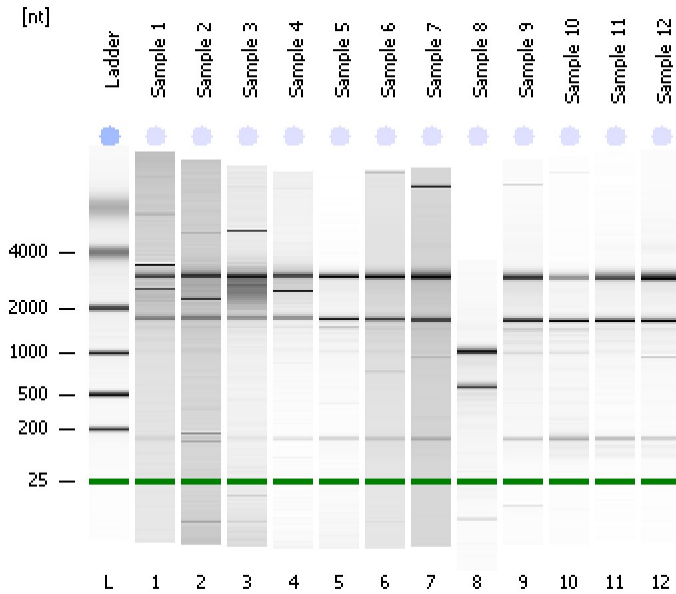


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

Electrophoresis File Run Summary



Instrument Information:

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

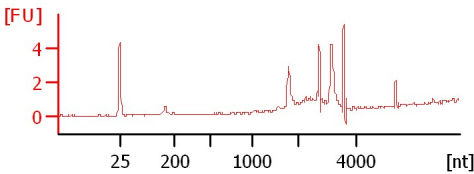
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

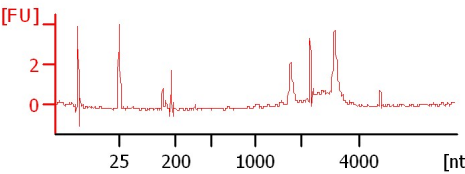
Chip Information:

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

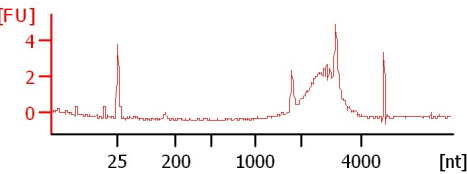
Sample 1  
RIN: 8.20



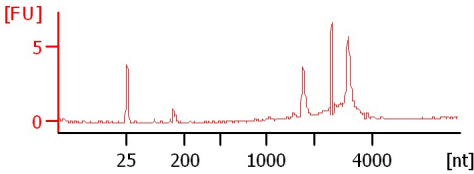
Sample 2  
RIN: 8.80



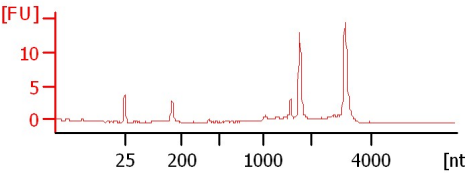
Sample 3  
RIN: 6



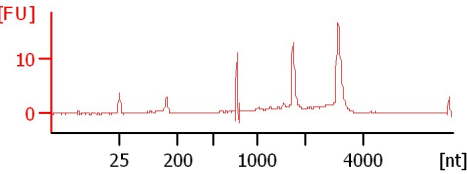
Sample 4  
RIN: 5.20



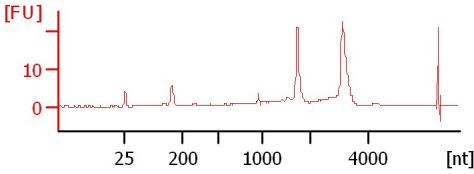
Sample 5  
RIN: 8.20



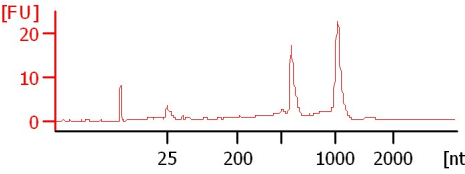
Sample 6  
RIN: 7.80



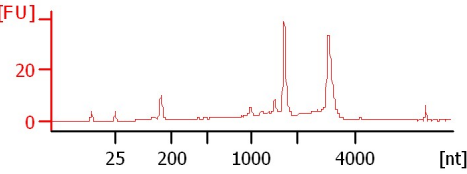
Sample 7  
RIN: 8.10



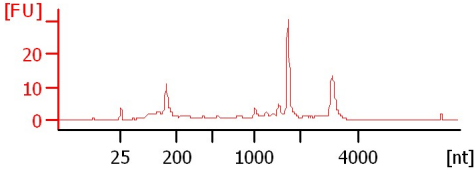
Sample 8  
RIN: 6.10



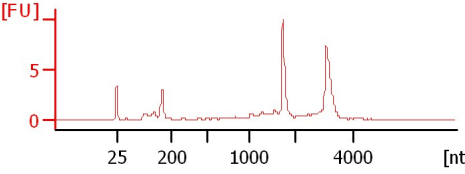
Sample 9  
RIN: 7.60



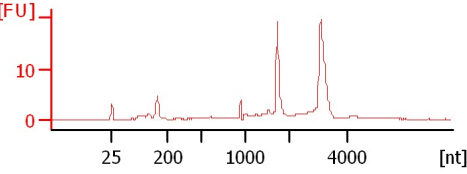
Sample 10  
RIN: 7.20



Sample 11  
RIN: 8.10



Sample 12  
RIN: 8.80



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.20	
Sample 2		✓	RIN: 8.80	
Sample 3		✓	RIN:6	
Sample 4		✓	RIN: 5.20	
Sample 5		✓	RIN: 8.20	
Sample 6		✓	RIN: 7.80	
Sample 7		✓	RIN: 8.10	
Sample 8		✓	RIN: 6.10	
Sample 9		✓	RIN: 7.60	
Sample 10		✓	RIN: 7.20	
Sample 11		✓	RIN: 8.10	
Sample 12		✓	RIN: 8.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 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

