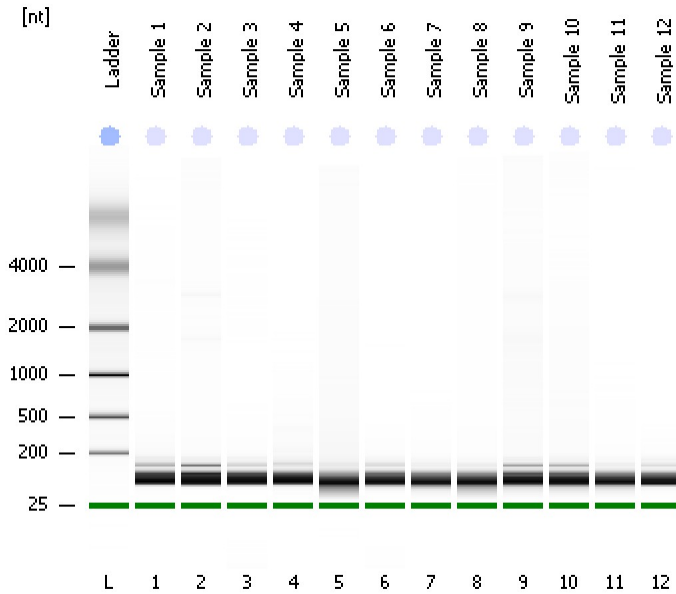


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

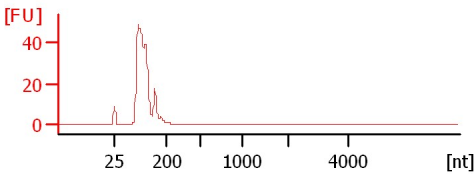
Assay Information:

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.

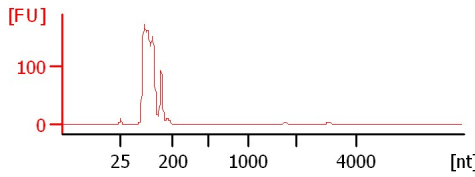
Chip Information:

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

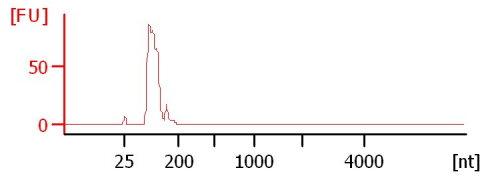
**Sample 1**  
RIN: 2.60



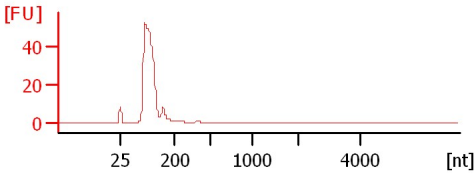
**Sample 2**  
RIN: 2.60



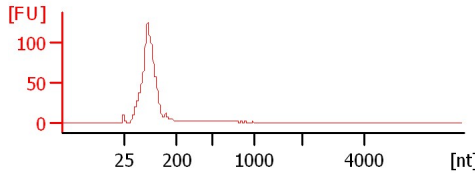
**Sample 3**  
RIN: 2.60



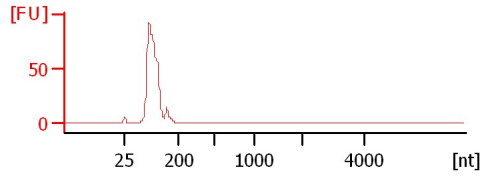
**Sample 4**  
RIN: 2.50



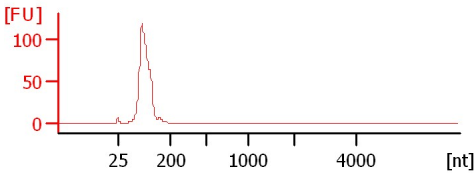
**Sample 5**  
RIN: 2.50



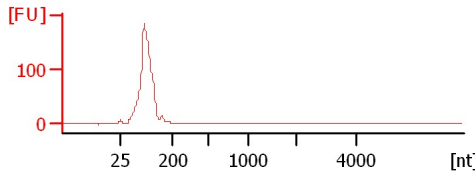
**Sample 6**  
RIN: 2.60



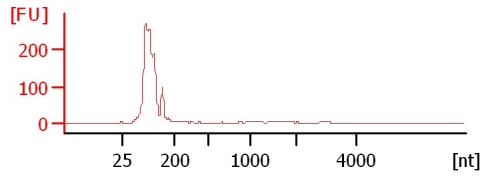
**Sample 7**  
RIN: 2.60



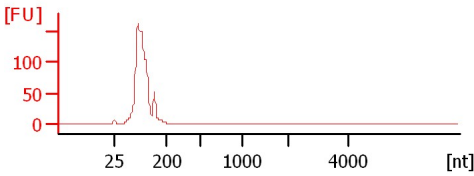
**Sample 8**  
RIN: 2.50



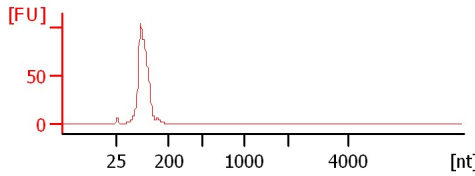
**Sample 9**  
RIN: 2.50



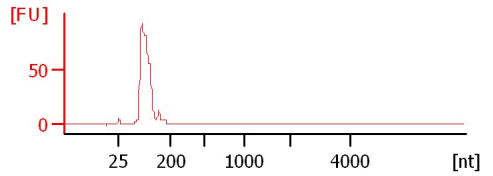
**Sample 10**  
RIN: 2.50



**Sample 11**  
RIN: 2.60



**Sample 12**  
RIN: 2.60



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 2.60	
Sample 2		✓	RIN: 2.60	
Sample 3		✓	RIN: 2.60	
Sample 4		✓	RIN: 2.50	
Sample 5		✓	RIN: 2.50	
Sample 6		✓	RIN: 2.60	
Sample 7		✓	RIN: 2.60	
Sample 8		✓	RIN: 2.50	
Sample 9		✓	RIN: 2.50	
Sample 10		✓	RIN: 2.50	
Sample 11		✓	RIN: 2.60	
Sample 12		✓	RIN: 2.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 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

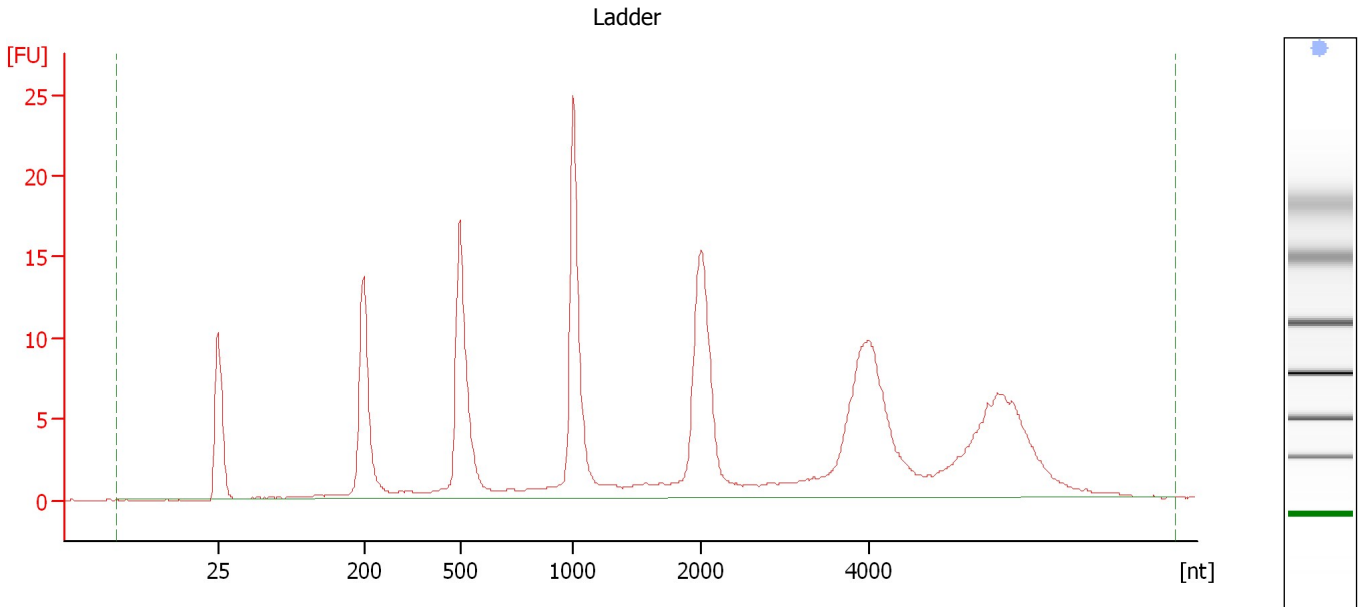
### Ladder

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\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary**



