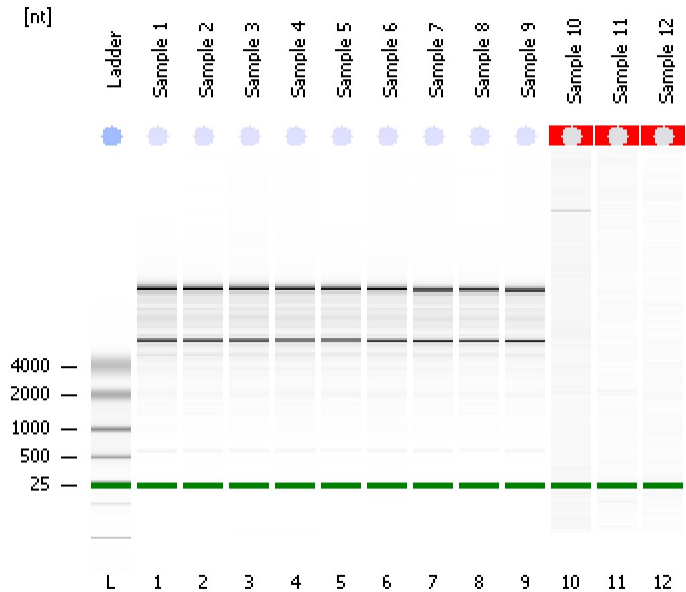


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

Electrophoresis File Run Summary



Instrument Information:

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

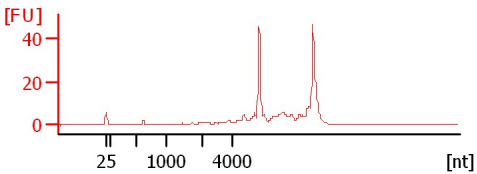
Assay Information:

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.

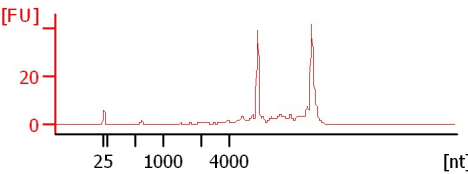
Chip Information:

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

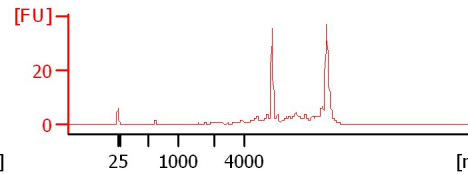
Sample 1  
RIN: 8.30



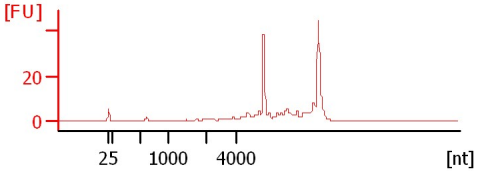
Sample 2  
RIN: 8.80



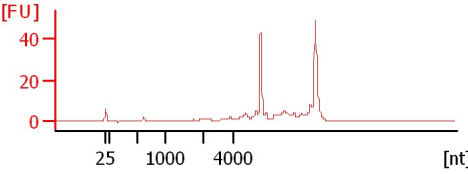
Sample 3  
RIN: 8.70



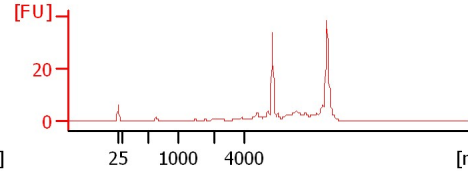
Sample 4  
RIN: 8



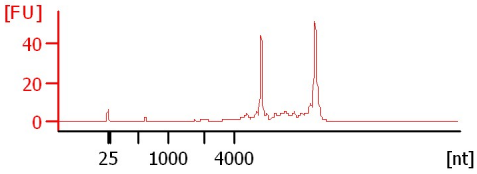
Sample 5  
RIN: 8.50



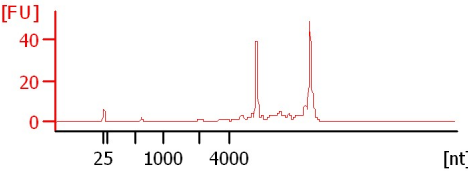
Sample 6  
RIN: 8.70



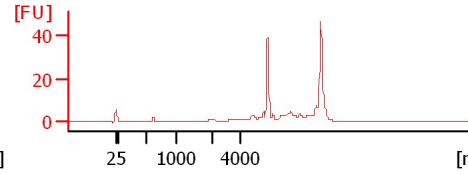
Sample 7  
RIN: 8.60



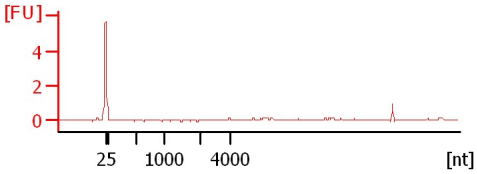
Sample 8  
RIN: 9



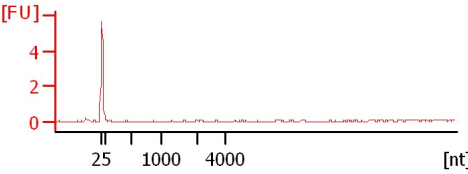
Sample 9  
RIN: 9



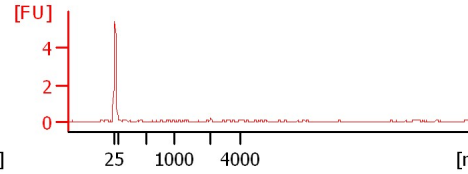
Sample 10  
RIN N/A



Sample 11  
RIN N/A



Sample 12  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.30	
Sample 2		✓	RIN: 8.80	
Sample 3		✓	RIN: 8.70	
Sample 4		✓	RIN:8	
Sample 5		✓	RIN: 8.50	
Sample 6		✓	RIN: 8.70	
Sample 7		✓	RIN: 8.60	
Sample 8		✓	RIN:9	
Sample 9		✓	RIN:9	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 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