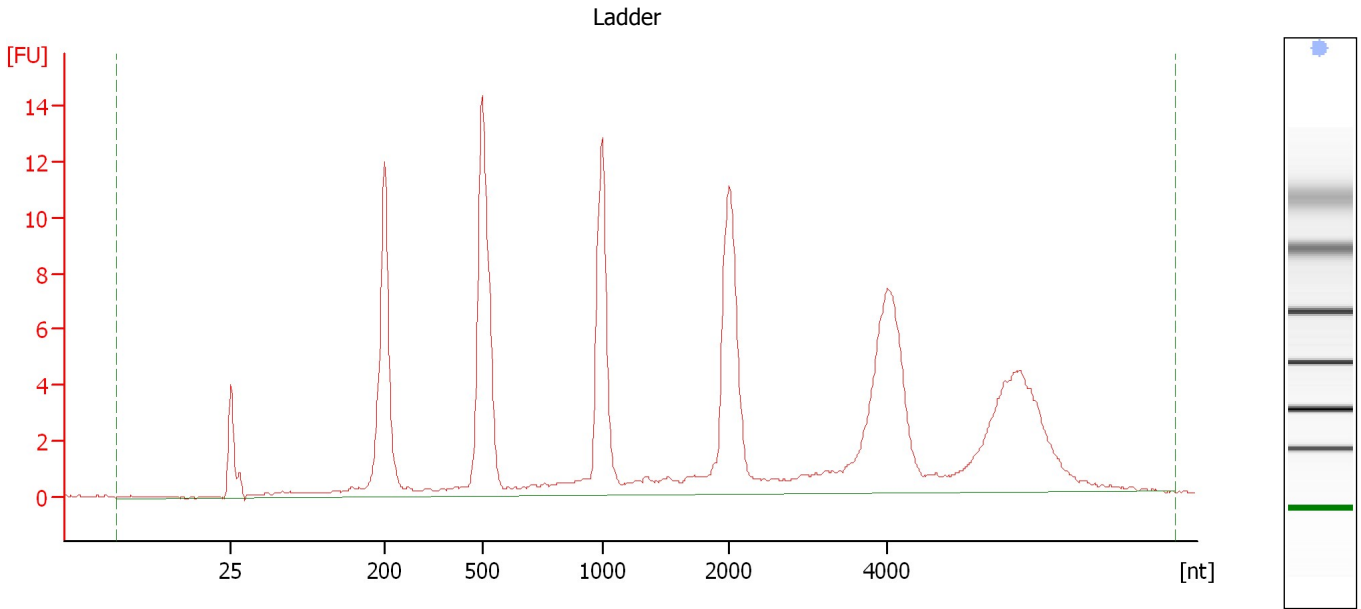
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary**



