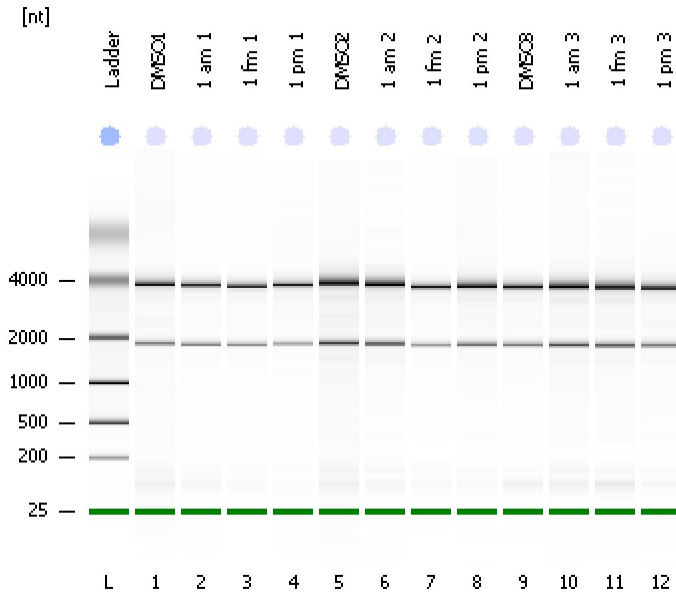


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

Electrophoresis File Run Summary



Instrument Information:

