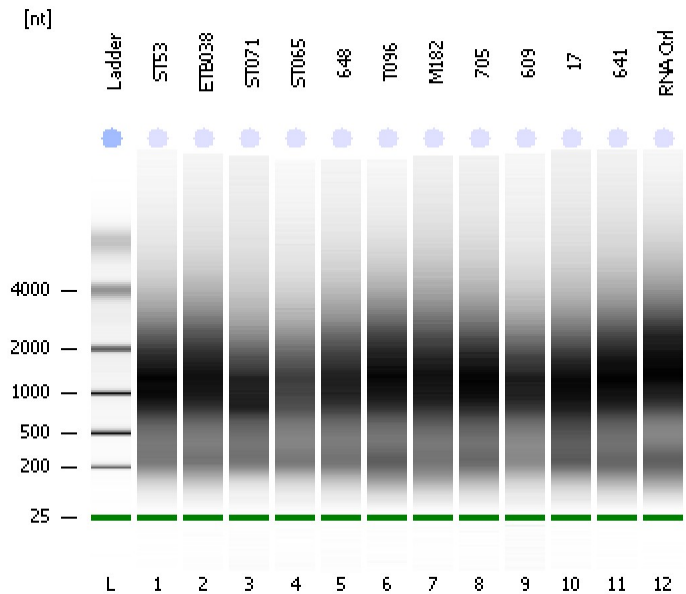


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electrophoresis File Run Summary**



Instrument Information:

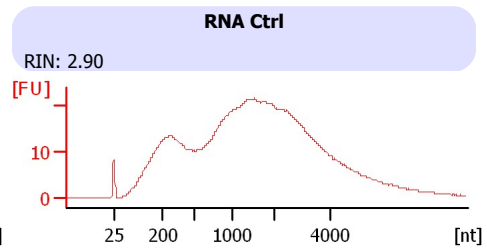
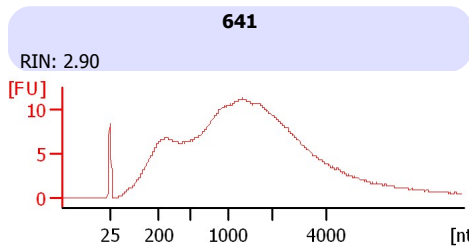
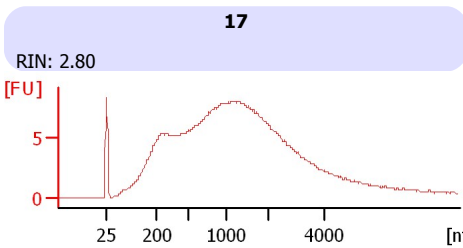
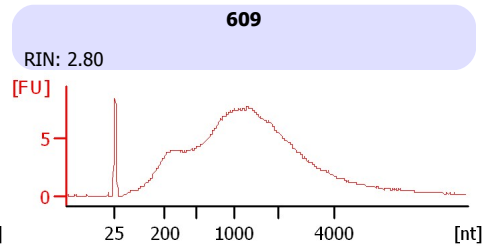
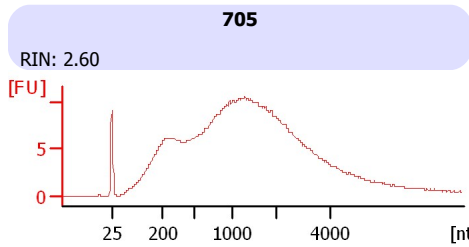
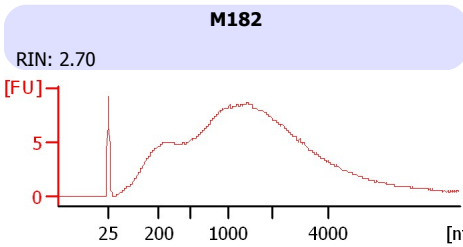
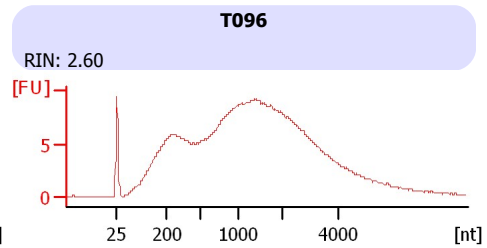
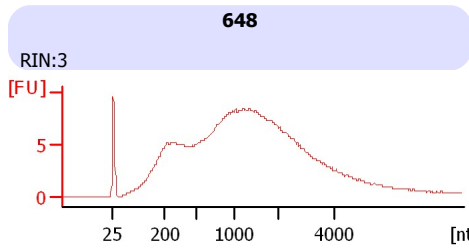
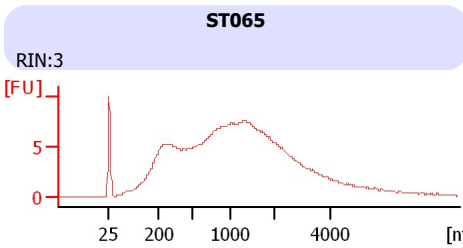
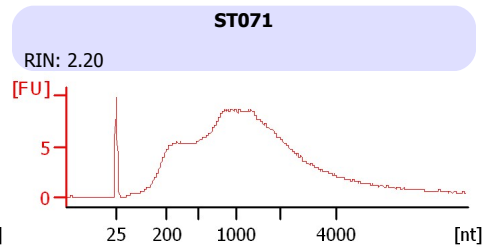
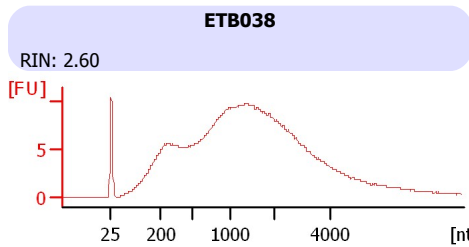
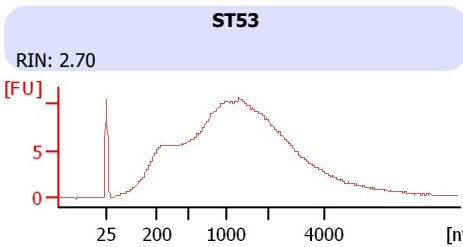
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
 Modified: 3/3/2016 12:09:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
ST53		✓	RIN: 2.70	
ETB038		✓	RIN: 2.60	
ST071		✓	RIN: 2.20	
ST065		✓	RIN:3	
648		✓	RIN:3	
T096		✓	RIN: 2.60	
M182		✓	RIN: 2.70	
705		✓	RIN: 2.60	
609		✓	RIN: 2.80	
17		✓	RIN: 2.80	
641		✓	RIN: 2.90	
RNA Ctrl		✓	RIN: 2.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 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