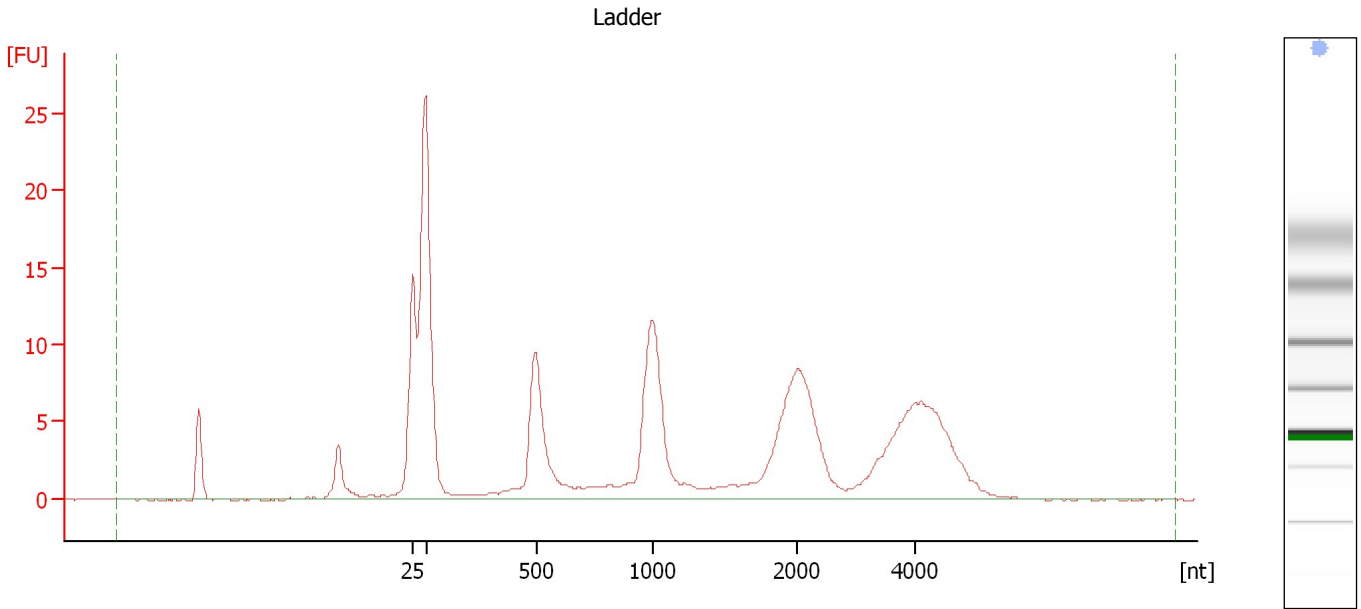
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary**



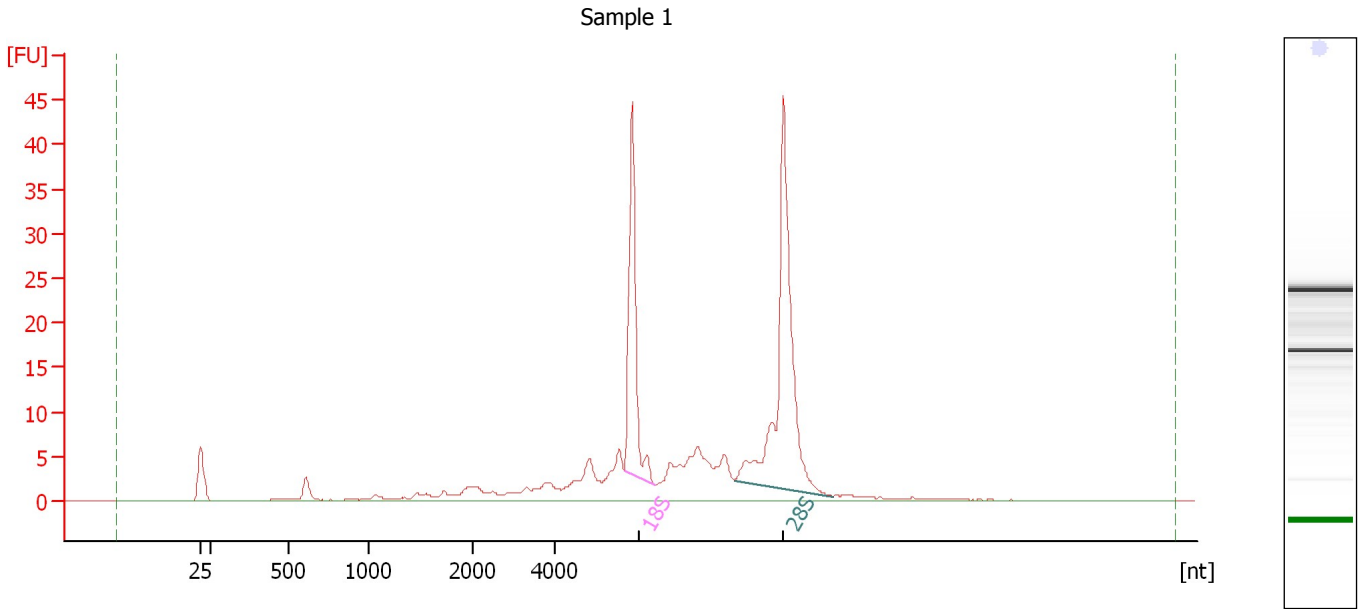
**Overall Results for Ladder**

RNA Area:	190.2	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\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	201.6	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	159 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: 8.30

