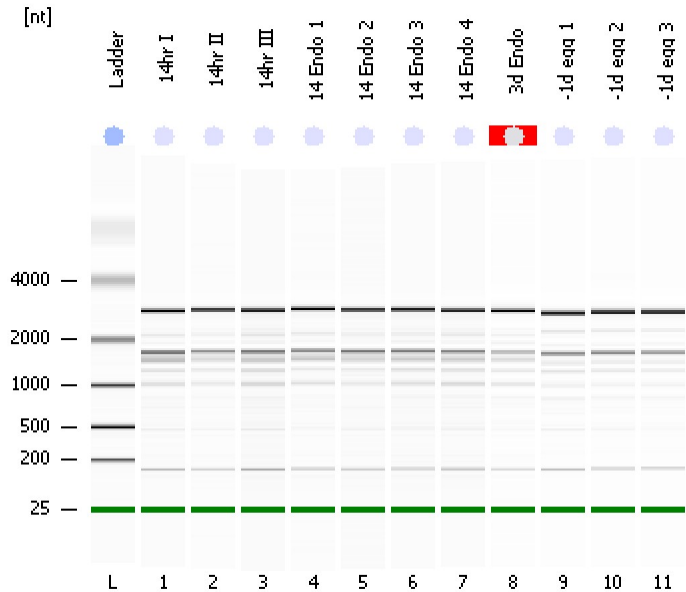


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

Electrophoresis File Run Summary



Instrument Information:

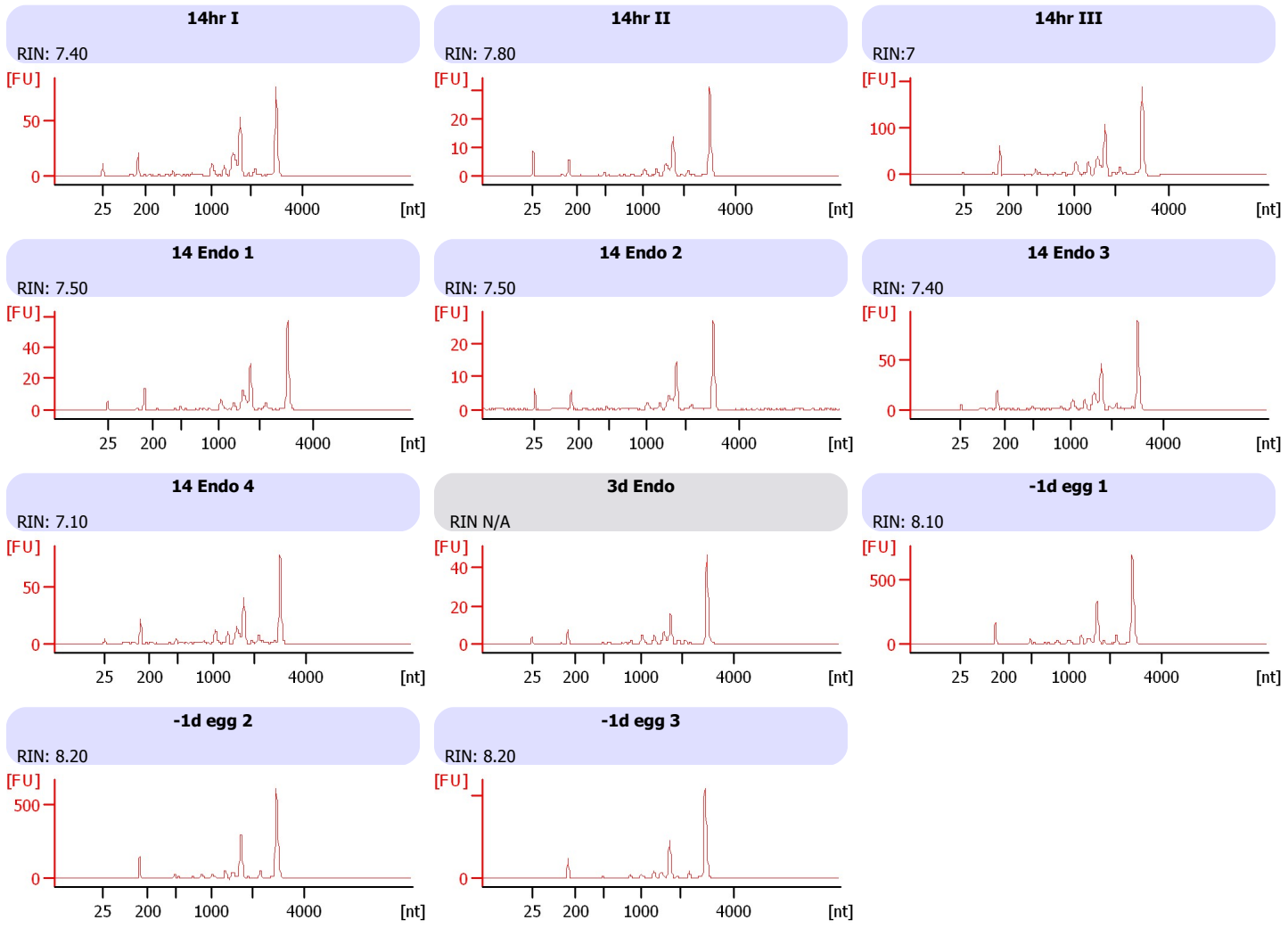
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
14hr I		✓	RIN: 7.40	
14hr II		✓	RIN: 7.80	
14hr III		✓	RIN:7	
14 Endo 1		✓	RIN: 7.50	
14 Endo 2		✓	RIN: 7.50	
14 Endo 3		✓	RIN: 7.40	
14 Endo 4		✓	RIN: 7.10	
3d Endo		✓	RIN N/A	
-1d egg 1		✓	RIN: 8.10	
-1d egg 2		✓	RIN: 8.20	
-1d egg 3		✓	RIN: 8.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

