

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
Modified: 2/2/2017 12:17:08 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)

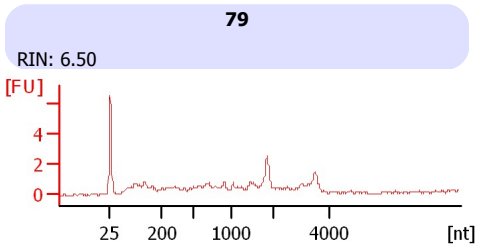
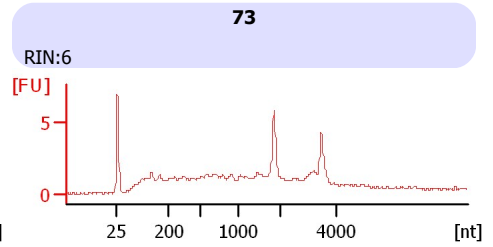
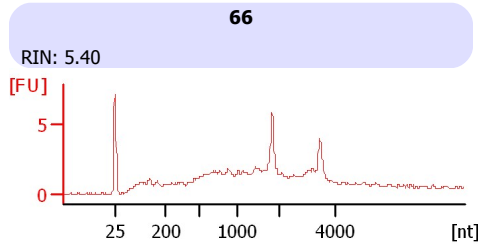
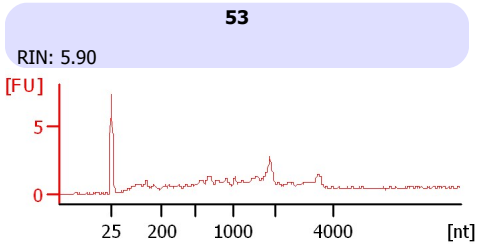
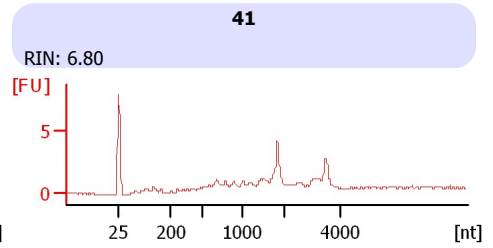
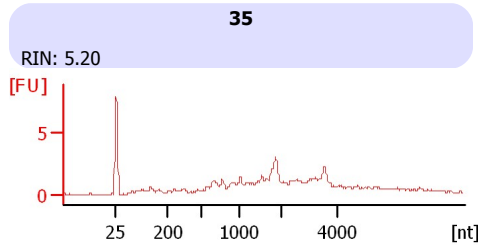
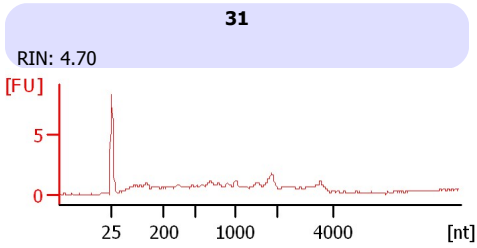
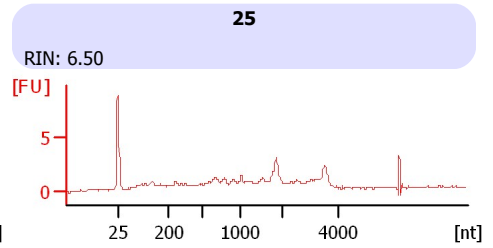
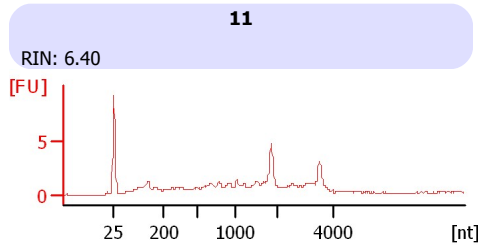
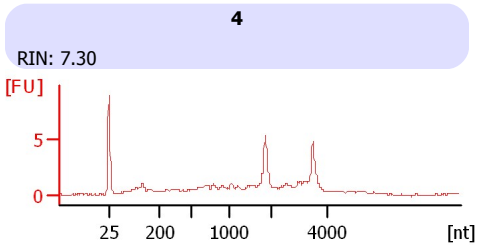
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
4		✓	RIN: 7.30	
11		✓	RIN: 6.40	
25		✓	RIN: 6.50	
31		✓	RIN: 4.70	
35		✓	RIN: 5.20	
41		✓	RIN: 6.80	
53		✓	RIN: 5.90	
66		✓	RIN: 5.40	
73		✓	RIN:6	
79		✓	RIN: 6.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
Modified: 2/2/2017 12:17:08 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