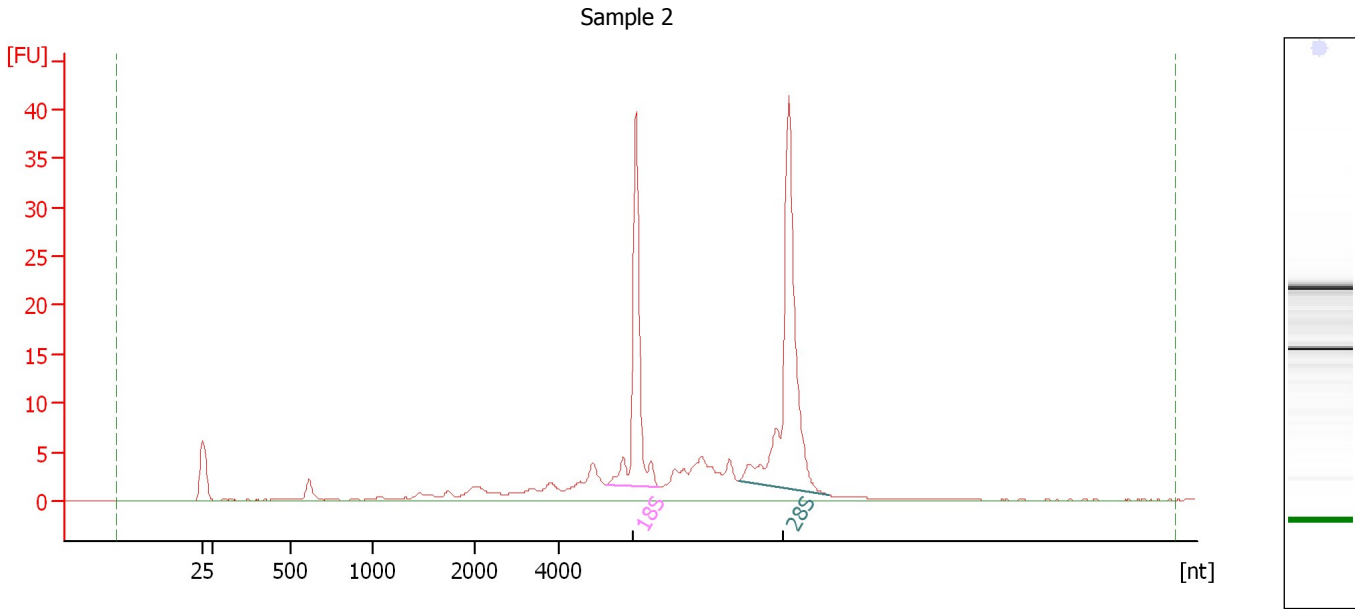
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,694	6,444	34.5	17.1
28S	8,357	10,736	61.1	30.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	167.3	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	132 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

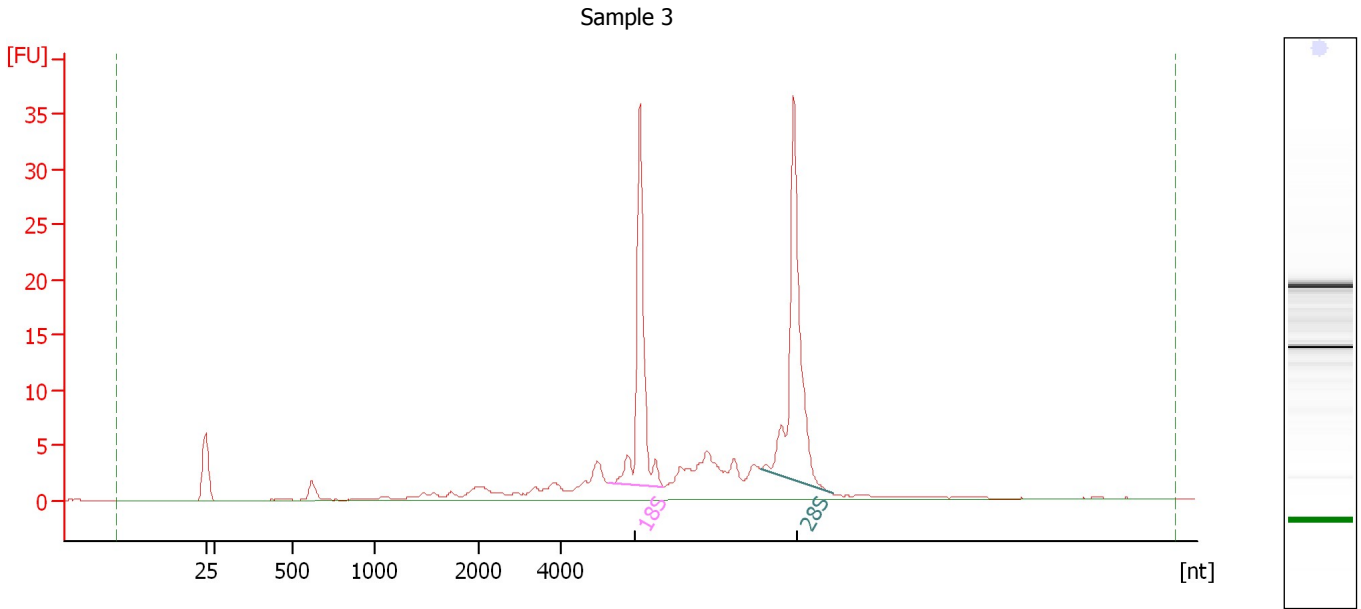
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,161	6,423	34.5	20.6
28S	8,354	10,542	51.6	30.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	143.1	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	113 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]:	1.3	Result Flagging Label:	RIN: 8.70