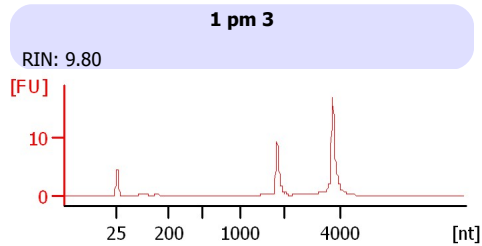
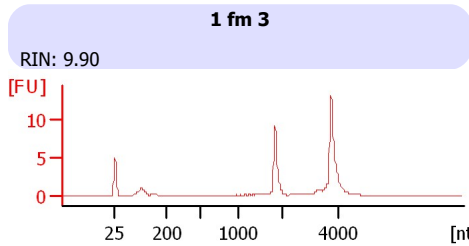
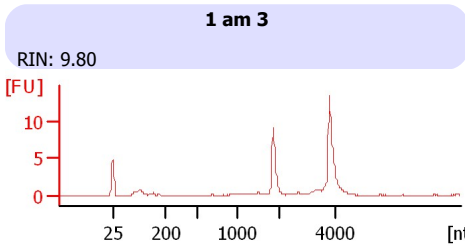
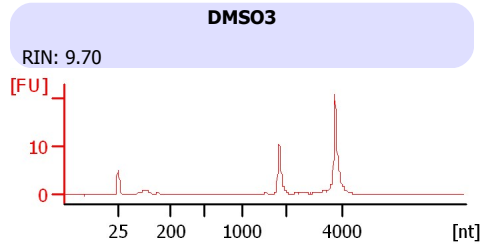
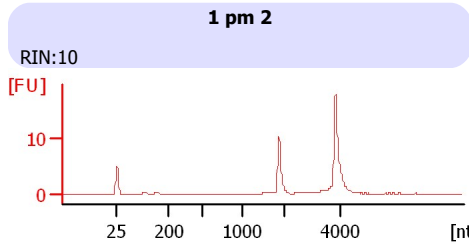
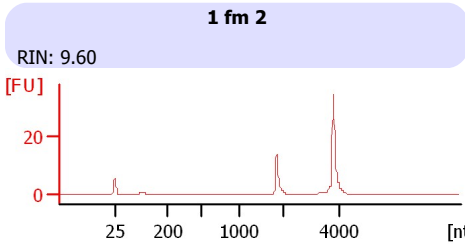
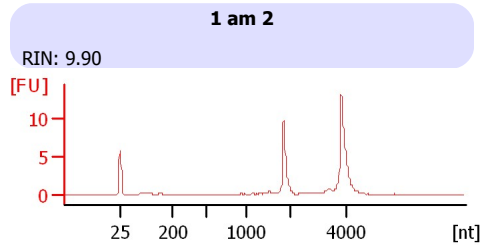
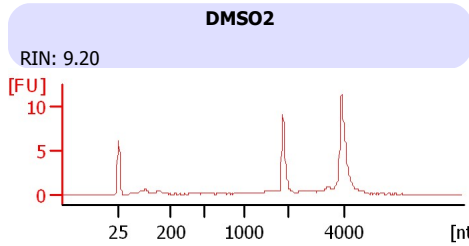
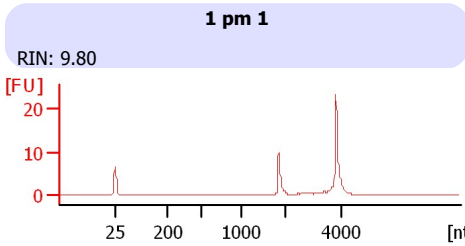
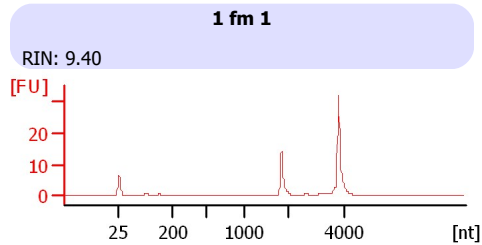
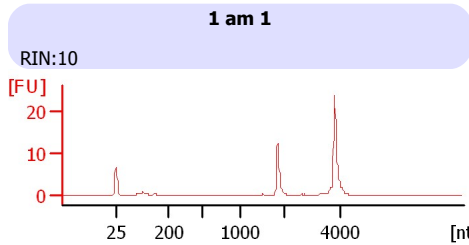
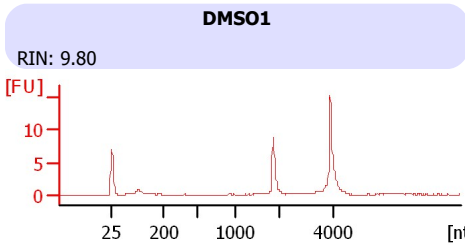
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
 Modified: 6/28/2016 3:13:37 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
DMSO1		✓	RIN: 9.80	
1 am 1		✓	RIN:10	
1 fm 1		✓	RIN: 9.40	
1 pm 1		✓	RIN: 9.80	
DMSO2		✓	RIN: 9.20	
1 am 2		✓	RIN: 9.90	
1 fm 2		✓	RIN: 9.60	
1 pm 2		✓	RIN:10	
DMSO3		✓	RIN: 9.70	
1 am 3		✓	RIN: 9.80	
1 fm 3		✓	RIN: 9.90	
1 pm 3		✓	RIN: 9.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 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

