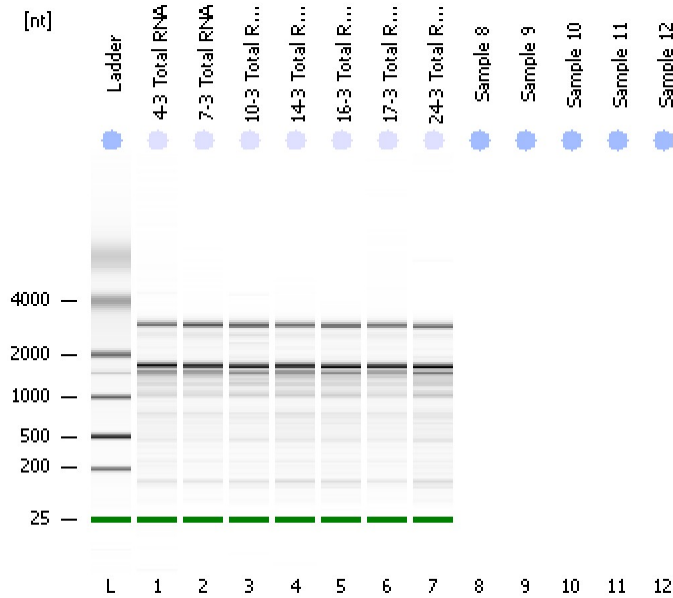


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

### 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

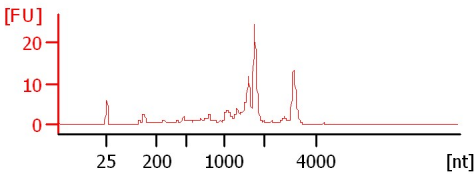
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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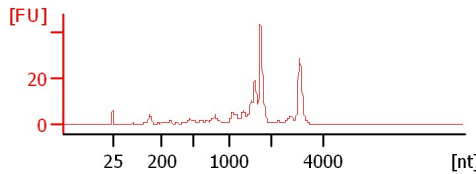
#### Chip Information:

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

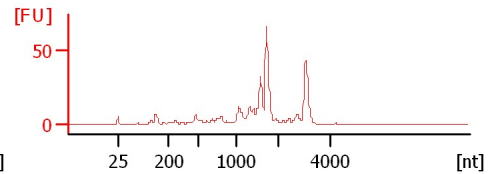
**4-3 Total RNA**  
RIN: 6.40



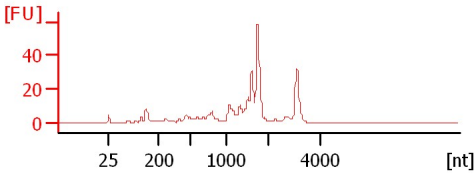
**7-3 Total RNA**  
RIN: 6.50



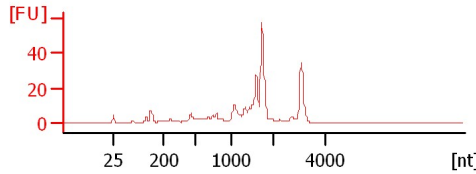
**10-3 Total RNA**  
RIN: 6.40



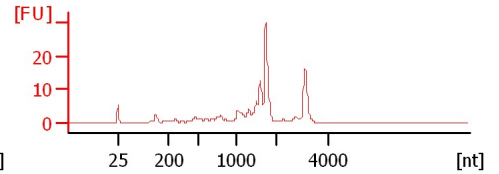
**14-3 Total RNA**  
RIN: 6.20



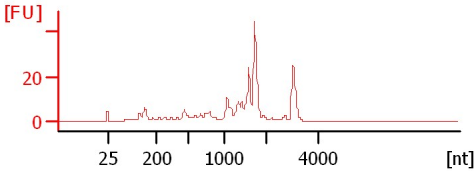
**16-3 Total RNA**  
RIN: 6.30



**17-3 Total RNA**  
RIN: 6.50



**24-3 Total RNA**  
RIN: 6.20



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
4-3 Total RNA		✓	RIN: 6.40	
7-3 Total RNA		✓	RIN: 6.50	
10-3 Total RNA		✓	RIN: 6.40	
14-3 Total RNA		✓	RIN: 6.20	
16-3 Total RNA		✓	RIN: 6.30	
17-3 Total RNA		✓	RIN: 6.50	
24-3 Total RNA		✓	RIN: 6.20	
Sample 8				
Sample 9				
Sample 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\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