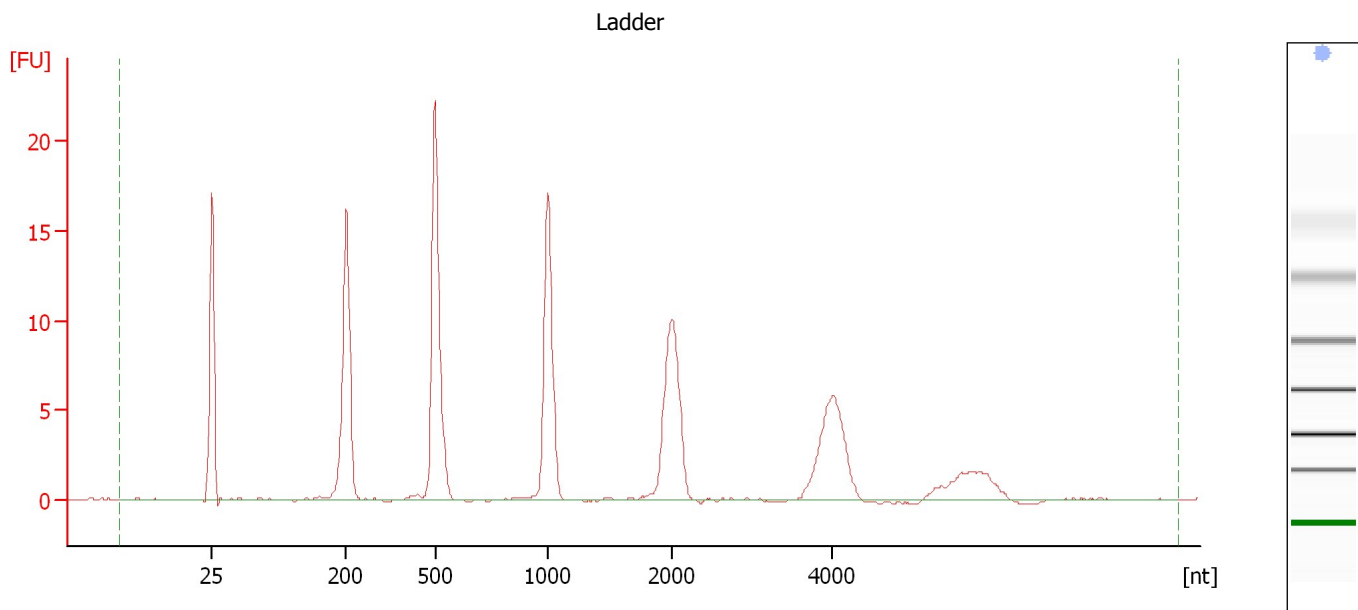
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary**



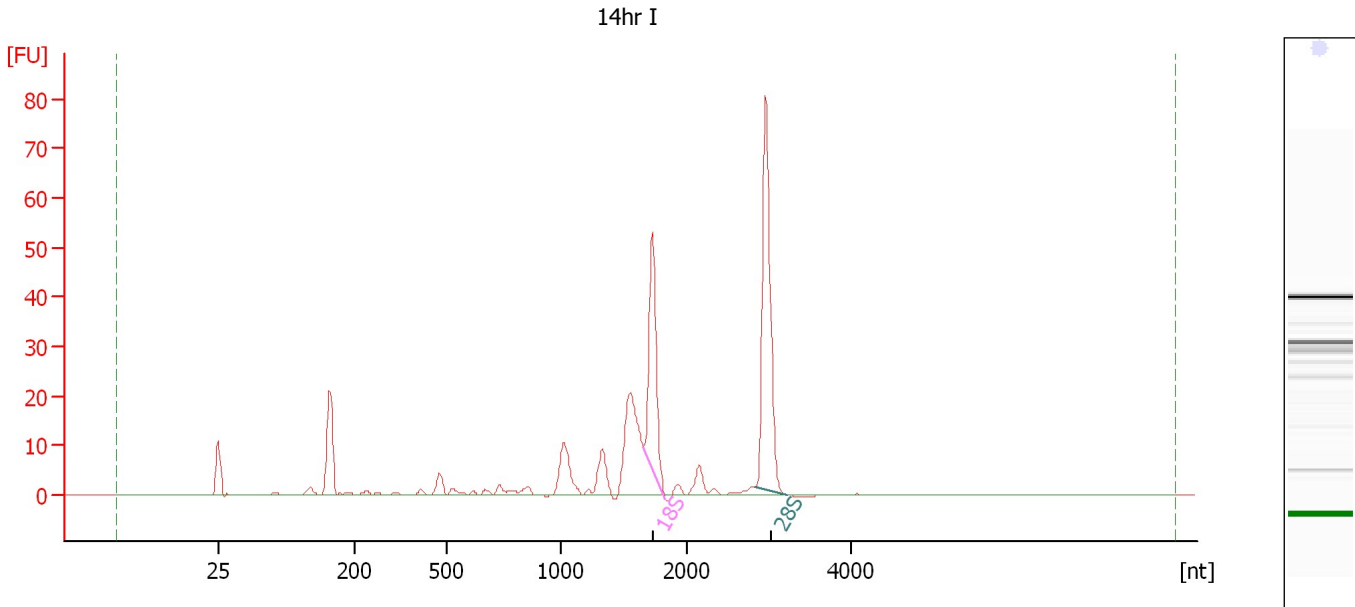
**Overall Results for Ladder**

RNA Area:	110.3	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 14hr I**

RNA Area:	225.4	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,044 pg/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: 7.40