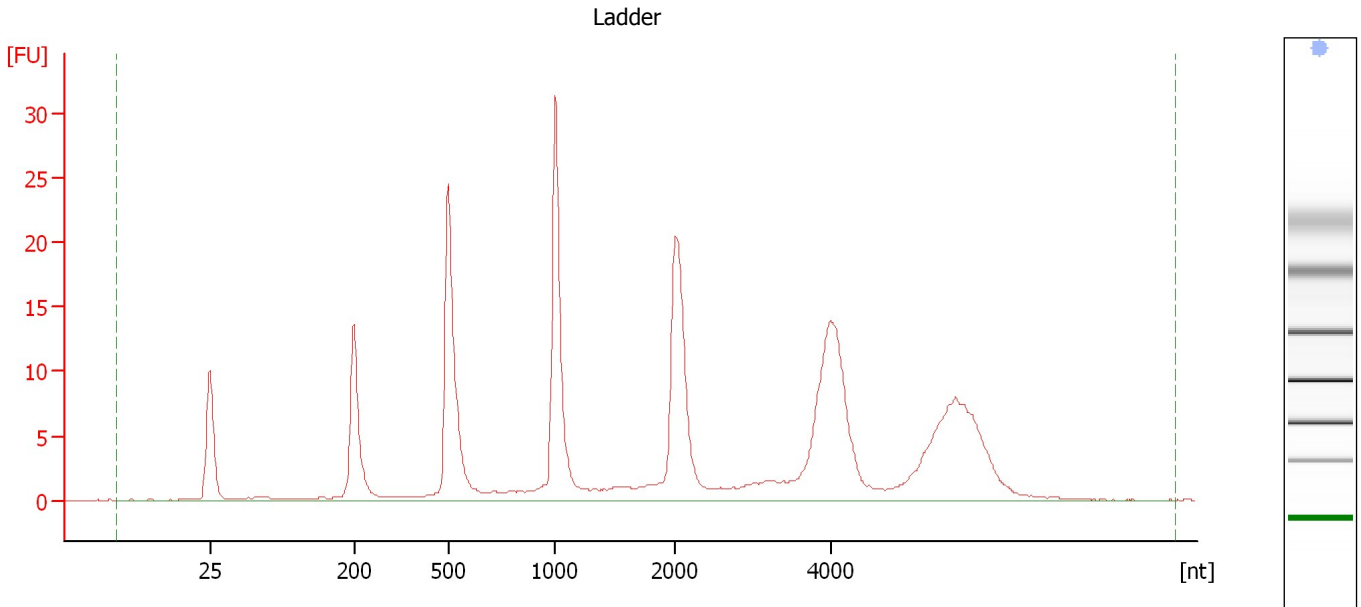
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary**



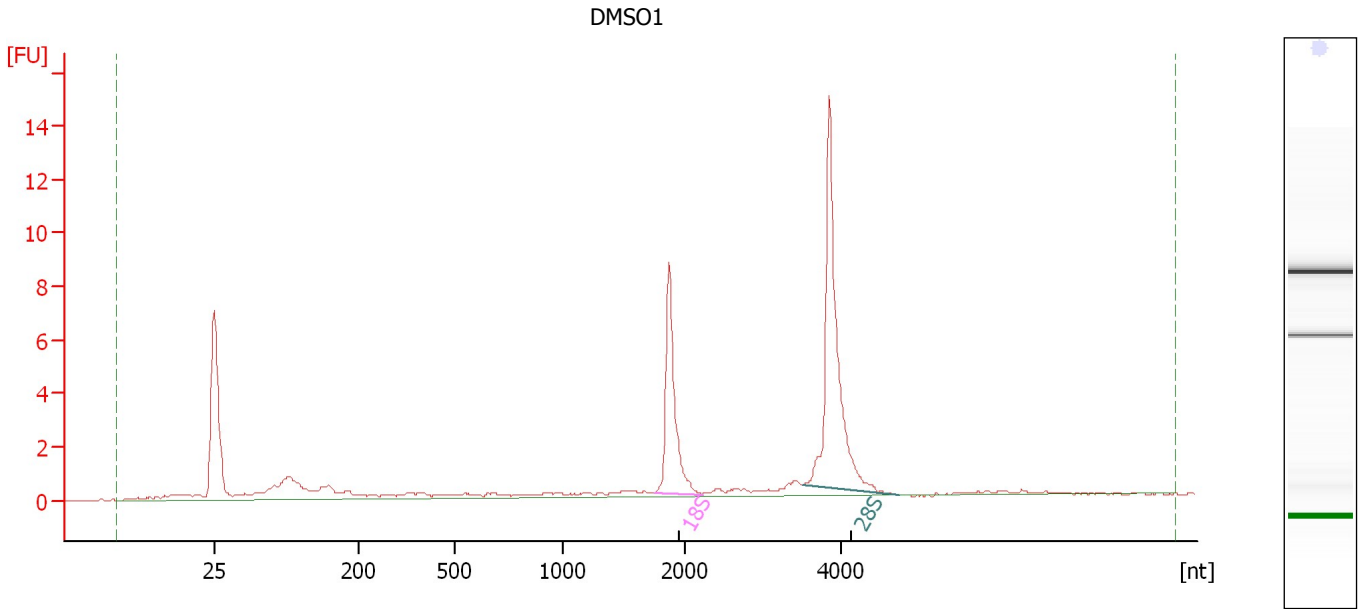
**Overall Results for Ladder**

RNA Area:	244.4	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:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : DMSO1**

