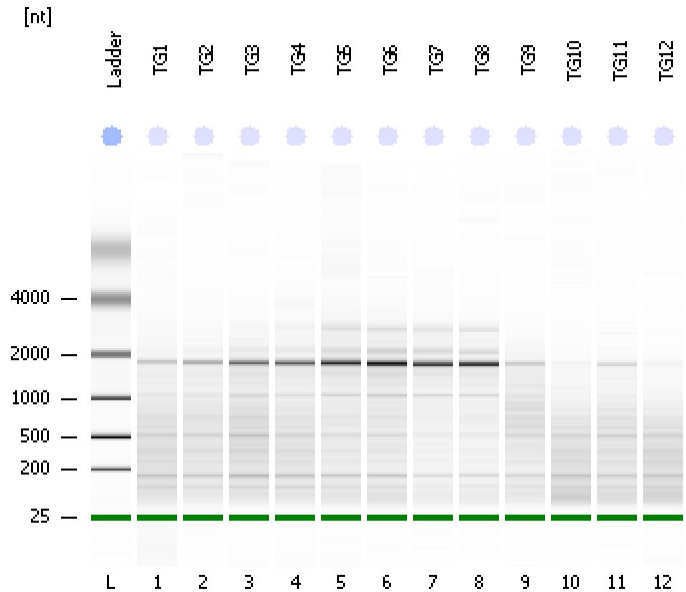


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

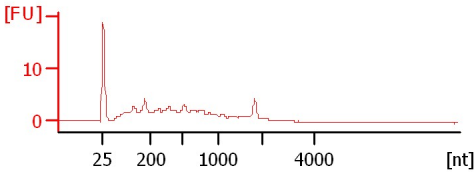
#### Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

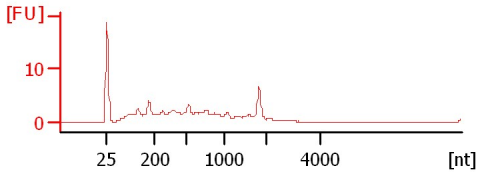
#### Chip Information:

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

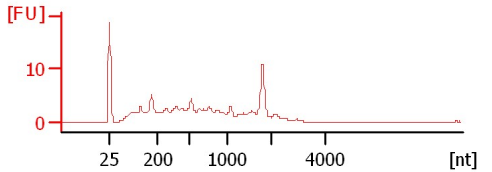
**TG1**  
RNA QC  
RIN: 5.80



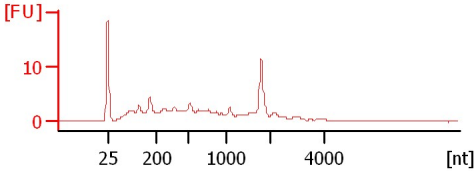
**TG2**  
RNA QC  
RIN: 5.90



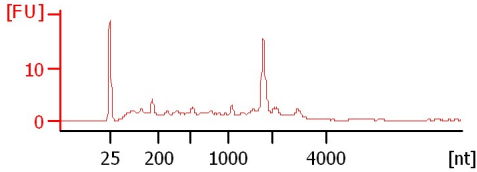
**TG3**  
RNA QC  
RIN: 5.80



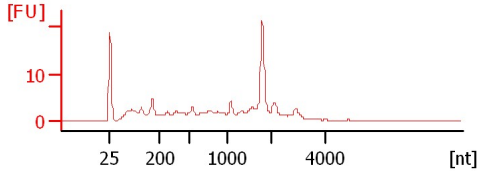
**TG4**  
RNA QC  
RIN: 6.20



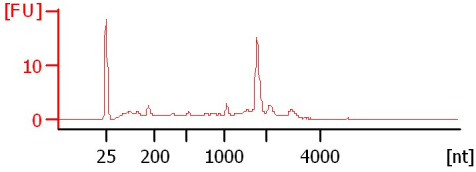
**TG5**  
RNA QC  
RIN: 6.40



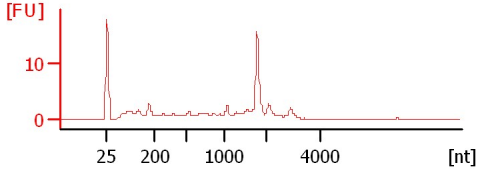
**TG6**  
RNA QC  
RIN: 6.30



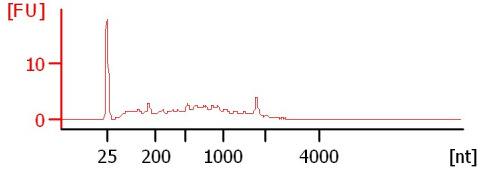
**TG7**  
RNA QC  
RIN: 6.70



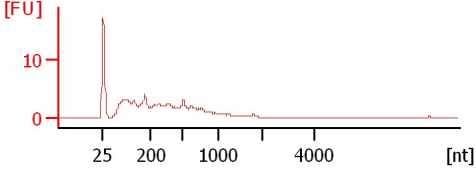
**TG8**  
RNA QC  
RIN: 7.20



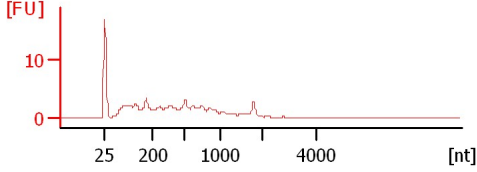
**TG9**  
RNA QC  
RIN: 5.40



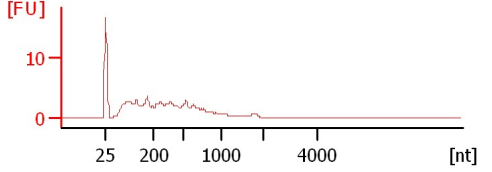
**TG10**  
RNA QC  
RIN: 2.30



**TG11**  
RNA QC  
RIN: 4.70



**TG12**  
RNA QC  
RIN: 2



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
 Modified: 4/22/2019 3:52:07 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
TG1	RNA QC	✓	RIN: 5.80	
TG2	RNA QC	✓	RIN: 5.90	
TG3	RNA QC	✓	RIN: 5.80	
TG4	RNA QC	✓	RIN: 6.20	
TG5	RNA QC	✓	RIN: 6.40	
TG6	RNA QC	✓	RIN: 6.30	
TG7	RNA QC	✓	RIN: 6.70	
TG8	RNA QC	✓	RIN: 7.20	
TG9	RNA QC	✓	RIN: 5.40	
TG10	RNA QC	✓	RIN: 2.30	
TG11	RNA QC	✓	RIN: 4.70	
TG12	RNA QC	✓	RIN:2	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 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