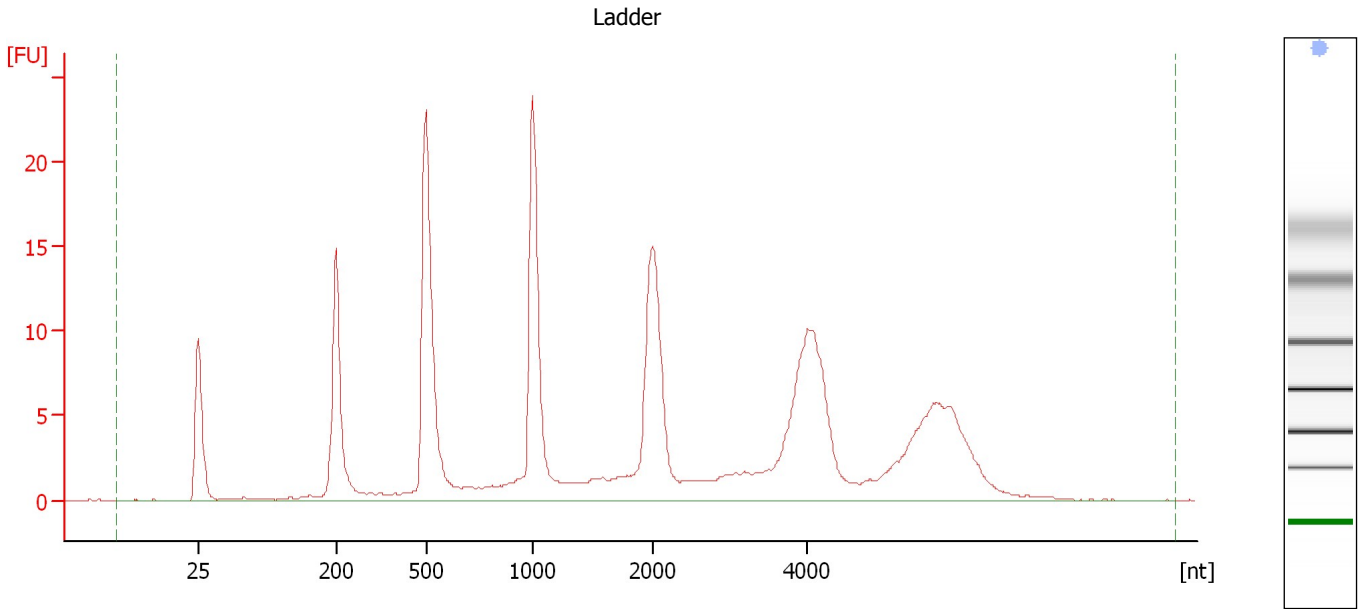
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary**



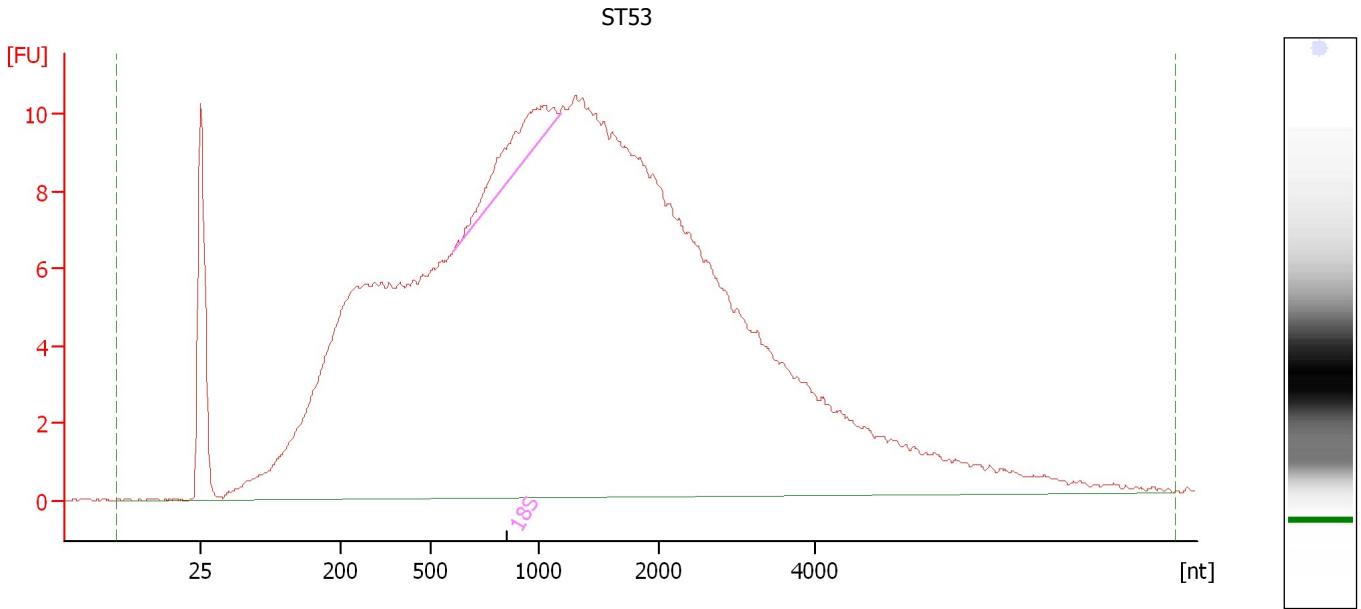
**Overall Results for Ladder**

RNA Area:	230.3	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : ST53**

RNA Area:	442.9	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	288 ng/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: 2.70