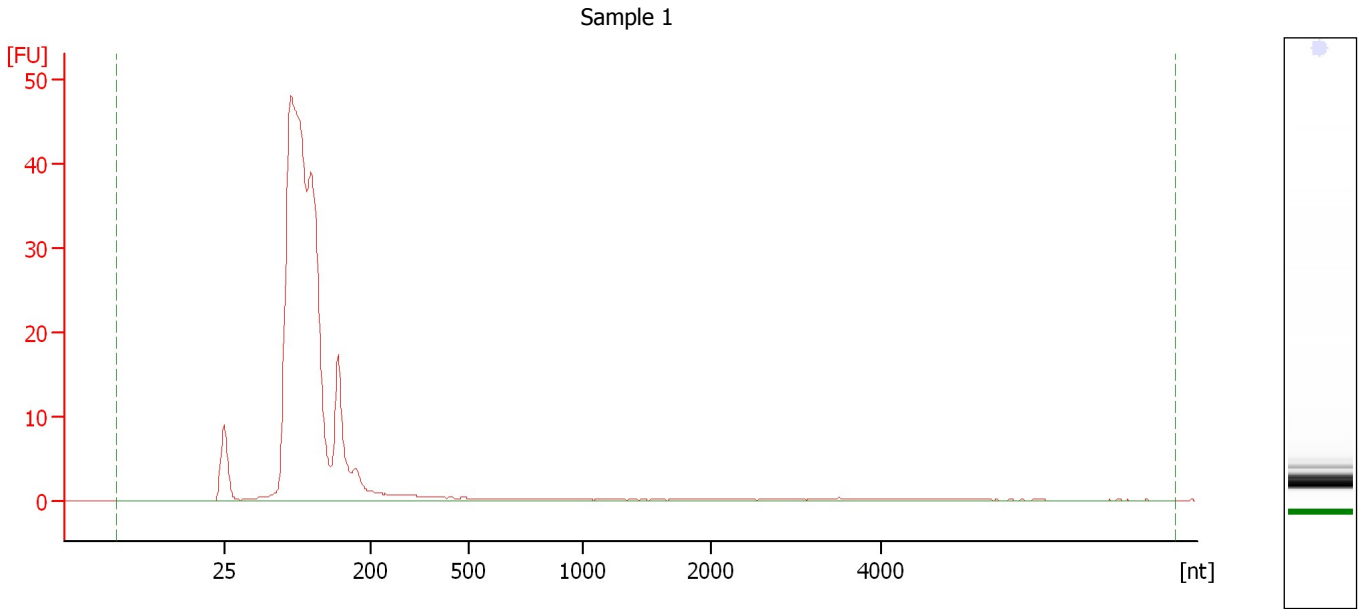
**Overall Results for Ladder**

RNA Area:	215.9	Result Flagging Color:	<span style="background-color: blue; color: blue;"> </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\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**



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

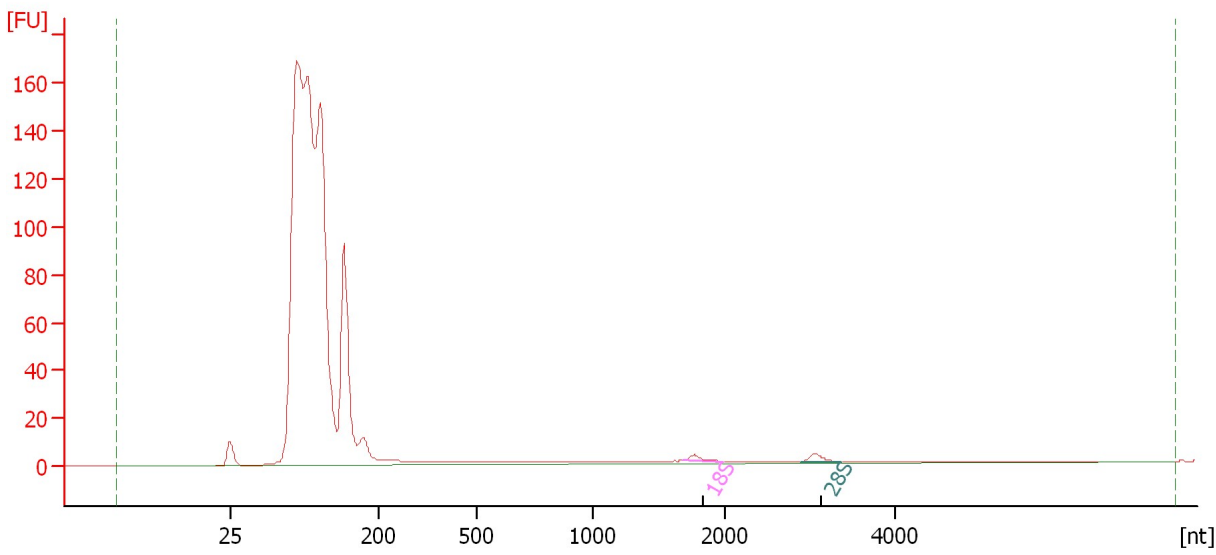
RNA Area:	311.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	216 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 2



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

RNA Area:	1,161.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	807 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: 2.60

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

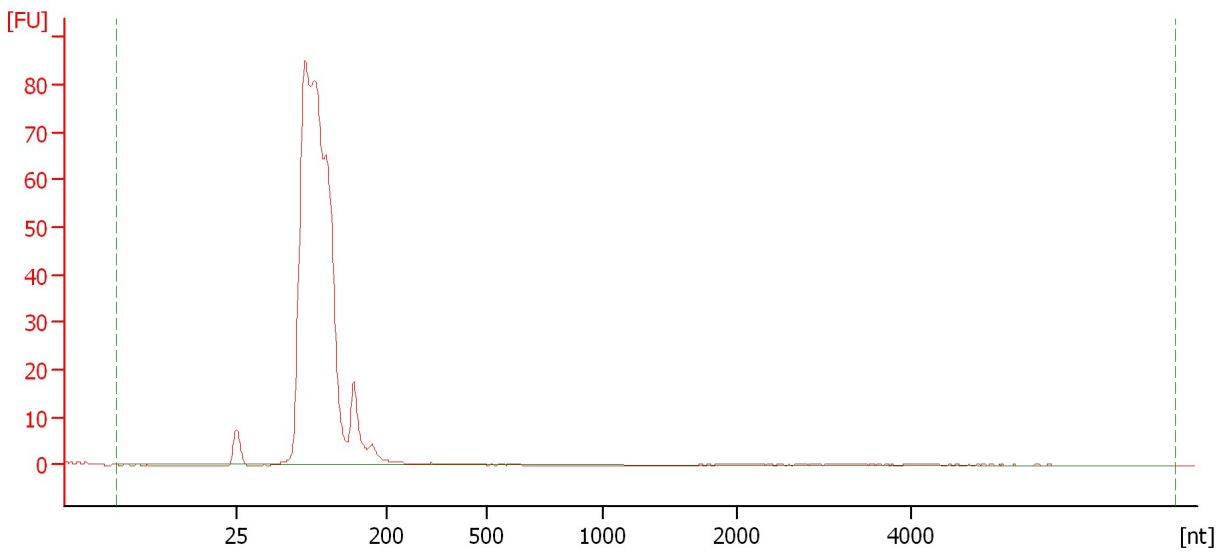
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,997	3.2	0.3
28S	2,893	3,367	4.4	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 3



