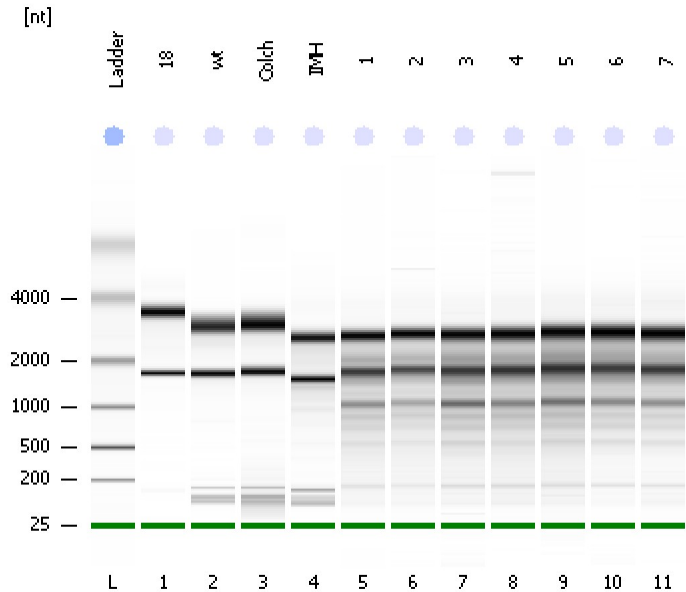


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

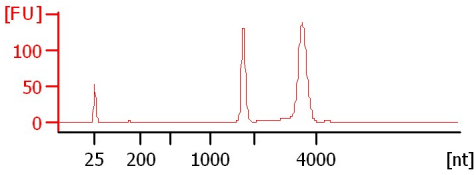
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

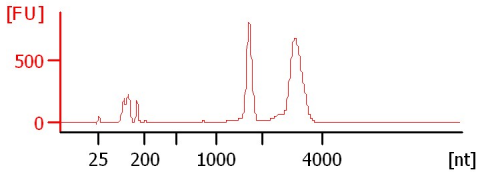
Chip Information:

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

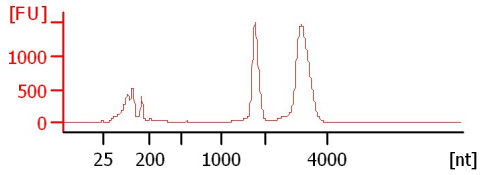
HiSeq1398 RIN:10 **18**



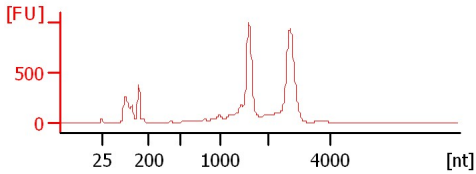
Siranoosh RIN:10 **wt**



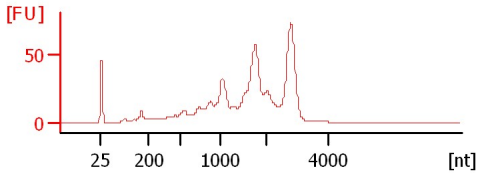
Siranoosh RIN: 9.80 **Colch**



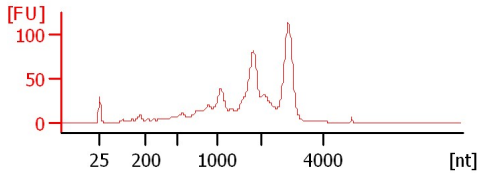
Siranoosh RIN: 9.20 **IMH**



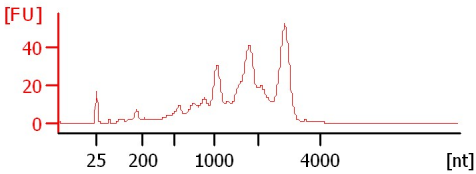
HiSeq1396 RIN: 7.70 **1**



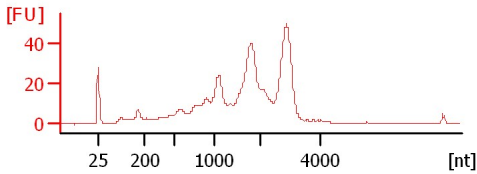
HiSeq1396 RIN: 7.90 **2**



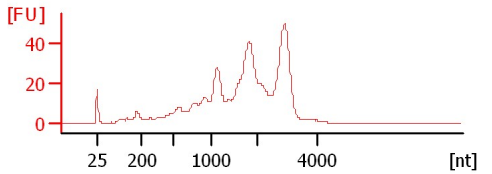
HiSeq1396 RIN: 7.50 **3**



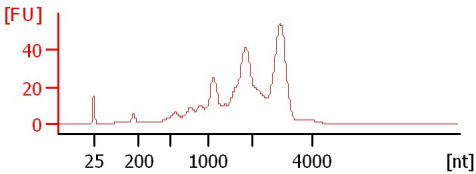
HiSeq1396 RIN: 7.80 **4**



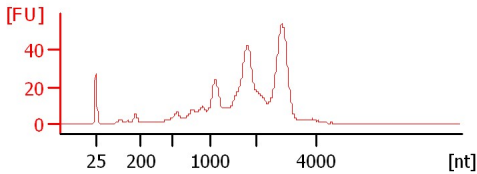
HiSeq1396 RIN: 7.70 **5**



HiSeq1396 RIN:8 **6**



HiSeq1396 RIN: 8.10 **7**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
18	HiSeq1398	✓	RIN:10	
wt	Siranoosh	✓	RIN:10	
Colch	Siranoosh	✓	RIN: 9.80	
IMH	Siranoosh	✓	RIN: 9.20	
1	HiSeq1396	✓	RIN: 7.70	
2	HiSeq1396	✓	RIN: 7.90	
3	HiSeq1396	✓	RIN: 7.50	
4	HiSeq1396	✓	RIN: 7.80	
5	HiSeq1396	✓	RIN: 7.70	
6	HiSeq1396	✓	RIN:8	
7	HiSeq1396	✓	RIN: 8.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 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

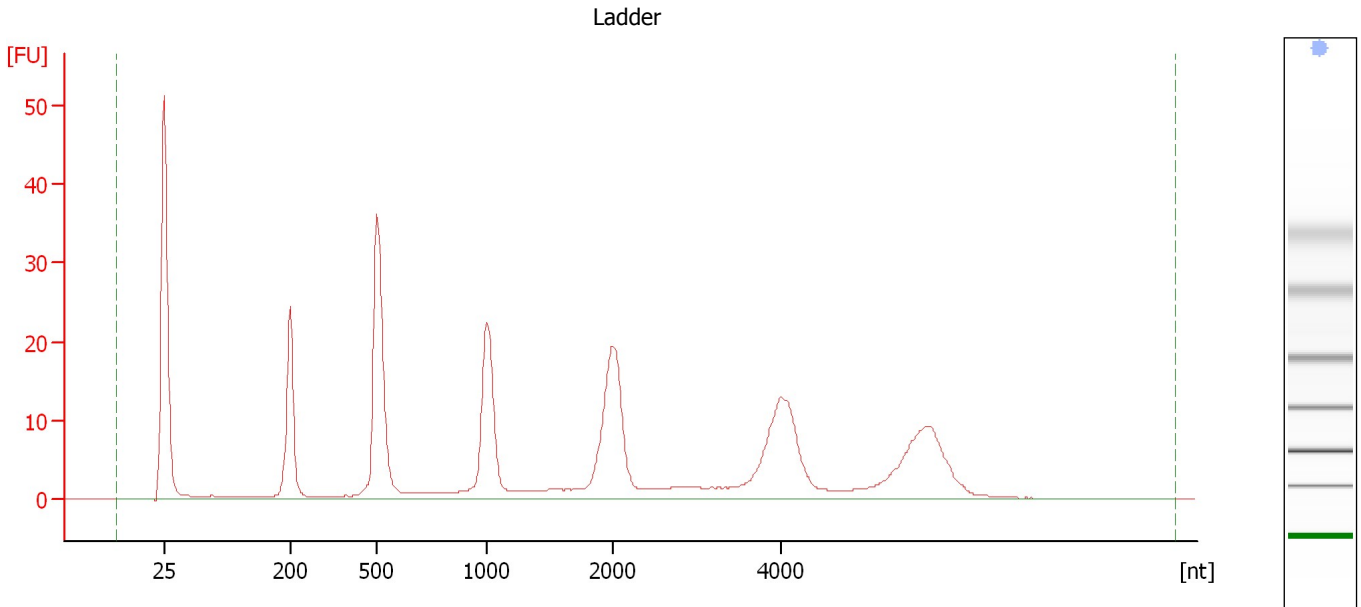
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary**