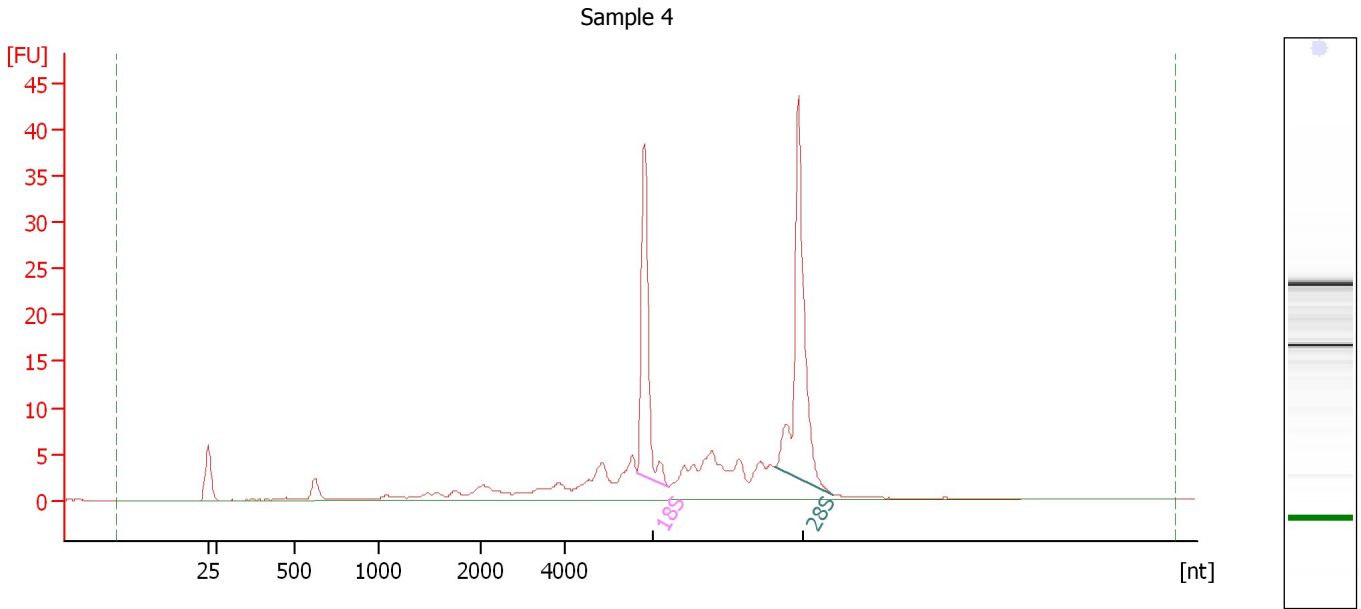
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,146	6,428	30.7	21.5
28S	8,761	10,504	38.7	27.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	173.4	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	137 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

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

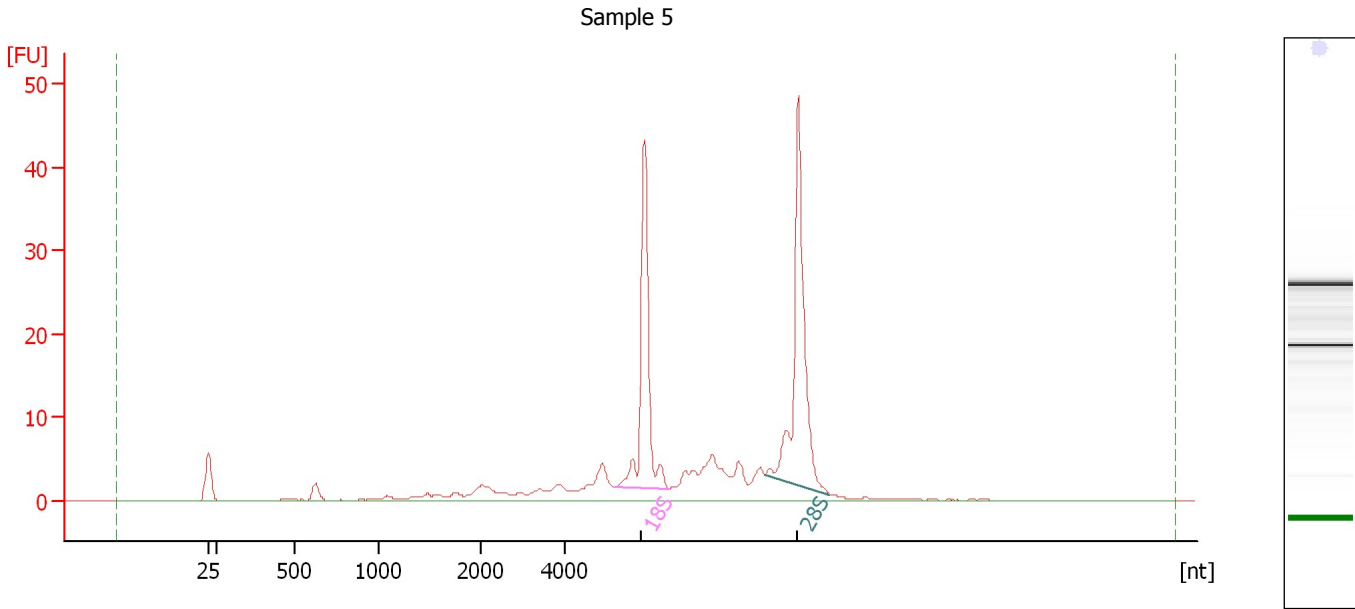
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,718	6,458	28.6	16.5
28S	8,986	10,390	41.8	24.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	176.2	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	139 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]:	1.3	Result Flagging Label:	RIN: 8.50

