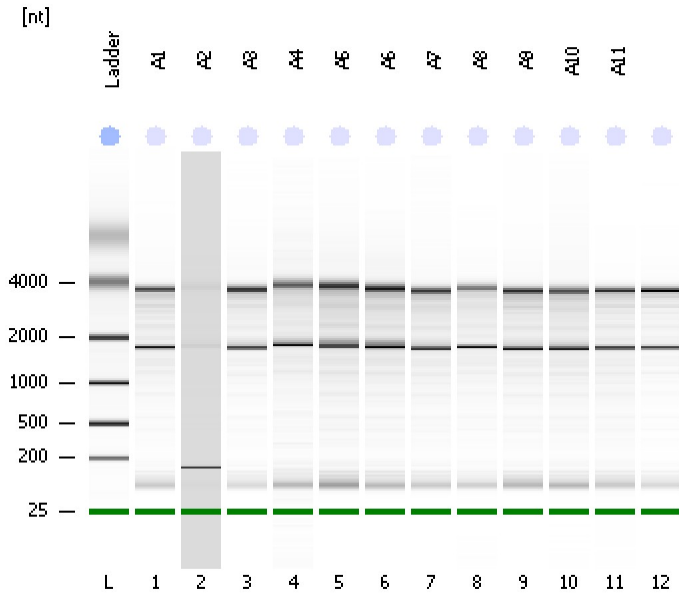


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

Electrophoresis File Run Summary



Instrument Information:

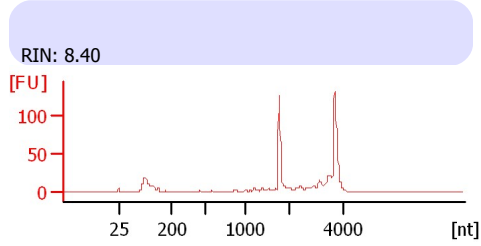
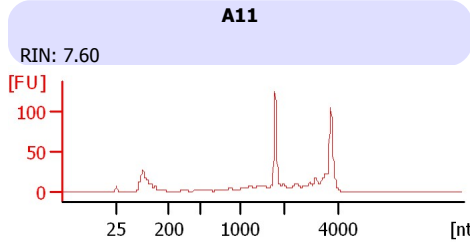
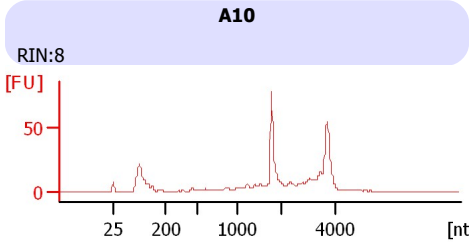
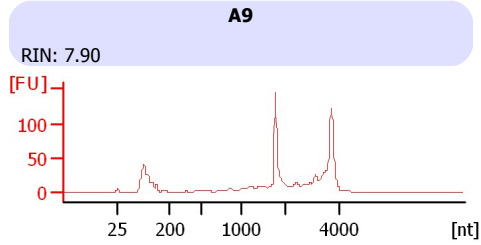
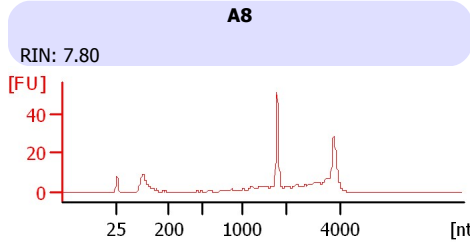
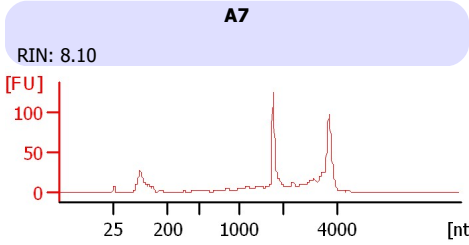
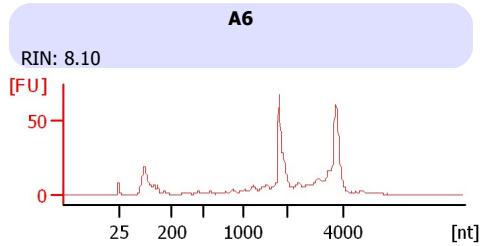
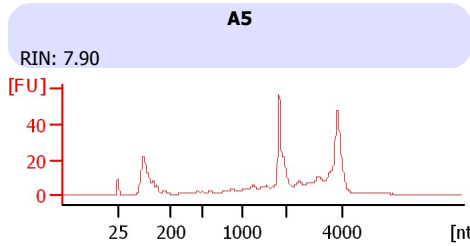
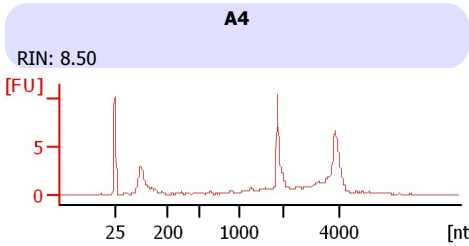
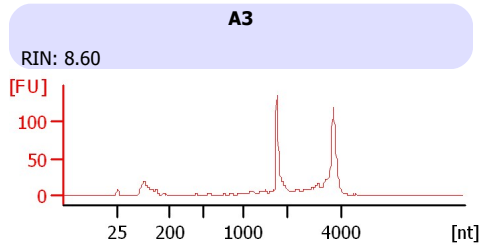
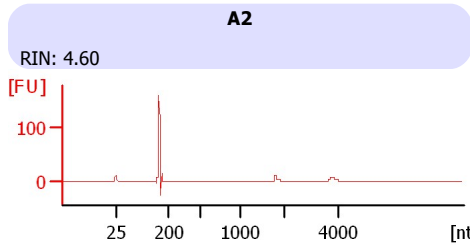
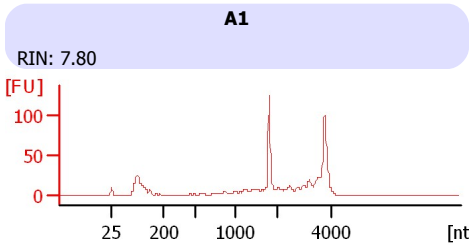
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
 Modified: 11/20/2013 3:02:13 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
A1		✓	RIN: 7.80	
A2		✓	RIN: 4.60	
A3		✓	RIN: 8.60	
A4		✓	RIN: 8.50	
A5		✓	RIN: 7.90	
A6		✓	RIN: 8.10	
A7		✓	RIN: 8.10	
A8		✓	RIN: 7.80	
A9		✓	RIN: 7.90	
A10		✓	RIN:8	
A11		✓	RIN: 7.60	
Ladder		✓	RIN: 8.40	
			All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 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