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

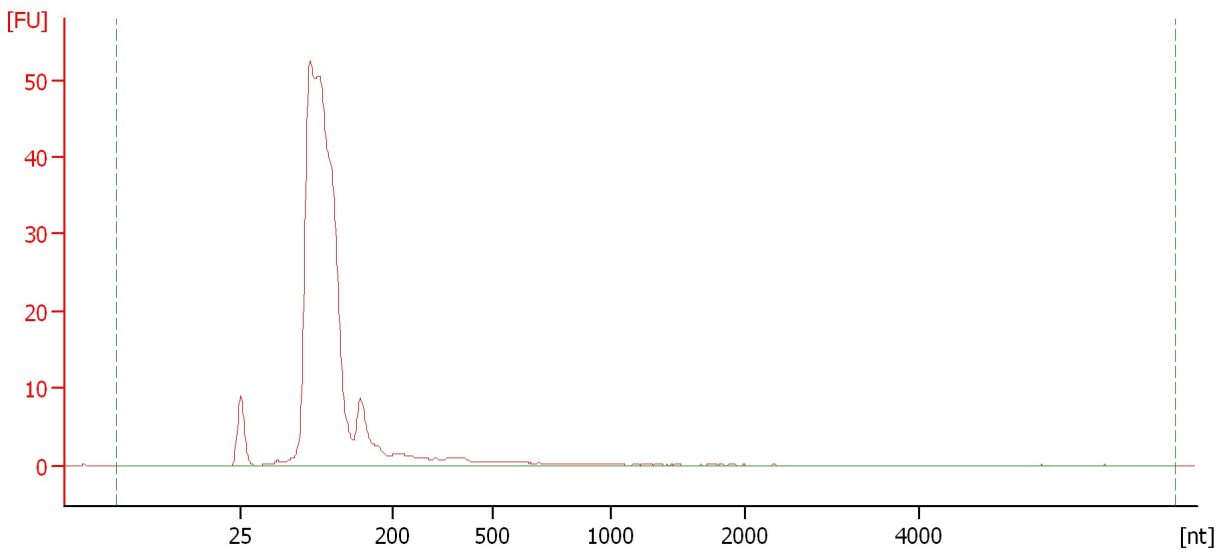
RNA Area:	491.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	342 ng/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 4



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

RNA Area:	312.3	RNA Integrity Number (RIN):	2.5 (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: 2.50