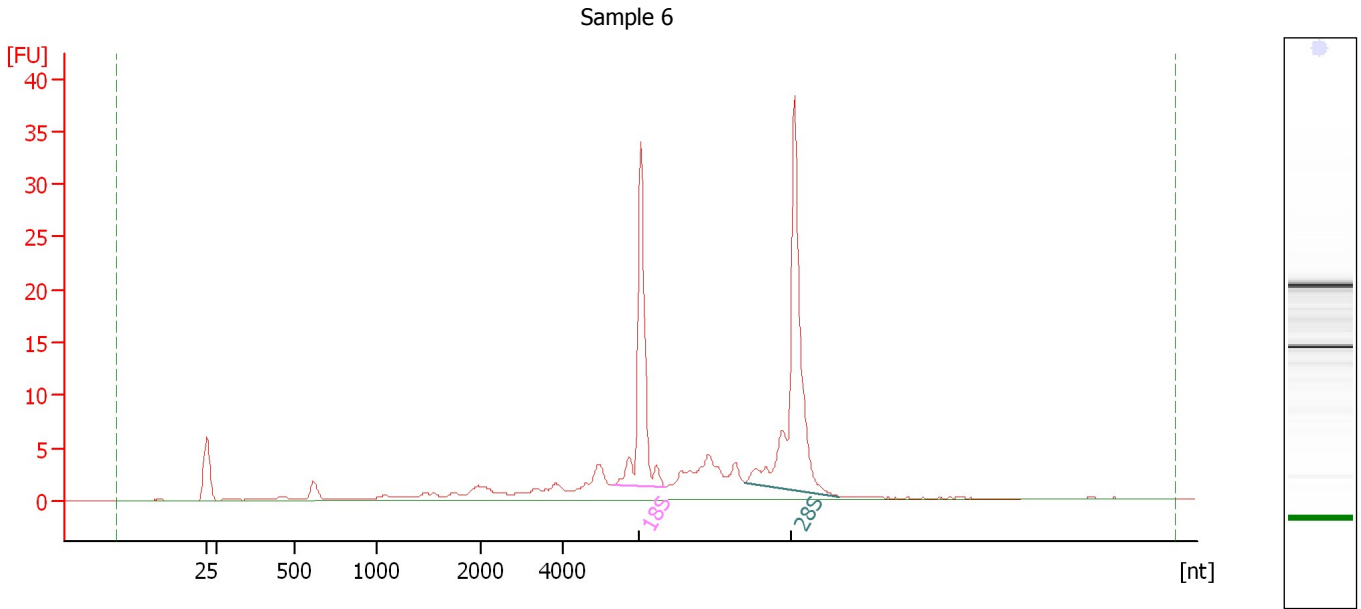
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,181	6,458	37.9	21.5
28S	8,756	10,313	47.8	27.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 144.6                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 114 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5              Result Flagging Label: RIN: 8.70

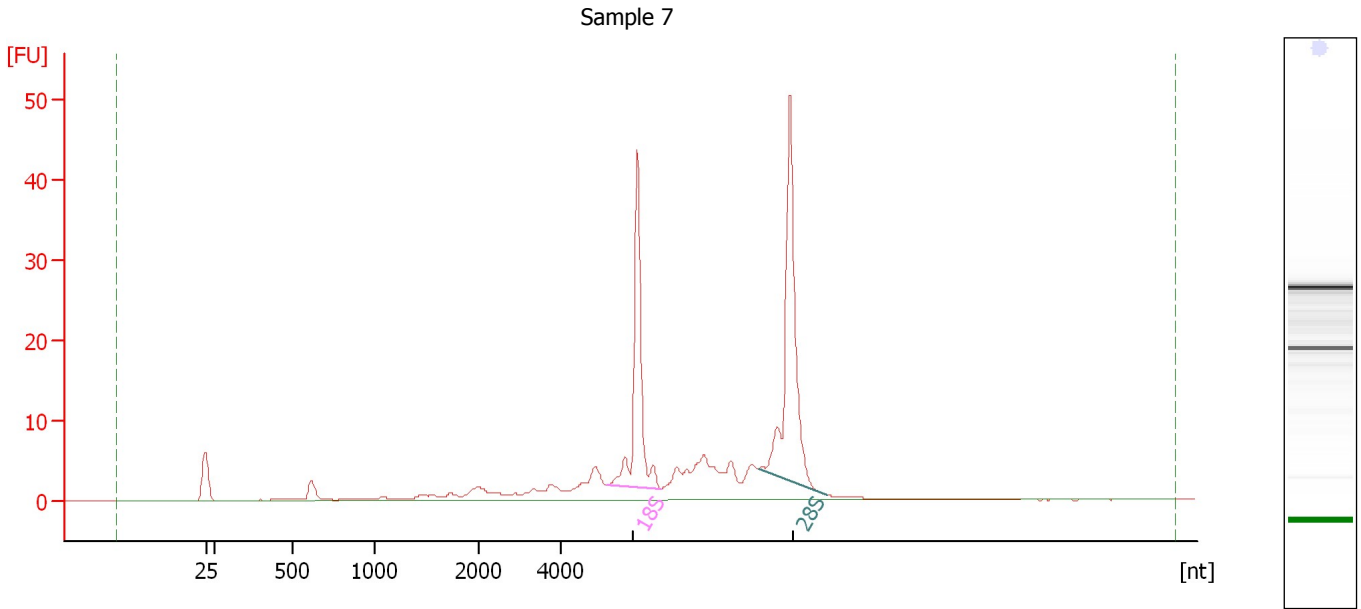
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,176	6,430	29.1	20.1
28S	8,323	10,600	43.5	30.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	184.9	RNA Integrity Number (RIN):	8.6 (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]:	1.3	Result Flagging Label:	RIN: 8.60