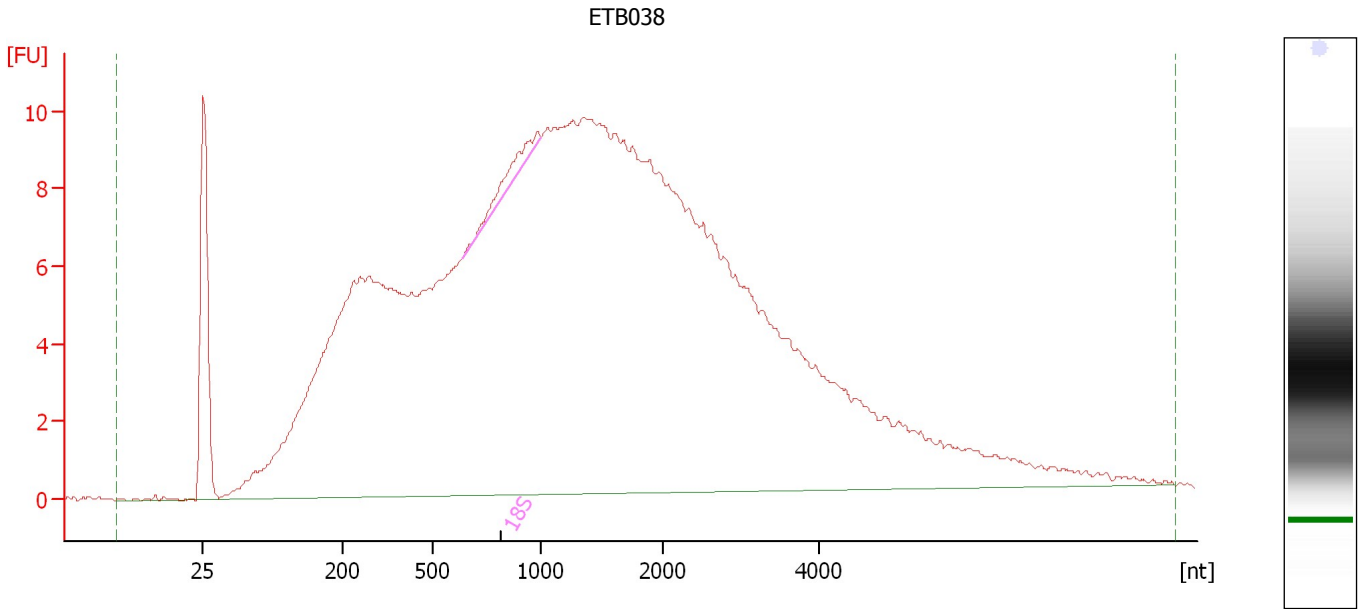
**Fragment table for sample 1 : ST53**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	607	1,182	8.3	1.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : ETB038**

RNA Area:	442.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	288 ng/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: 2.60

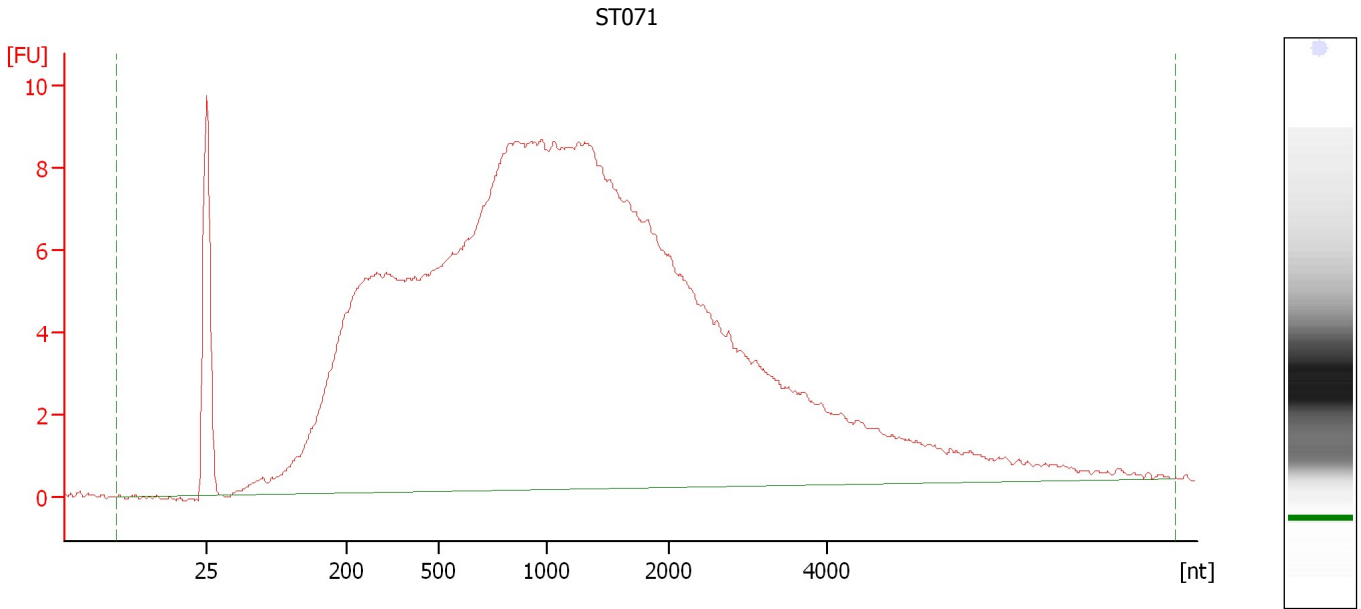
**Fragment table for sample 2 : ETB038**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	637	997	2.6	0.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