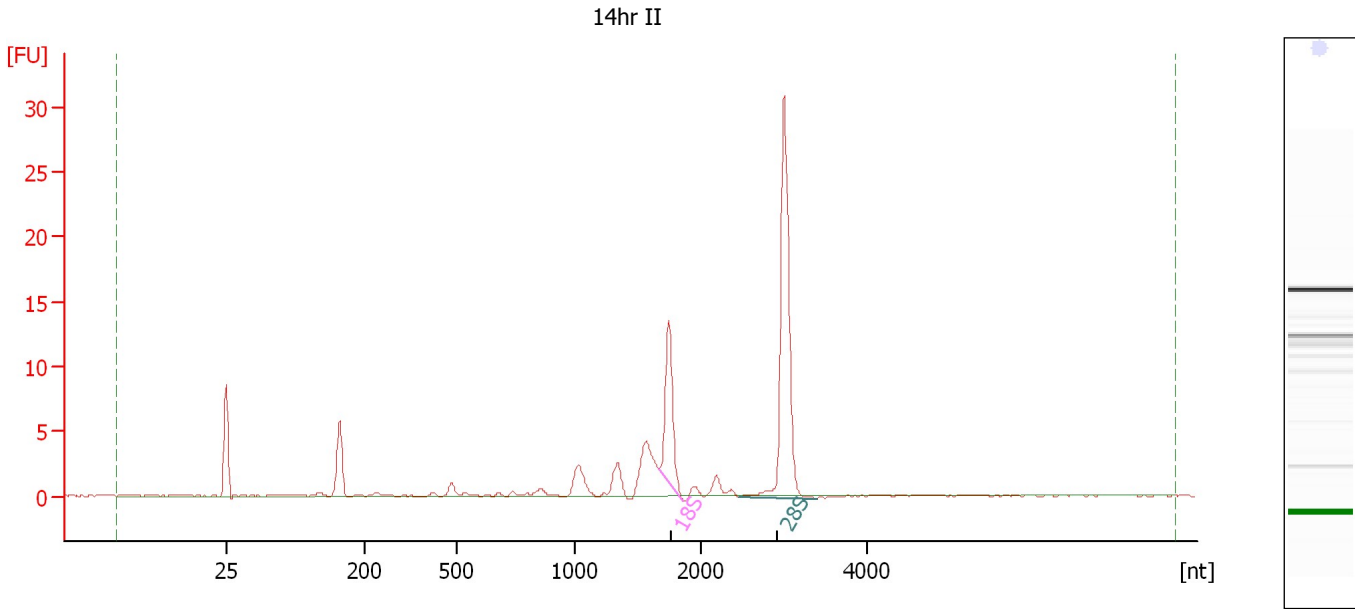
**Fragment table for sample 1 : 14hr I**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,828	42.8	19.0
28S	2,830	3,220	68.2	30.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 14hr II**

RNA Area: 65.7                      RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 596 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.4                      Result Flagging Label: RIN: 7.80

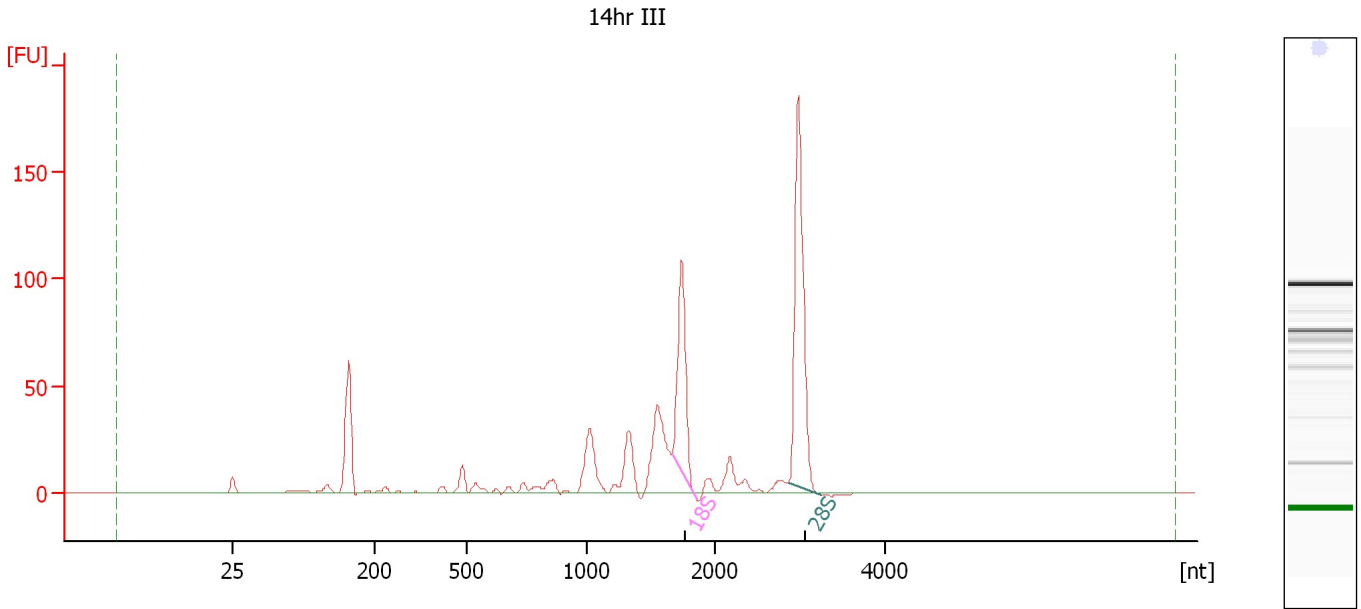
**Fragment table for sample 2 : 14hr II**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,861	11.2	17.0
28S	2,468	3,390	26.6	40.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 14hr III**