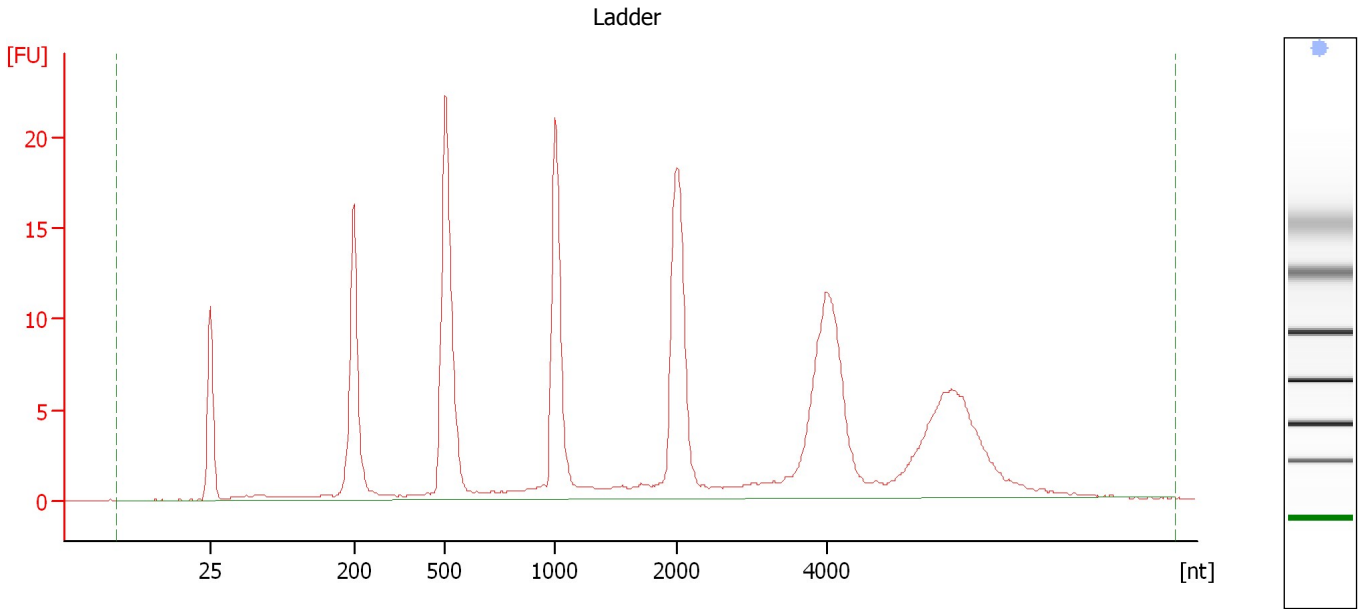
**Ladder**

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\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary**