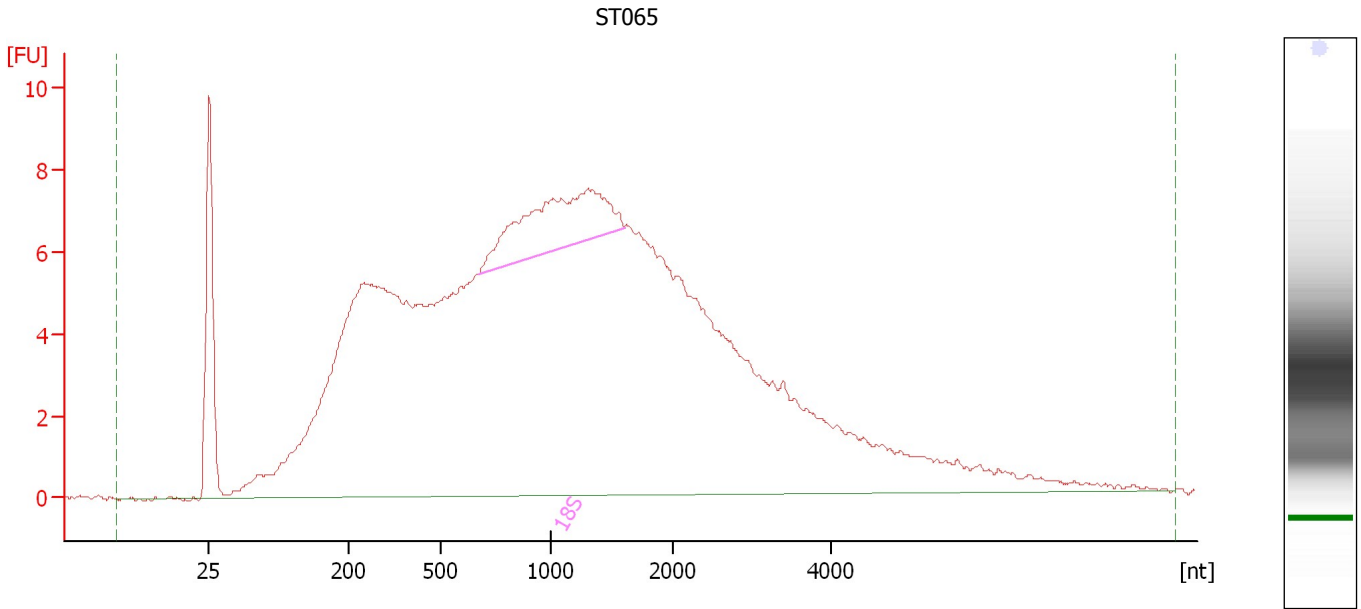
**Overall Results for sample 3 : ST071**

RNA Area:	360.8	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	235 ng/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: 2.20

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : ST065**

RNA Area:	333.5	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	217 ng/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:3

**Fragment table for sample 4 : ST065**

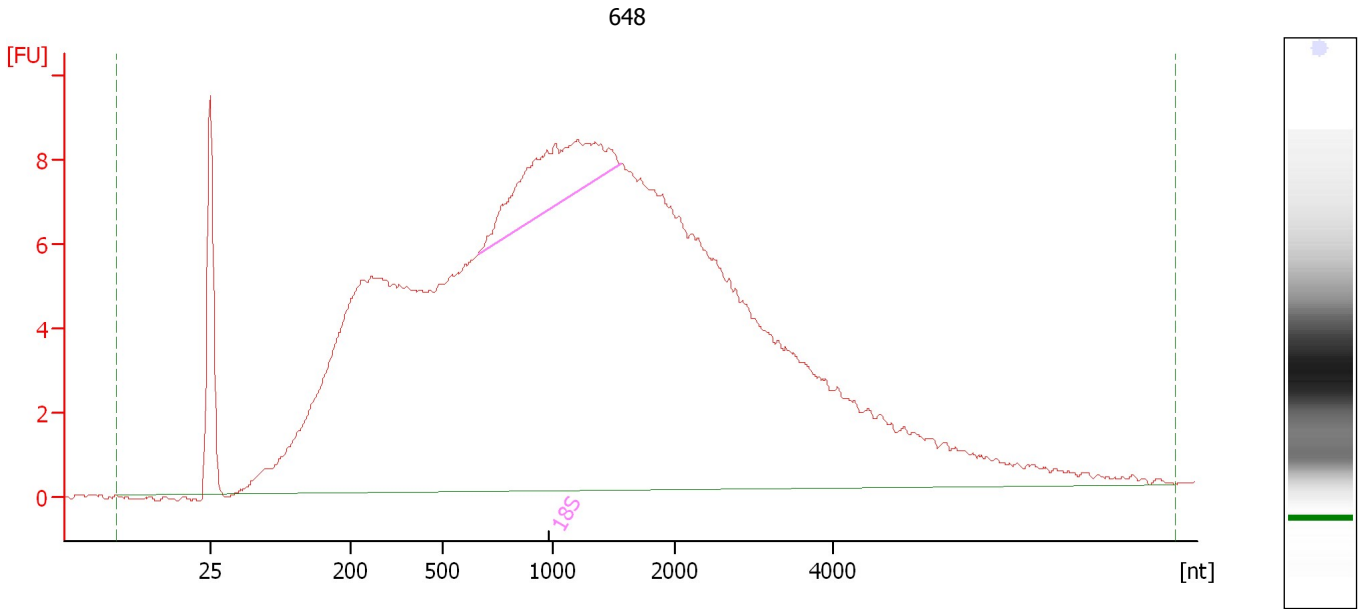
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	668	1,605	15.2	4.6



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 648**

RNA Area:	374.3	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	244 ng/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:3