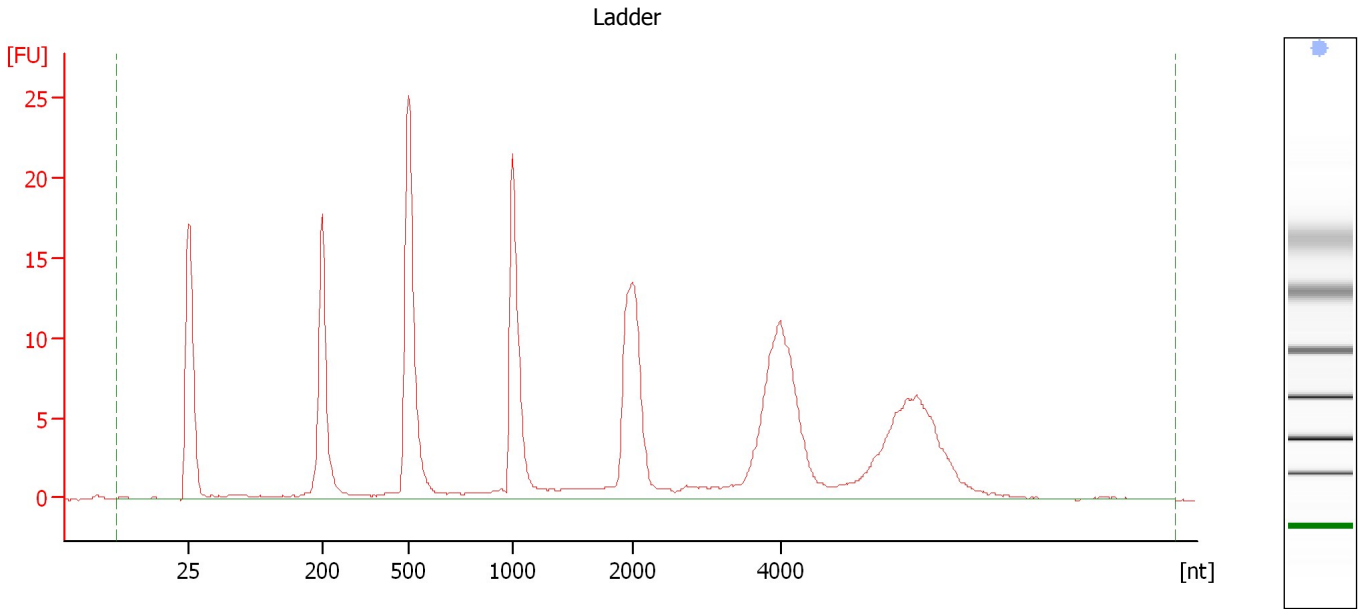
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary**



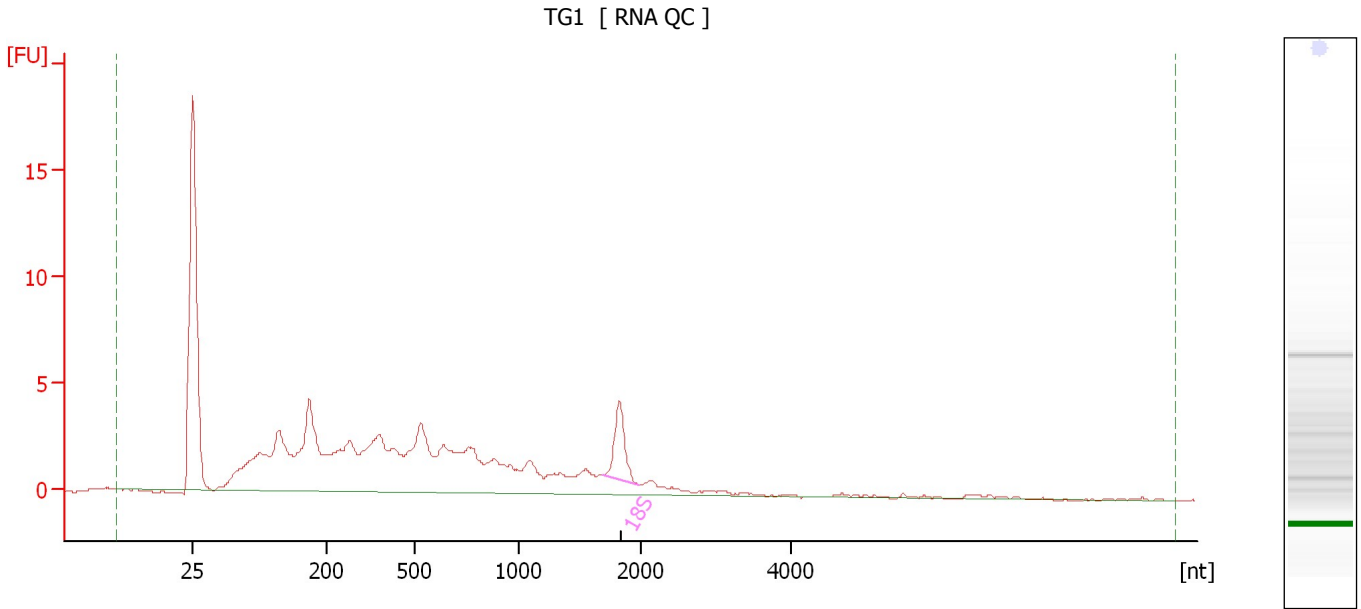
**Overall Results for Ladder**

RNA Area:	219.8	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:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : TG1**