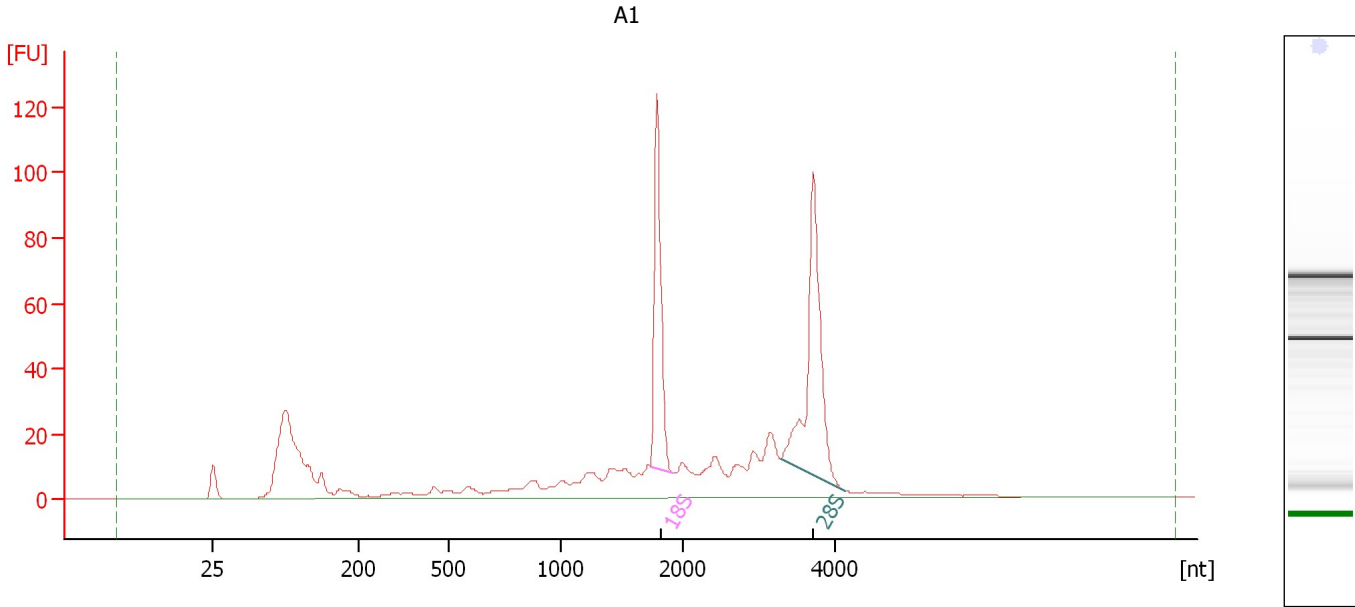
**Overall Results for Ladder**

RNA Area:	209.1	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\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A1**

RNA Area:	666.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	478 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]:	1.4	Result Flagging Label:	RIN: 7.80

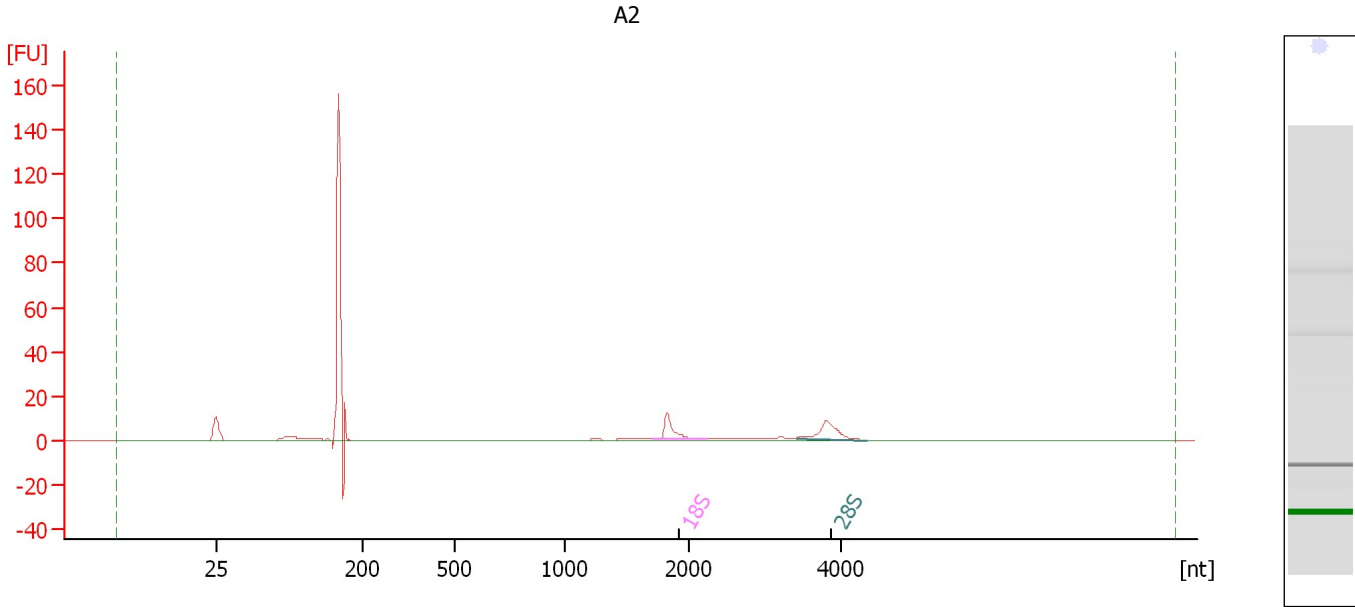
**Fragment table for sample 1 : A1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	1,915	89.4	13.4
28S	3,286	4,132	125.6	18.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
 Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : A2**

RNA Area:	179.2	RNA Integrity Number (RIN):	4.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	129 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]:	1.1	Result Flagging Label:	RIN: 4.60