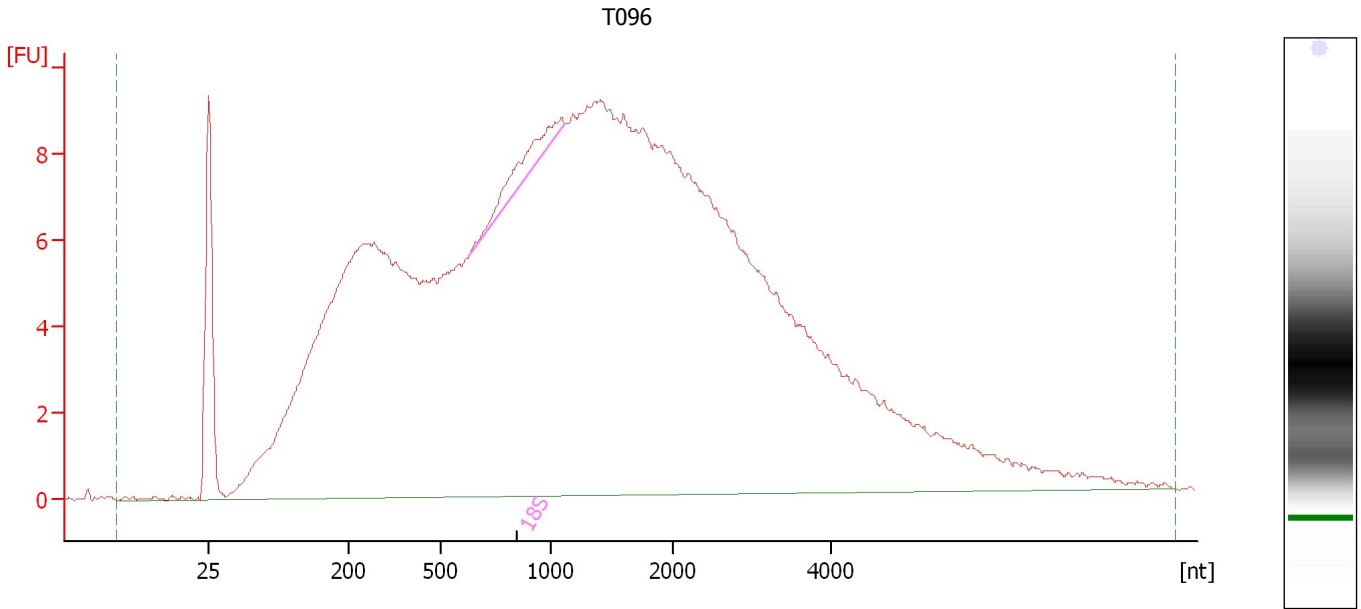
**Fragment table for sample 5 : 648**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	661	1,554	15.0	4.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : T096**

RNA Area:	439.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	286 ng/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: 2.60

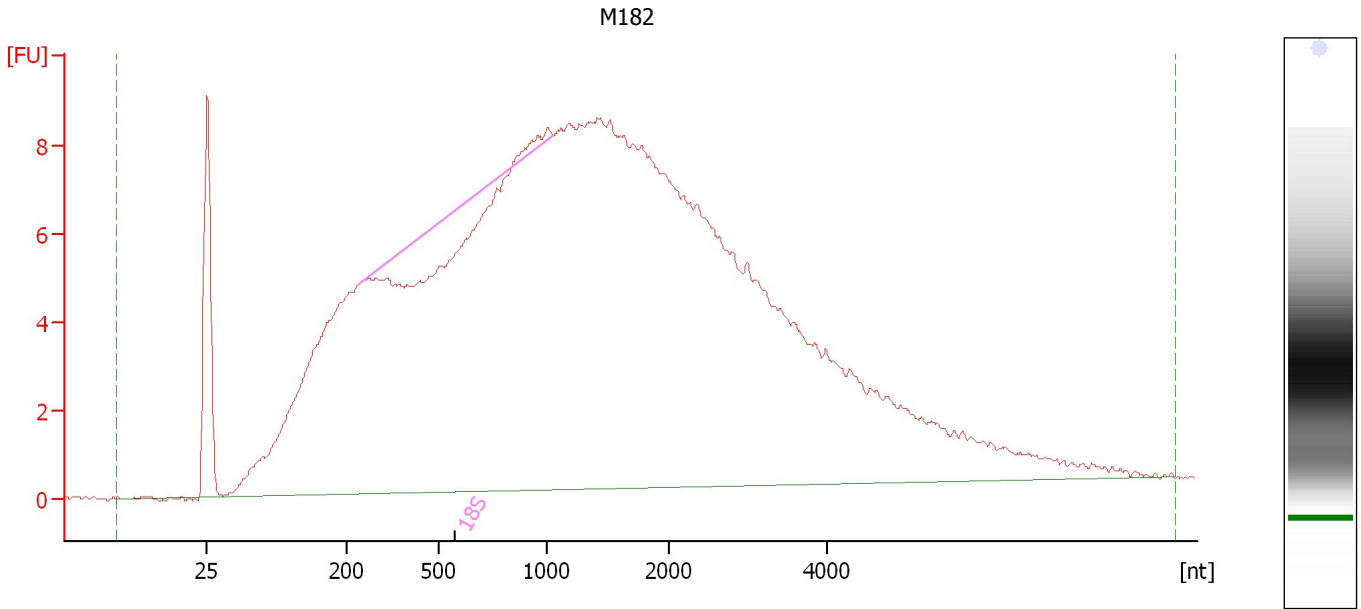
**Fragment table for sample 6 : T096**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	629	1,119	4.2	1.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : M182**

RNA Area:	401.3	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	261 ng/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: 2.70