RNA Area:	105.2	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	72 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: 5.80

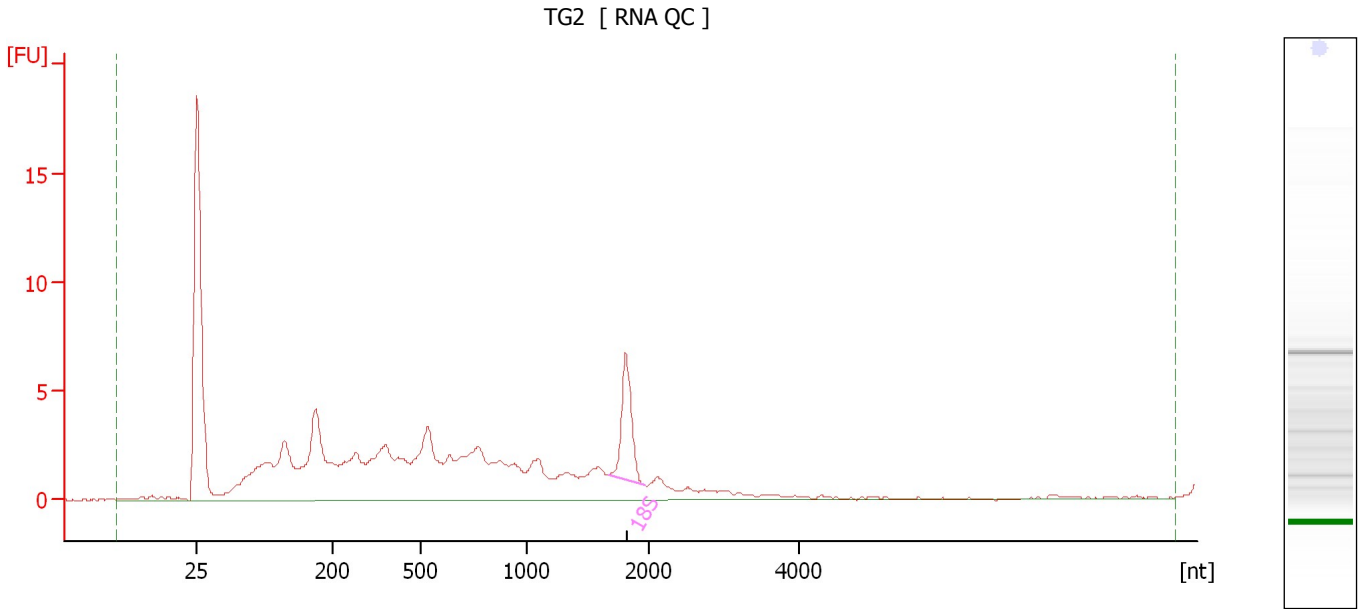
**Fragment table for sample 1 : TG1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,693	1,985	4.8	4.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TG2**

RNA Area:	110.9	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	76 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: 5.90

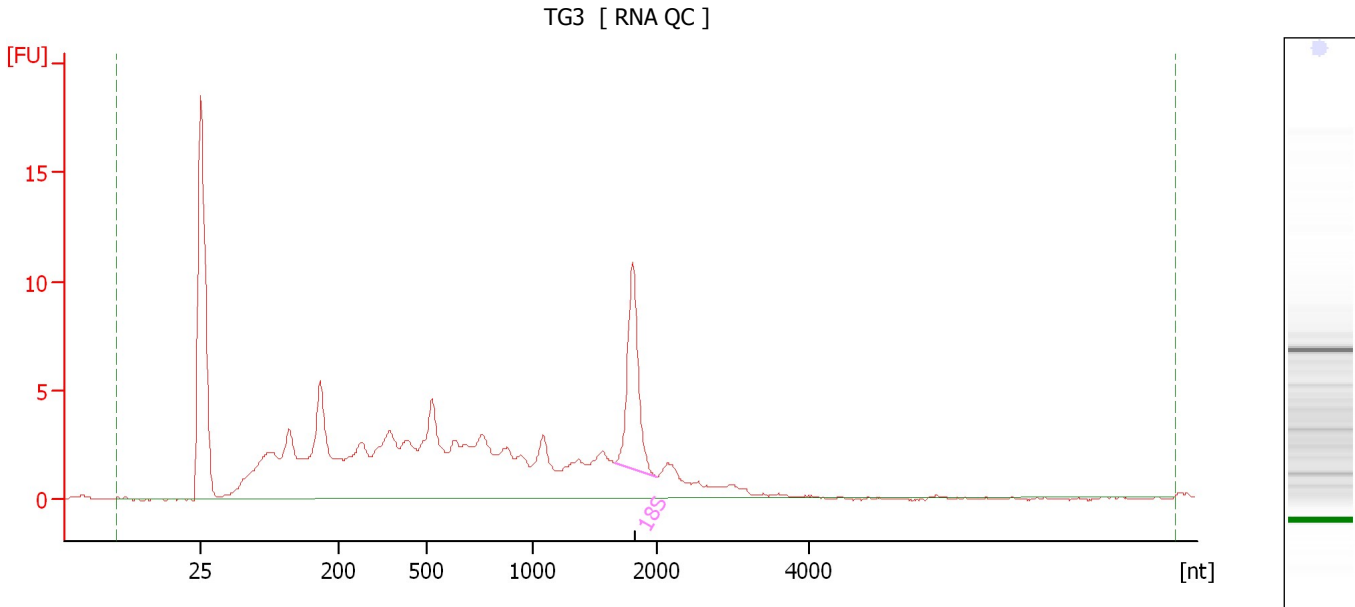
**Fragment table for sample 2 : TG2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	1,971	7.1	6.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : TG3**