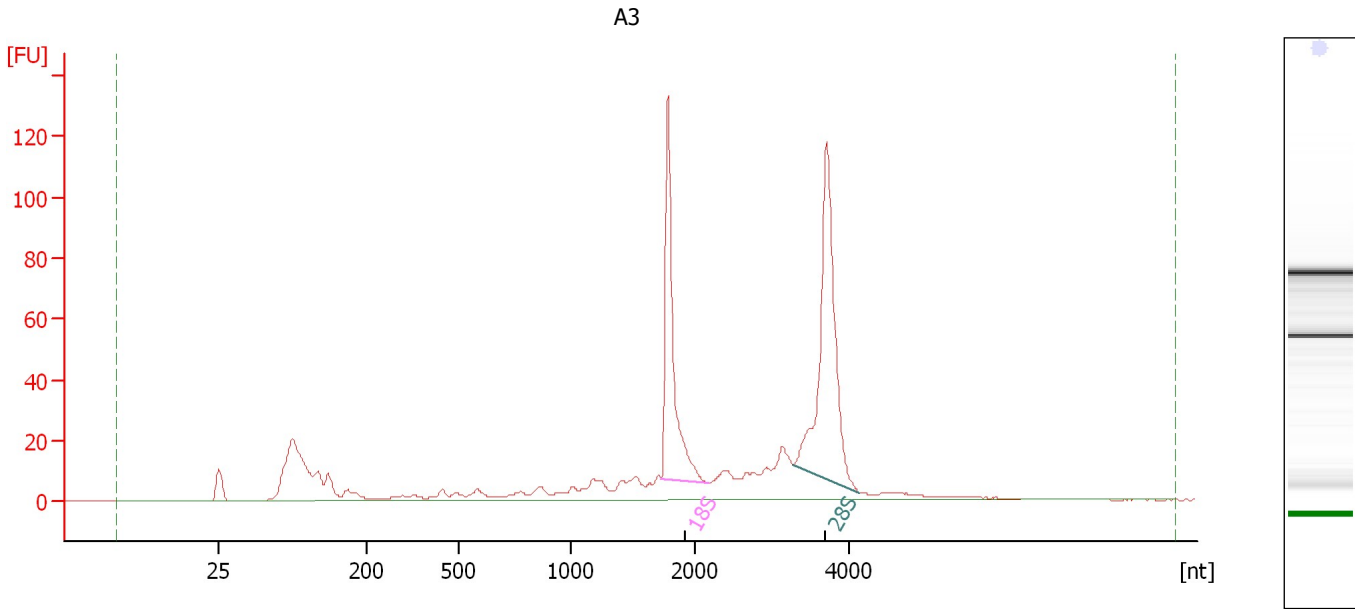
**Fragment table for sample 2 : A2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	2,245	13.1	7.3
28S	3,407	4,318	14.0	7.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A3**

RNA Area:	677.8	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	486 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]:	1.4	Result Flagging Label:	RIN: 8.60

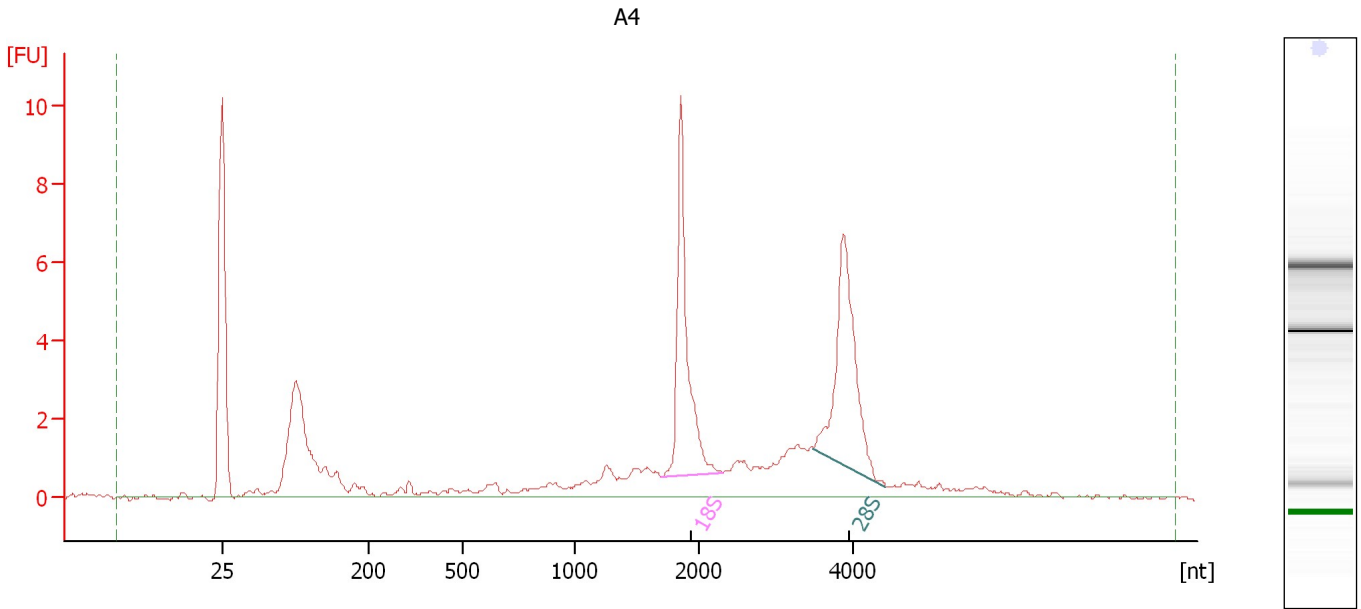
**Fragment table for sample 3 : A3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,177	121.1	17.9
28S	3,277	4,140	166.3	24.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : A4**

RNA Area: 67.1                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 48 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 8.50