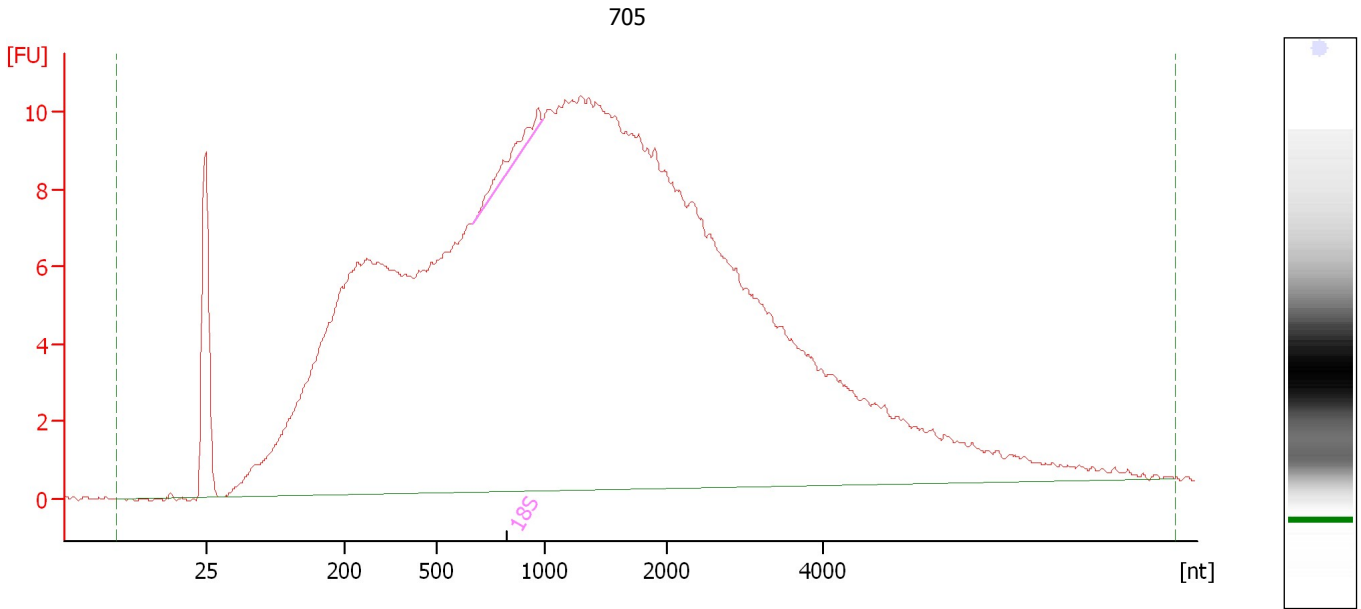
**Fragment table for sample 7 : M182**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	237	1,055	1.0	0.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 705**

RNA Area:	463.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	302 ng/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: 2.60

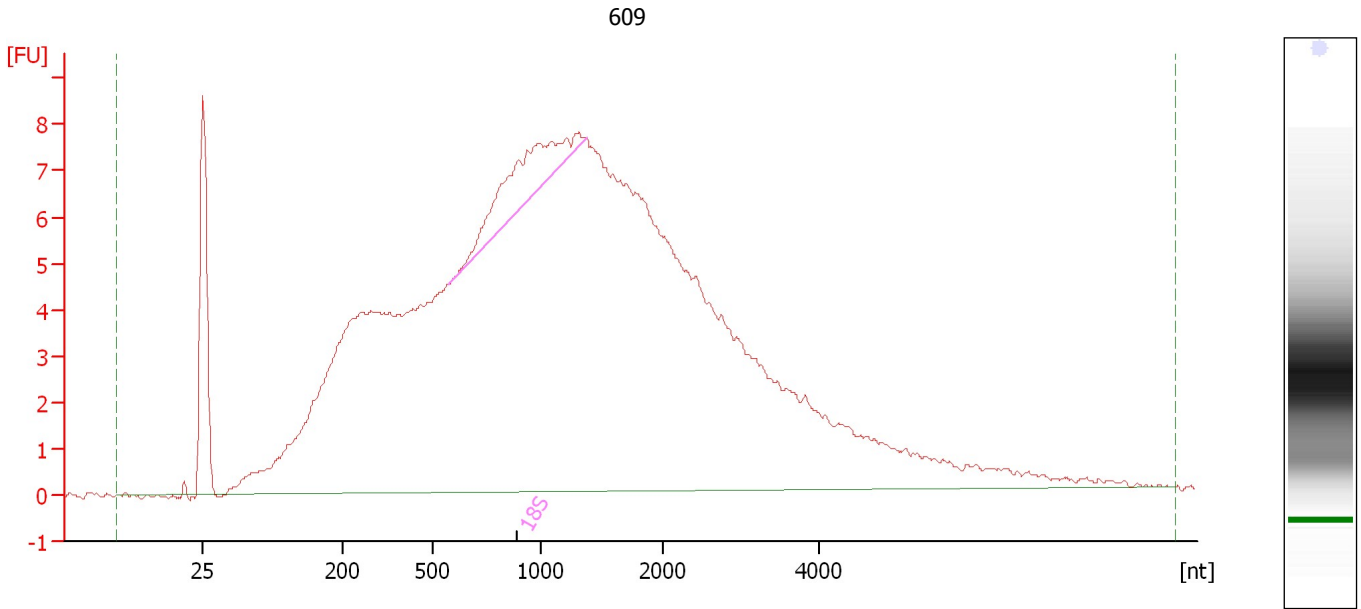
**Fragment table for sample 8 : 705**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	666	986	2.3	0.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 609**

RNA Area:	315.2	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	205 ng/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: 2.80