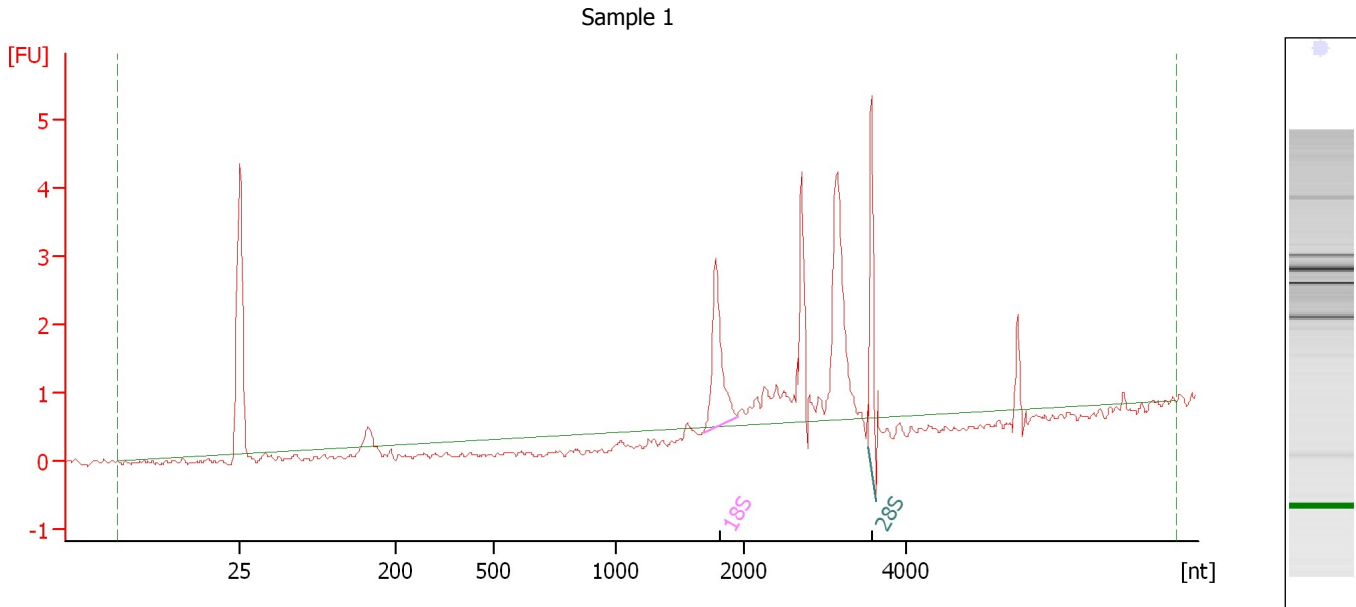
**Overall Results for Ladder**

RNA Area:	145.6	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\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
 Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area:	13.3	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	14 ng/μl	Result Flagging Color:	<span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; background-color: #ccccff;"></span>
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.20

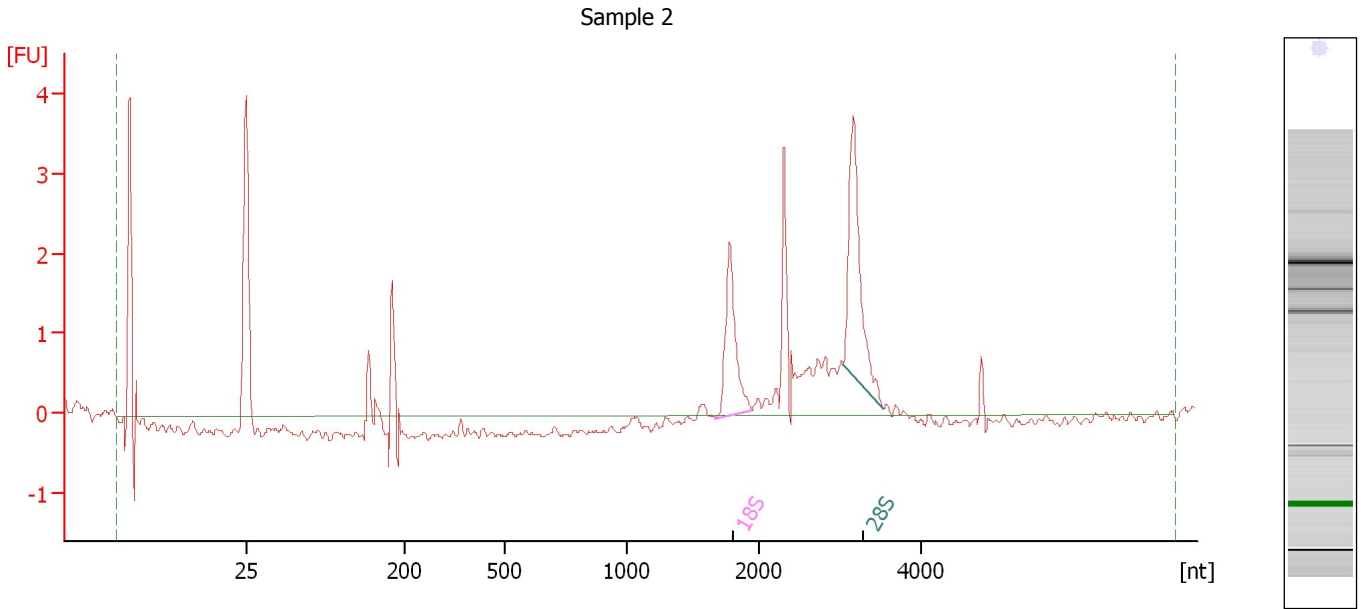
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	1,945	2.6	19.3
28S	3,538	3,644	2.1	15.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	18.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	19 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]:	1.5	Result Flagging Label:	RIN: 8.80

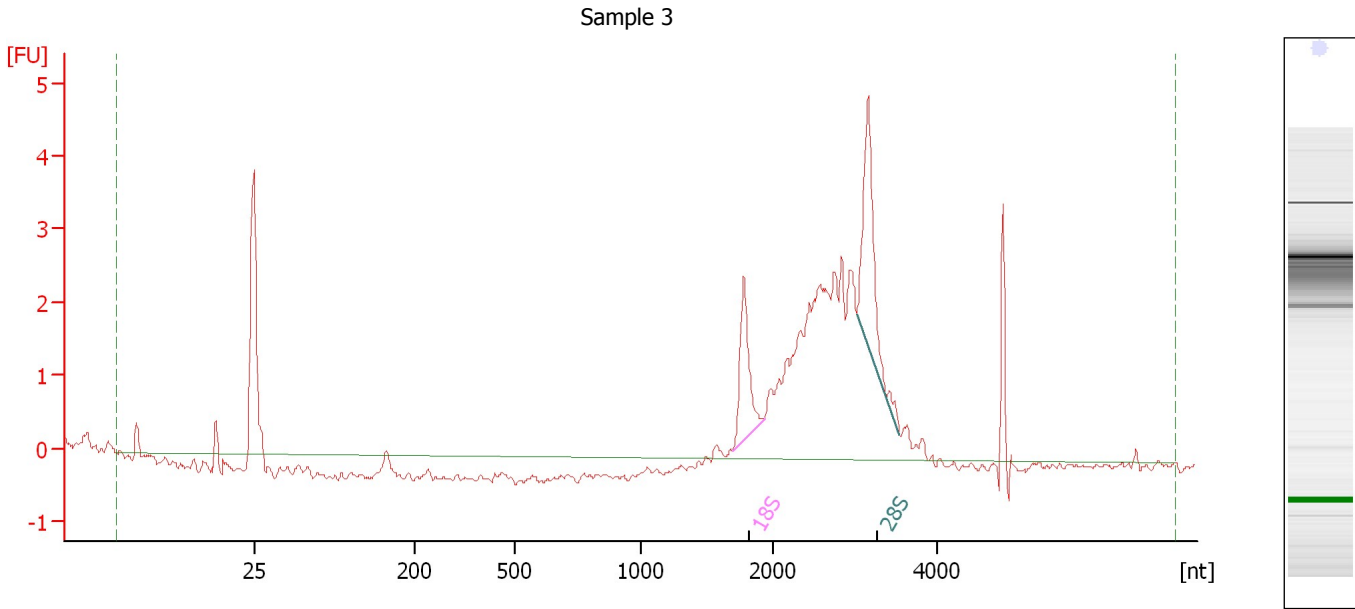
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,949	2.4	13.2
28S	3,049	3,536	3.6	19.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area: 28.4                      RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 29 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7              Result Flagging Label: RIN:6