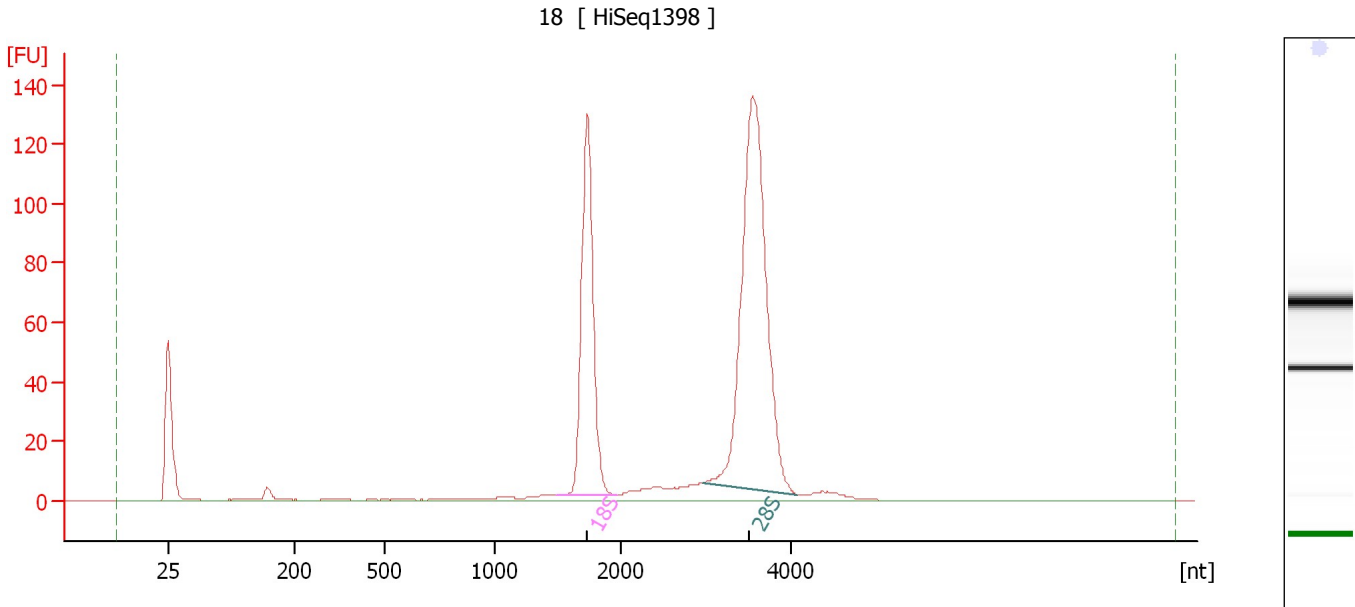
**Overall Results for Ladder**

RNA Area:	315.0	Result Flagging Color:	<span style="background-color: #ADD8E6; 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:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 18**

RNA Area:	671.3	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,131 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]:	1.8	Result Flagging Label:	RIN:10

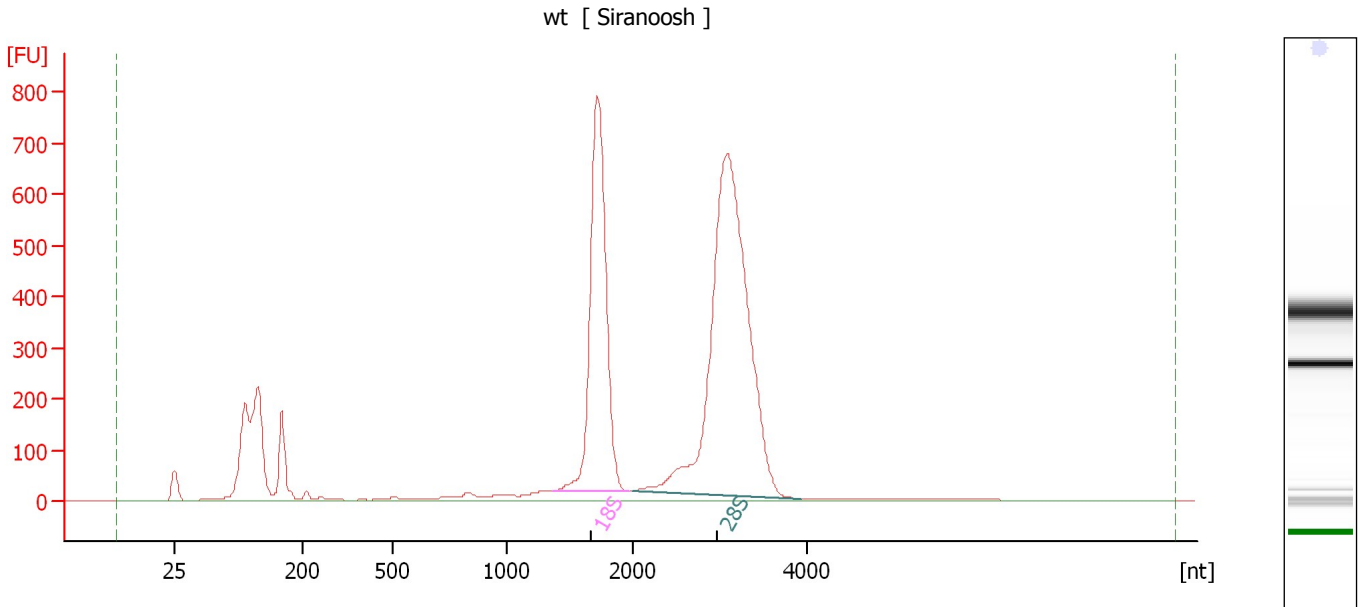
**Fragment table for sample 1 : 18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,492	1,958	193.7	28.9
28S	2,967	4,071	355.8	53.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : wt**

RNA Area:	6,152.3	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19,532 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]:	1.8	Result Flagging Label:	RIN:10