RNA Area:	561.3	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	5,088 pg/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]:	1.7	Result Flagging Label:	RIN:7

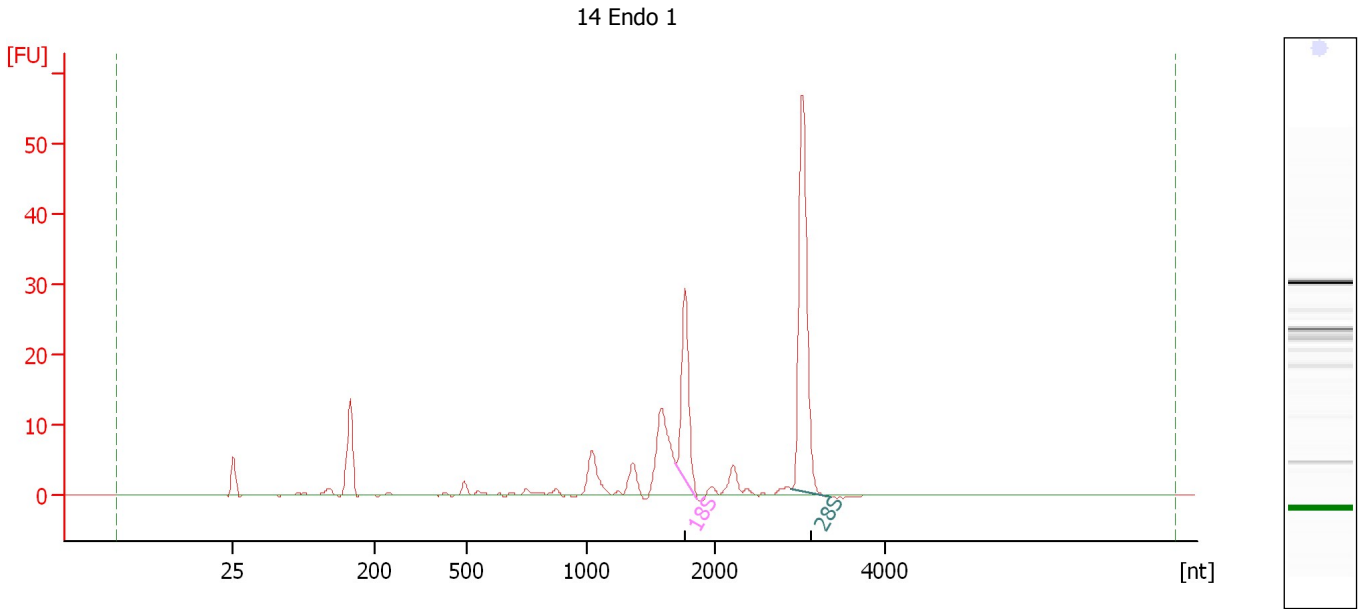
**Fragment table for sample 3 : 14hr III**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,852	93.3	16.6
28S	2,861	3,253	162.4	28.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 14 Endo 1**

RNA Area: 135.7                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 1,230 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0                      Result Flagging Label: RIN: 7.50

**Fragment table for sample 4 : 14 Endo 1**

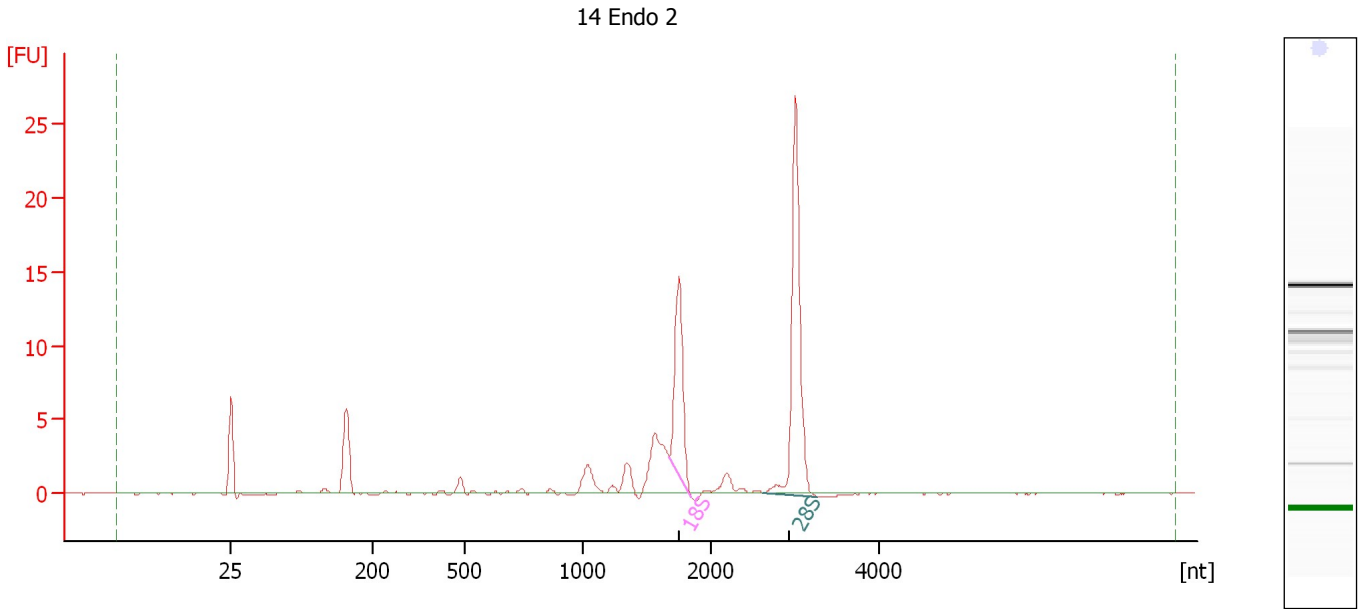
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	1,860	23.3	17.1
28S	2,899	3,379	46.4	34.2



