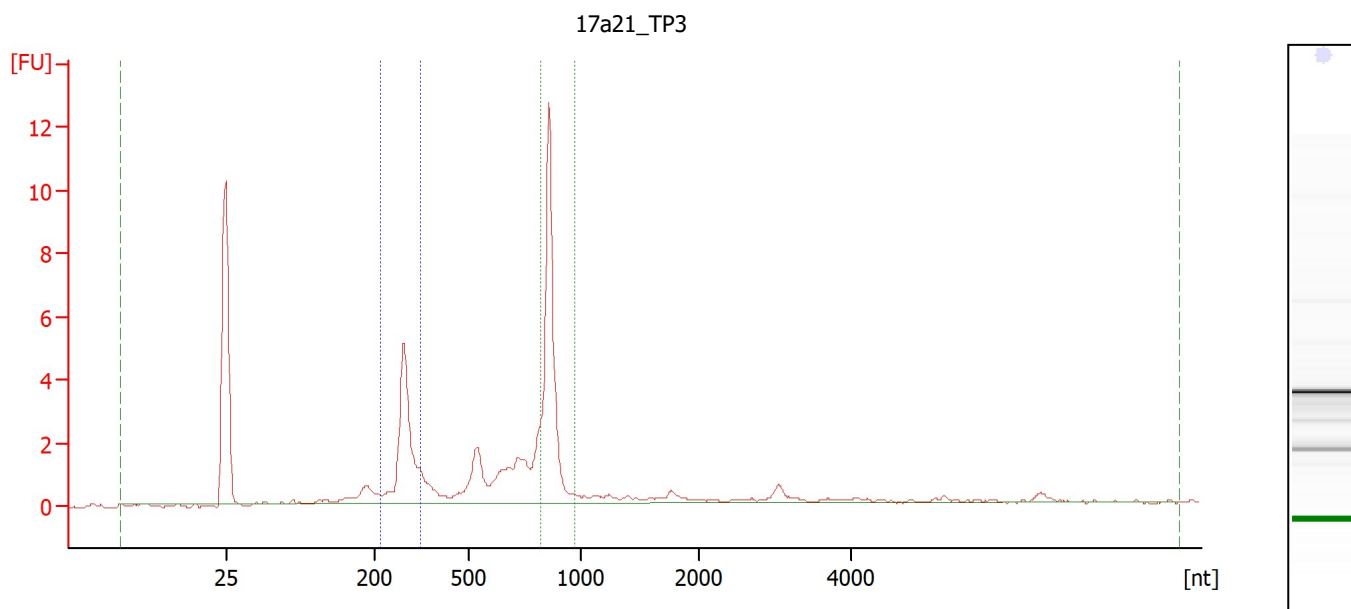
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	2,081	1.2	2.1

**Region table for sample 10 : 17a21\_TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	12.0	21	<span style="background-color: #0000ff; color: white; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	26.3	46	<span style="background-color: #008000; color: white; 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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 11 : 17a21\_TP3**

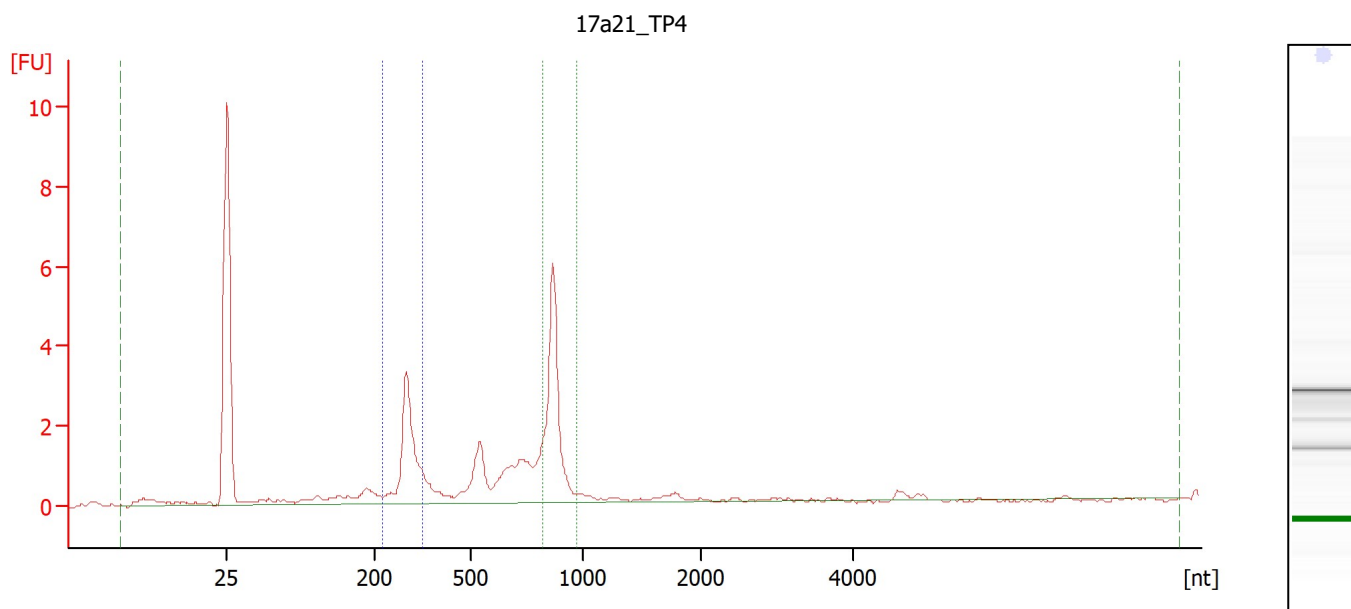
RNA Area:	45.9	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	35 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.5
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	14.7

**Region table for sample 11 : 17a21\_TP3**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	9.5	21	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 10px;"></span>
Region 2	825	975	14.7	32	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
 Modified: 12/2/2020 5:06:42 PM

**Electropherogram Summary Continued ...****Overall Results for sample 12 : 17a21\_TP4**

RNA Area:	31.4	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	24 ng/μl	Result Flagging Label:	RIN:2
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	6.4
RNA Integrity Number (RIN):	2 (B.02.11, Anomaly Threshold(s) manually adapted)	Corr. Area 2:	8.4

**Region table for sample 12 : 17a21\_TP4**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	225	350	6.4	20	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>
Region 2	825	975	8.4	27	<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\_16-14-33.xad

Created: 12/2/2020 4:14:32 PM  
Modified: 12/2/2020 5:06:42 PM

**Gel Image**