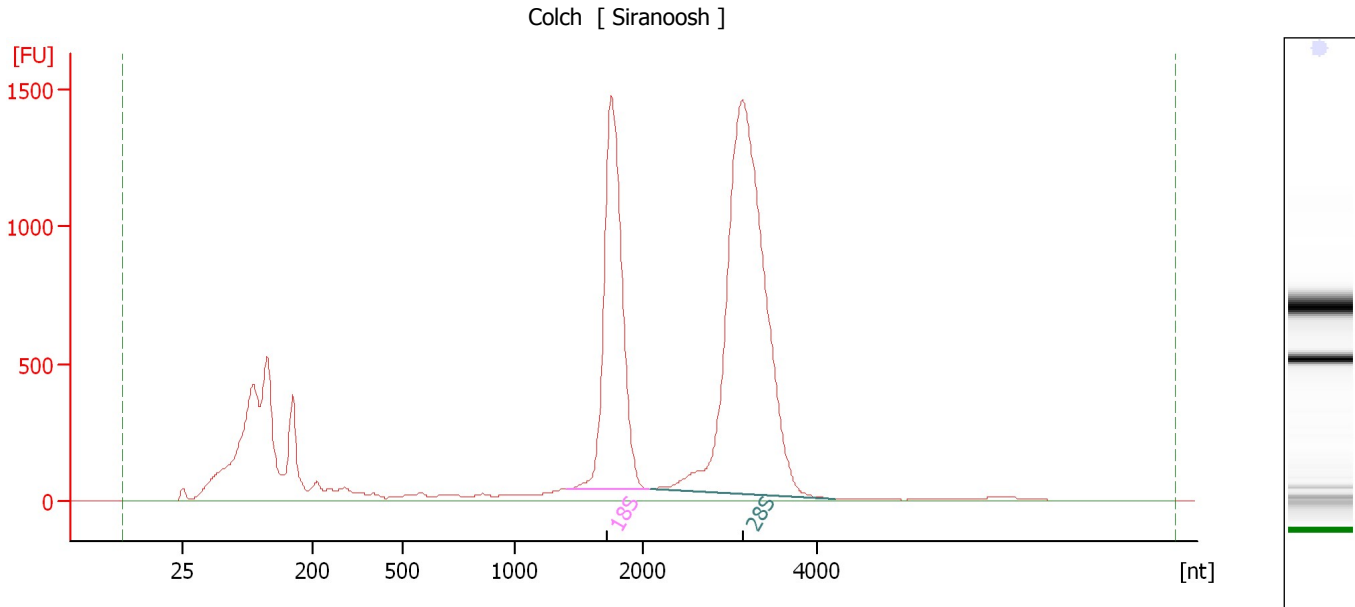
**Fragment table for sample 2 : wt**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,367	1,960	1,559.4	25.3
28S	1,994	3,934	2,766.7	45.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Colch**

RNA Area:	15,341.8	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	48,707 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: 9.80

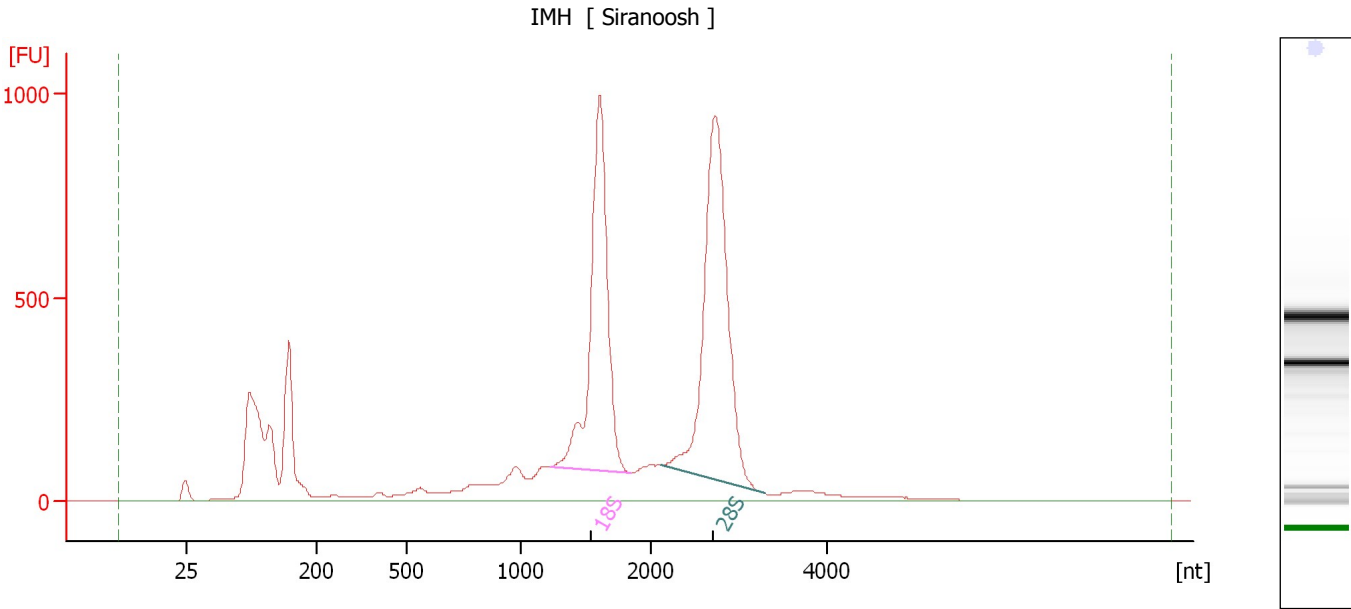
**Fragment table for sample 3 : Colch**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,397	2,066	3,257.1	21.2
28S	2,091	4,229	6,068.4	39.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : IMH**

RNA Area:	8,910.1	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	28,288 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]:	1.2	Result Flagging Label:	RIN: 9.20