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 14 Endo 2**

RNA Area:	60.2	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	546 µg/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]:	2.0	Result Flagging Label:	RIN: 7.50

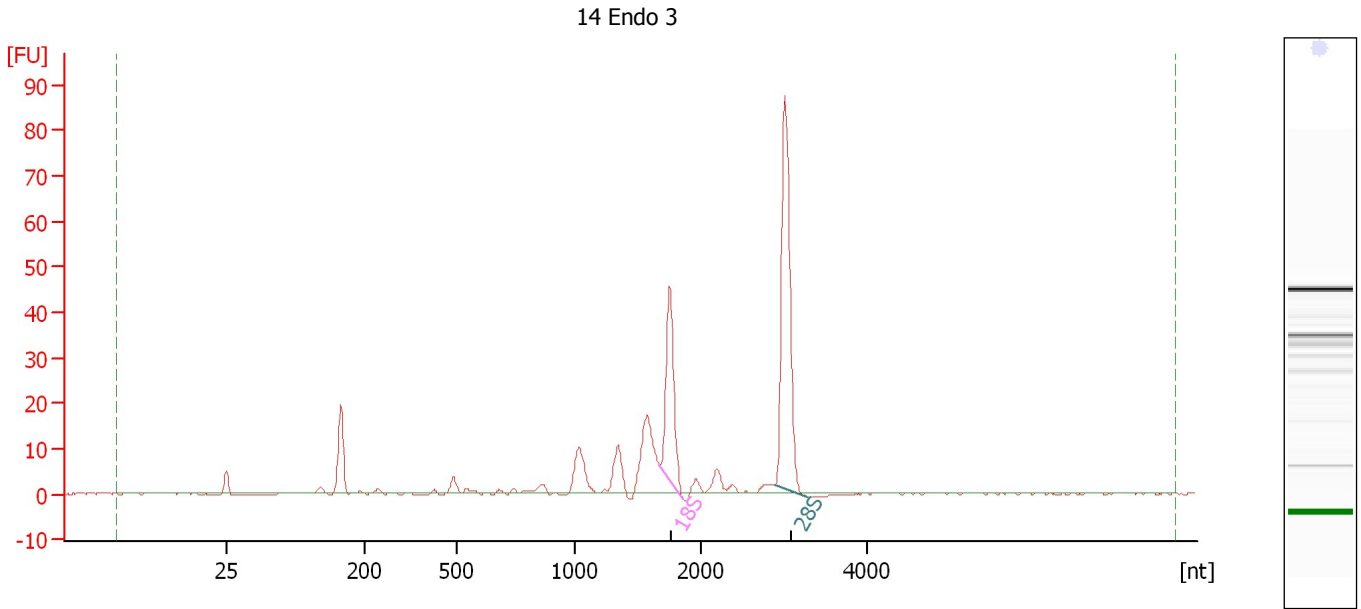
**Fragment table for sample 5 : 14 Endo 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,850	11.9	19.8
28S	2,621	3,268	23.4	38.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 14 Endo 3**

RNA Area:	223.7	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	2,028 pg/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]:	1.9	Result Flagging Label:	RIN: 7.40

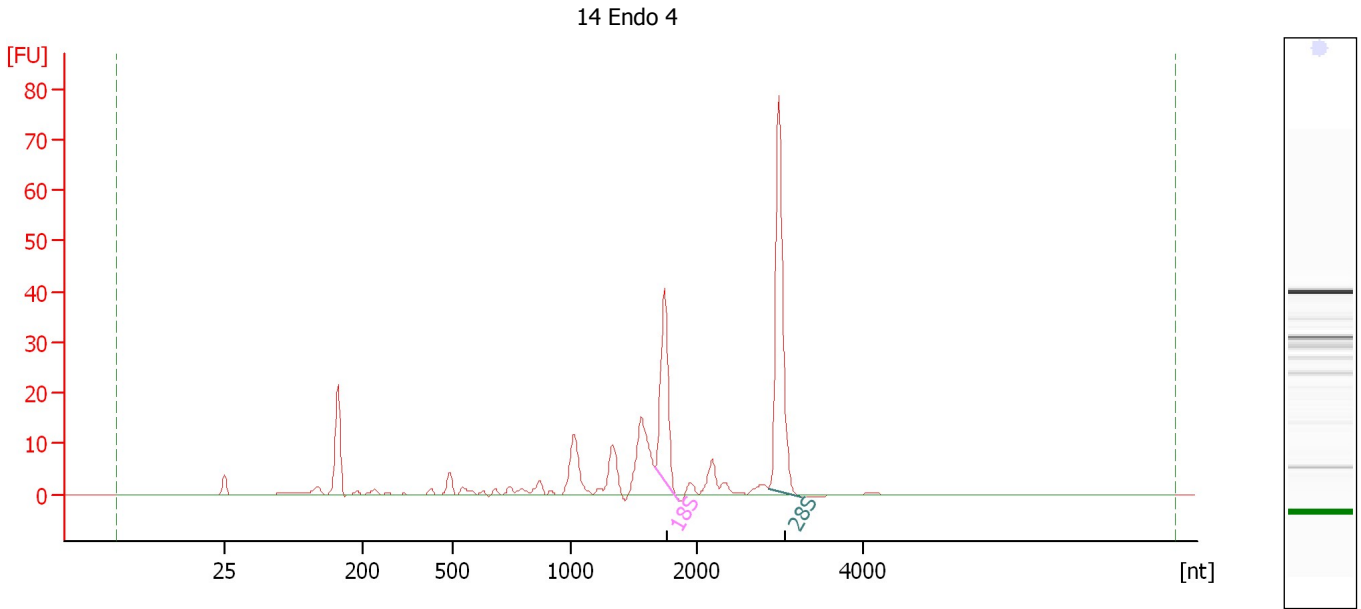
**Fragment table for sample 6 : 14 Endo 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,861	40.3	18.0
28S	2,878	3,275	75.2	33.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 14 Endo 4**