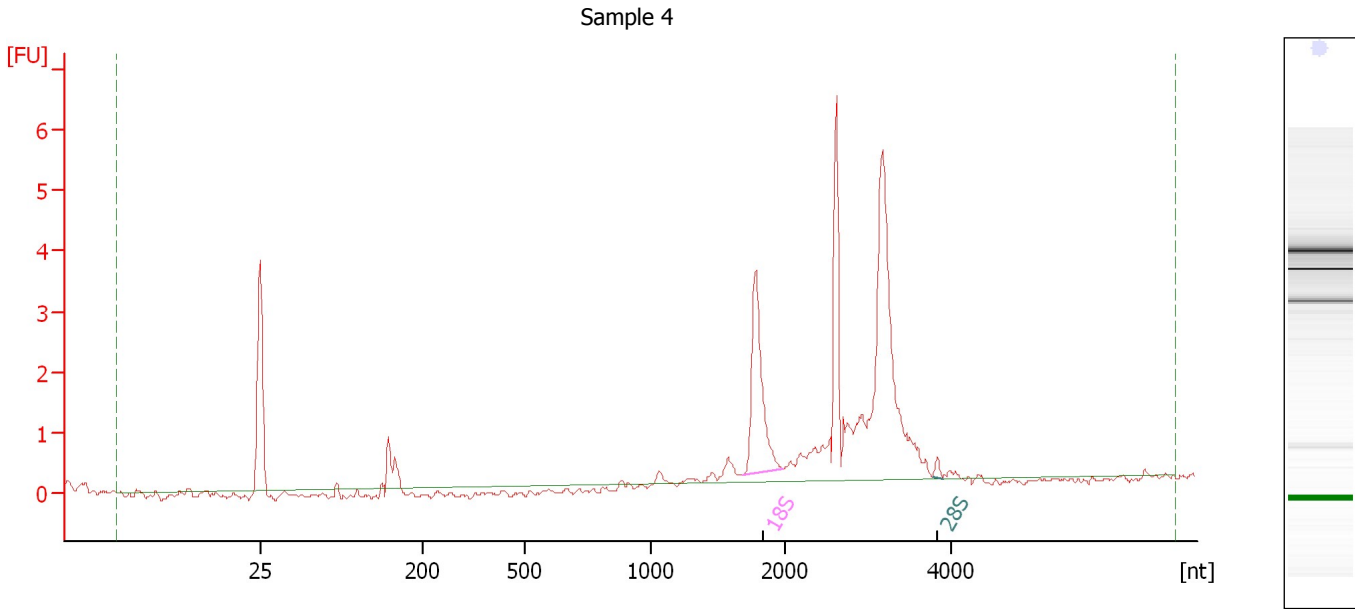
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,937	2.1	7.4
28S	3,015	3,533	3.5	12.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area:	21.5	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	22 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: 5.20

**Fragment table for sample 4 : Sample 4**

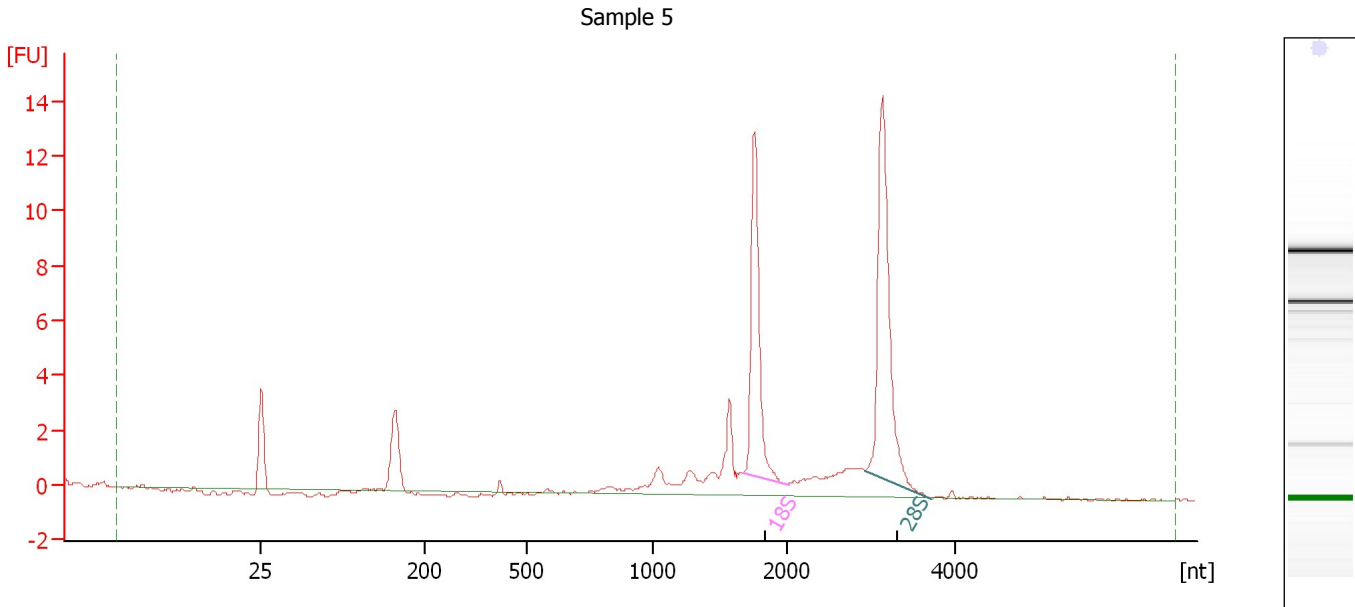
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	1,981	3.6	16.8
28S	3,764	3,892	0.2	0.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area:	48.7	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	50 ng/μl		
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 8.20