**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

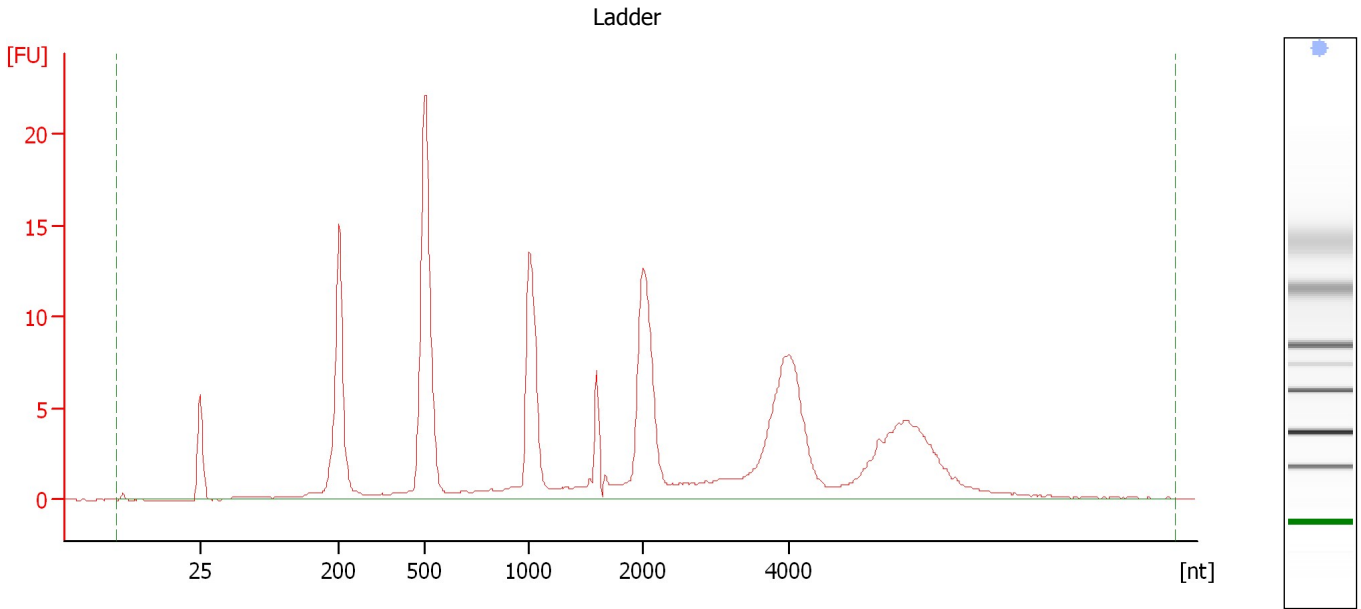
**Ladder**

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\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary**