**Fragment table for sample 4 : A4**

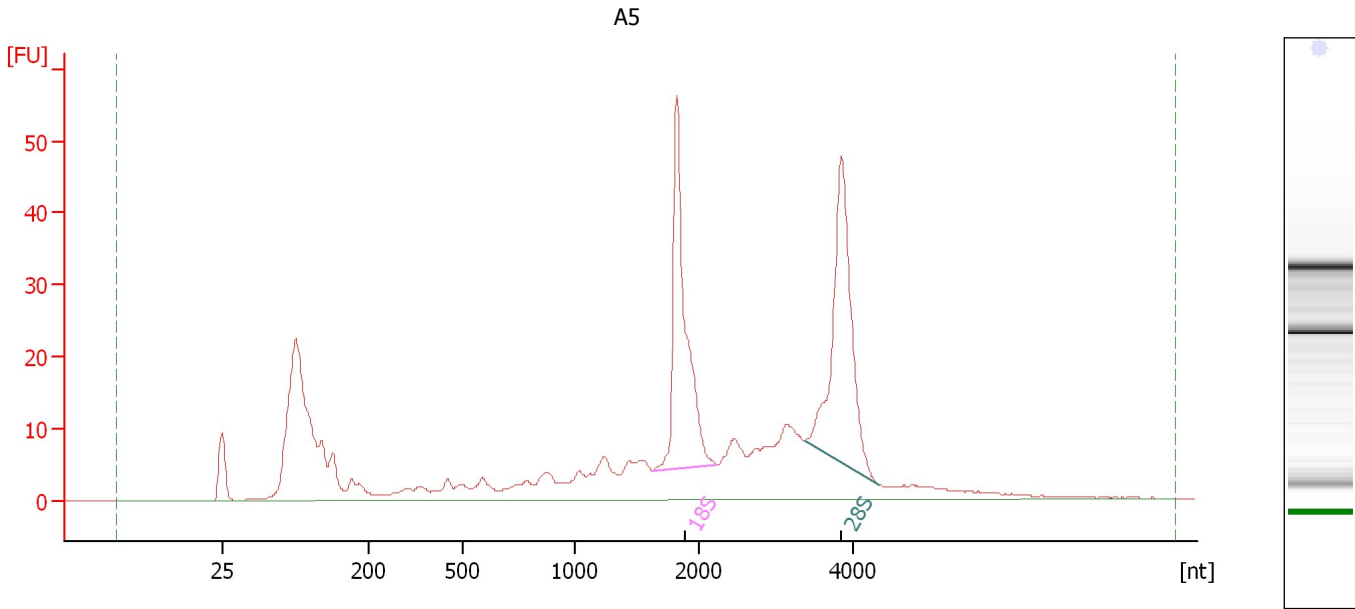
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,690	2,317	10.8	16.0
28S	3,482	4,411	11.1	16.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A5**

RNA Area: 500.2                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 359 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1              Result Flagging Label: RIN: 7.90

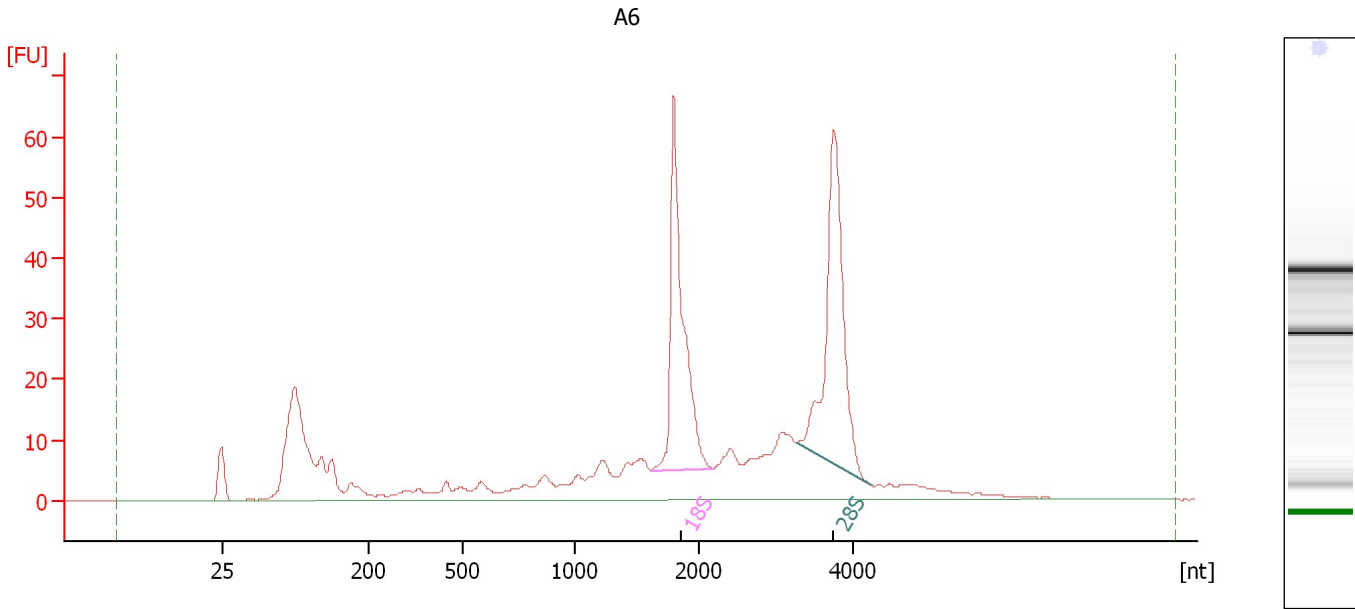
**Fragment table for sample 5 : A5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,234	71.8	14.3
28S	3,357	4,342	79.2	15.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : A6**

RNA Area: 523.3                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 375 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1              Result Flagging Label: RIN: 8.10