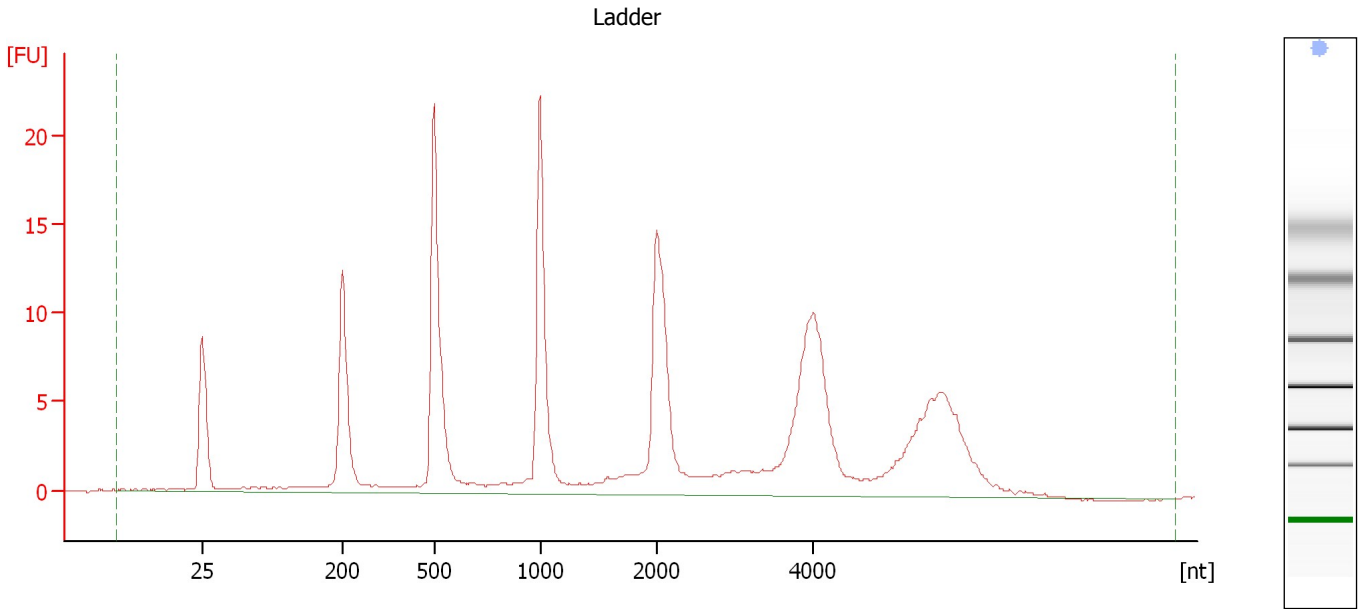
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary**