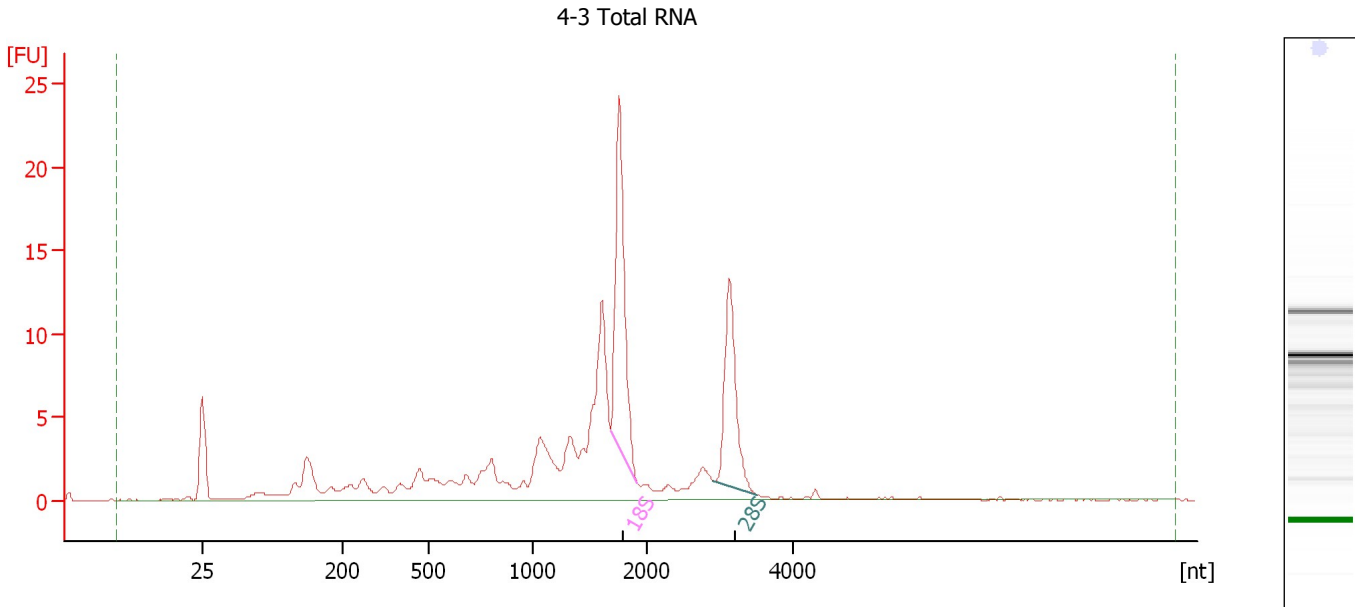
**Overall Results for Ladder**

RNA Area:	182.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 4-3 Total RNA**

RNA Area:	134.2	RNA Integrity Number (RIN):	6.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	111 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]:	0.7	Result Flagging Label:	RIN: 6.40

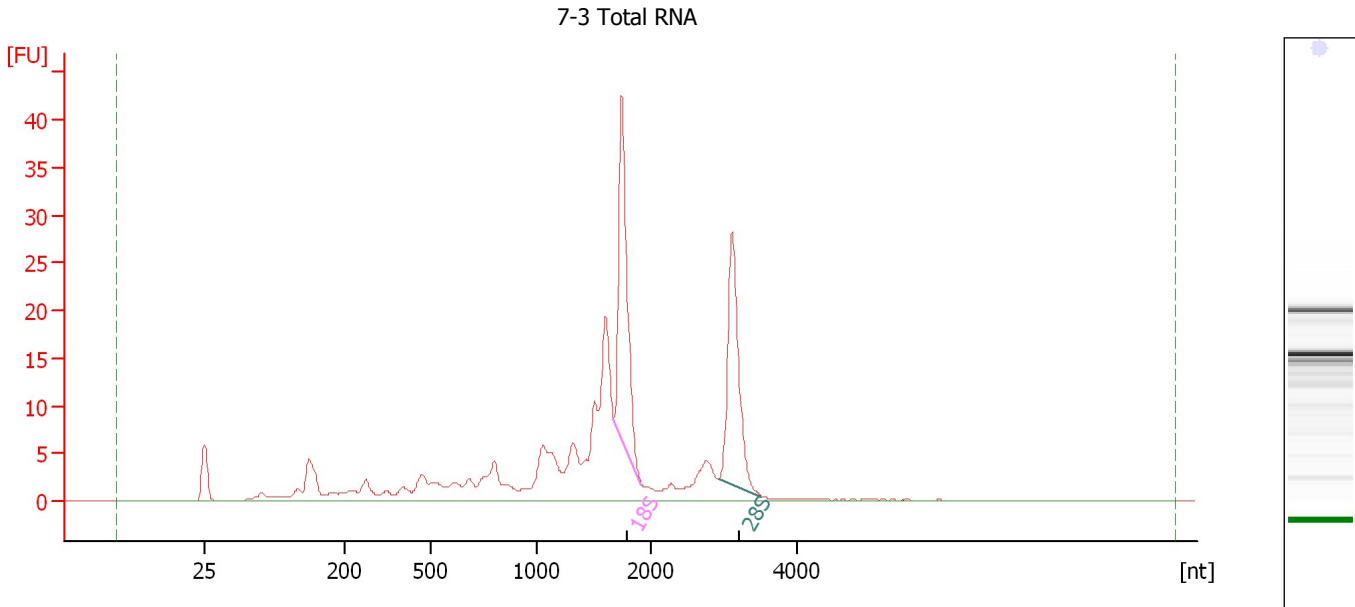
**Fragment table for sample 1 : 4-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,909	22.8	17.0
28S	2,903	3,508	15.4	11.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 7-3 Total RNA**