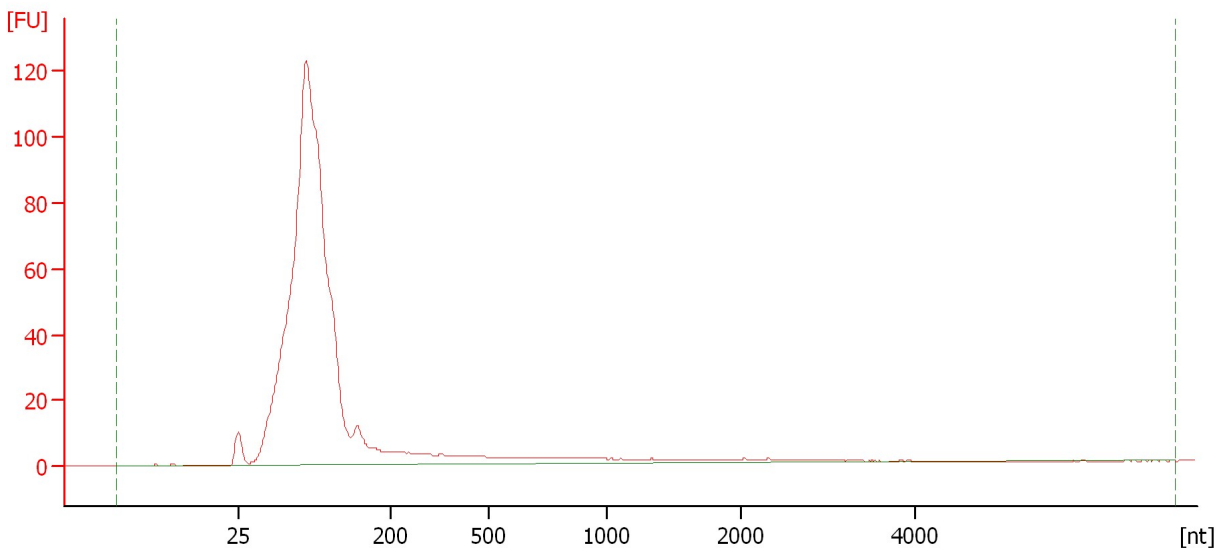


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 5



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

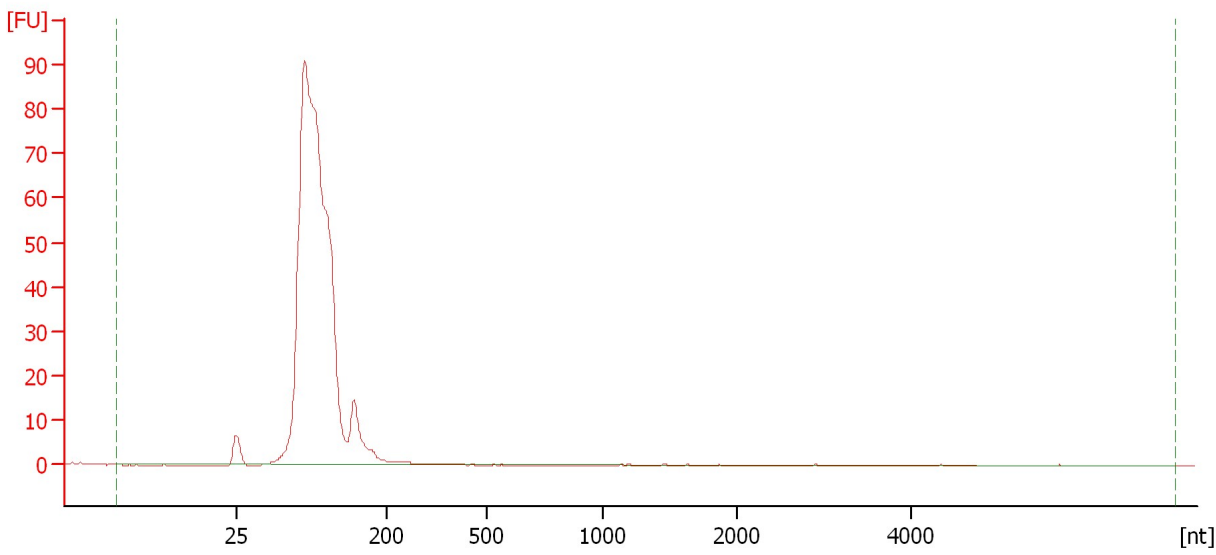
RNA Area:	919.7	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	639 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 6



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

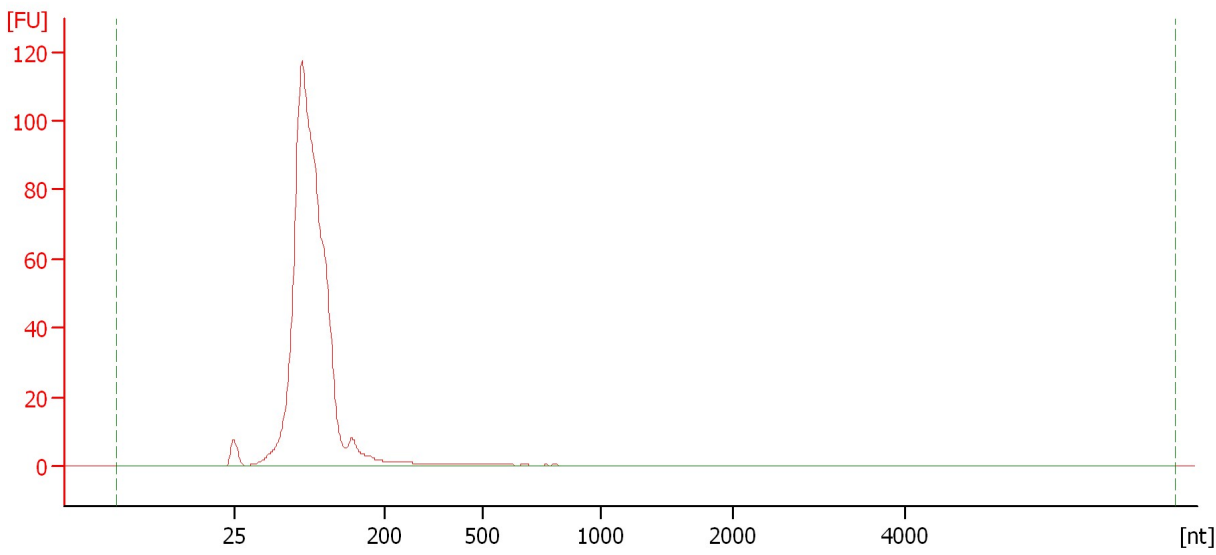
RNA Area:	510.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	355 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 7



