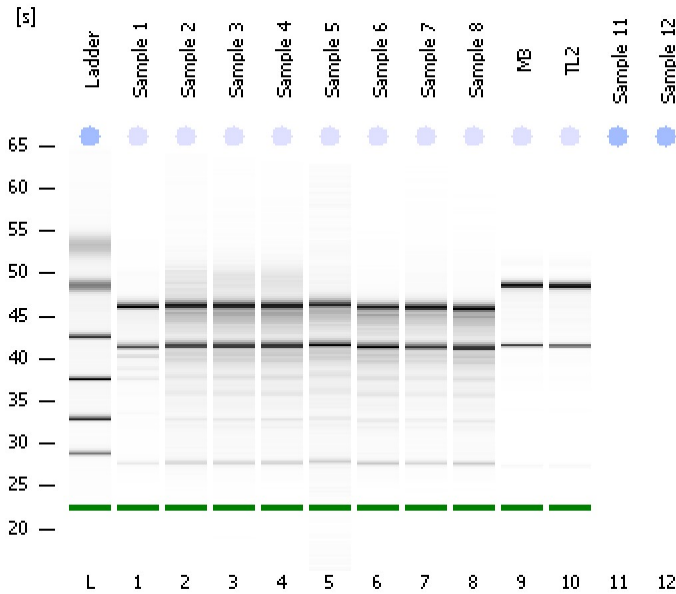


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

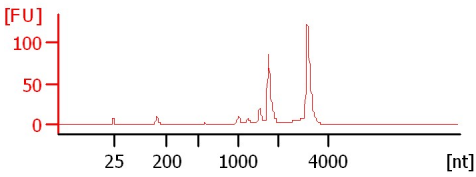
#### Assay Information:

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.

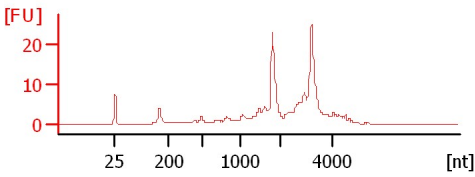
#### Chip Information:

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

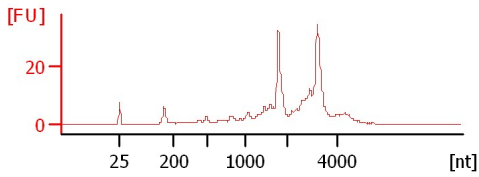
**Sample 1**  
RIN: 8.80



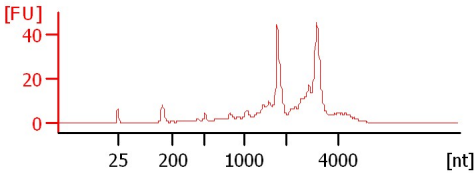
**Sample 2**  
RIN: 7.30



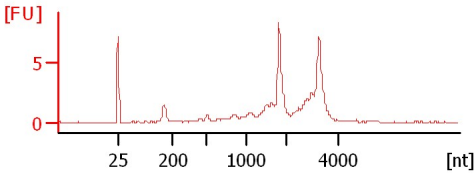
**Sample 3**  
RIN: 7.10



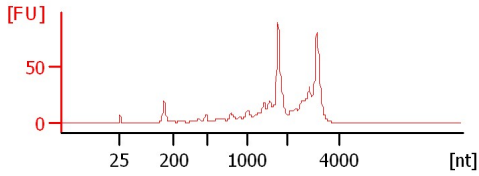
**Sample 4**  
RIN: 7.10



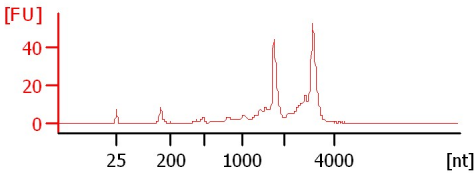
**Sample 5**  
RIN: 7.30



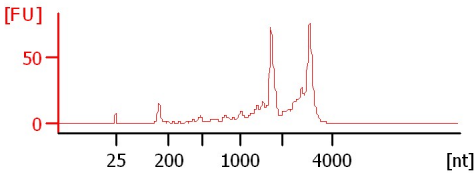
**Sample 6**  
RIN: 6.90



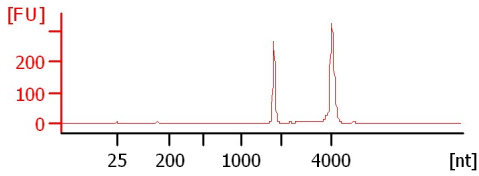
**Sample 7**  
RIN: 5.60



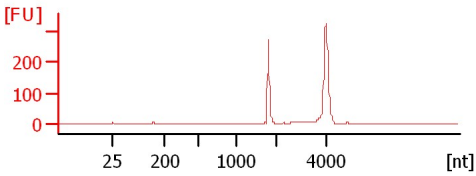
**Sample 8**  
RIN: 7.20



**M3**  
RIN: 10



**TL2**  
RIN: 10



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.80	
Sample 2		✓	RIN: 7.30	
Sample 3		✓	RIN: 7.10	
Sample 4		✓	RIN: 7.10	
Sample 5		✓	RIN: 7.30	
Sample 6		✓	RIN: 6.90	
Sample 7		✓	RIN: 5.60	
Sample 8		✓	RIN: 7.20	
M3		✓	RIN:10	
TL2		✓	RIN:10	
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 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