RNA Area:	229.1	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	189 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: 6.50

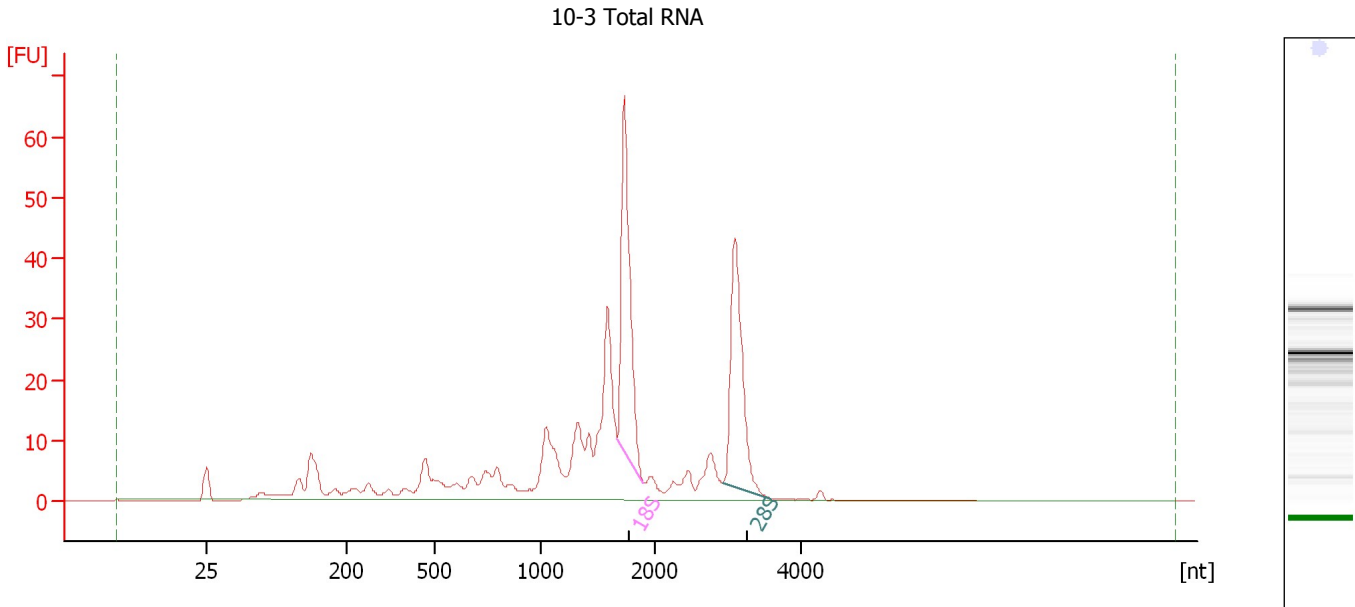
**Fragment table for sample 2 : 7-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,911	37.7	16.4
28S	2,917	3,504	32.7	14.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 10-3 Total RNA**

RNA Area:	363.6	RNA Integrity Number (RIN):	6.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	300 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: 6.40