**Fragment table for sample 4 : IMH**

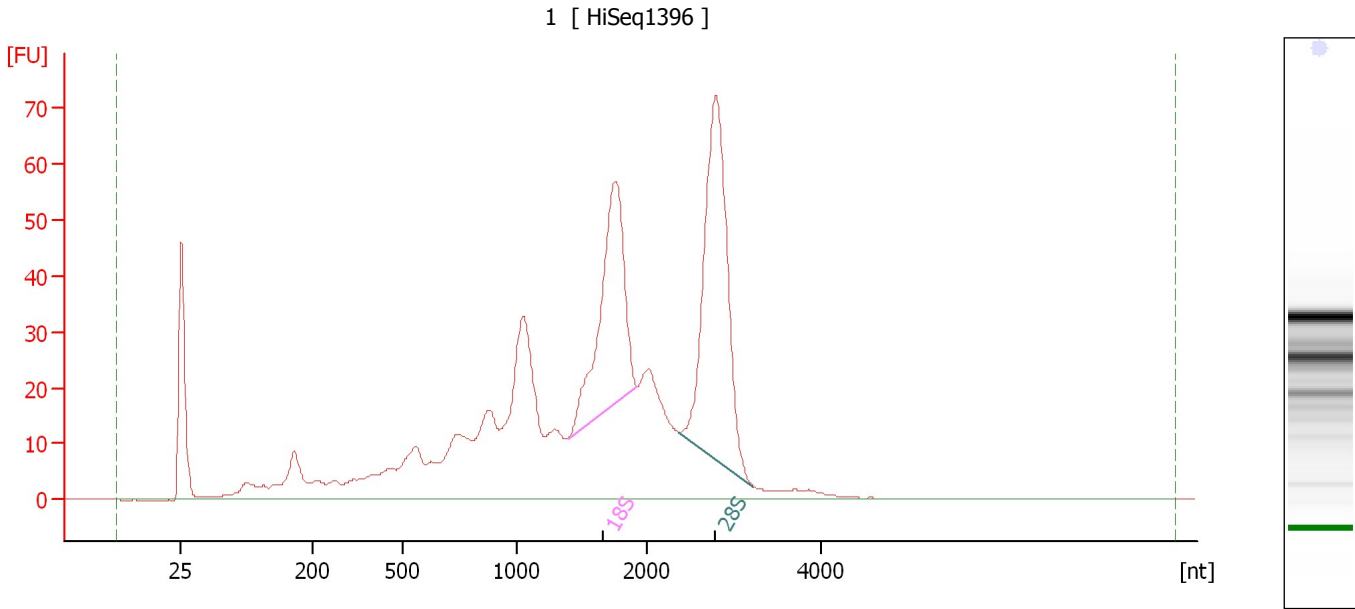
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,218	1,833	1,970.8	22.1
28S	2,116	3,292	2,398.3	26.9



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1**

RNA Area:	928.2	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,947 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]:	1.4	Result Flagging Label:	RIN: 7.70

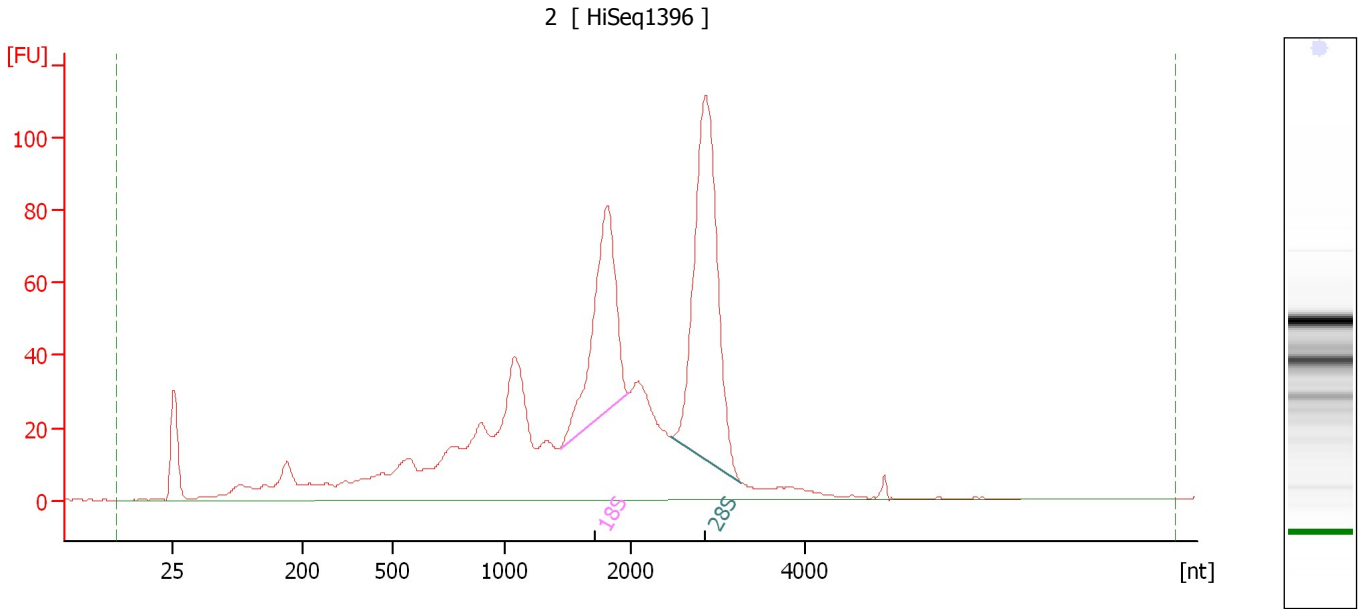
**Fragment table for sample 5 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,394	1,930	121.0	13.0
28S	2,372	3,227	171.2	18.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 2**