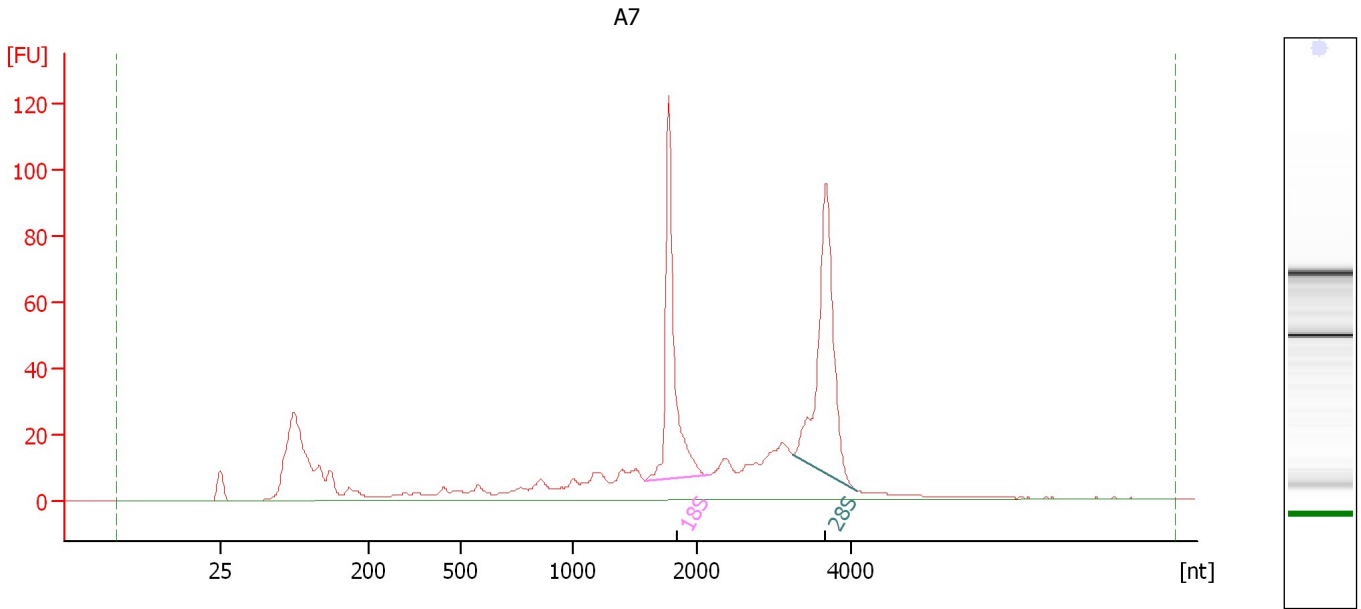
**Fragment table for sample 6 : A6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	2,179	85.8	16.4
28S	3,260	4,217	95.8	18.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A7**

RNA Area: 715.6                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 513 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 8.10

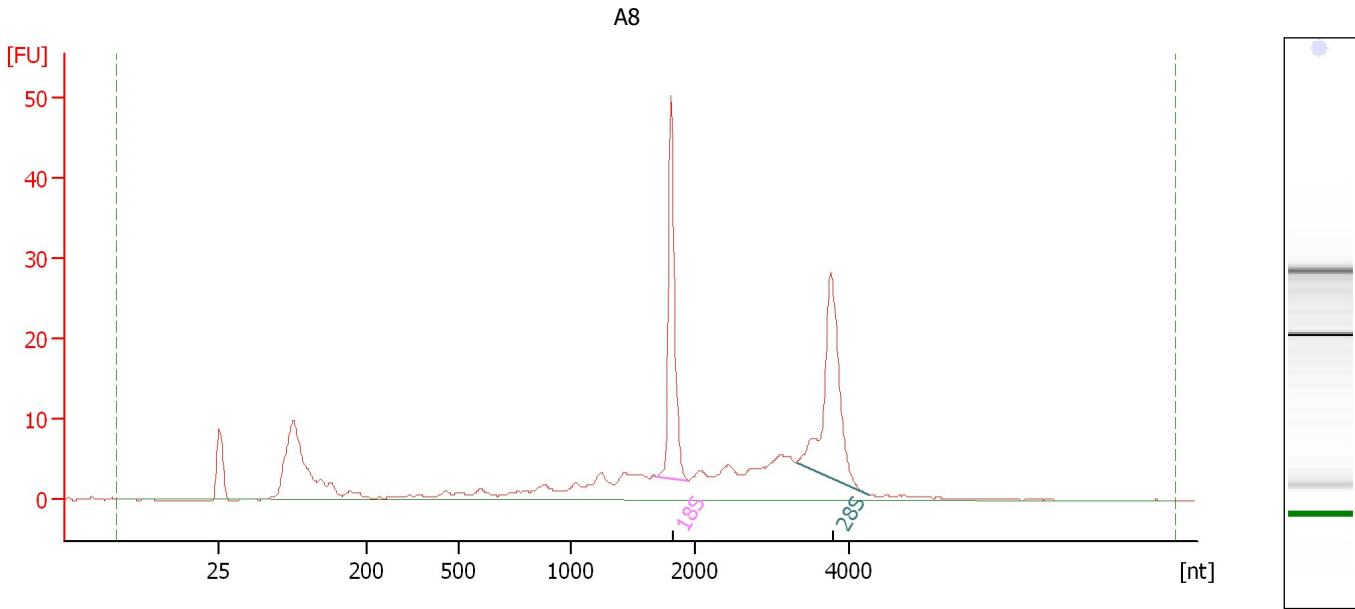
**Fragment table for sample 7 : A7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	2,150	117.4	16.4
28S	3,248	4,081	138.3	19.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : A8**

RNA Area:	232.5	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	167 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]:	1.1	Result Flagging Label:	RIN: 7.80