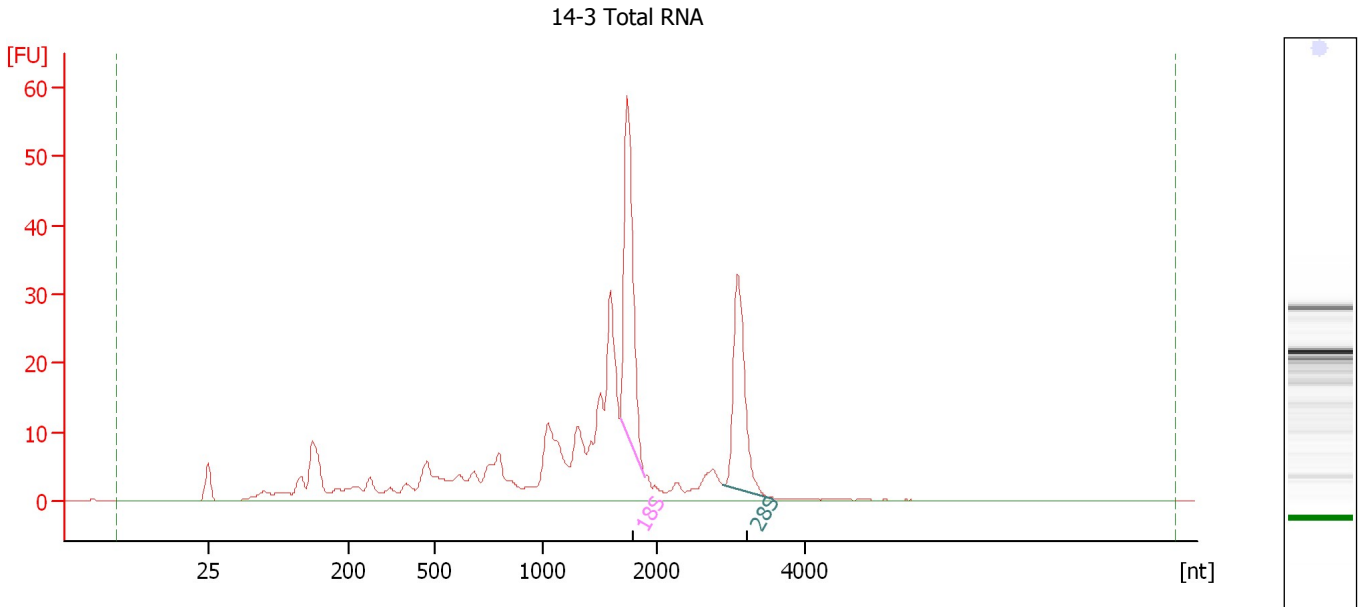
**Fragment table for sample 3 : 10-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,895	61.2	16.8
28S	2,916	3,575	53.3	14.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 14-3 Total RNA**

RNA Area:	351.2	RNA Integrity Number (RIN):	6.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	289 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]:	0.7	Result Flagging Label:	RIN: 6.20