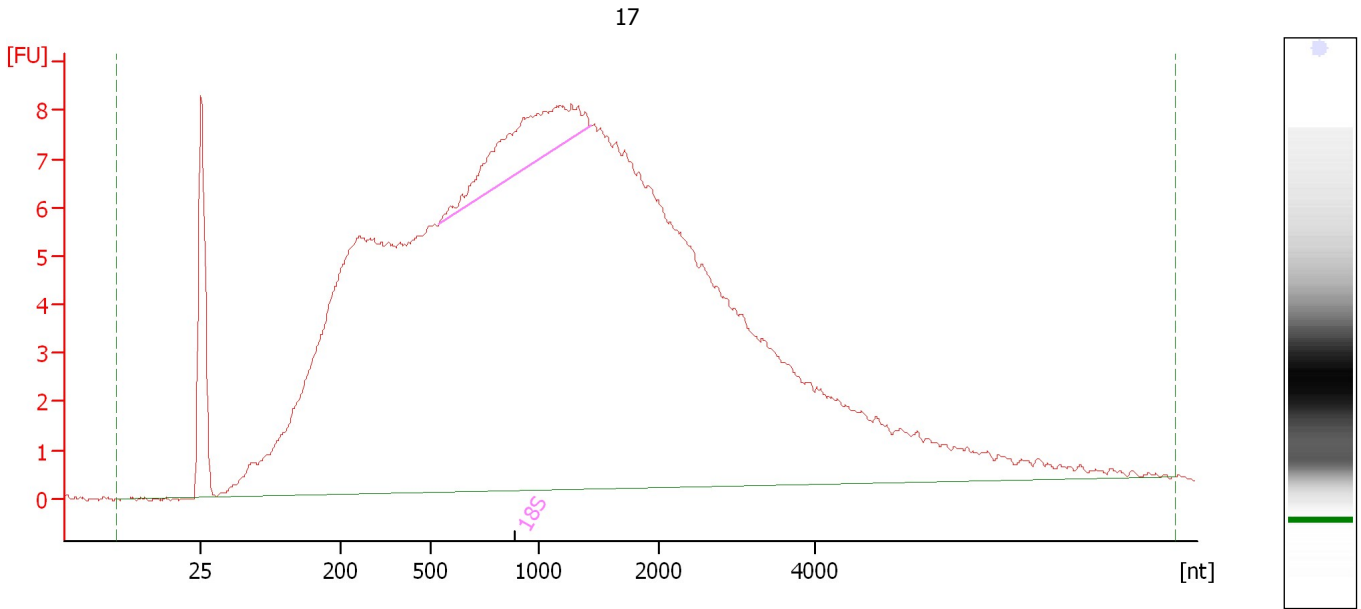
**Fragment table for sample 9 : 609**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	572	1,376	9.7	3.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 17**

RNA Area:	363.5	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	237 ng/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: 2.80

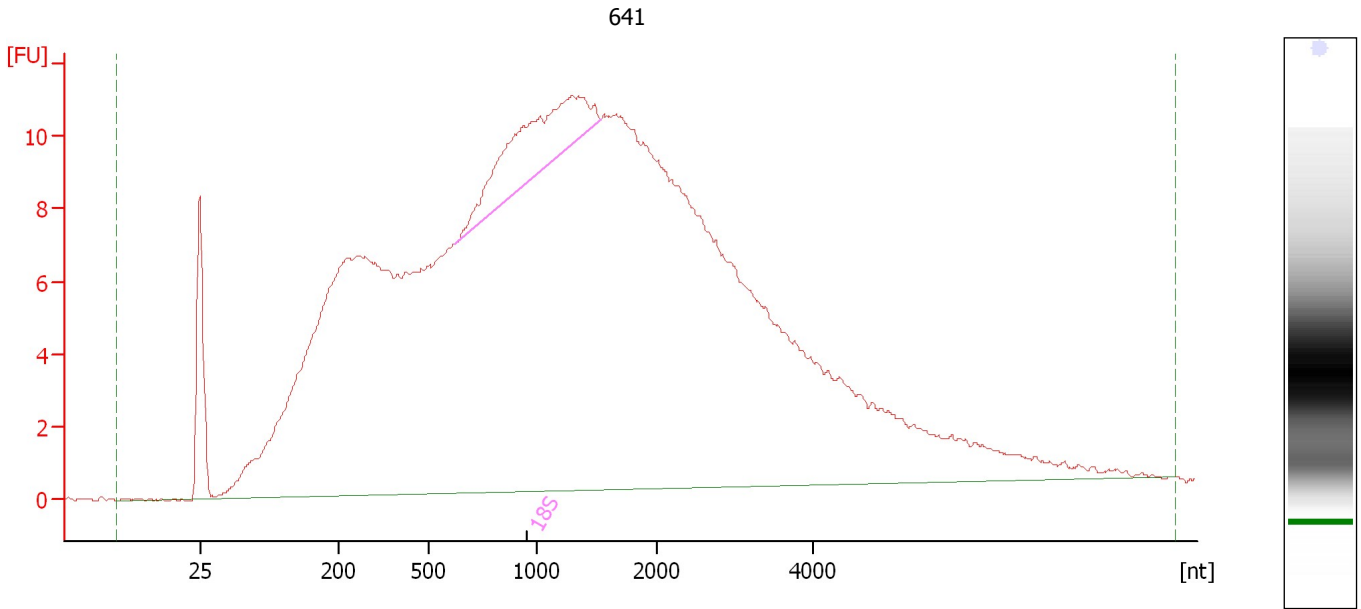
**Fragment table for sample 10 : 17**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	542	1,443	11.6	3.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 641**

RNA Area:	508.1	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	331 ng/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: 2.90