RNA Area: 47.8                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 29 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.80

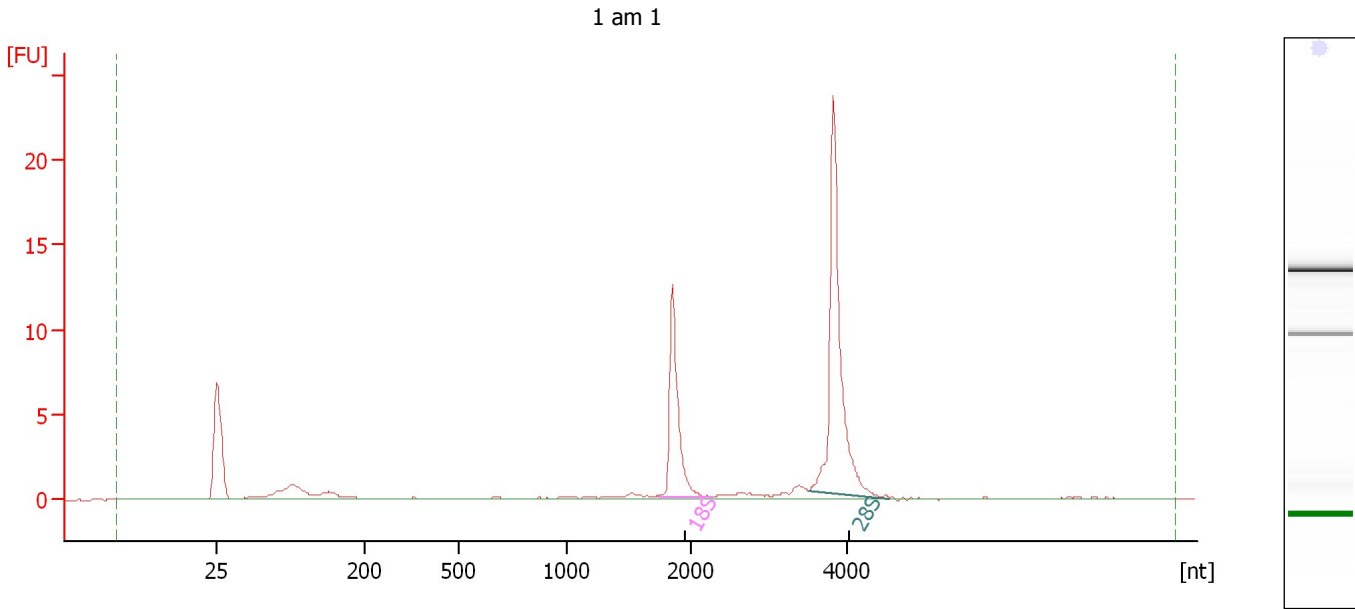
**Fragment table for sample 1 : DMSO1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,757	2,237	9.2	19.2
28S	3,523	4,754	16.9	35.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1 am 1**

RNA Area:	52.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	32 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]:	1.9	Result Flagging Label:	RIN:10