RNA Area:	140.5	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	96 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: 5.80

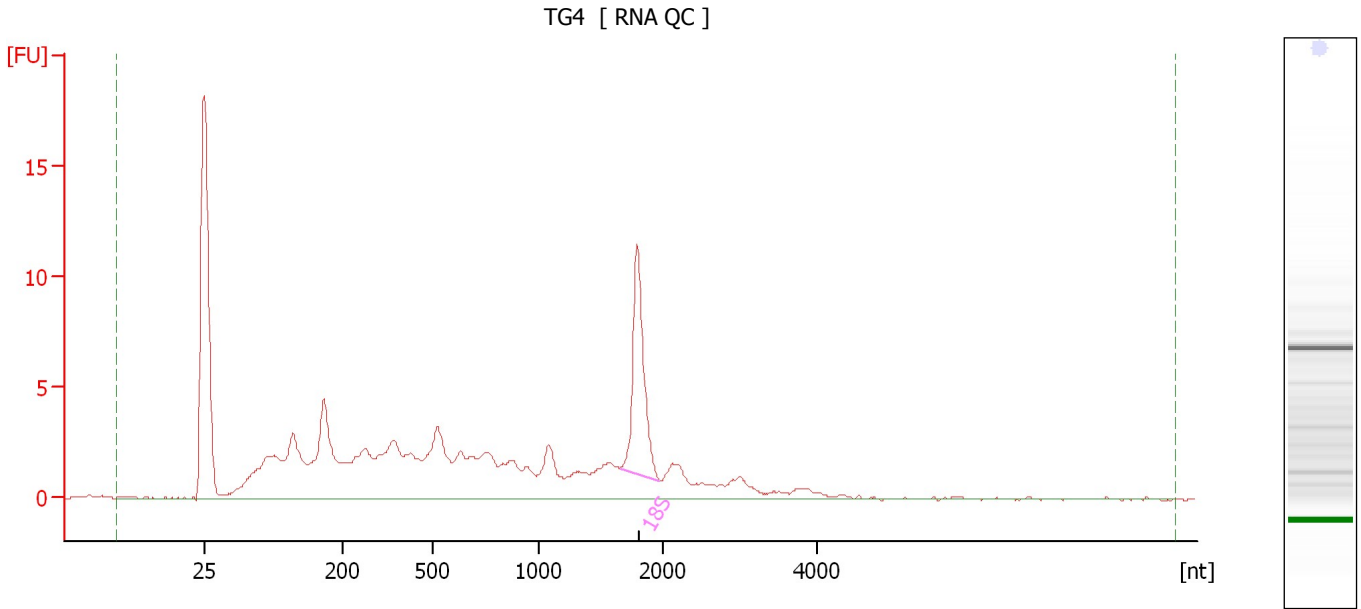
**Fragment table for sample 3 : TG3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,661	2,001	12.5	8.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : TG4**

RNA Area:	127.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	87 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: 6.20

**Fragment table for sample 4 : TG4**

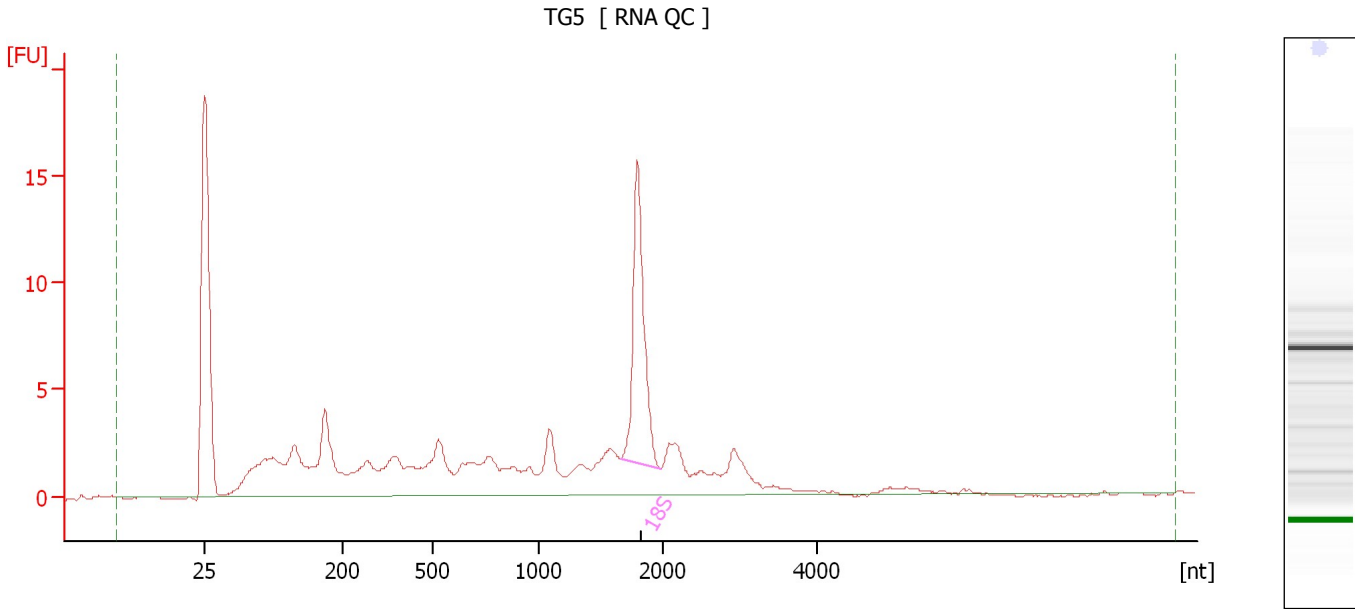
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,977	14.1	11.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : TG5**

RNA Area:	125.3	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	85 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: 6.40