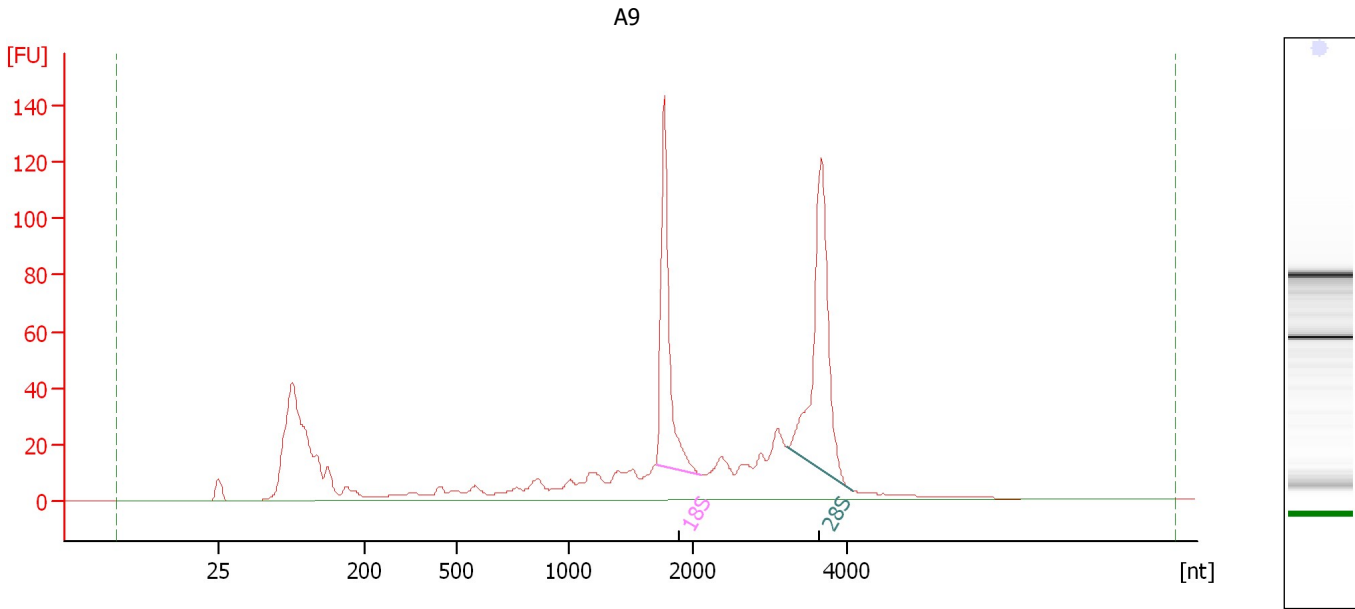
**Fragment table for sample 8 : A8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,946	36.2	15.6
28S	3,319	4,251	40.0	17.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : A9**

RNA Area: 911.7                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 654 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 7.90

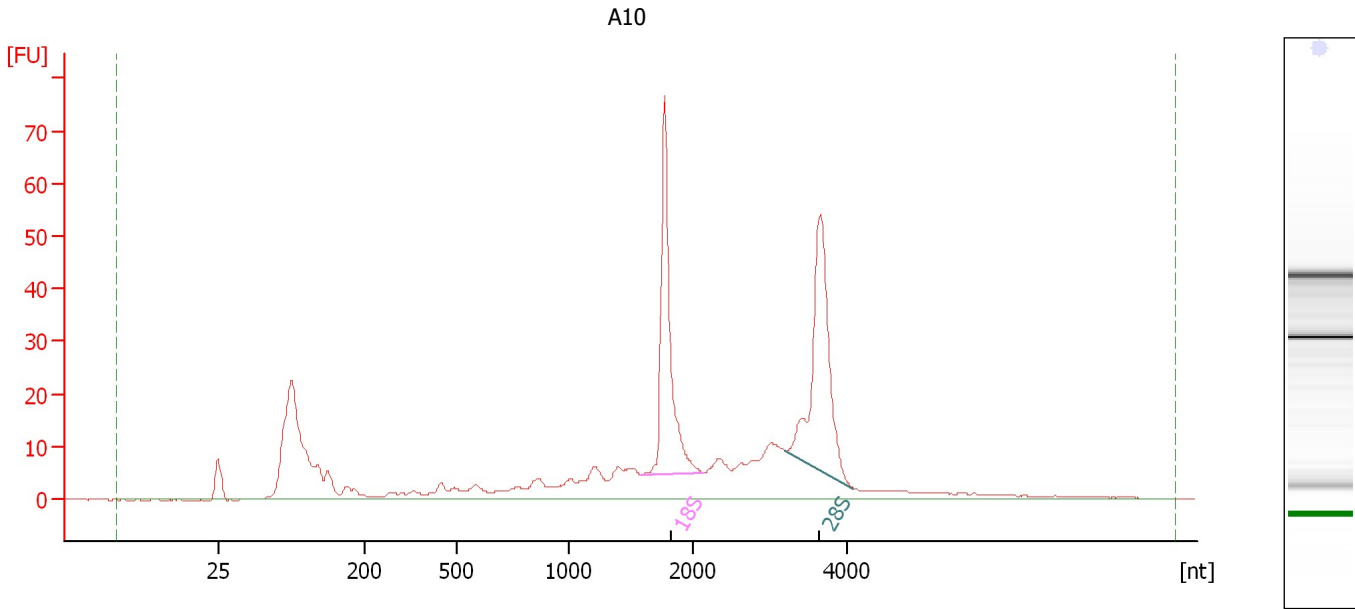
**Fragment table for sample 9 : A9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,093	124.2	13.6
28S	3,223	4,074	165.6	18.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
 Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A10**

RNA Area:	475.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	341 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]:	1.1	Result Flagging Label:	RIN:8