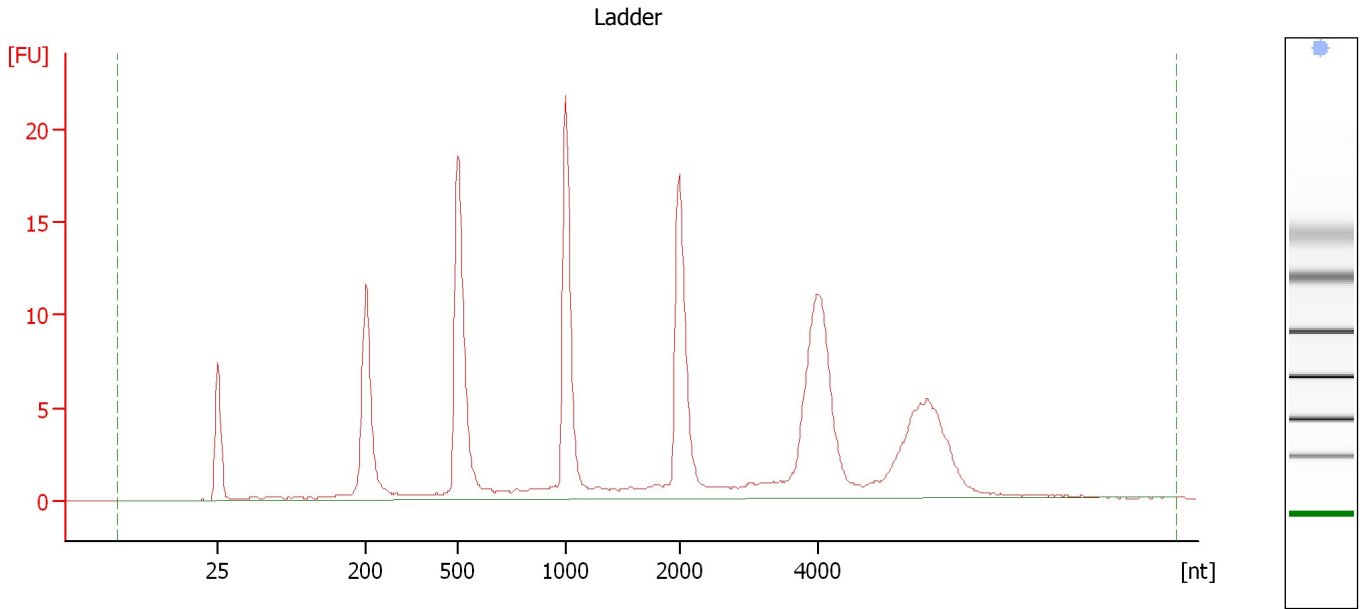
### Ladder

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\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary**



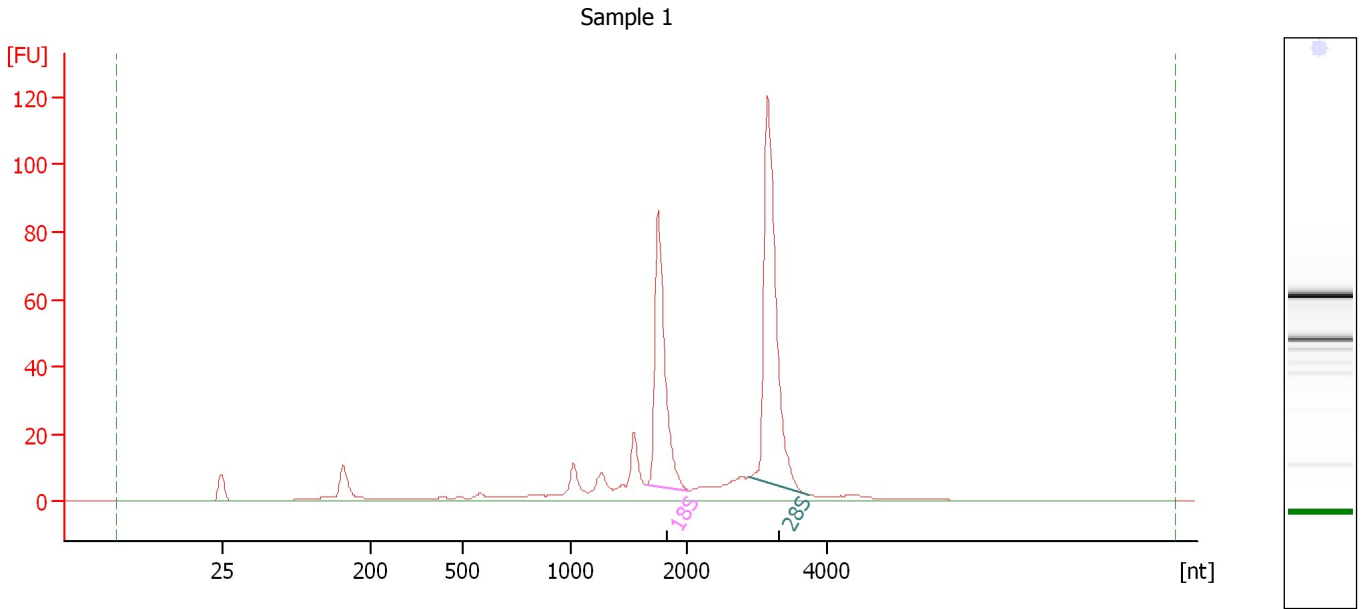
**Overall Results for Ladder**

RNA Area:	163.2	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:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	440.5	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	405 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