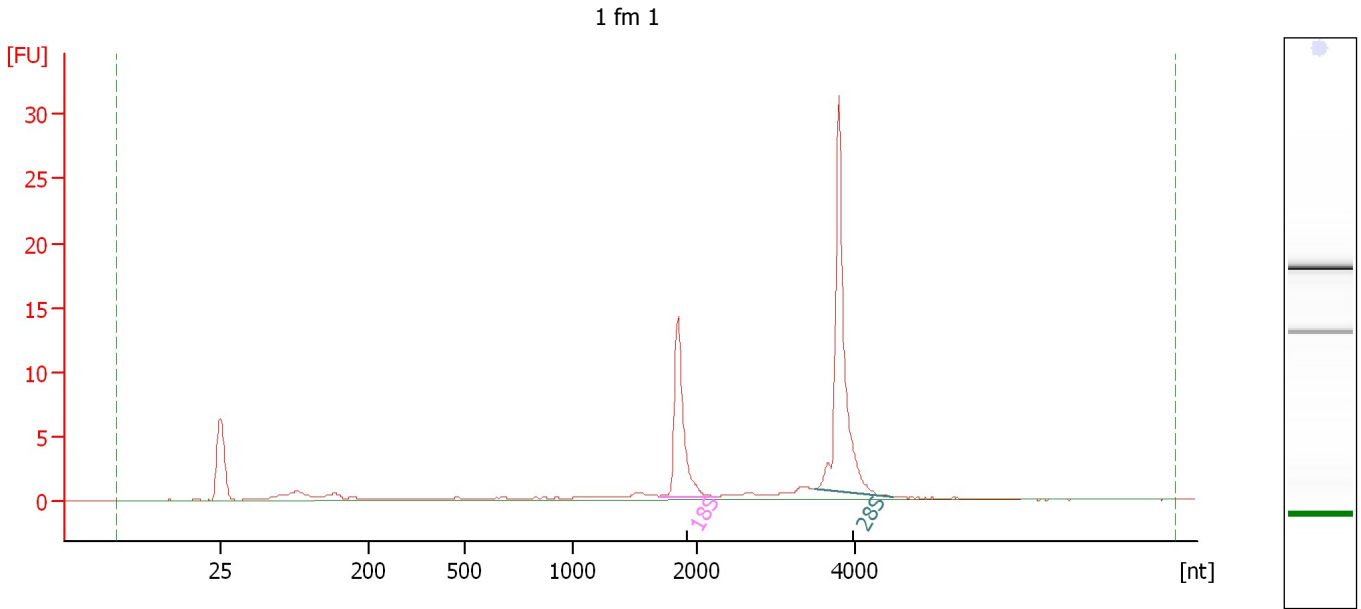
**Fragment table for sample 2 : 1 am 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,293	12.1	23.3
28S	3,503	4,536	23.4	45.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1 fm 1**

RNA Area:	68.1	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	42 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]:	2.0	Result Flagging Label:	RIN: 9.40

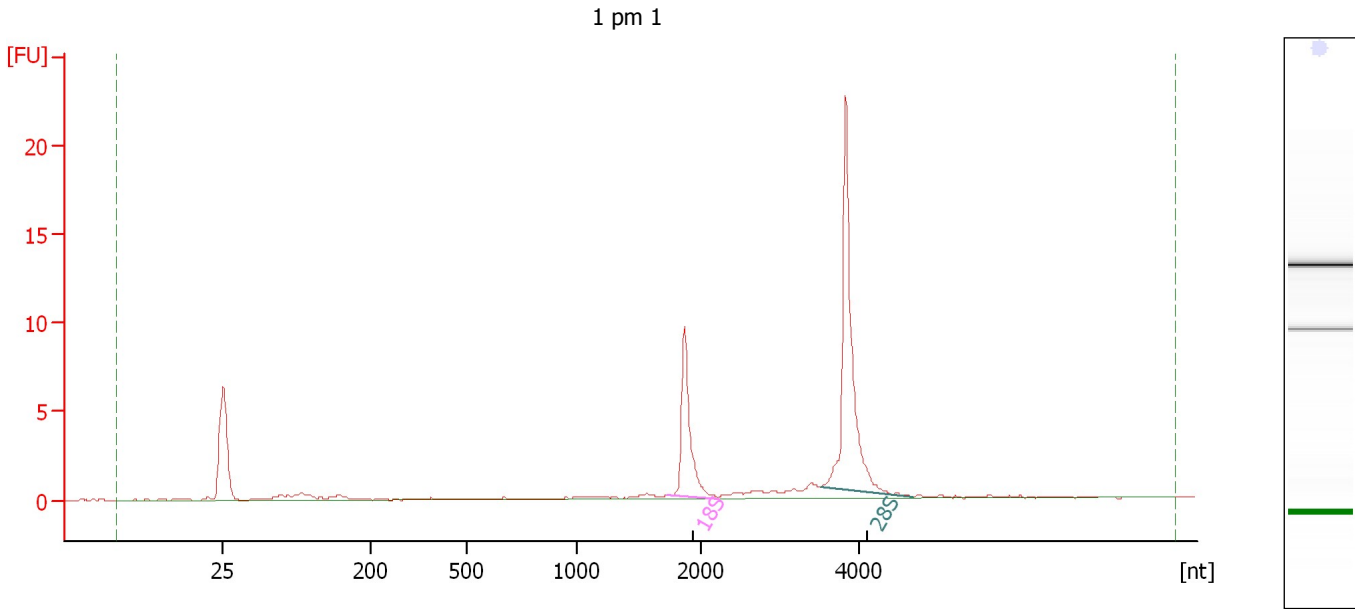
**Fragment table for sample 3 : 1 fm 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,268	14.2	20.8
28S	3,497	4,483	28.1	41.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1 pm 1**