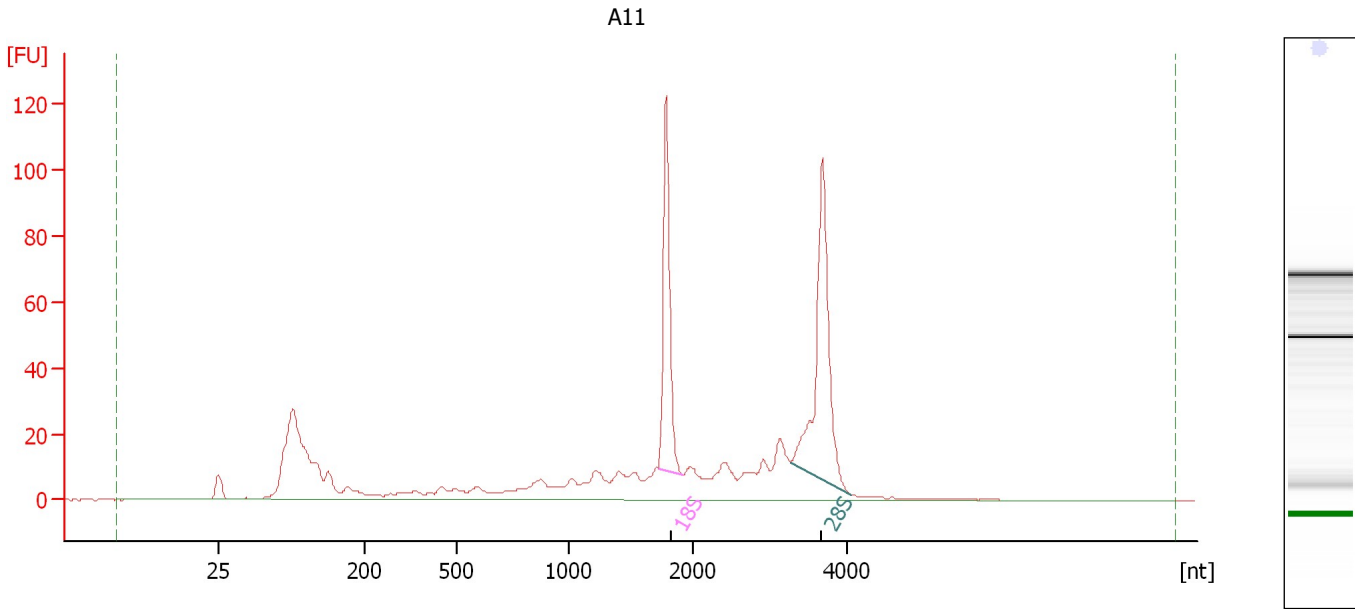
**Fragment table for sample 10 : A10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	2,134	76.5	16.1
28S	3,209	4,087	81.9	17.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A11**

RNA Area: 673.6                      RNA Integrity Number (RIN): 7.6 (B.02.08)  
RNA Concentration: 483 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 7.60

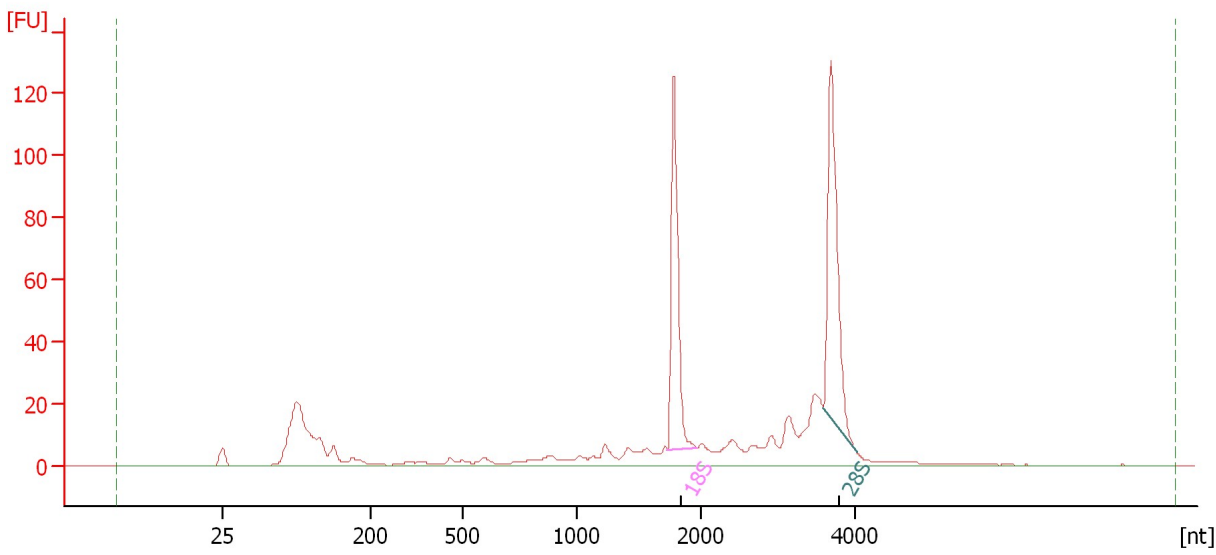
**Fragment table for sample 11 : A11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,721	1,910	90.5	13.4
28S	3,264	4,060	123.7	18.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 :**

RNA Area:	546.2	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	392 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: 8.40

**Fragment table for sample 12 :**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	1,965	92.2	16.9
28S	3,577	4,006	109.4	20.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20\_003.xad

Created: 11/20/2013 2:24:16 PM  
Modified: 11/20/2013 3:02:13 PM

**Gel Image**