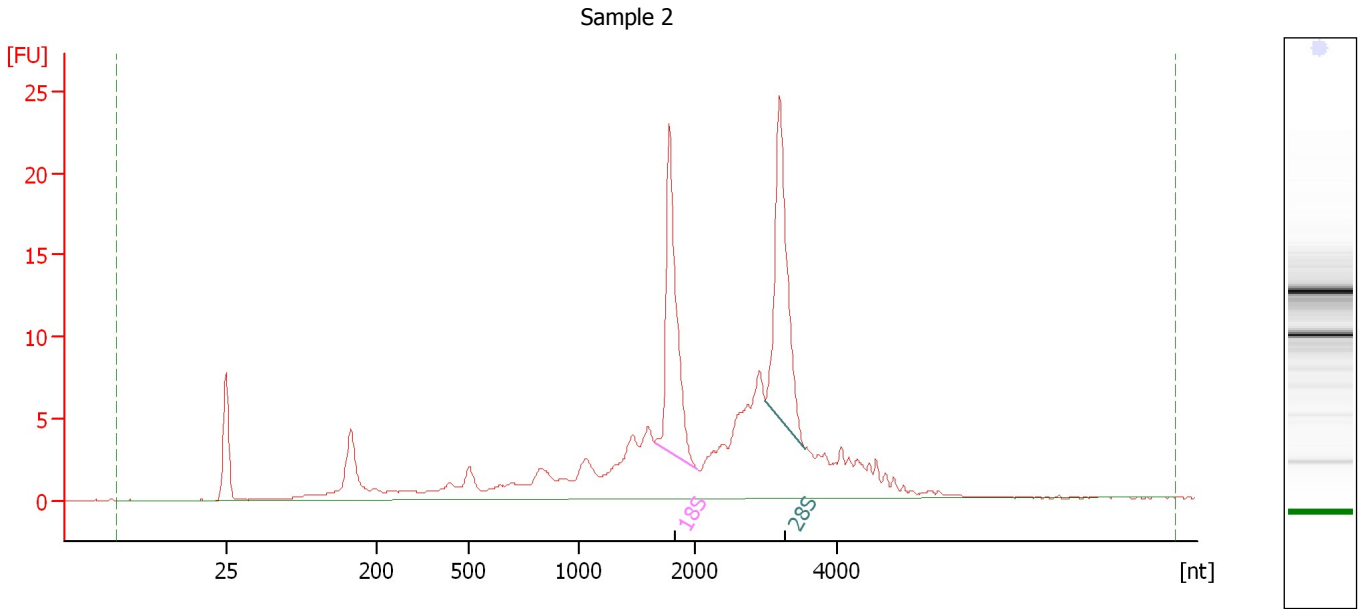
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,052	95.3	21.6
28S	2,900	3,732	147.7	33.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	181.7	RNA Integrity Number (RIN):	7.3 (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: 7.30

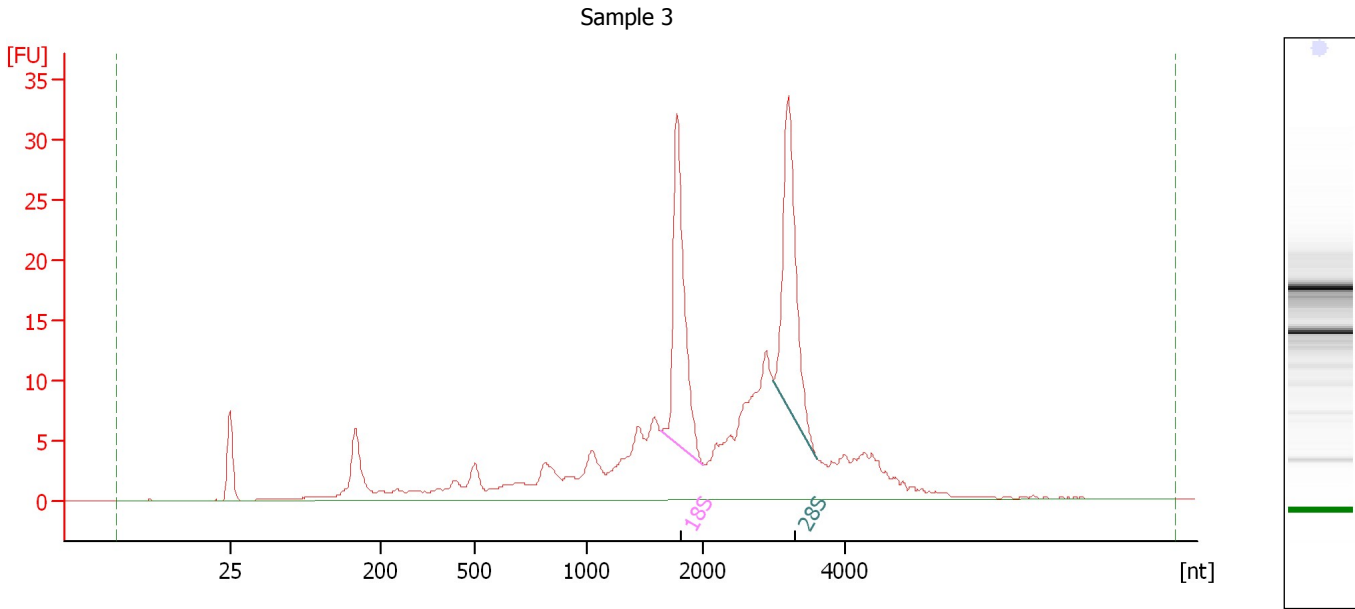
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	2,043	24.2	13.3
28S	3,004	3,545	25.6	14.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
 Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	266.6	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	245 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]:	1.0	Result Flagging Label:	RIN: 7.10