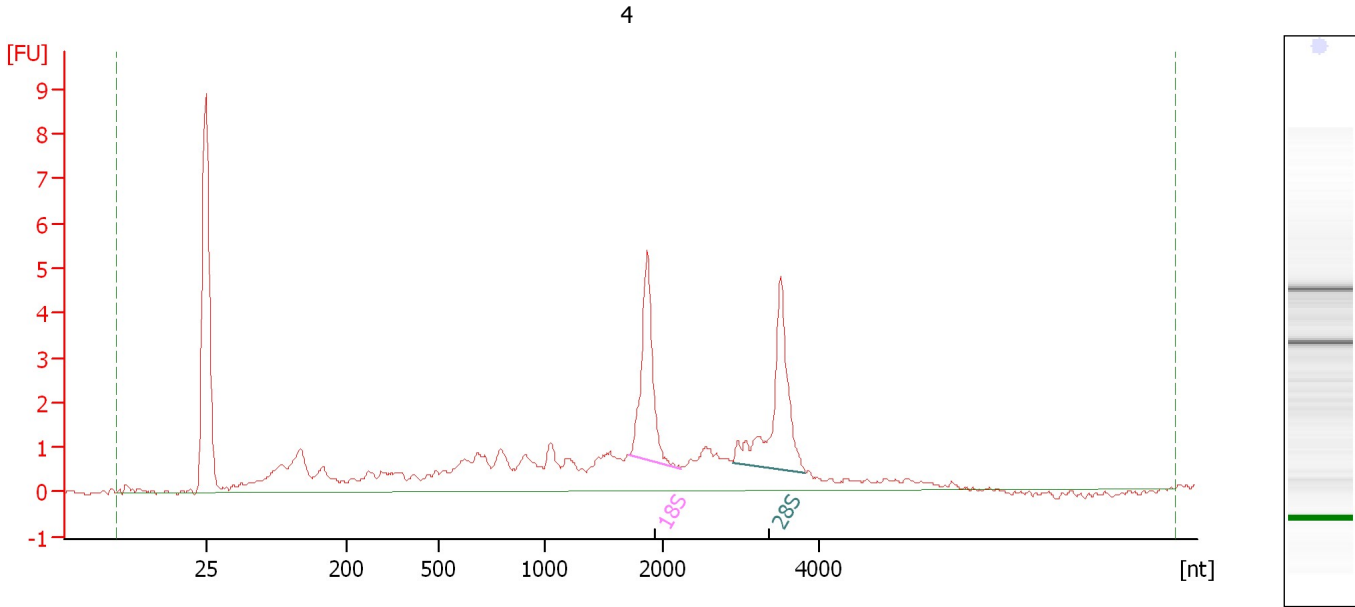
**Overall Results for Ladder**

RNA Area:	201.0	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:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 4**

RNA Area: 53.9                      RNA Integrity Number (RIN): 7.3 (B.02.08)  
RNA Concentration: 40 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 7.30

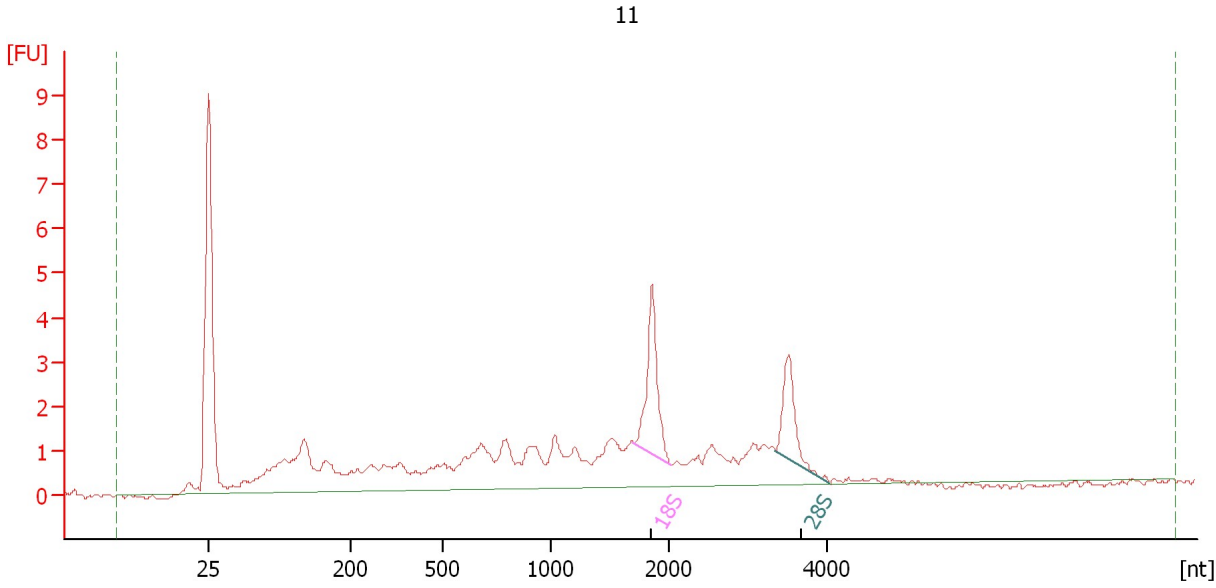
**Fragment table for sample 1 : 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,710	2,221	6.1	11.4
28S	2,902	3,814	7.2	13.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 11**

RNA Area:	57.1	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	43 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]:	0.6	Result Flagging Label:	RIN: 6.40