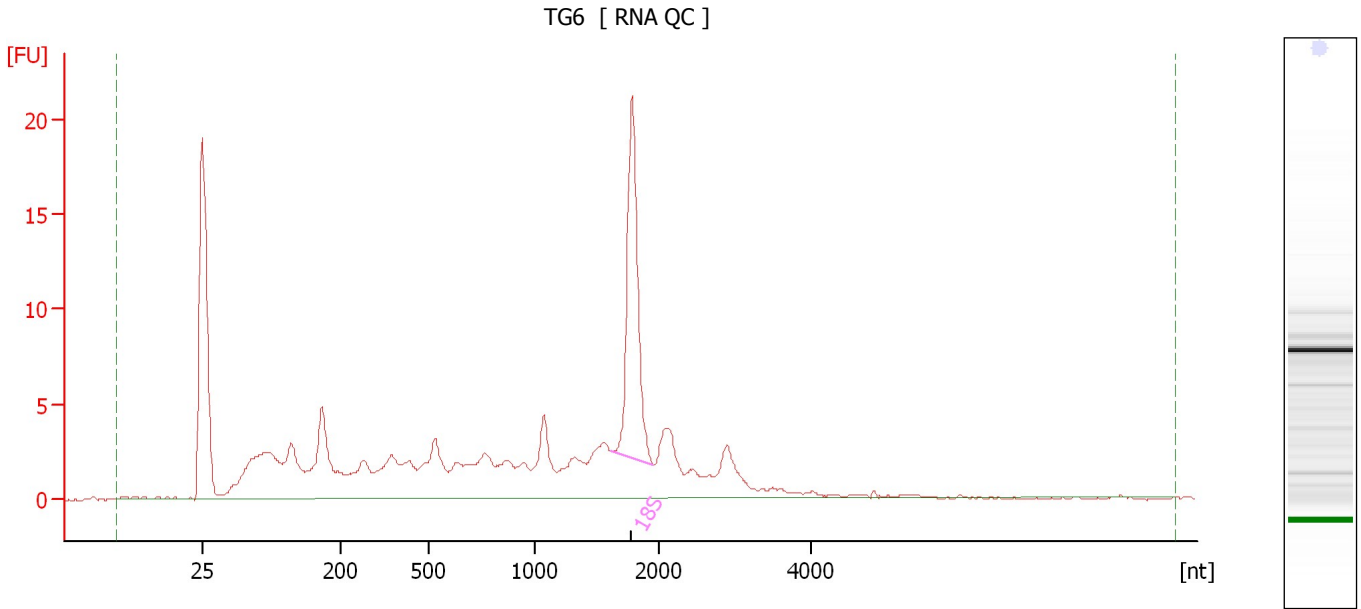
**Fragment table for sample 5 : TG5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,985	18.9	15.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : TG6**

RNA Area:	158.1	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	108 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: 6.30

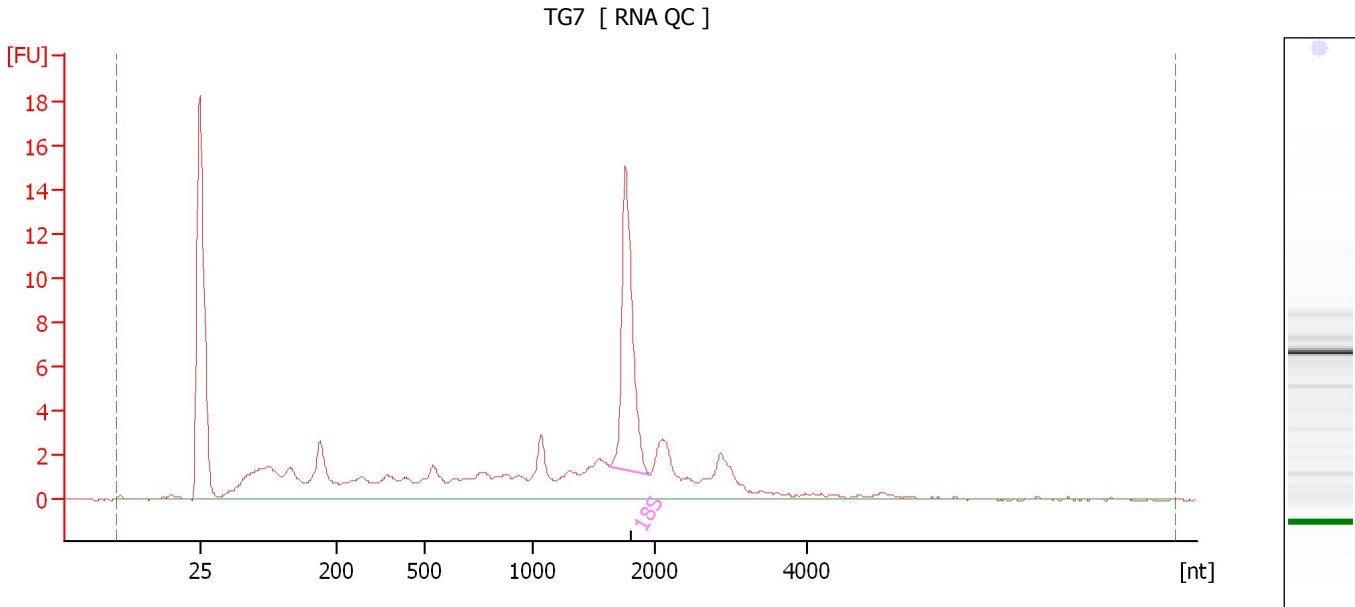
**Fragment table for sample 6 : TG6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,958	24.4	15.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : TG7**

RNA Area:	97.6	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	67 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: 6.70