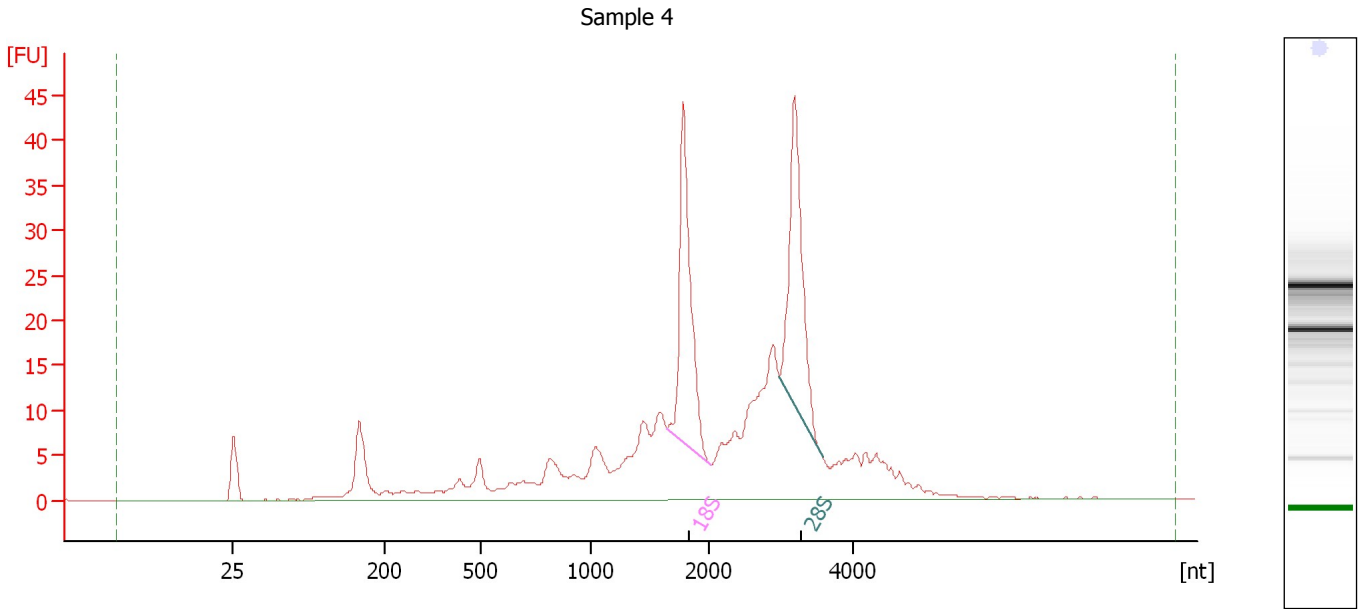
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,019	33.8	12.7
28S	2,987	3,613	34.3	12.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 366.1                      RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 336 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 7.10