**Fragment table for sample 4 : 14-3 Total RNA**

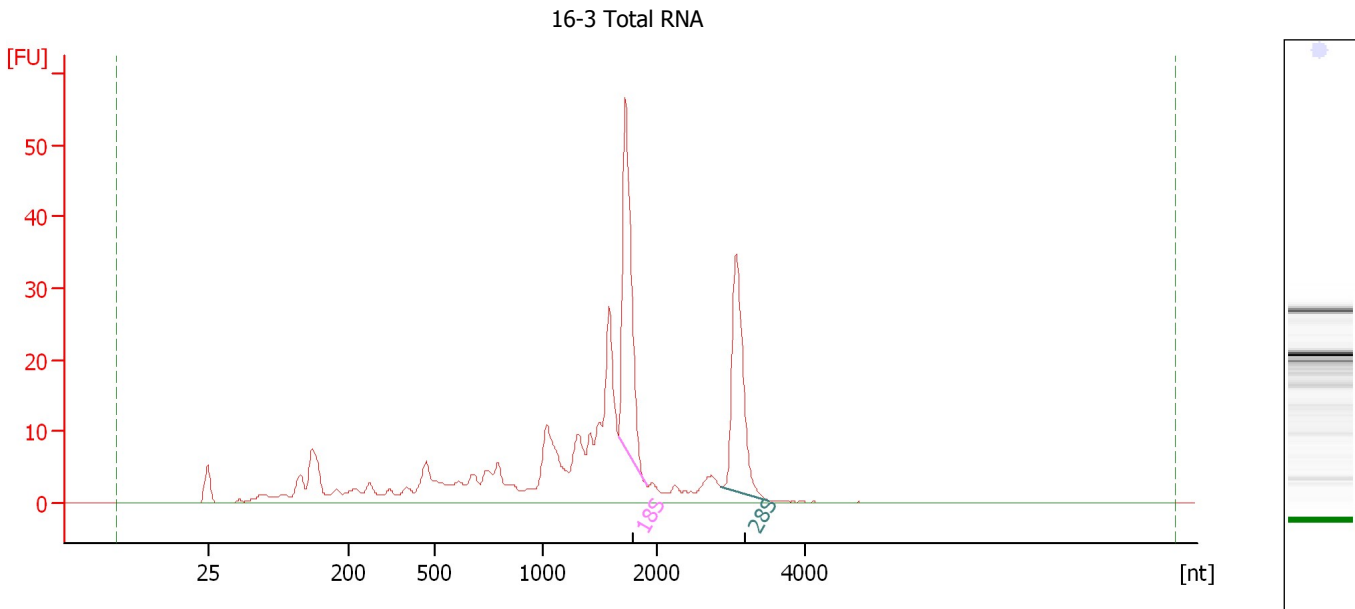
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,887	52.5	15.0
28S	2,901	3,573	38.8	11.1



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 16-3 Total RNA**

RNA Area:	325.4	RNA Integrity Number (RIN):	6.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	268 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: 6.30

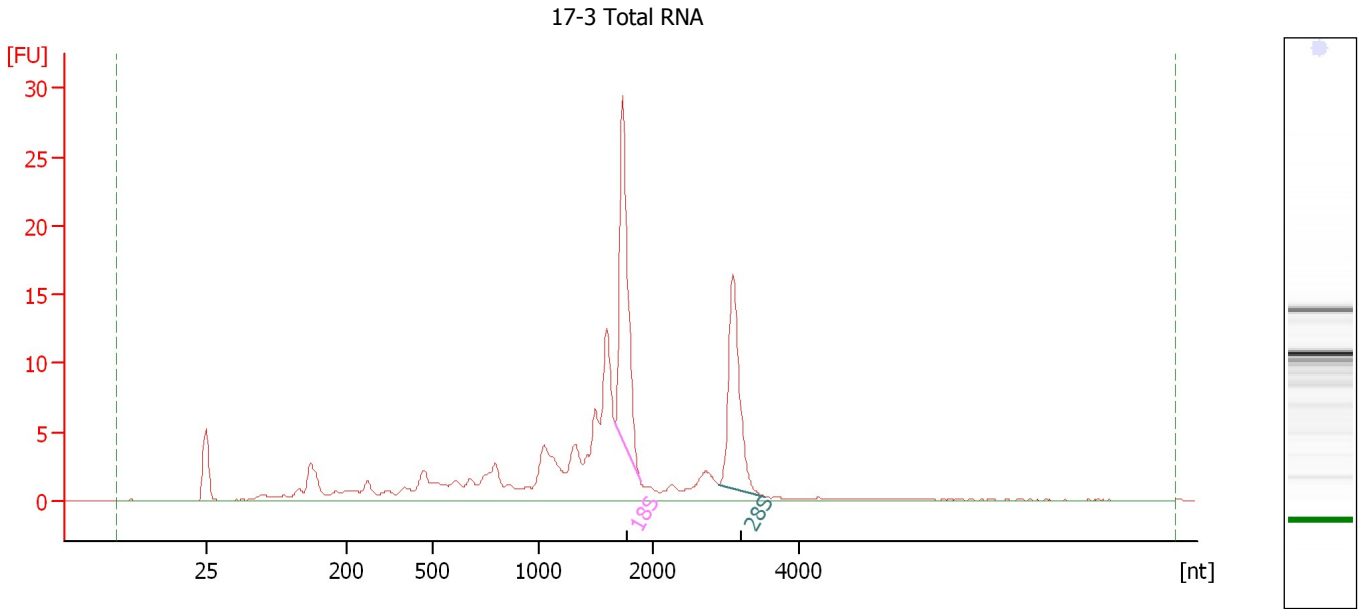
**Fragment table for sample 5 : 16-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,896	52.4	16.1
28S	2,872	3,529	41.2	12.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 17-3 Total RNA**