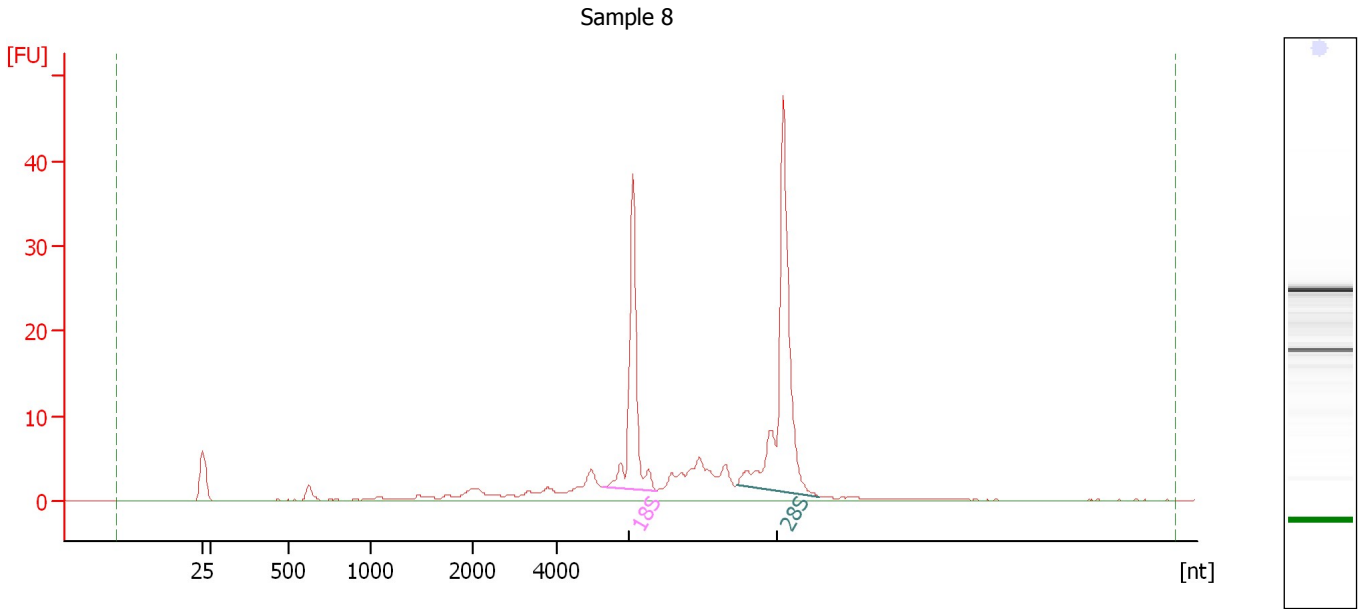
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,094	6,376	38.5	20.8
28S	8,709	10,376	49.6	26.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	158.7	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	125 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:9

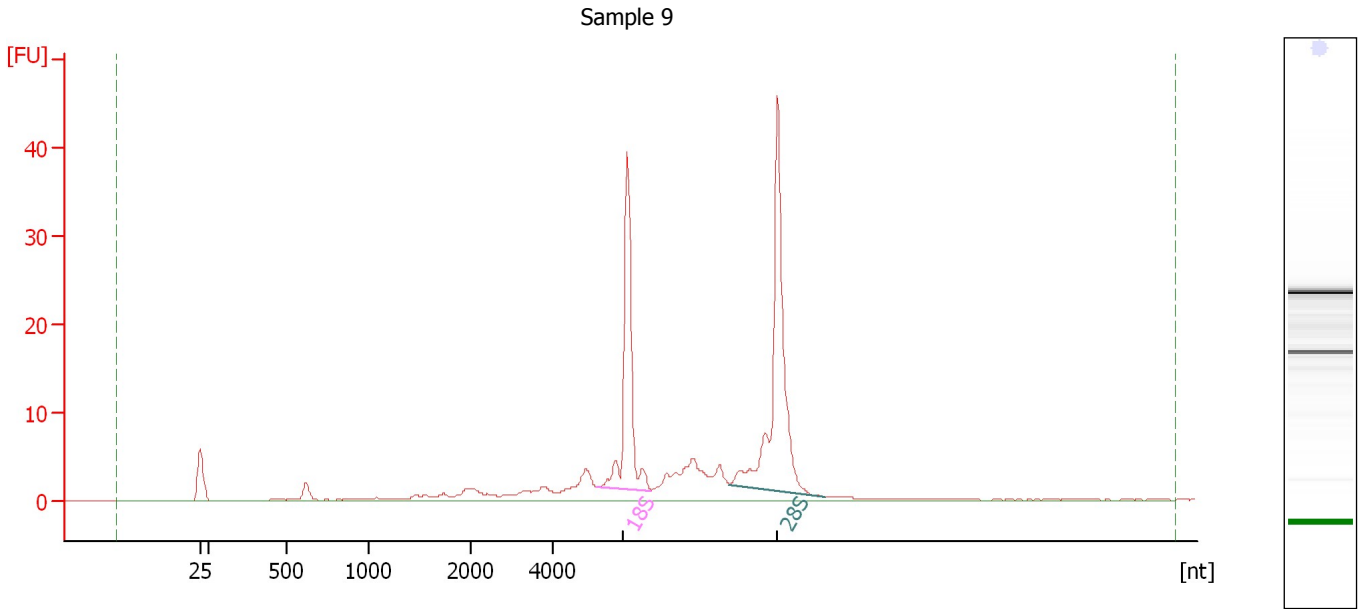
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,104	6,420	33.7	21.2
28S	8,355	10,342	52.4	33.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
 Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	156.8	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	124 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:9