RNA Area:	204.5	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	1,854 pg/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]:	1.9	Result Flagging Label:	RIN: 7.10

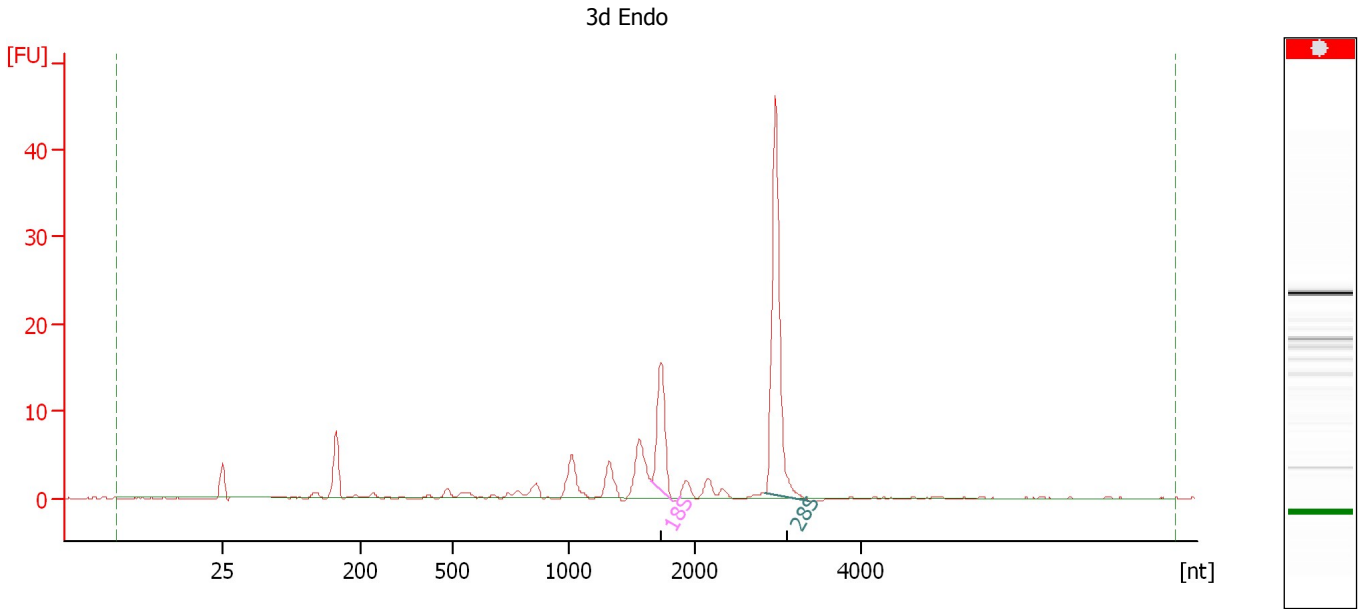
**Fragment table for sample 7 : 14 Endo 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	1,859	32.9	16.1
28S	2,866	3,265	62.7	30.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 3d Endo**

RNA Area:	94.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	859 pg/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]:	2.9	Result Flagging Label:	RIN N/A

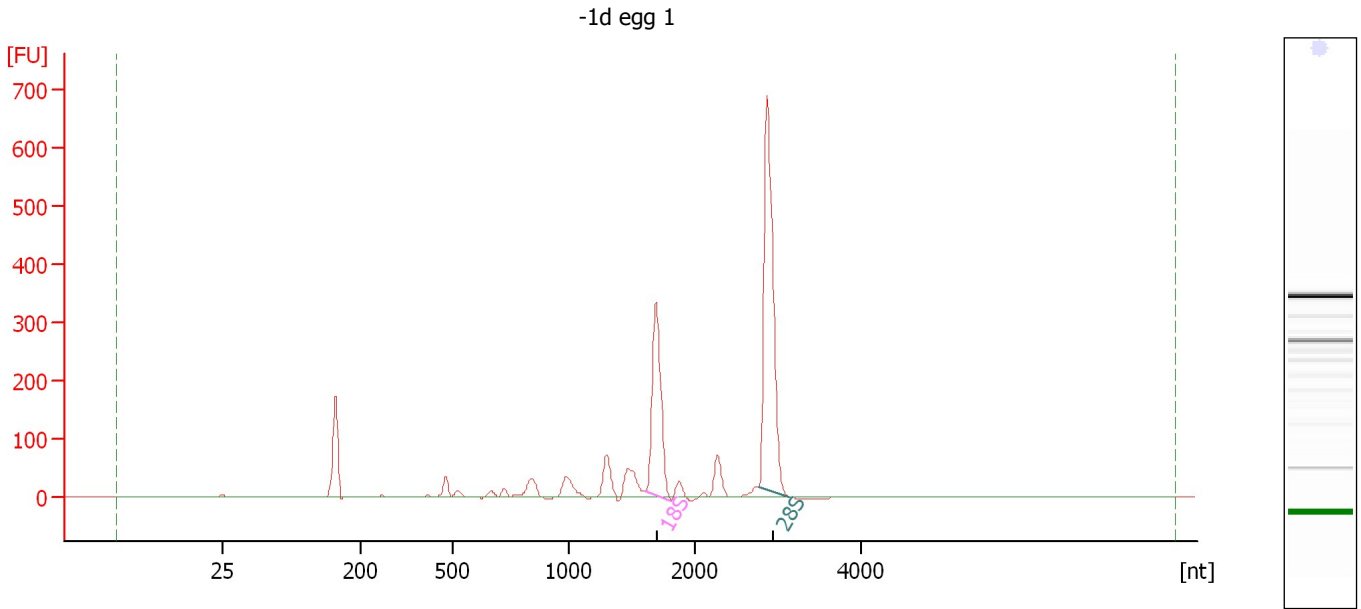
**Fragment table for sample 8 : 3d Endo**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,824	12.9	13.6
28S	2,854	3,382	38.0	40.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : -1d egg 1**