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

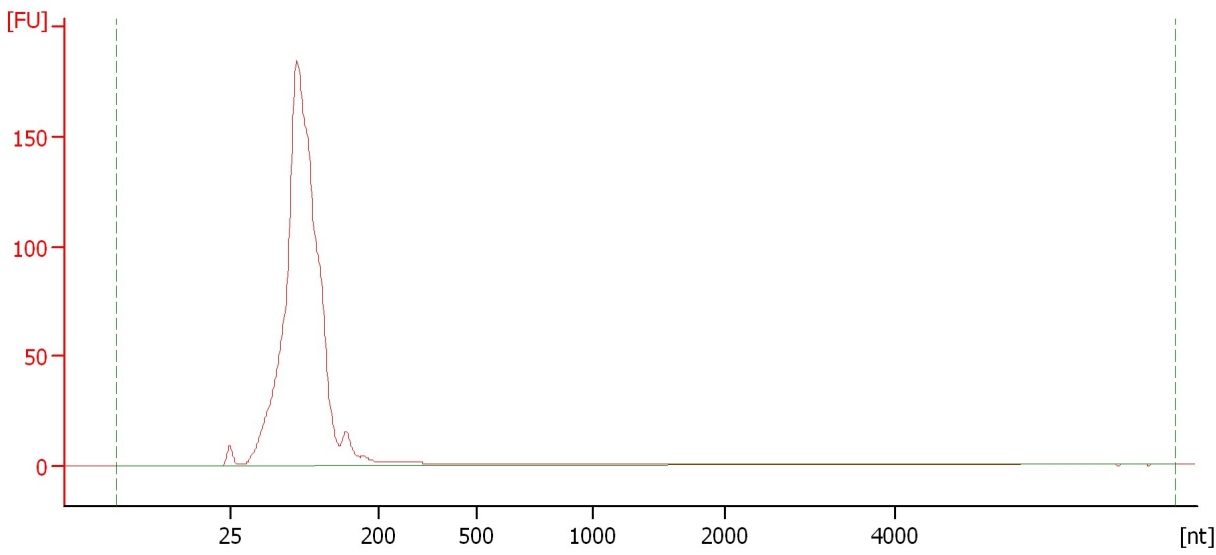
RNA Area:	656.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	456 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 8



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

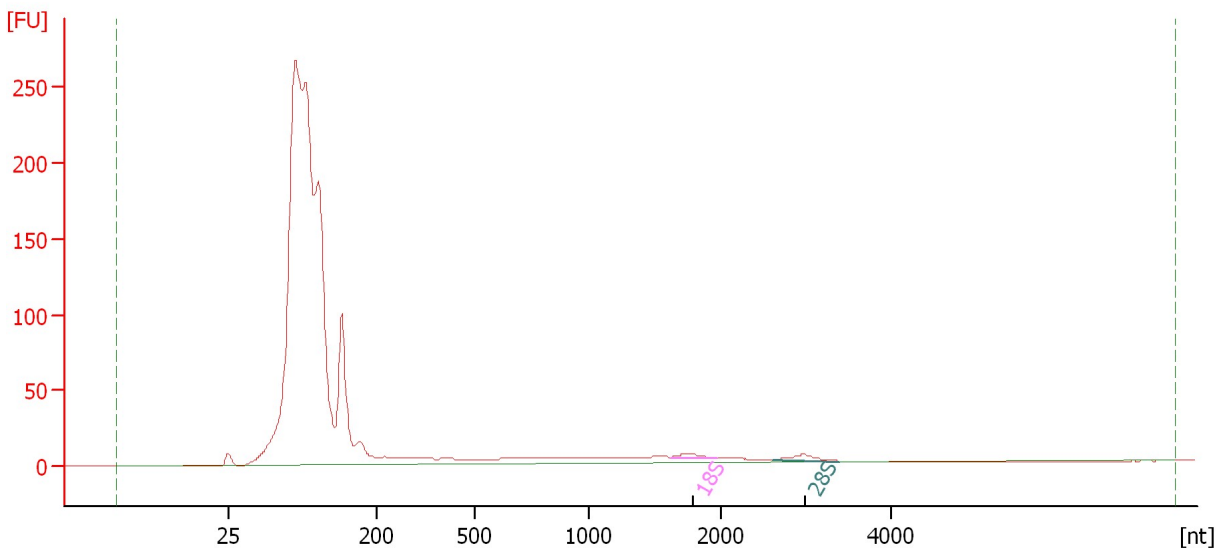
RNA Area:	1,174.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	816 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 9



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

RNA Area: 1,894.4                      RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 1,316 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 2.50