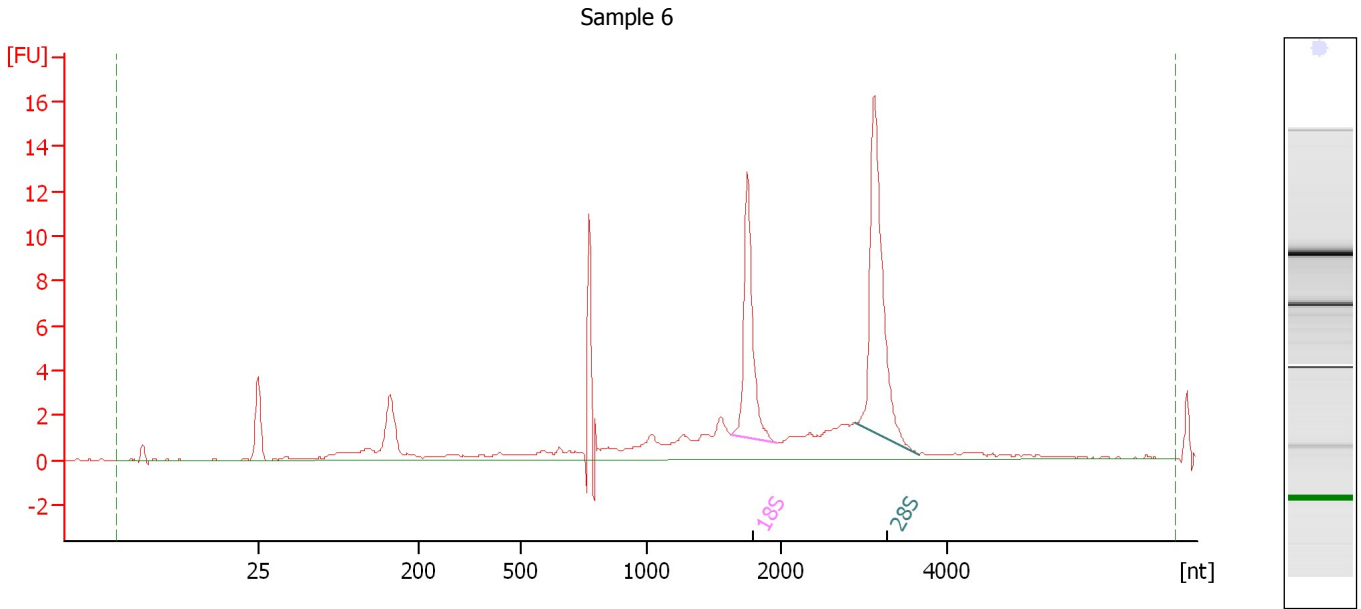
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	2,009	10.4	21.4
28S	2,930	3,710	14.9	30.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area:	81.0	RNA Integrity Number (RIN):	7.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	83 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]:	1.6	Result Flagging Label:	RIN: 7.80