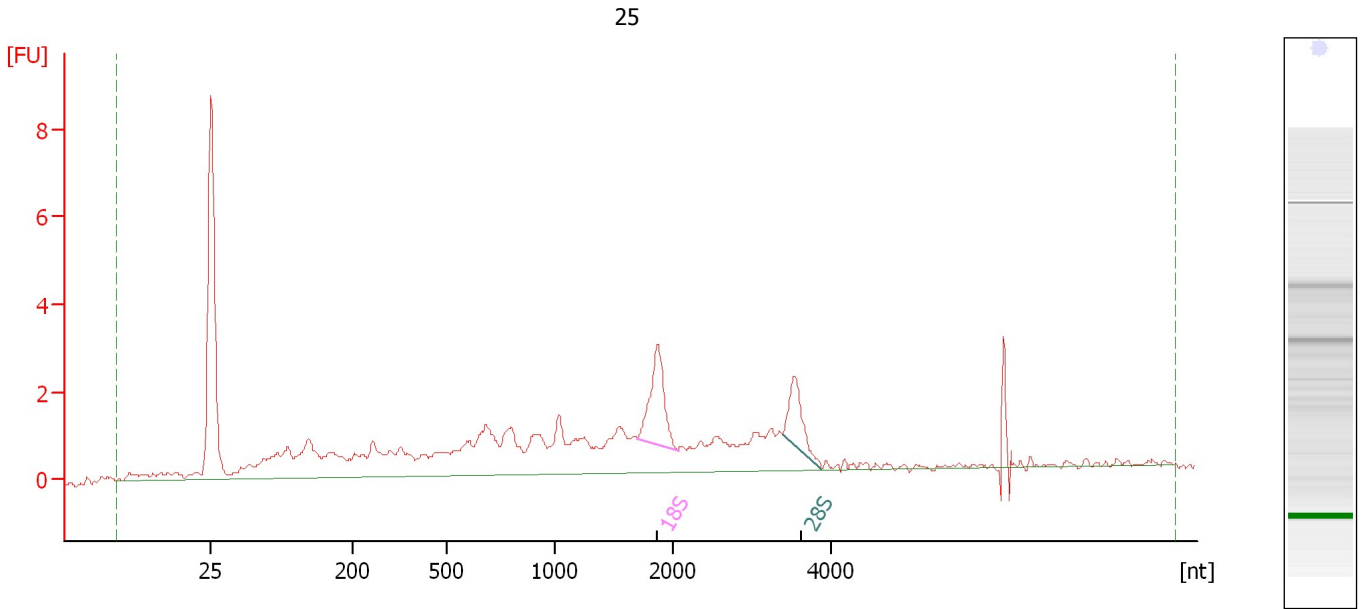
**Fragment table for sample 2 : 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,034	4.8	8.3
28S	3,346	4,036	2.9	5.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 25**

RNA Area:	57.3	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	43 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]:	0.6	Result Flagging Label:	RIN: 6.50

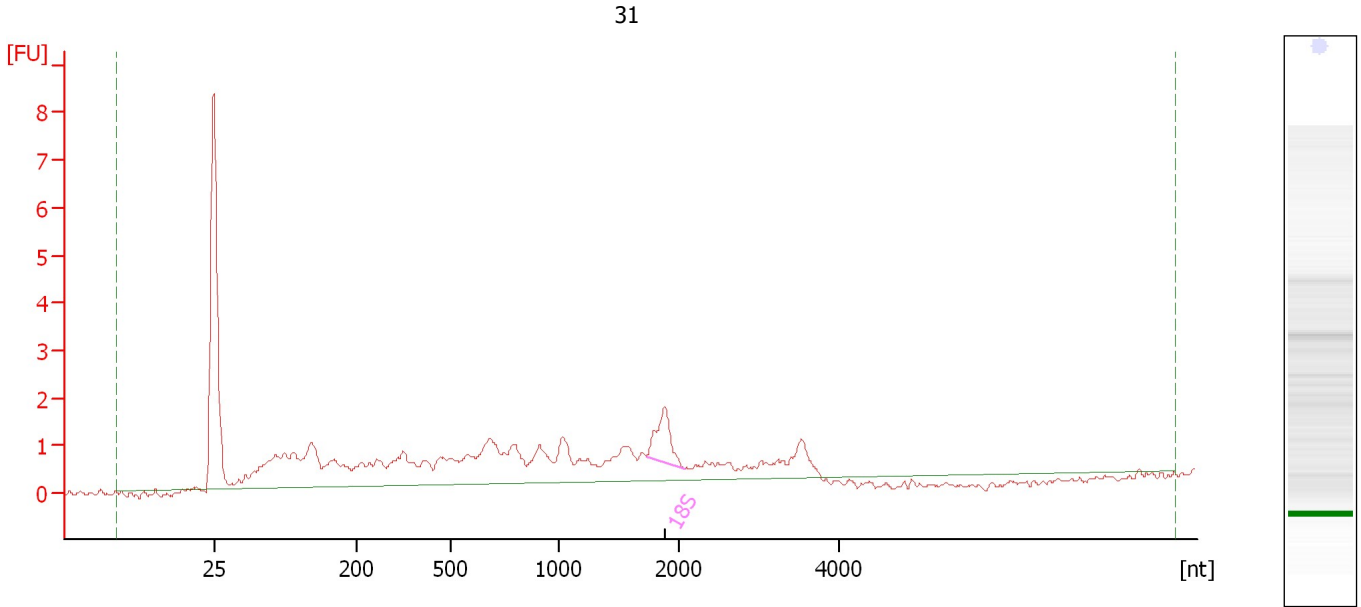
**Fragment table for sample 3 : 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,064	3.7	6.4
28S	3,384	3,869	2.2	3.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 31**