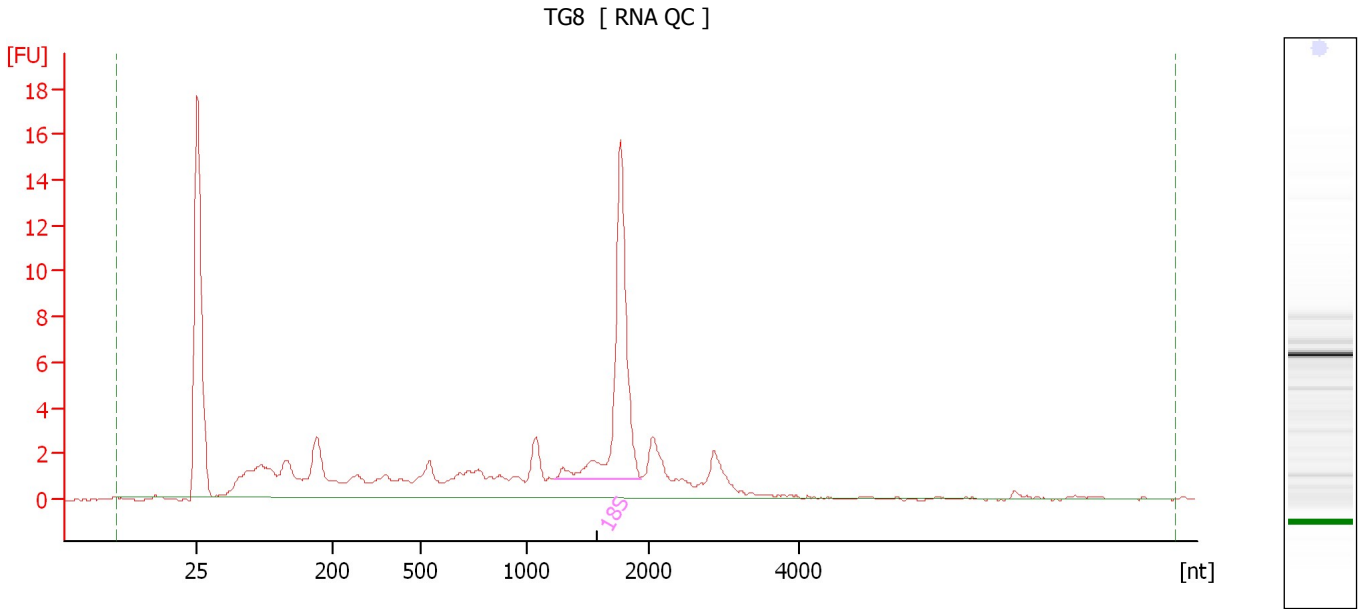
**Fragment table for sample 7 : TG7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,965	17.8	18.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : TG8**

RNA Area:	90.3	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	62 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.20

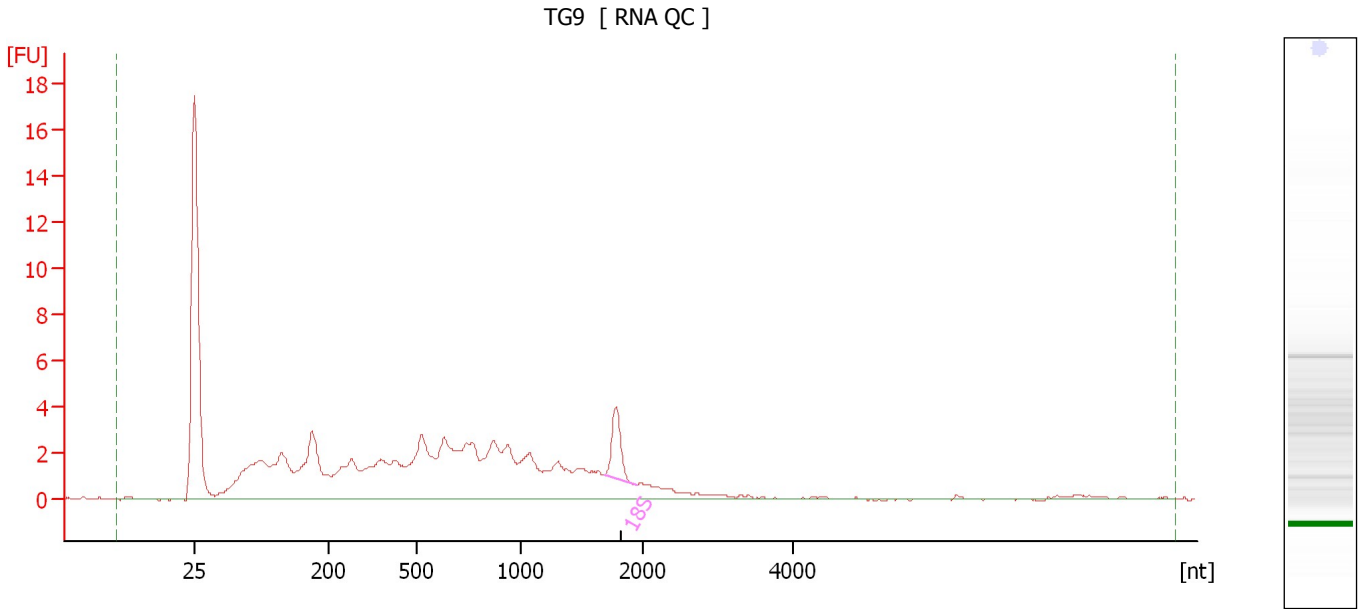
**Fragment table for sample 8 : TG8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,234	1,936	21.3	23.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : TG9**

RNA Area:	98.7	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	67 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: 5.40