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

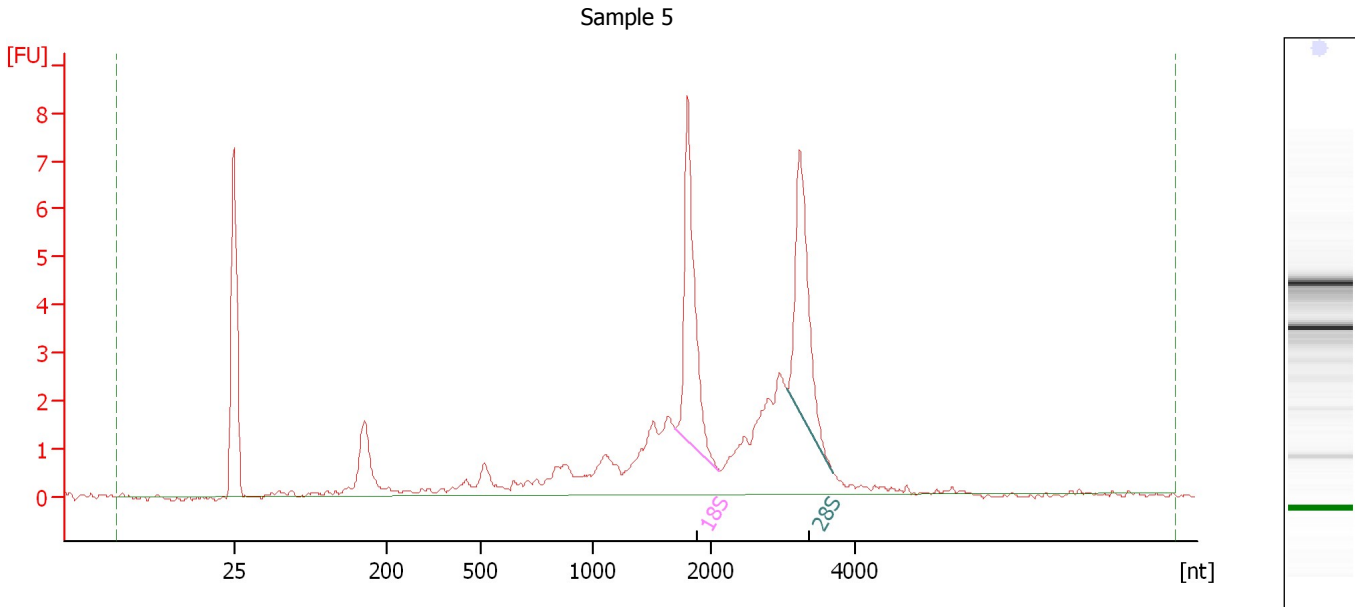
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	2,024	48.2	13.2
28S	2,986	3,579	46.7	12.8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	56.6	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	52 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]:	0.9	Result Flagging Label:	RIN: 7.30

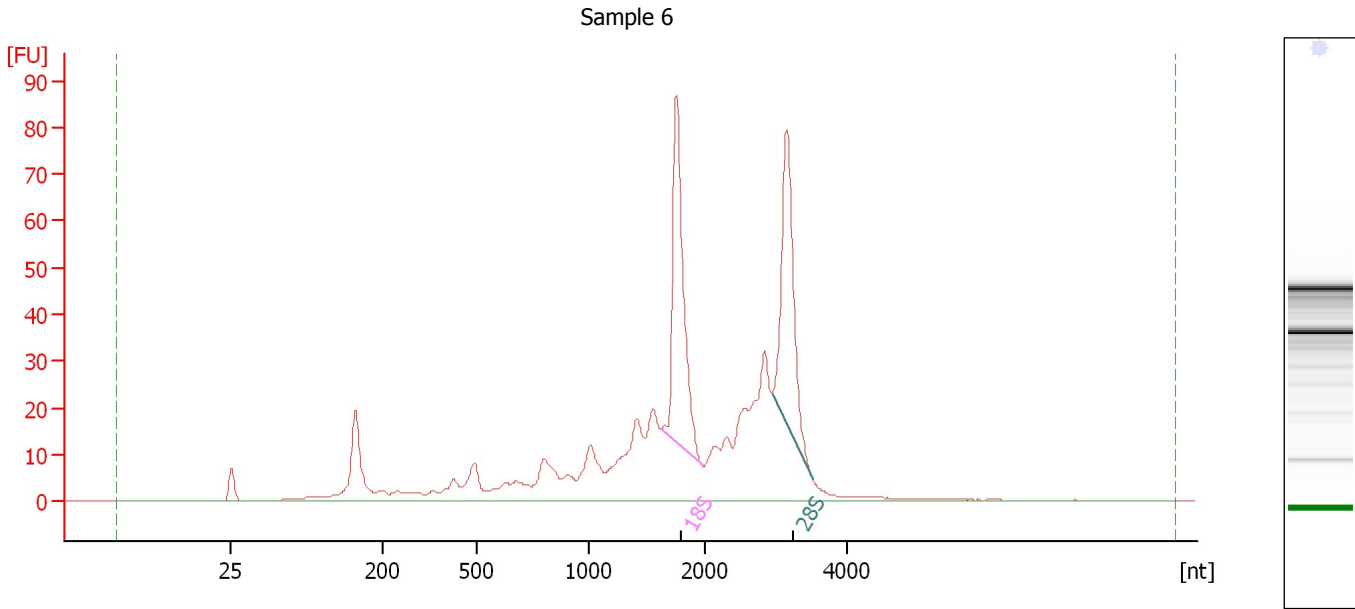
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,129	8.3	14.7
28S	3,060	3,695	7.4	13.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	624.3	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	574 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]:	0.9	Result Flagging Label:	RIN: 6.90