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

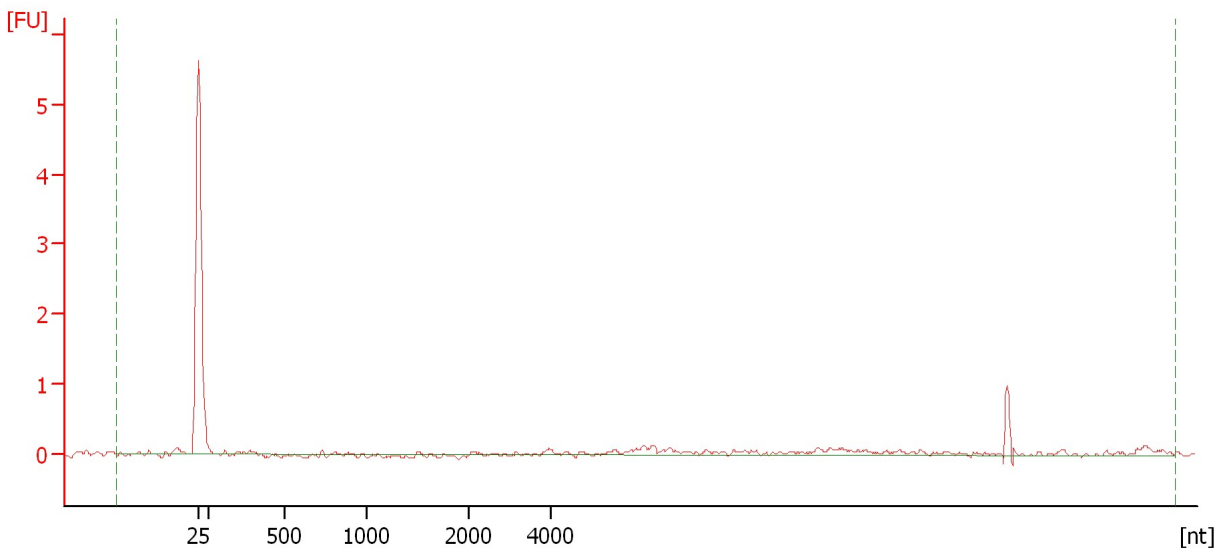
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,094	6,389	33.5	21.4
28S	8,281	10,613	52.6	33.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**

Sample 10



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

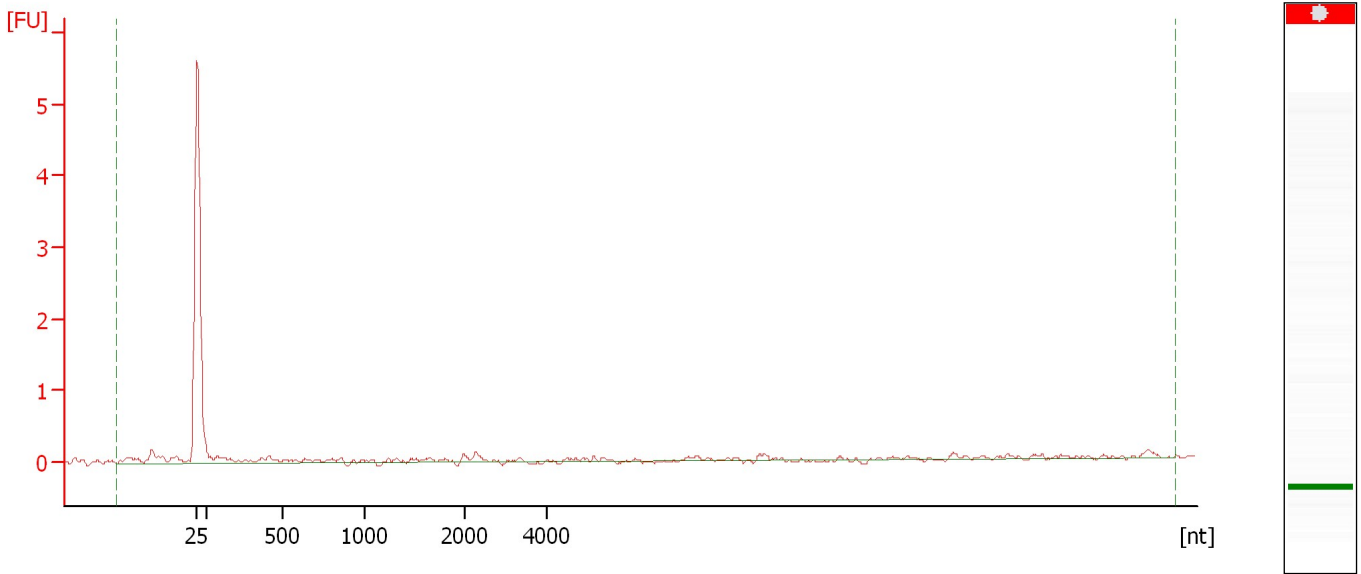
RNA Area:	2.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**