RNA Area:	39.0	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	29 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: 4.70

**Fragment table for sample 4 : 31**

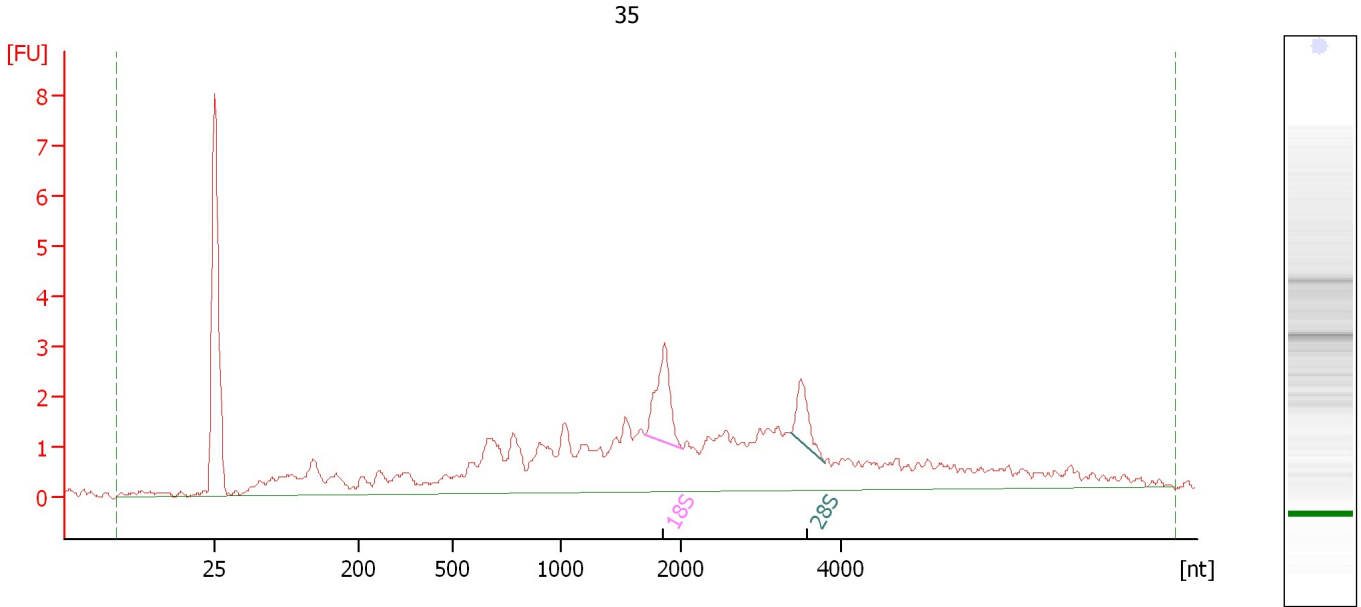
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,067	2.0	5.2



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 35**

RNA Area:	63.9	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	48 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]:	0.5	Result Flagging Label:	RIN: 5.20