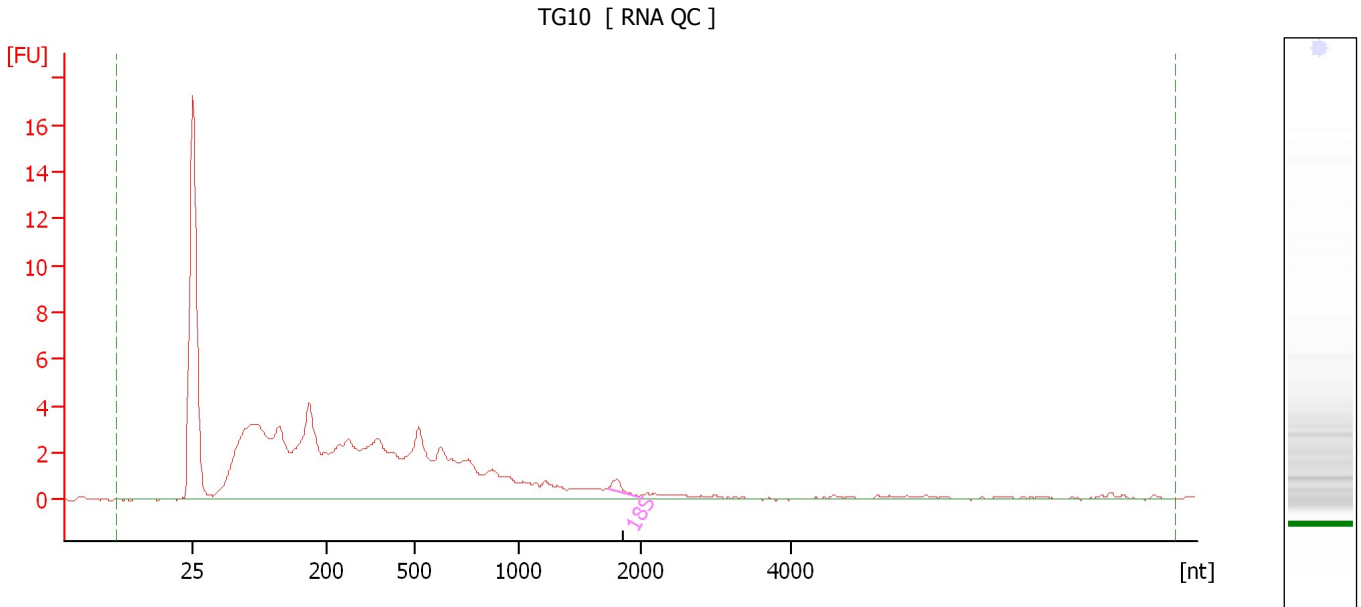
**Fragment table for sample 9 : TG9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	1,951	3.4	3.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : TG10**

RNA Area:	105.6	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	72 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: 2.30

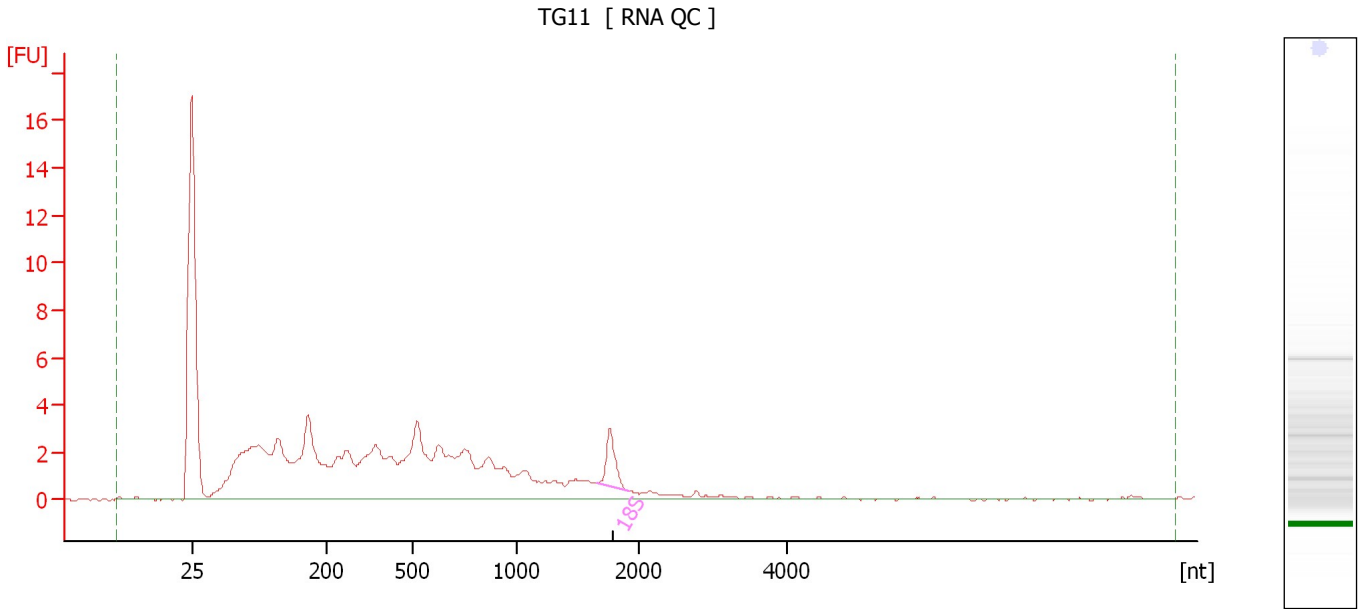
**Fragment table for sample 10 : TG10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,737	1,985	0.6	0.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : TG11**

RNA Area:	99.6	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	68 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: 4.70