Sample 11



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

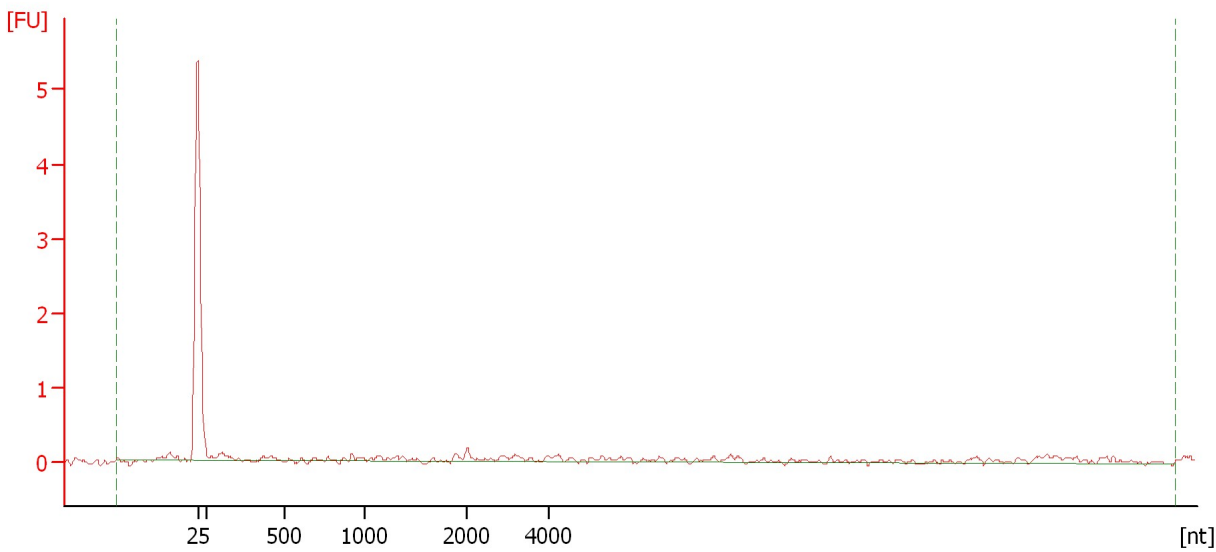
RNA Area:	3.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Electropherogram Summary Continued ...**

Sample 12



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

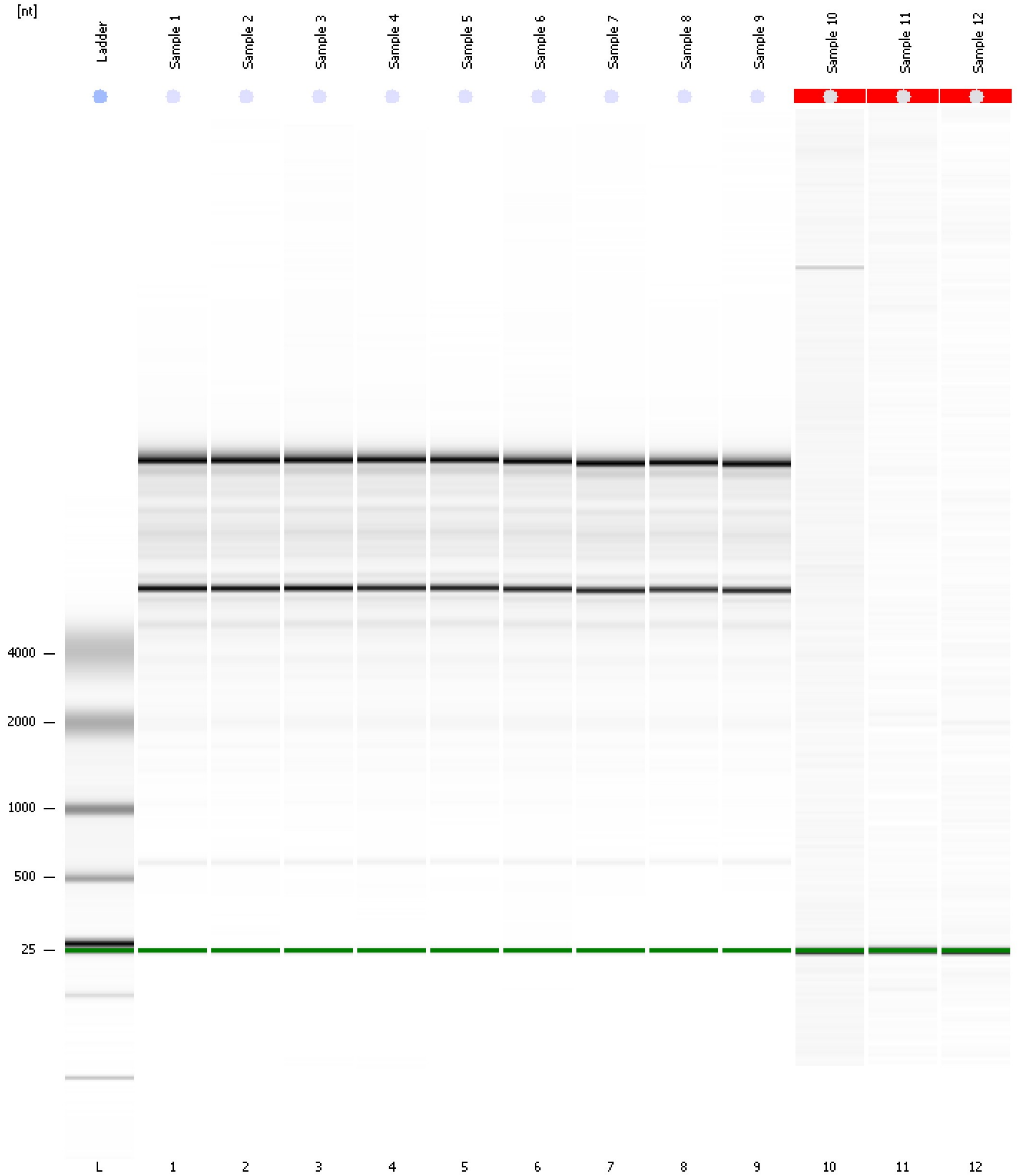
RNA Area:	4.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
Modified: 5/25/2016 3:06:25 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_005.xad

Created: 5/25/2016 2:42:34 PM  
 Modified: 5/25/2016 3:06:25 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		5/25/2016 3:06:24 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\2016-05-25\2016-05-25_005.xad)		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/25/2016 2:42:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1