RNA Area:	1,618.9	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	14,677 pg/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]:	1.9	Result Flagging Label:	RIN: 8.10

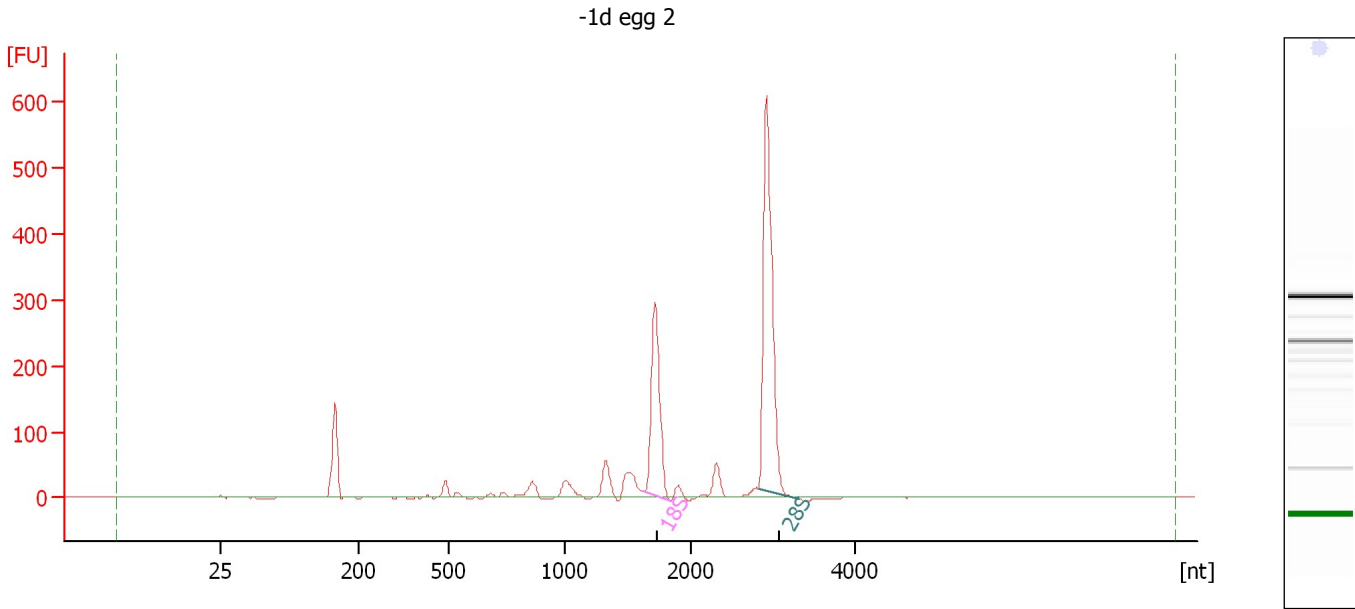
**Fragment table for sample 9 : -1d egg 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,815	348.3	21.5
28S	2,763	3,137	646.1	39.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : -1d egg 2**

RNA Area:	1,342.7	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	12,173 pg/ $\mu$ 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]:	1.9	Result Flagging Label:	RIN: 8.20

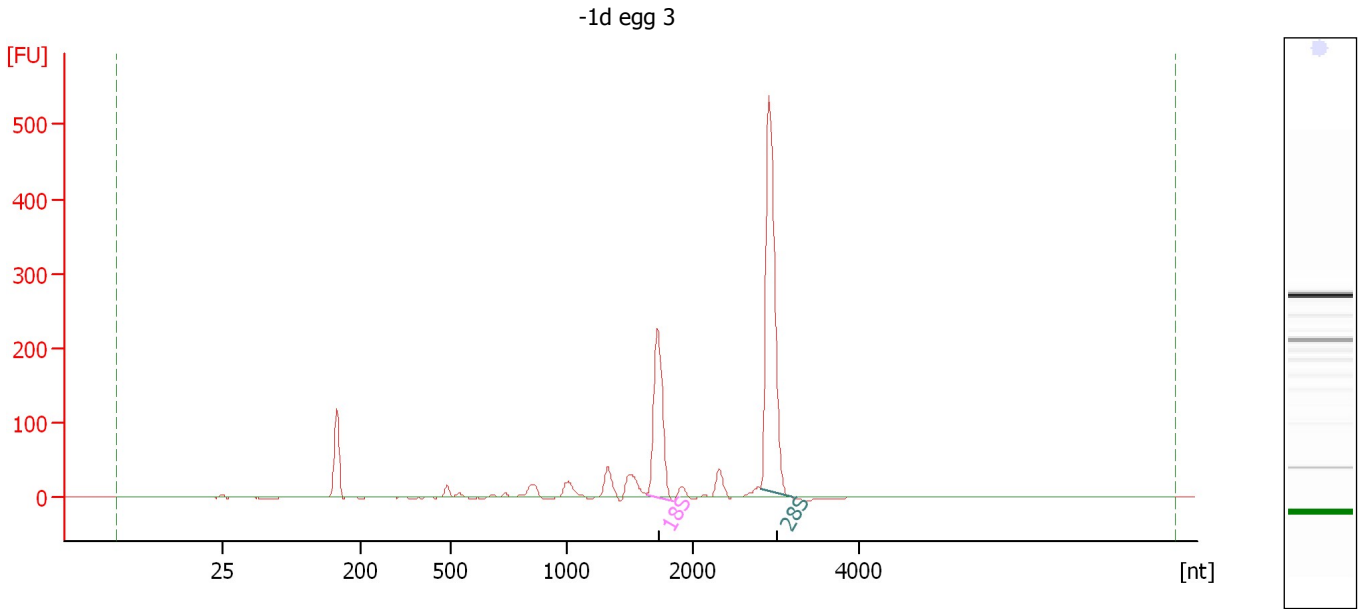
**Fragment table for sample 10 : -1d egg 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,839	301.7	22.5
28S	2,816	3,321	563.8	42.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : -1d egg 3**