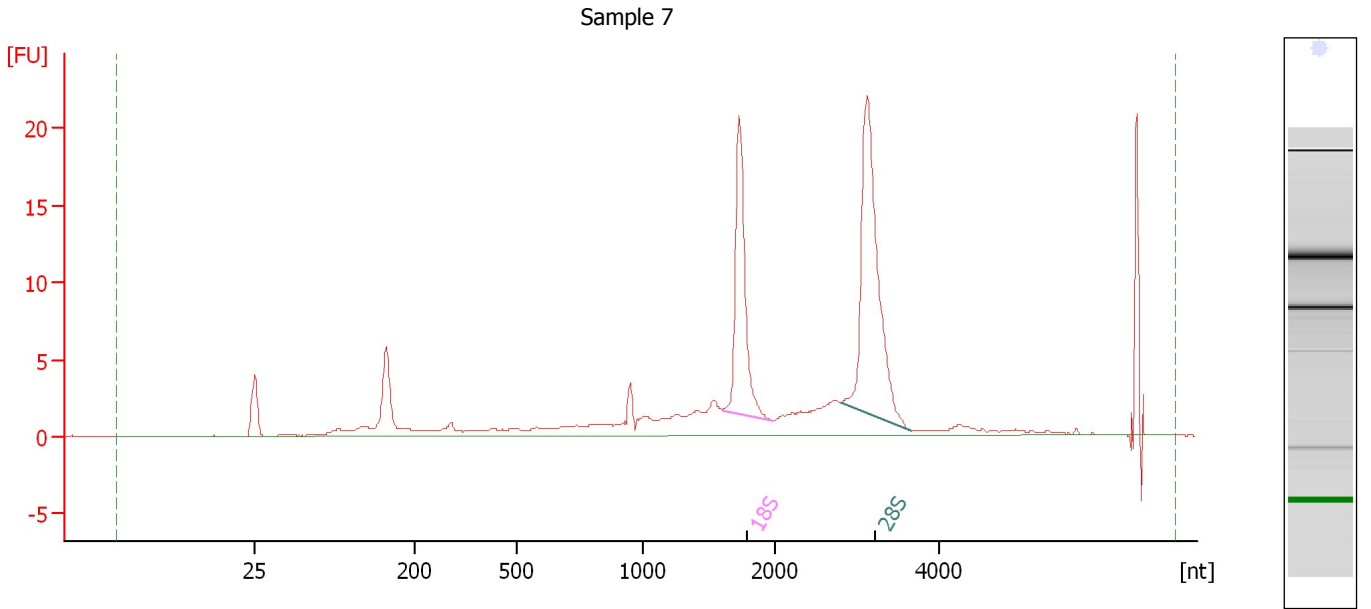
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,972	11.4	14.1
28S	2,882	3,654	18.6	23.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
 Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area:	127.8	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	132 ng/μl		
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 8.10

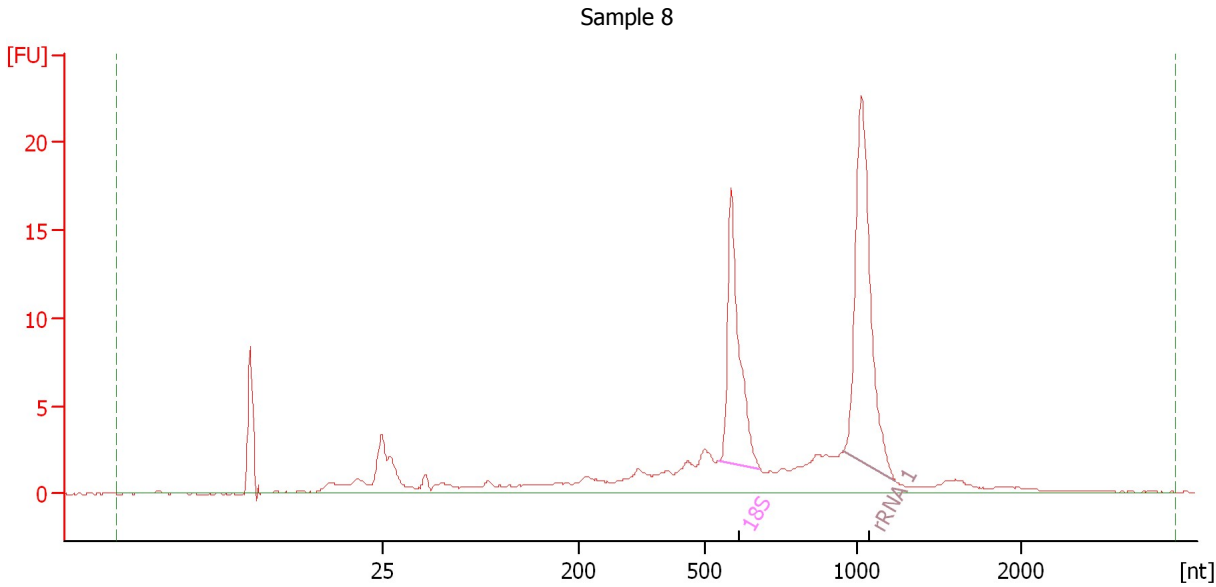
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	1,986	19.5	15.2
28S	2,794	3,661	32.8	25.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Sample 8**

Height Threshold [FU] : 0.6

**Overall Results for sample 8 : Sample 8**

RNA Area: 120.4      RNA Integrity Number (RIN): 6.1 (B.02.08, Anomaly Threshold(s) manually adapted)

RNA Concentration: 124 ng/μl

rRNA Ratio [28s / 18s]: 0.0      Result Flagging Color:

Result Flagging Label: RIN: 6.10

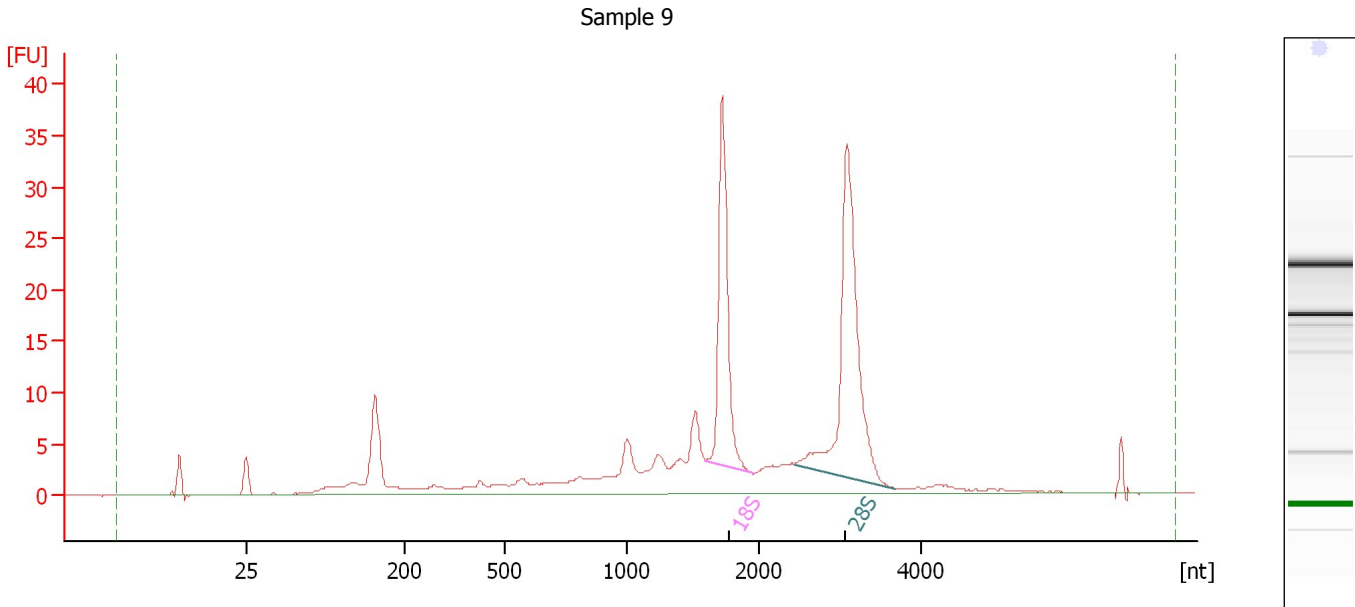
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	548	681	19.8	16.5
rRNA 1	954	1,229	30.6	25.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
 Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area:	217.5	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	224 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]:	1.5	Result Flagging Label:	RIN: 7.60

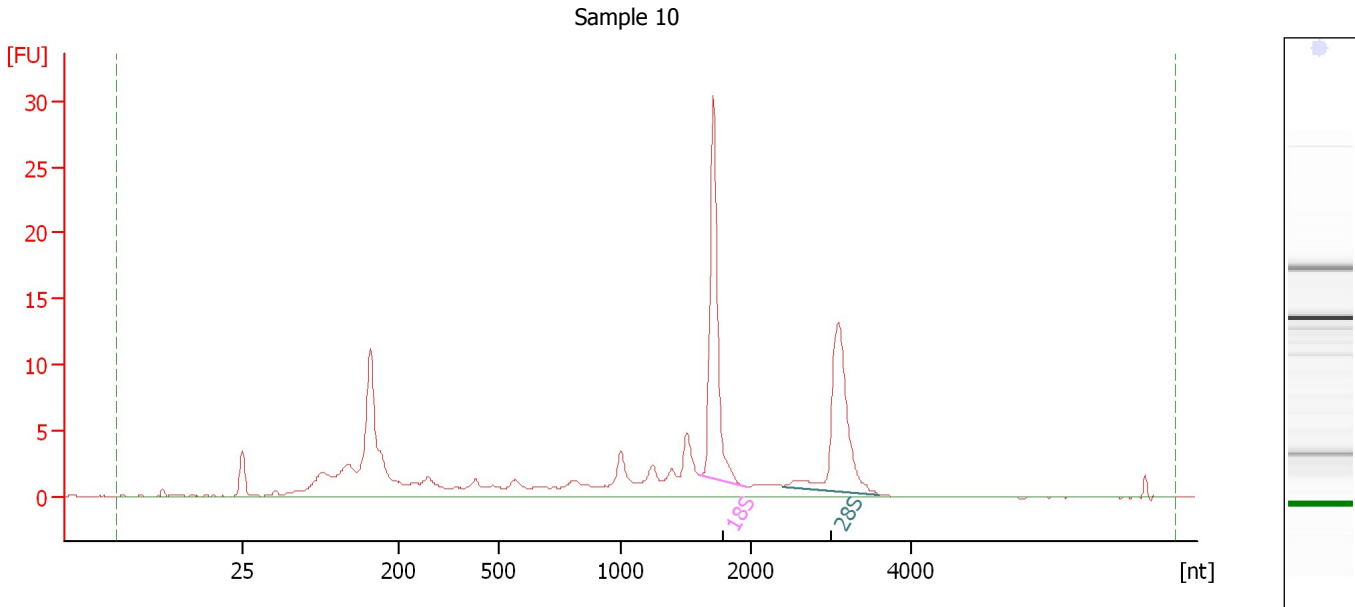
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	1,958	35.0	16.1
28S	2,445	3,693	53.6	24.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area:	141.8	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	146 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]:	0.8	Result Flagging Label:	RIN: 7.20