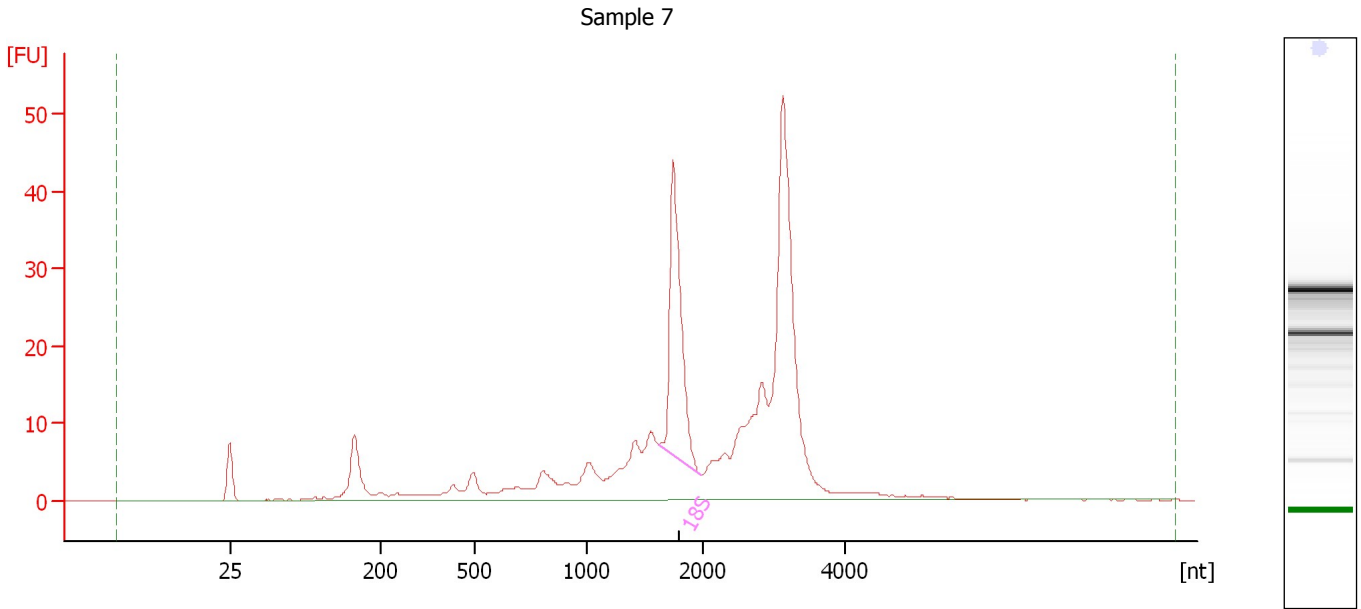
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,985	90.6	14.5
28S	2,942	3,507	78.5	12.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
 Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	323.0	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	297 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: 5.60

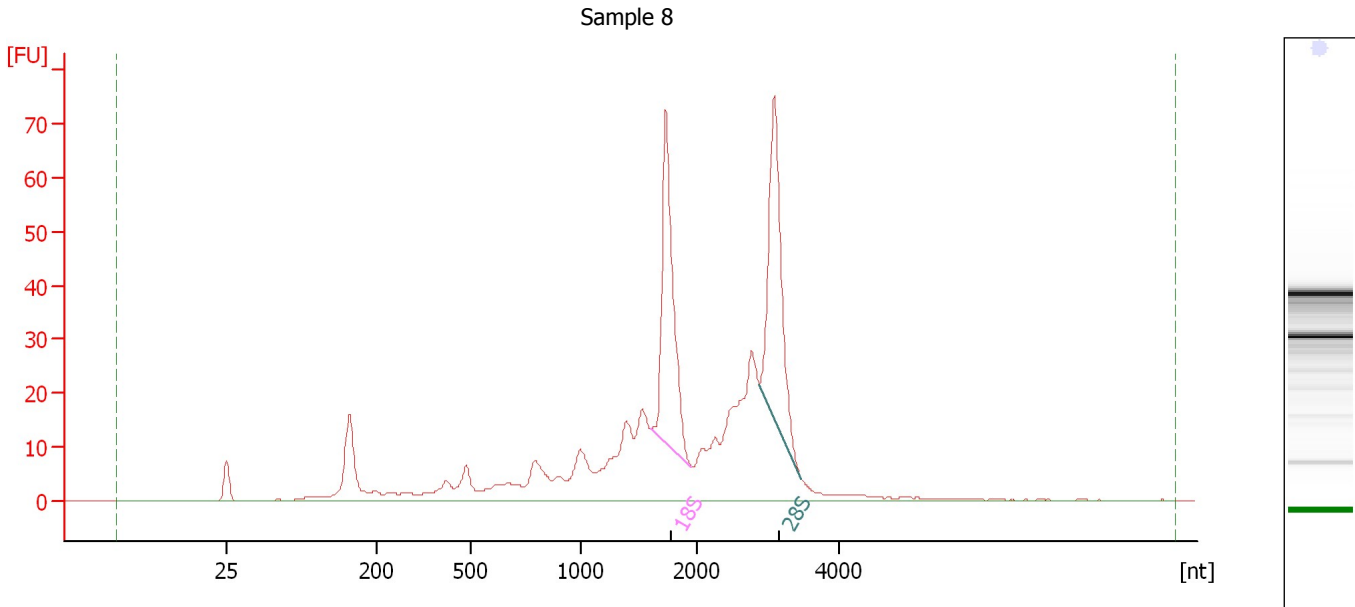
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,984	48.9	15.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	550.5	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	506 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]:	1.0	Result Flagging Label:	RIN: 7.20