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

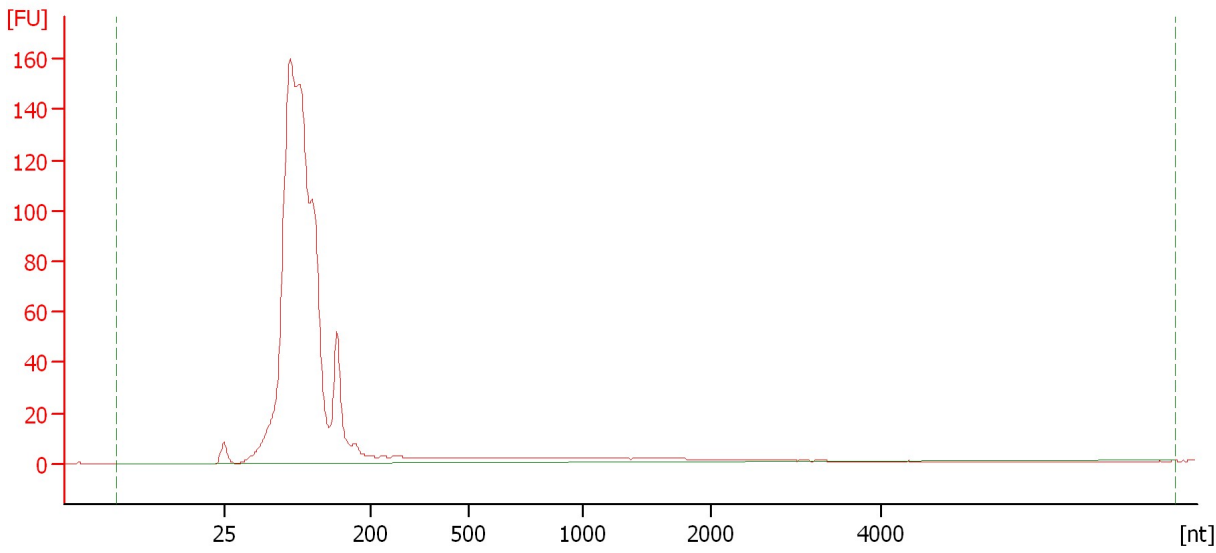
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,972	5.5	0.3
28S	2,620	3,395	8.5	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 10



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

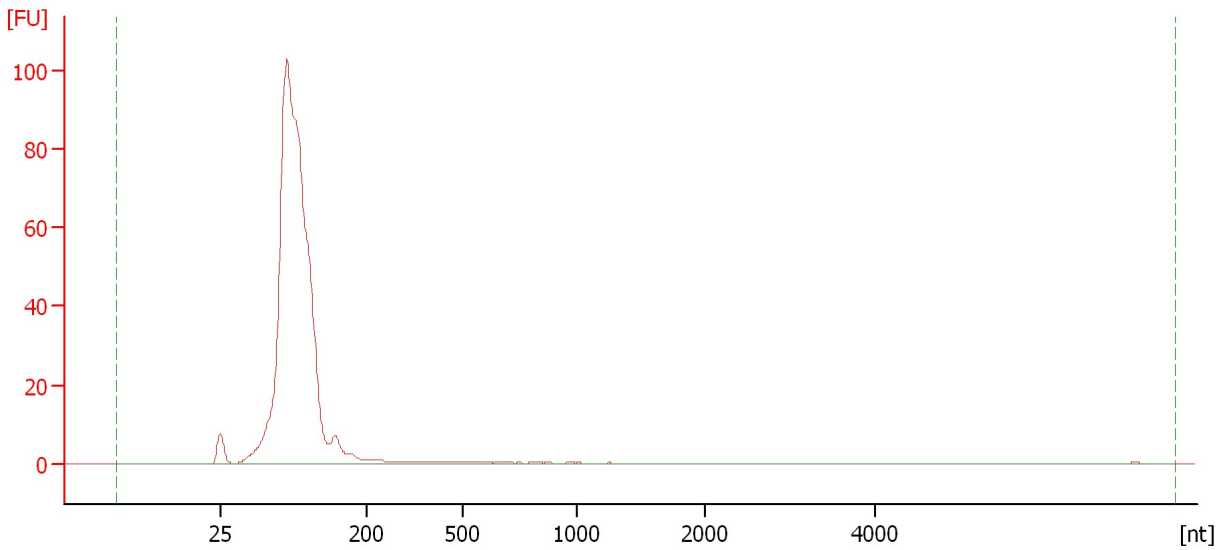
RNA Area:	1,085.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	755 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 11



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

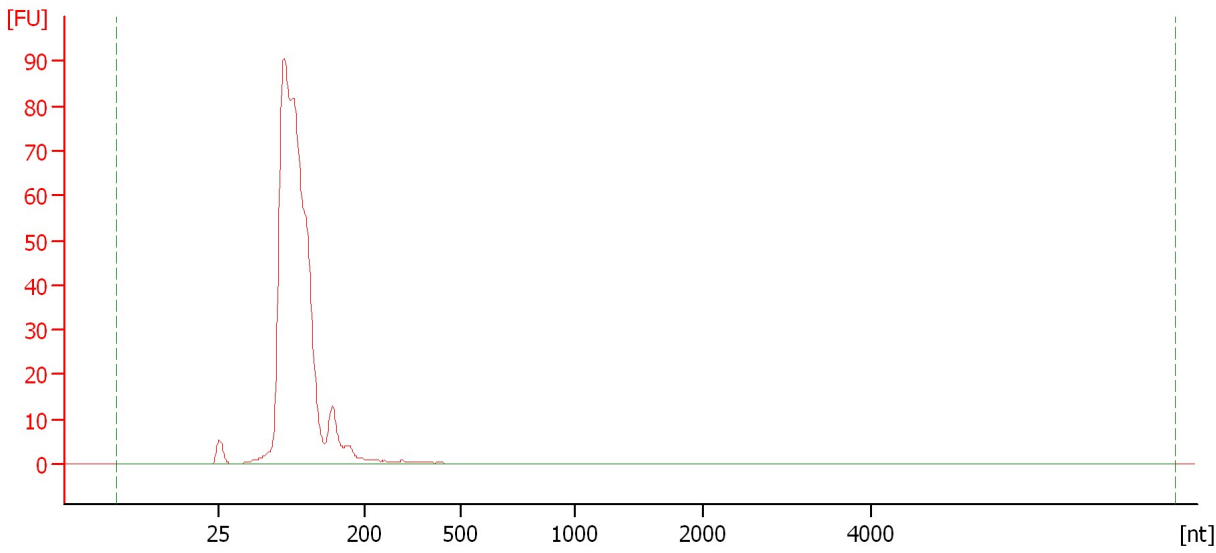
RNA Area:	563.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	392 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Electropherogram Summary Continued ...**