RNA Area:	1,311.5	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	4,164 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: 7.90

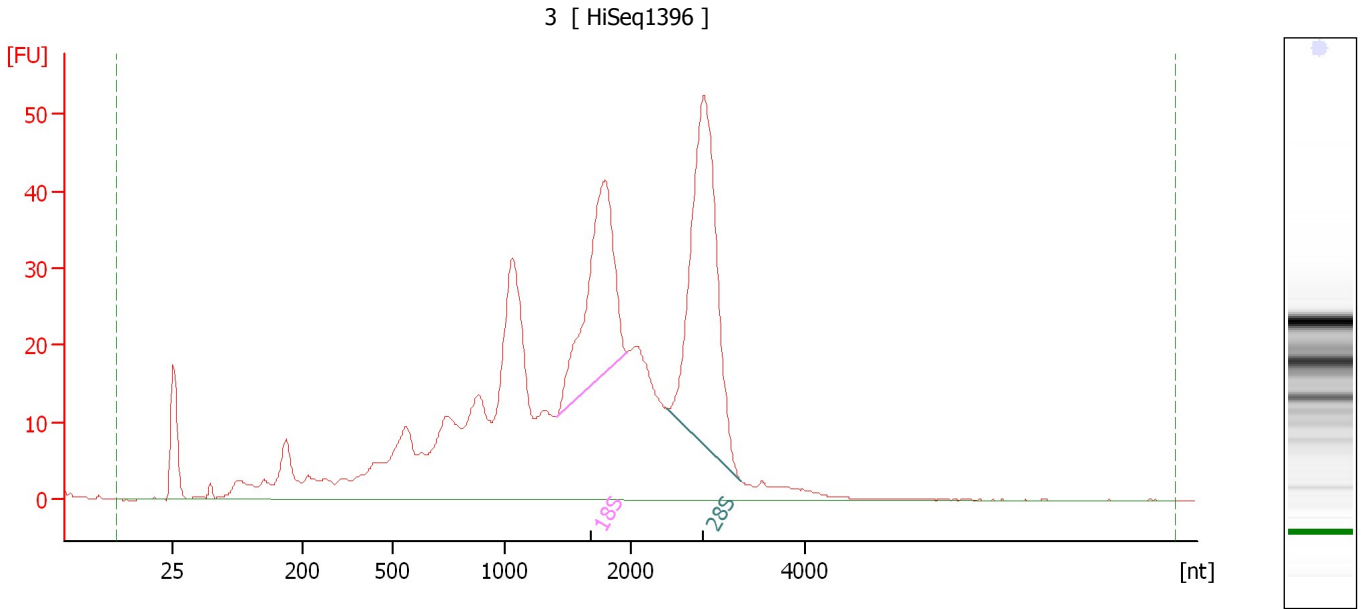
**Fragment table for sample 6 : 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,441	1,977	165.0	12.6
28S	2,450	3,268	268.9	20.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 3**

RNA Area:	821.3	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,607 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]:	1.5	Result Flagging Label:	RIN: 7.50

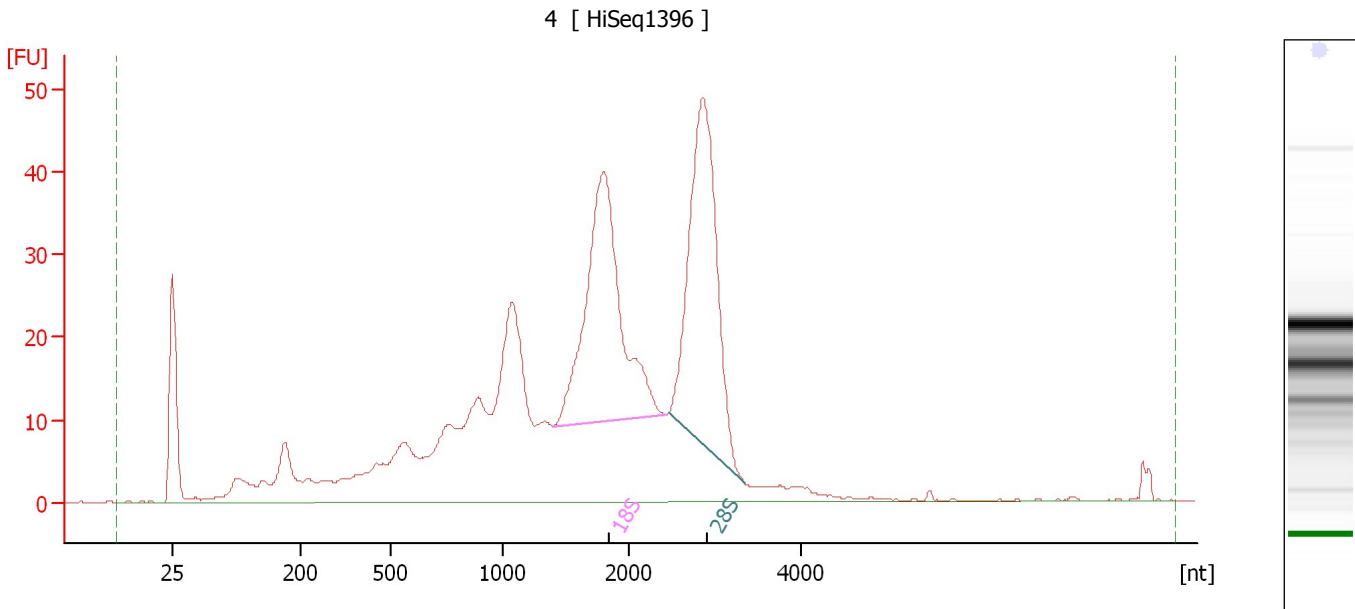
**Fragment table for sample 7 : 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,416	1,960	88.5	10.8
28S	2,412	3,268	135.0	16.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 4**