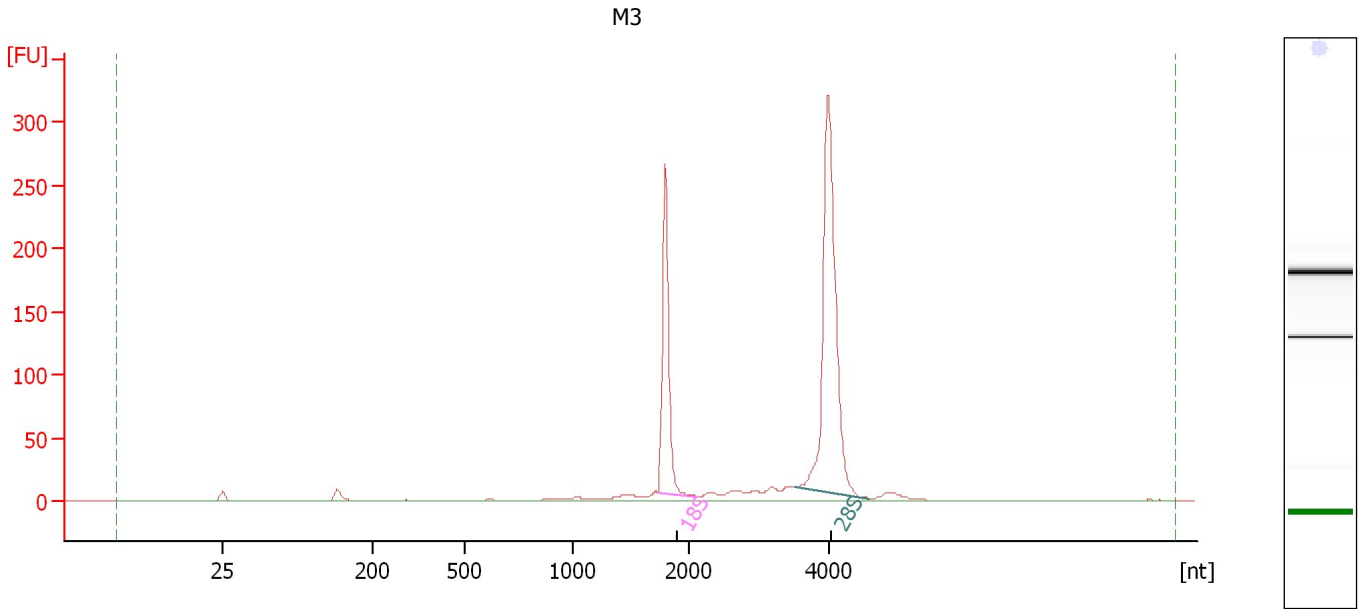
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	1,962	80.2	14.6
28S	2,884	3,483	79.5	14.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : M3**

RNA Area:	802.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	738 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]:	2.1	Result Flagging Label:	RIN:10

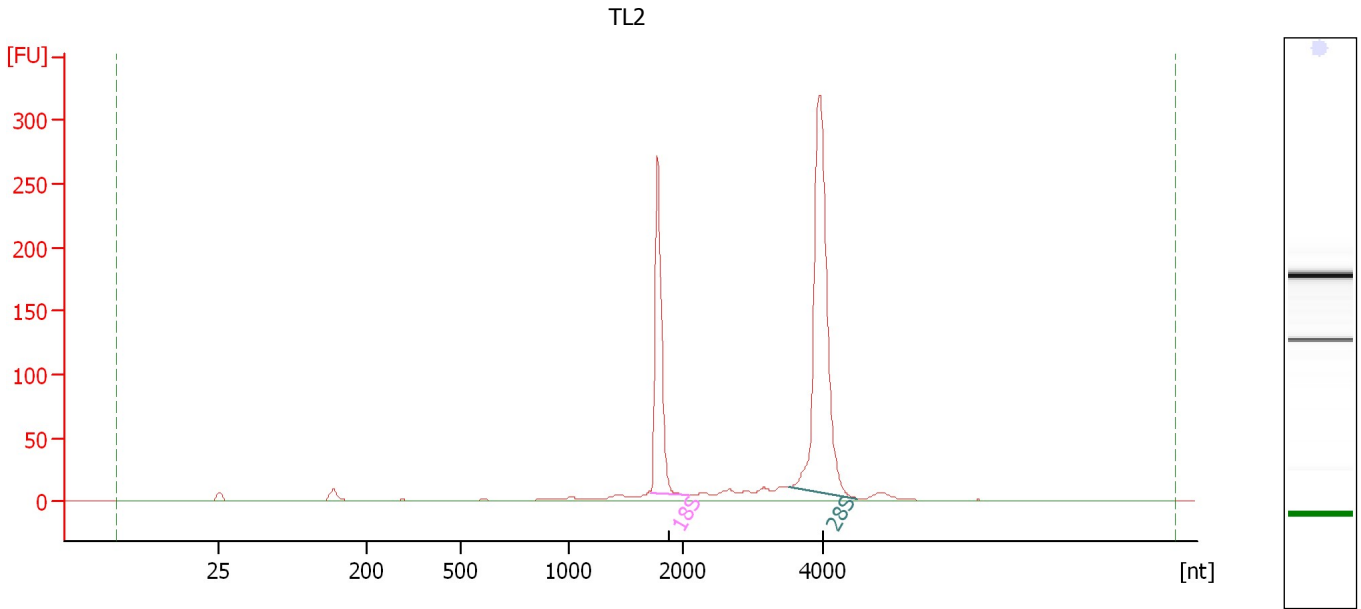
**Fragment table for sample 9 : M3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,129	195.0	24.3
28S	3,519	4,562	407.3	50.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
 Modified: 8/27/2014 12:12:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : TL2**