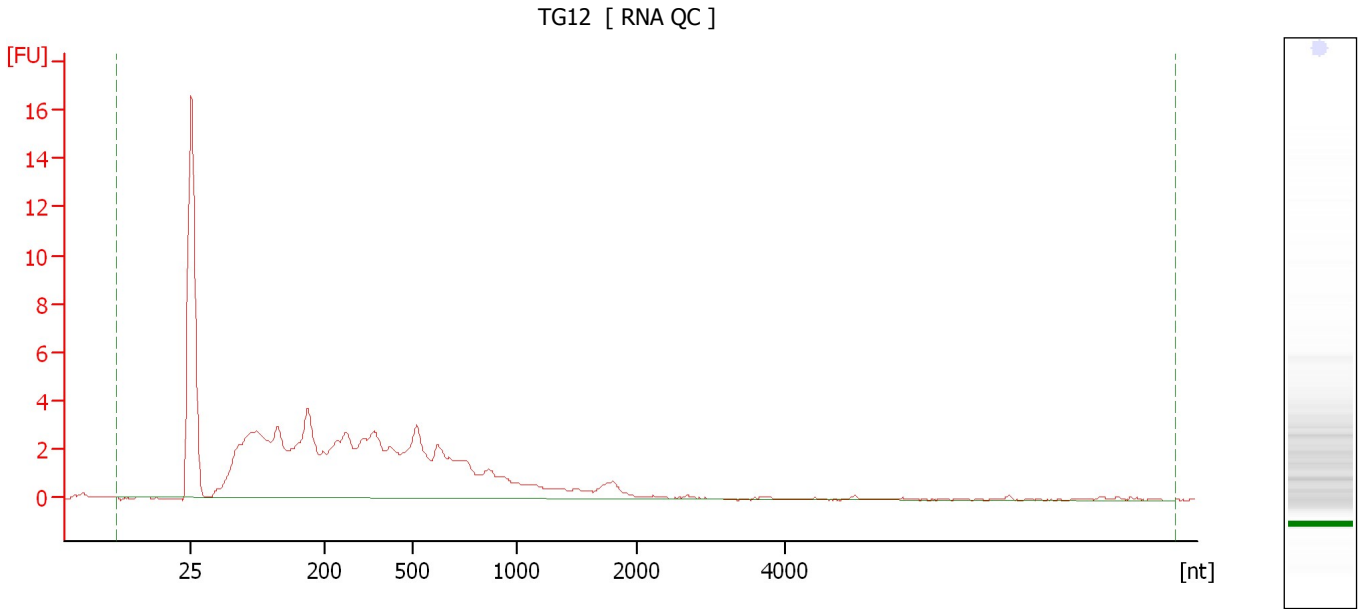
**Fragment table for sample 11 : TG11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,922	2.7	2.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : TG12**

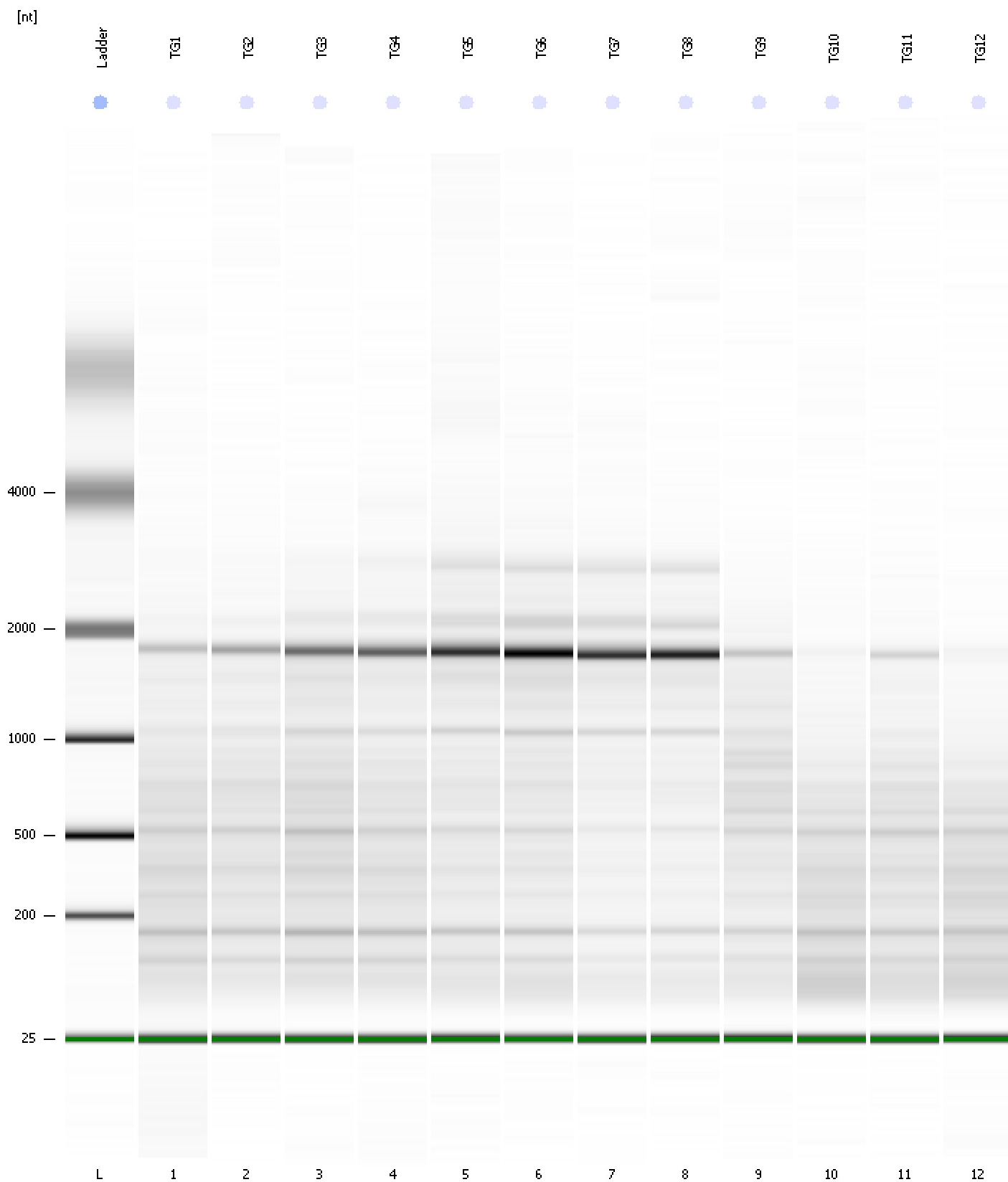
RNA Area:	97.3	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	66 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
Modified: 4/22/2019 3:52:07 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_003.xad

Created: 4/22/2019 3:20:31 PM  
 Modified: 4/22/2019 3:52:07 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		4/22/2019 3:43:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_003.xad)		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2019 3:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1