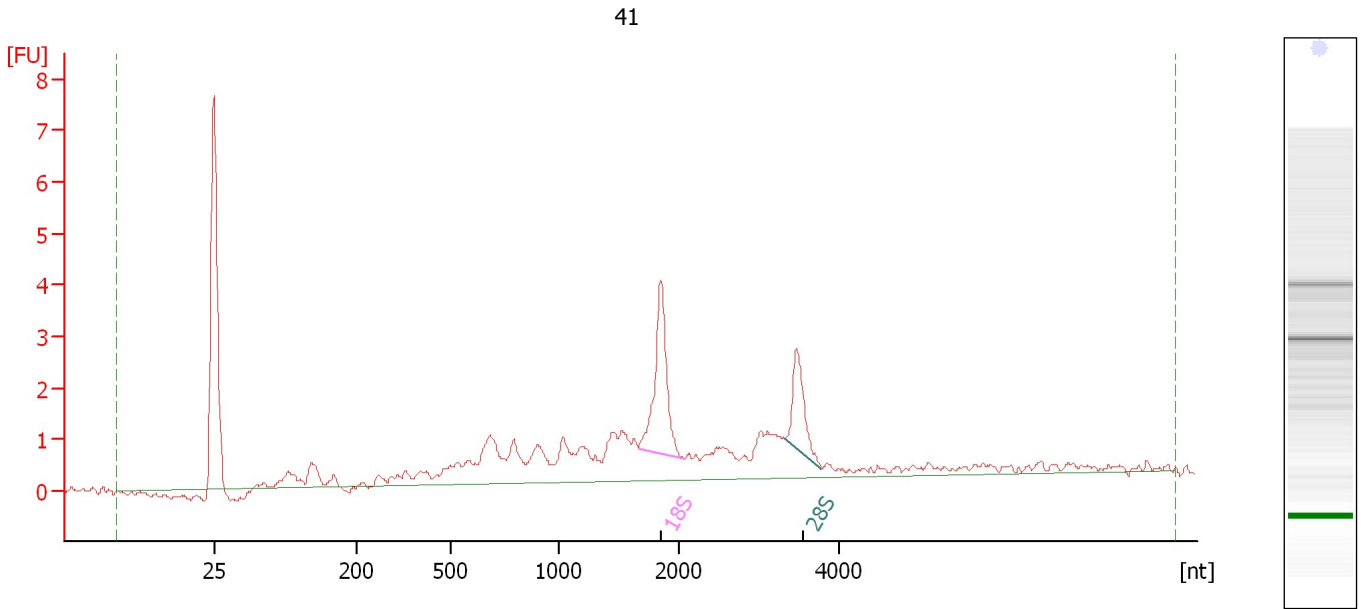
**Fragment table for sample 5 : 35**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,015	3.2	5.0
28S	3,377	3,791	1.5	2.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 41**

RNA Area:	37.8	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	28 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]:	0.5	Result Flagging Label:	RIN: 6.80

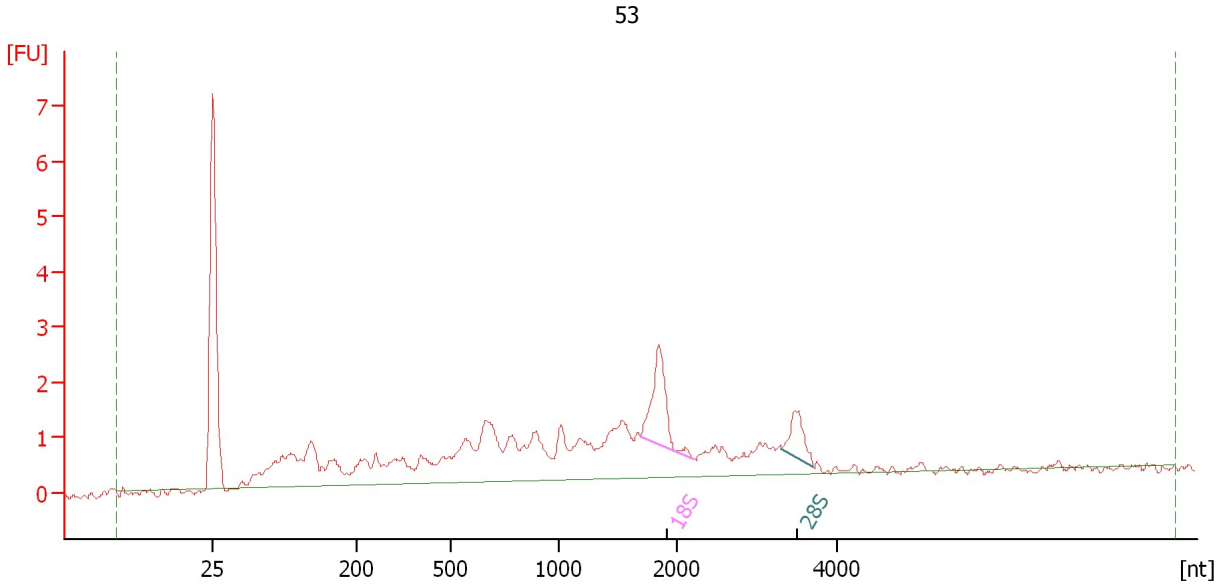
**Fragment table for sample 6 : 41**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	2,081	4.6	12.2
28S	3,339	3,780	2.3	6.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 53**