RNA Area:	831.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	764 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]:	2.1	Result Flagging Label:	RIN:10

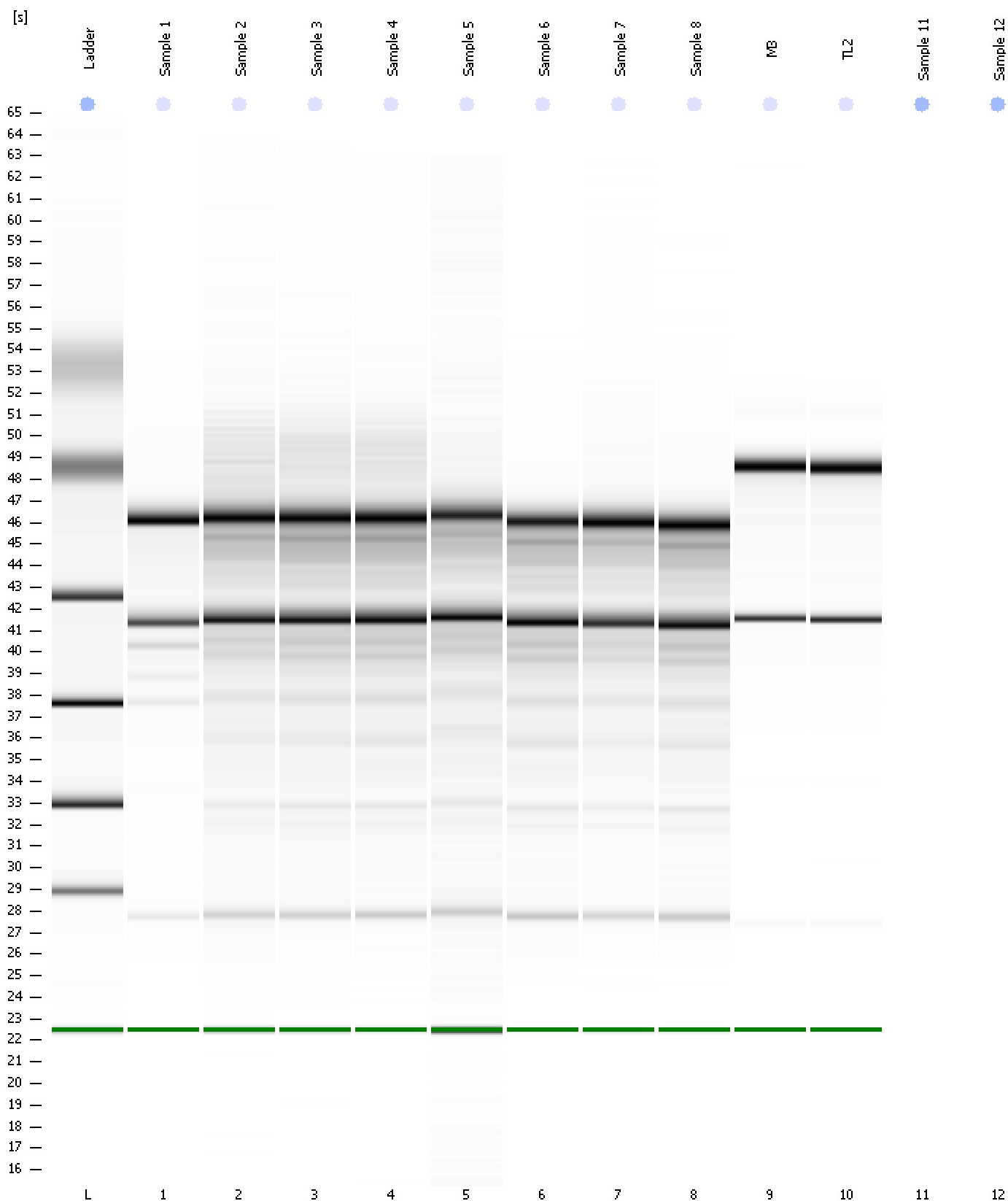
**Fragment table for sample 10 : TL2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,729	2,094	201.1	24.2
28S	3,508	4,496	417.1	50.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
Modified: 8/27/2014 12:12:32 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-27\2014-08-27\_001.xad

Created: 8/27/2014 11:43:01 AM  
 Modified: 8/27/2014 12:12:32 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		8/27/2014 12:04:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-08-27\2014-08-27_001.xad)		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/27/2014 11:43:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1