RNA Area:	150.6	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
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]:	0.8	Result Flagging Label:	RIN: 6.50

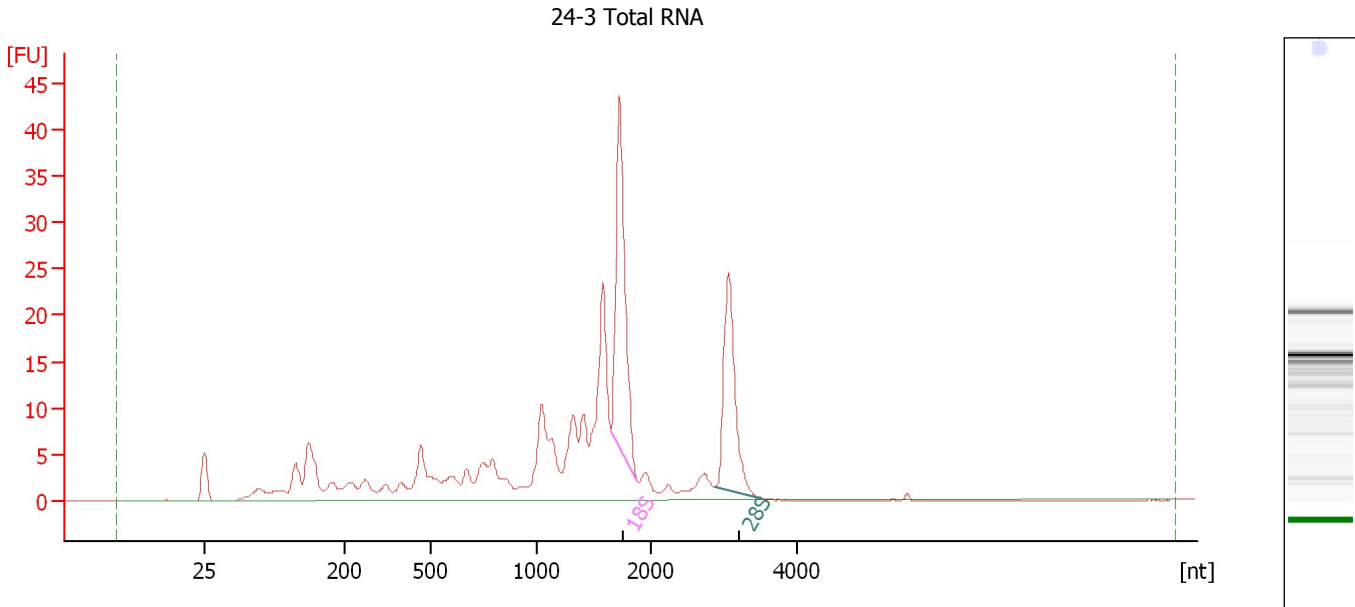
**Fragment table for sample 6 : 17-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	1,885	25.8	17.1
28S	2,887	3,518	19.4	12.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 24-3 Total RNA**

RNA Area:	260.6	RNA Integrity Number (RIN):	6.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	215 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]:	0.7	Result Flagging Label:	RIN: 6.20