RNA Area:	763.4	RNA Integrity Number (RIN):	7.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,423 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]:	1.0	Result Flagging Label:	RIN: 7.80

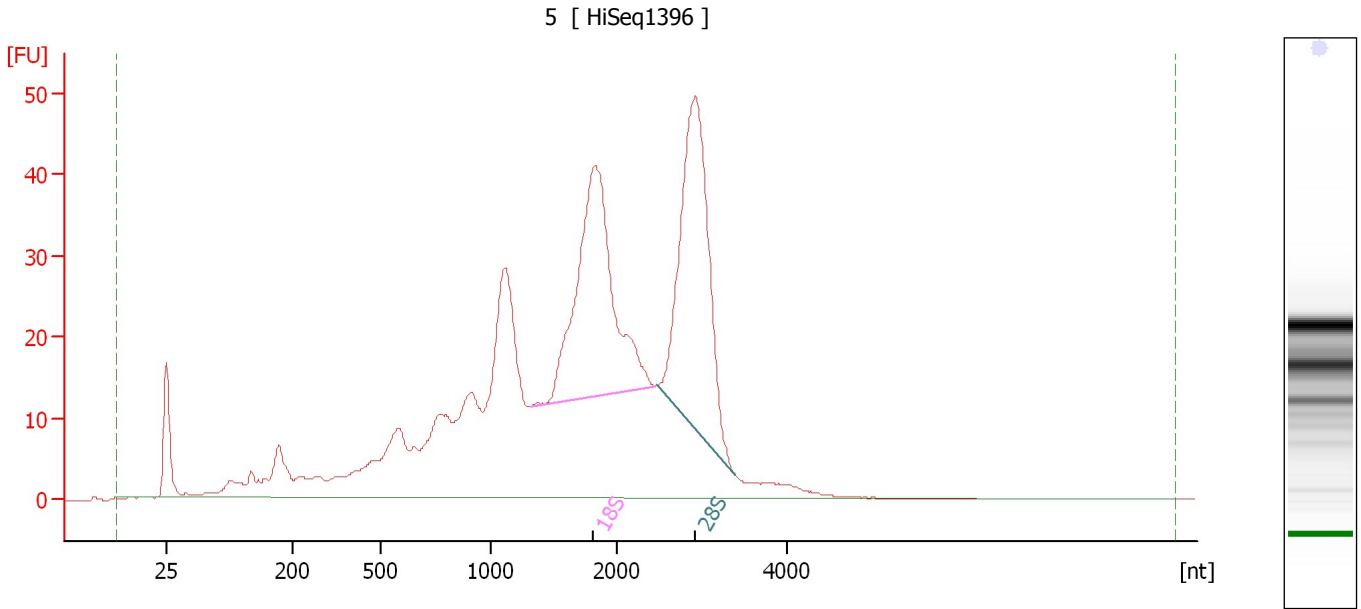
**Fragment table for sample 8 : 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,397	2,425	132.6	17.4
28S	2,450	3,333	134.9	17.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 5**

RNA Area:	834.5	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,649 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]:	1.0	Result Flagging Label:	RIN: 7.70