Sample 12



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

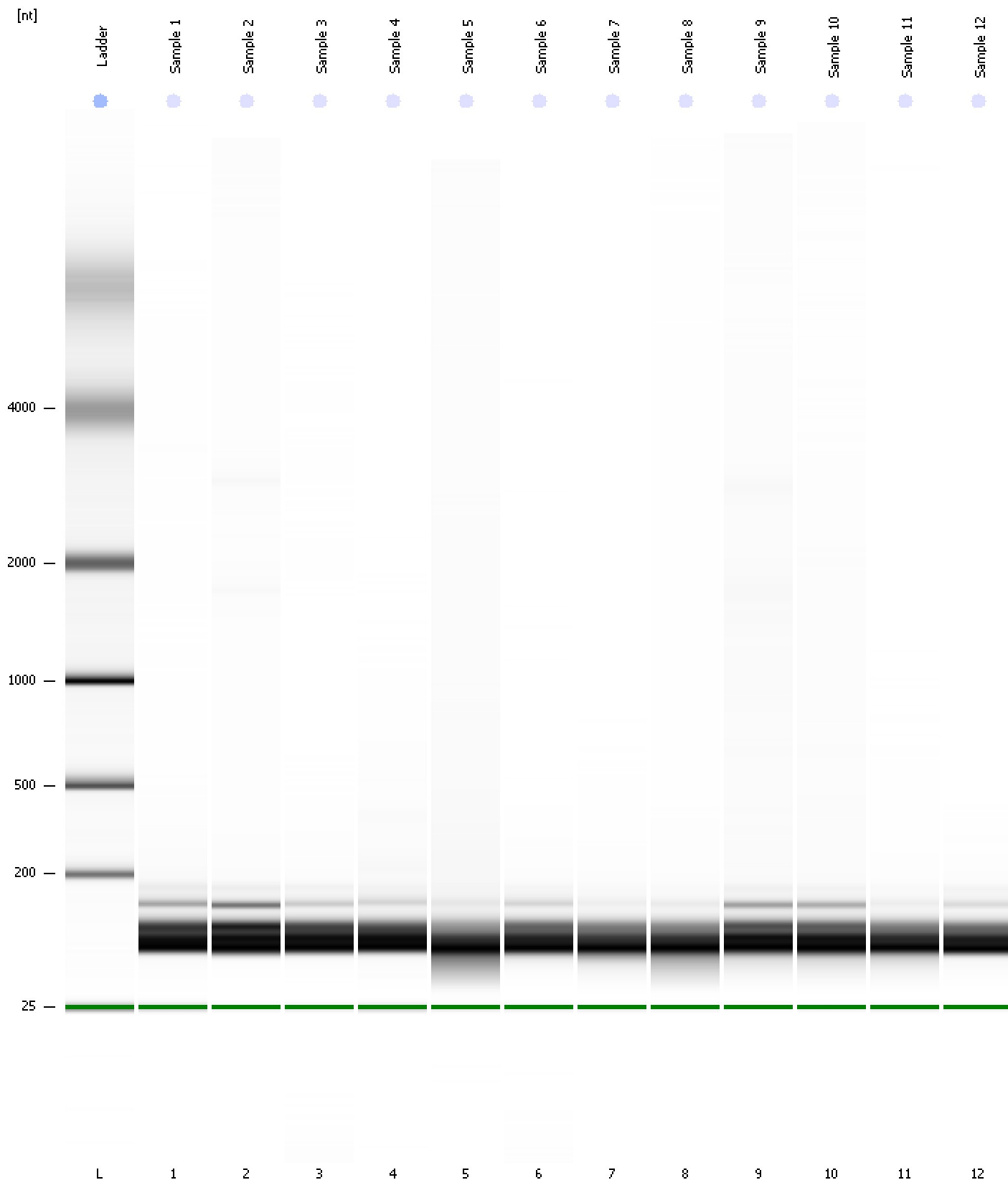
RNA Area:	489.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	340 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
Modified: 7/31/2013 12:21:35 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-31\2013-07-31\_003.xad

Created: 7/31/2013 11:57:47 AM  
 Modified: 7/31/2013 12:21:35 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		7/31/2013 12:21:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-31\2013-07-31_003.xad)		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/31/2013 11:57:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1