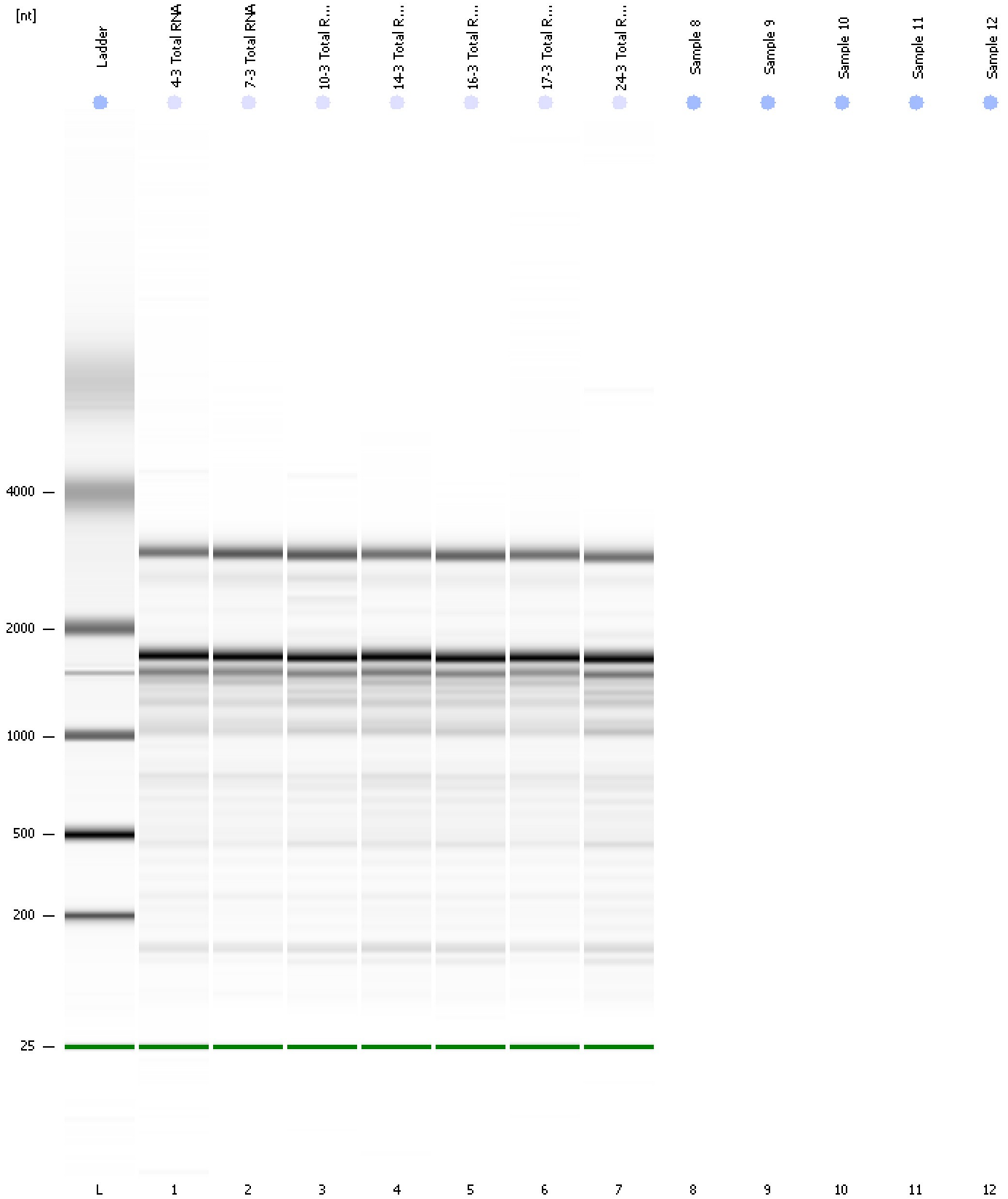
**Fragment table for sample 7 : 24-3 Total RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,874	41.8	16.0
28S	2,873	3,519	29.4	11.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
Modified: 8/16/2013 10:17:11 AM

**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

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\2013-08-16\2013-08-16\_001.xad

Created: 8/16/2013 9:56:44 AM  
 Modified: 8/16/2013 10:17:11 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		8/16/2013 10:13:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-16\2013-08-16_001.xad)		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/16/2013 9:56:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1