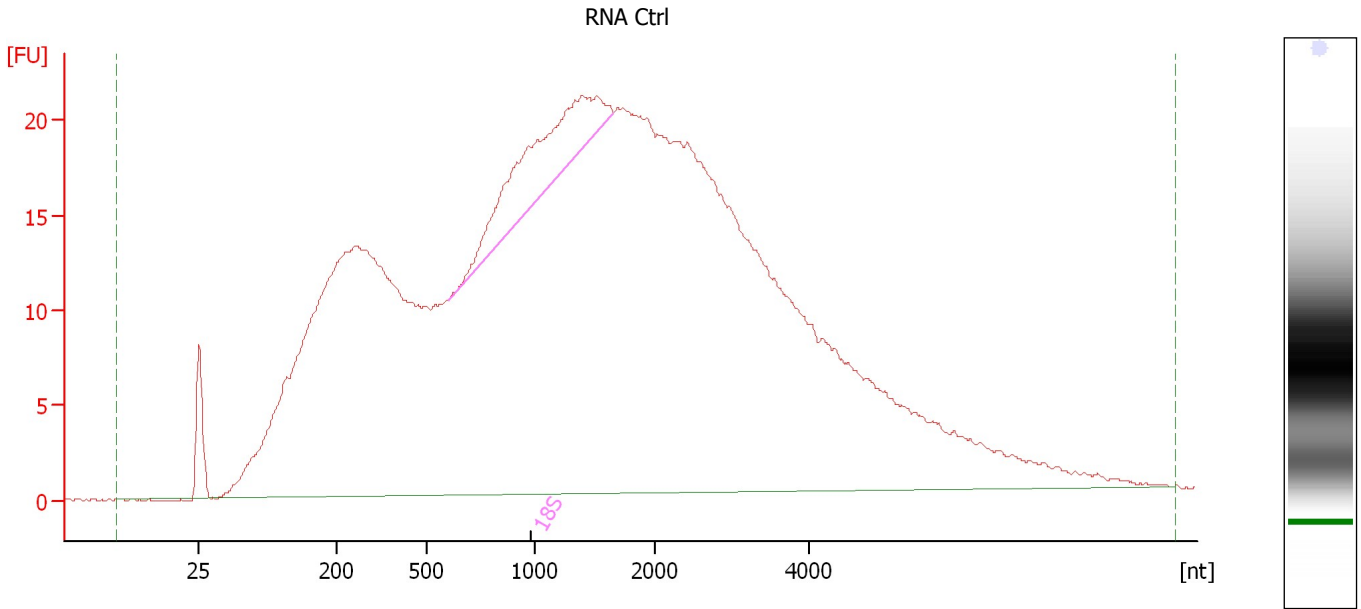
**Fragment table for sample 11 : 641**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	624	1,530	18.4	3.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : RNA Ctrl**

RNA Area:	1,018.5	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	663 ng/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: 2.90

**Fragment table for sample 12 : RNA Ctrl**

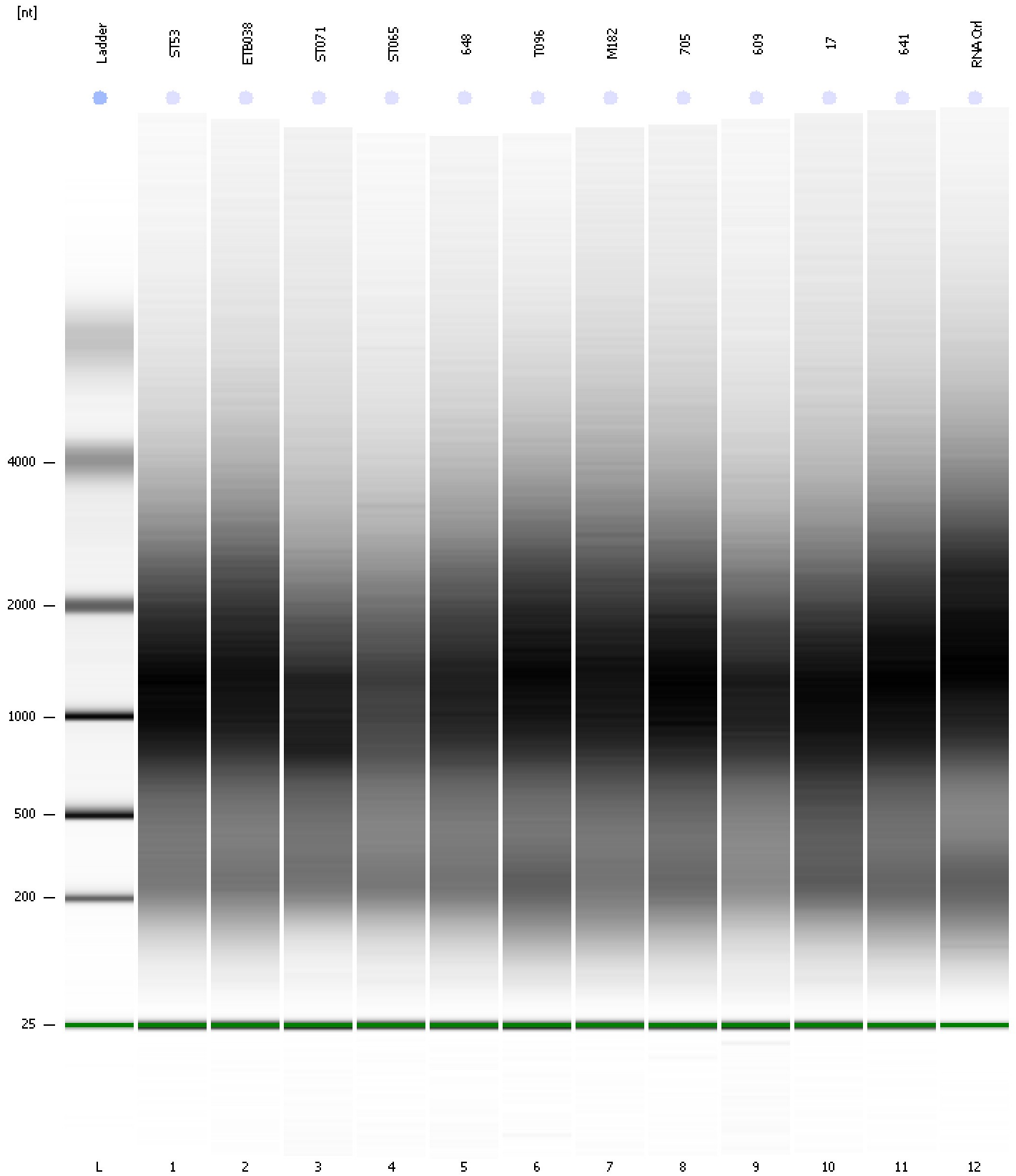
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	602	1,662	39.5	3.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
Modified: 3/3/2016 12:09:03 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-03-03\2016-03-03\_001.xad

Created: 3/3/2016 11:23:04 AM  
 Modified: 3/3/2016 12:09:03 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		3/3/2016 11:46:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-03-03\2016-03-03_001.xad)		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/3/2016 11:23:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1