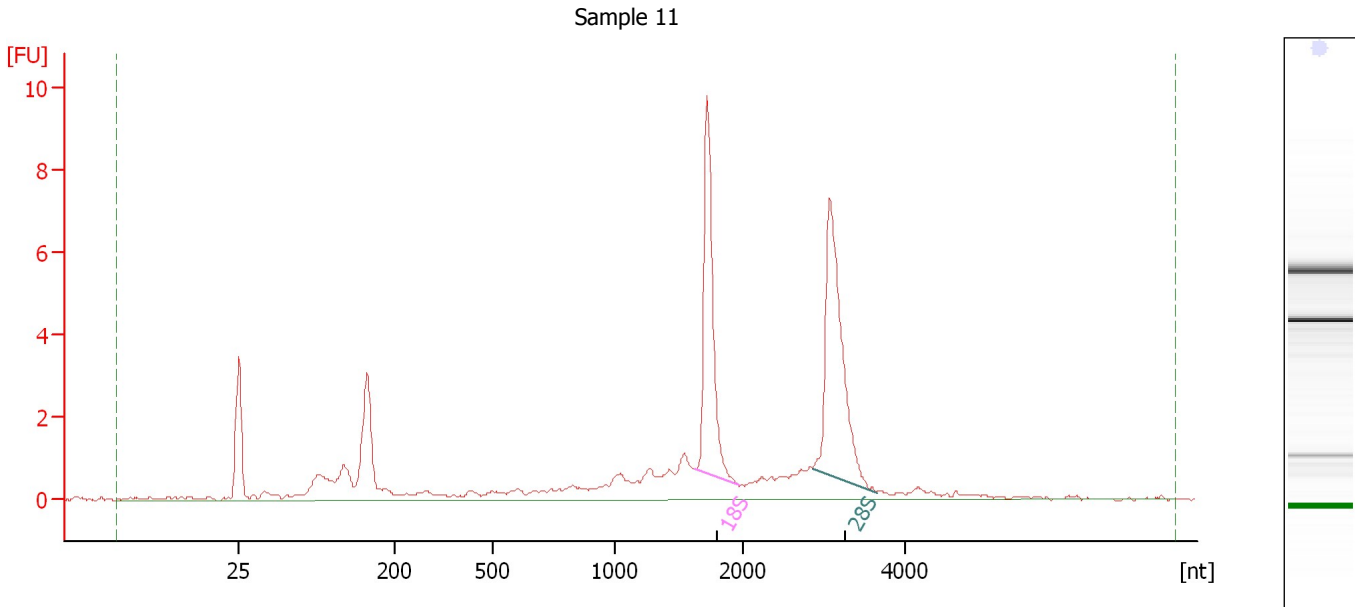
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,980	25.4	17.9
28S	2,418	3,597	20.6	14.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
 Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 11**

RNA Area:	53.1	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	55 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]:	1.2	Result Flagging Label:	RIN: 8.10

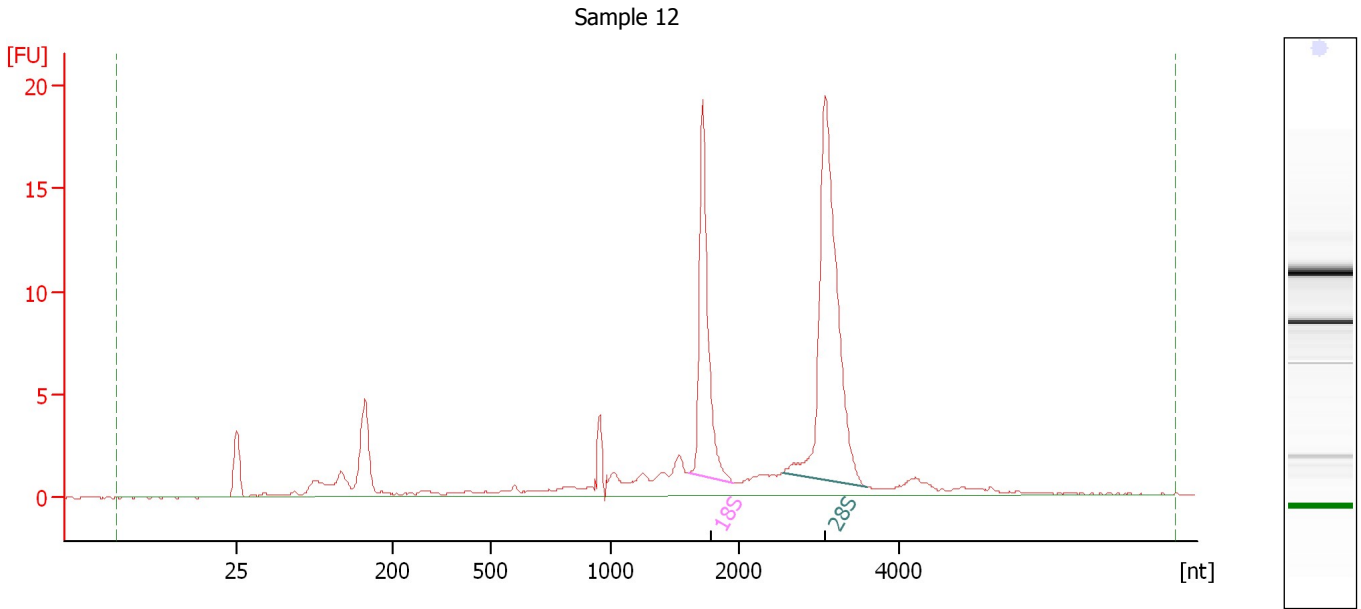
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,962	9.0	17.0
28S	2,858	3,658	11.1	20.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Sample 12**

RNA Area:	99.7	RNA Integrity Number (RIN):	8.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	103 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]:	1.8	Result Flagging Label:	RIN: 8.80

**Fragment table for sample 12 : Sample 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,952	18.1	18.1
28S	2,552	3,582	33.4	33.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-08\2014-01-08\_003.xad

Created: 1/8/2014 3:43:53 PM  
Modified: 1/8/2014 4:33:45 PM

**Gel Image**