RNA Area:	1,106.6	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	10,032 pg/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: 8.20

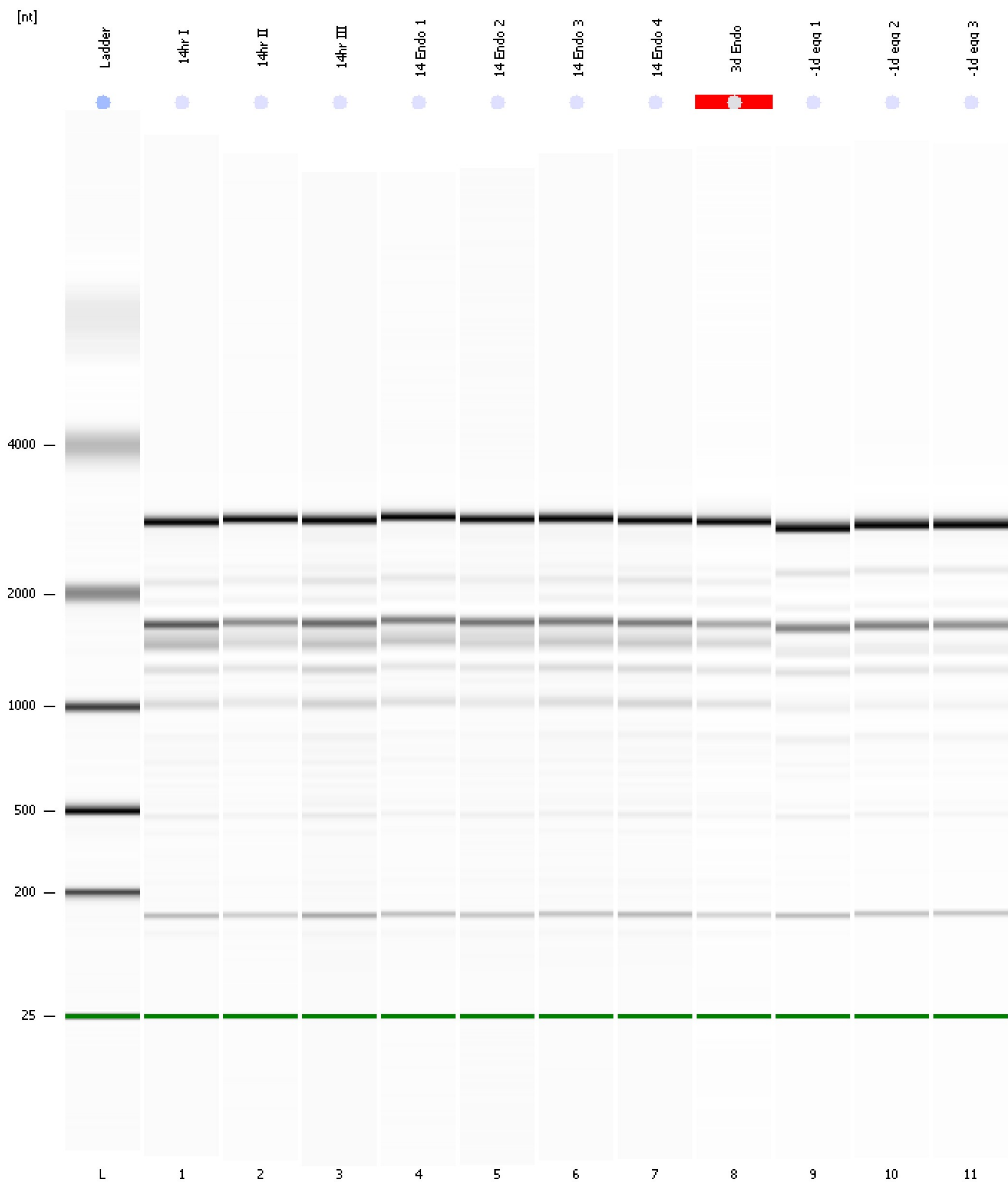
**Fragment table for sample 11 : -1d egg 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,840	237.6	21.5
28S	2,815	3,203	492.7	44.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
Modified: 4/15/2014 5:08:41 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15\_005.xad

Created: 4/15/2014 4:43:52 PM  
 Modified: 4/15/2014 5:08:41 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/15/2014 5:06:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-15\2014-04-15_005.xad)		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/15/2014 4:43:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1