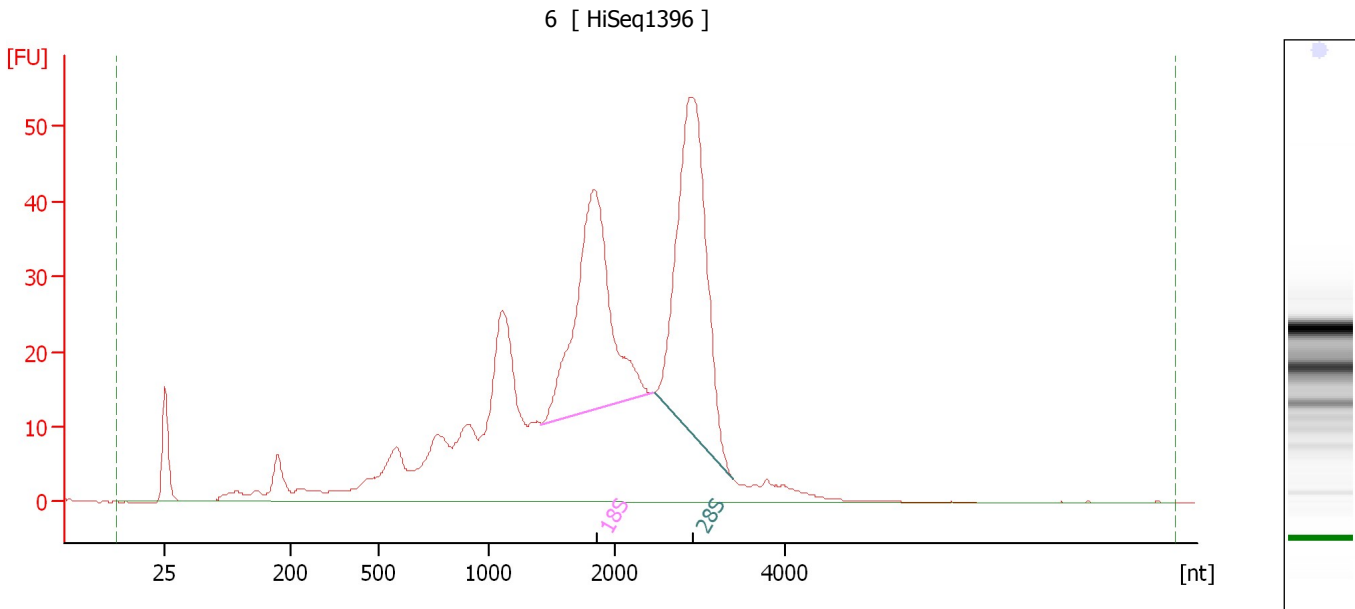
**Fragment table for sample 9 : 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,311	2,441	133.0	15.9
28S	2,467	3,399	135.0	16.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 6**

RNA Area:	788.2	RNA Integrity Number (RIN):	8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,502 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]:	1.2	Result Flagging Label:	RIN:8

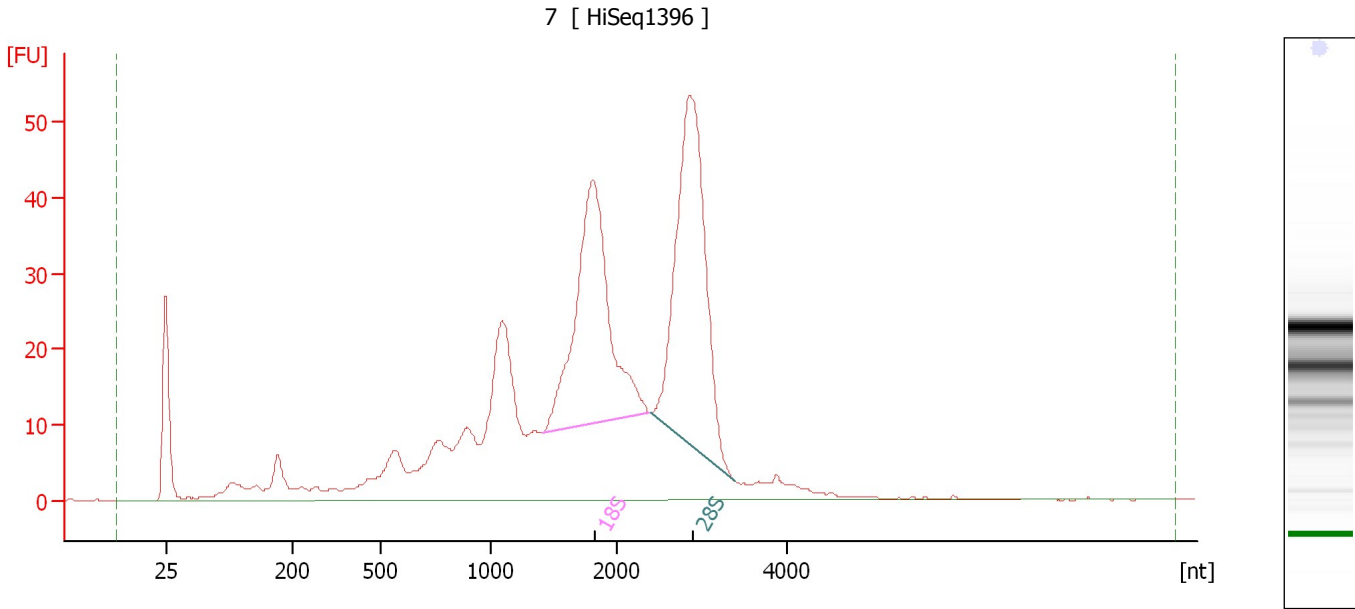
**Fragment table for sample 10 : 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,411	2,455	131.0	16.6
28S	2,480	3,402	154.6	19.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
 Modified: 6/14/2018 12:48:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 7**

RNA Area:	753.1	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,391 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]:	1.1	Result Flagging Label:	RIN: 8.10

**Fragment table for sample 11 : 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,413	2,378	138.6	18.4
28S	2,404	3,399	157.6	20.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-13\2018-06-13\_003.xad

Created: 6/13/2018 3:10:31 PM  
Modified: 6/14/2018 12:48:06 PM

**Gel Image**