RNA Area:	40.6	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	30 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]:	0.4	Result Flagging Label:	RIN: 5.90

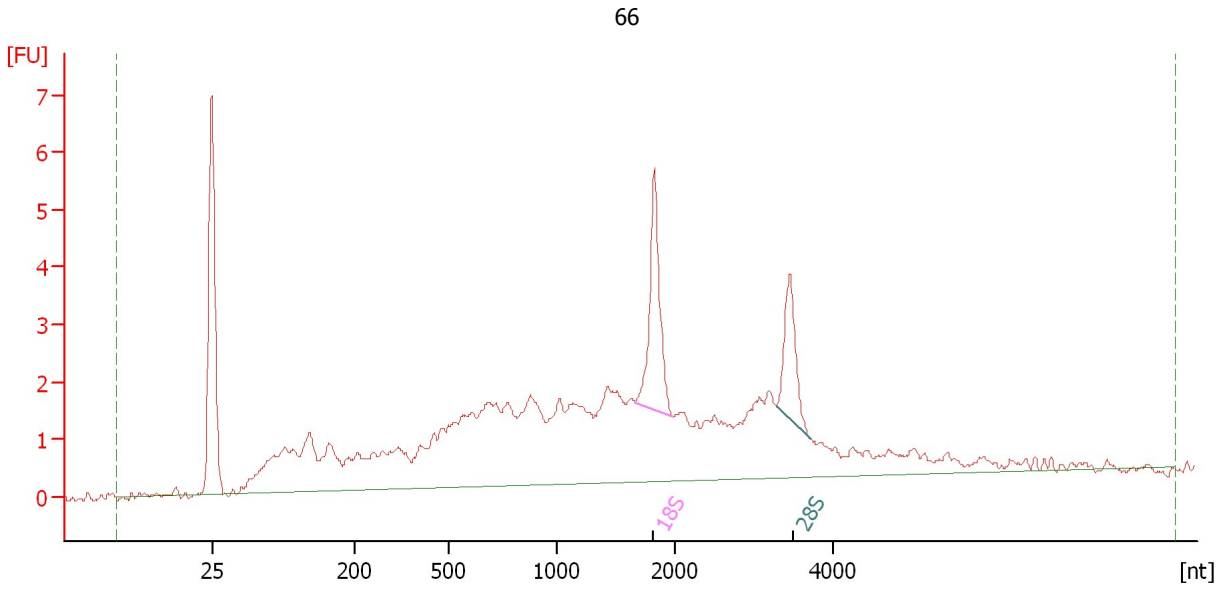
**Fragment table for sample 7 : 53**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,200	2.8	7.0
28S	3,313	3,716	1.2	3.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 66**

RNA Area:	83.6	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	62 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]:	0.6	Result Flagging Label:	RIN: 5.40

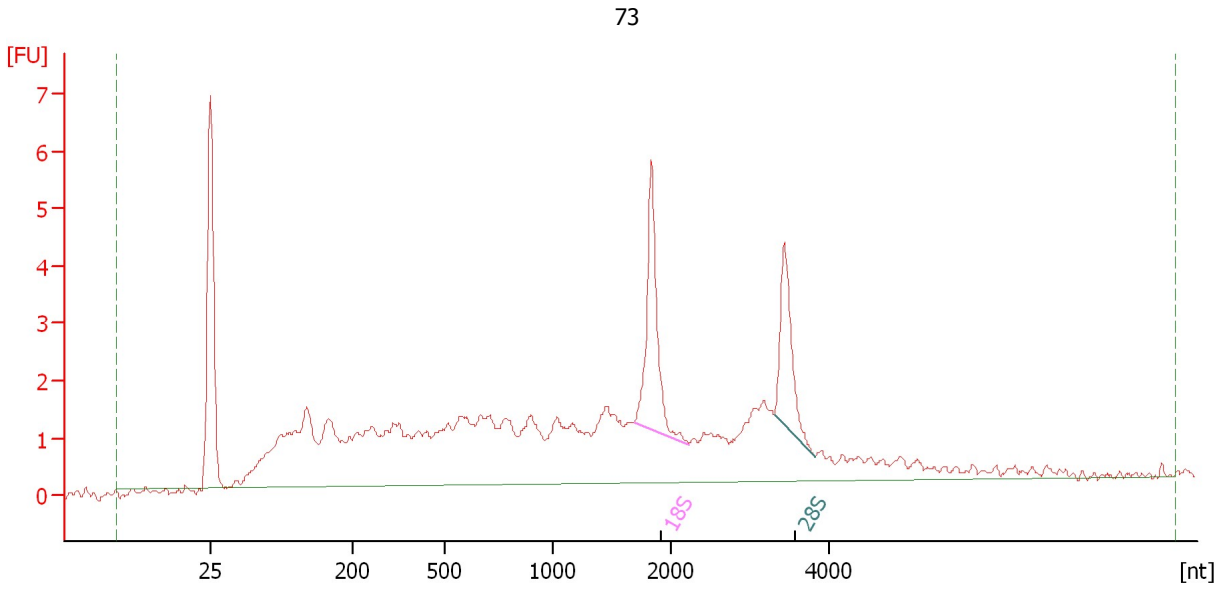
**Fragment table for sample 8 : 66**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,989	5.1	6.0
28S	3,275	3,705	2.9	3.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 73**

RNA Area:	80.6	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	60 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

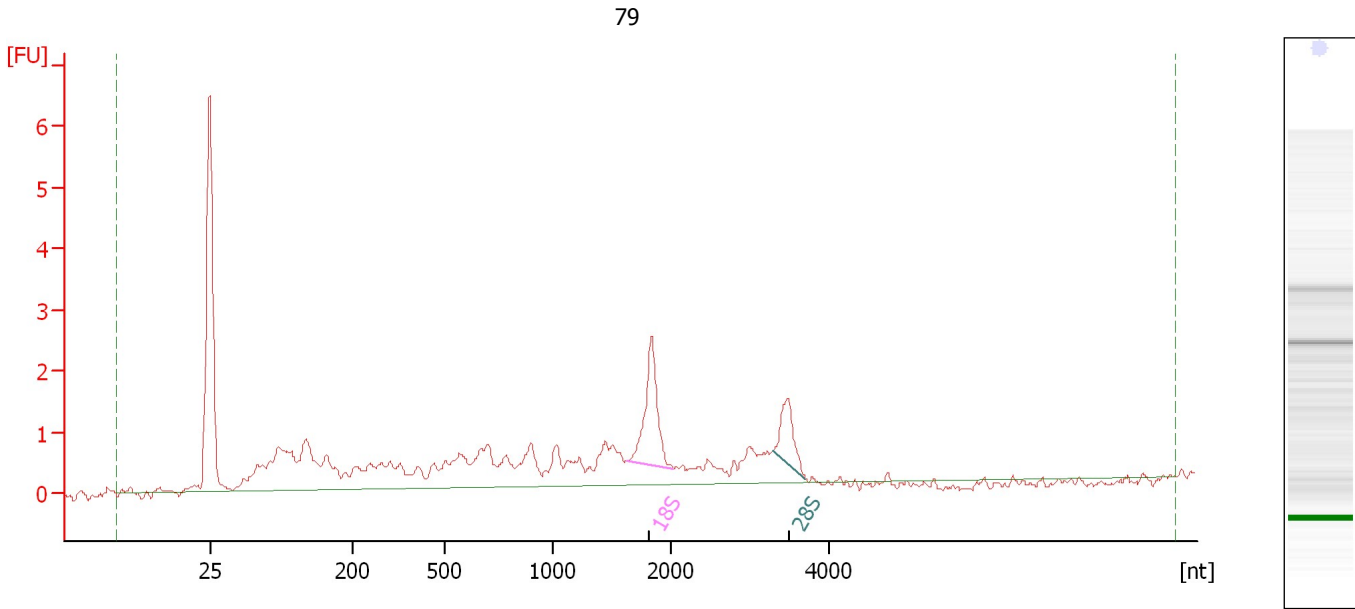
**Fragment table for sample 9 : 73**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,689	2,225	5.7	7.1
28S	3,304	3,831	3.7	4.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
 Modified: 2/2/2017 12:17:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 79**

RNA Area:	34.4	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	26 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]:	0.5	Result Flagging Label:	RIN: 6.50

**Fragment table for sample 10 : 79**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	2,036	3.1	9.1
28S	3,291	3,696	1.5	4.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad

Created: 2/2/2017 11:08:15 AM  
Modified: 2/2/2017 12:17:08 PM

**Gel Image**

Assay Class: Eukaryote Total RNA Nano Created: 2/2/2017 11:08:15 AM  
 Data Path: C:\...pert\data\2017-02-02\2017-02-02\_001\_HiSeq842\_TotalRNAQC.xad Modified: 2/2/2017 12:17:08 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		2/2/2017 11:32:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-02\2017-02-02_001.xad)		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/2/2017 11:08:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1