RNA Area:	44.0	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	27 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: 9.80

**Fragment table for sample 4 : 1 pm 1**

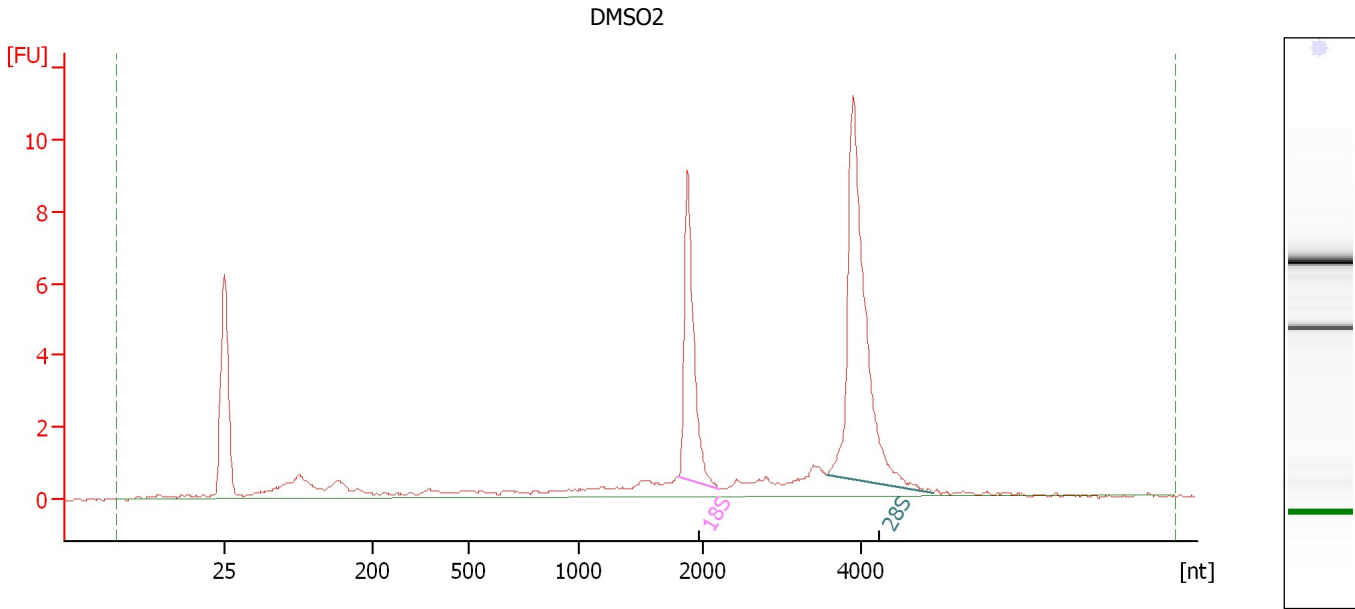
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,229	9.7	22.0
28S	3,507	4,677	20.3	46.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DMSO2**

RNA Area: 52.7                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 32 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.20

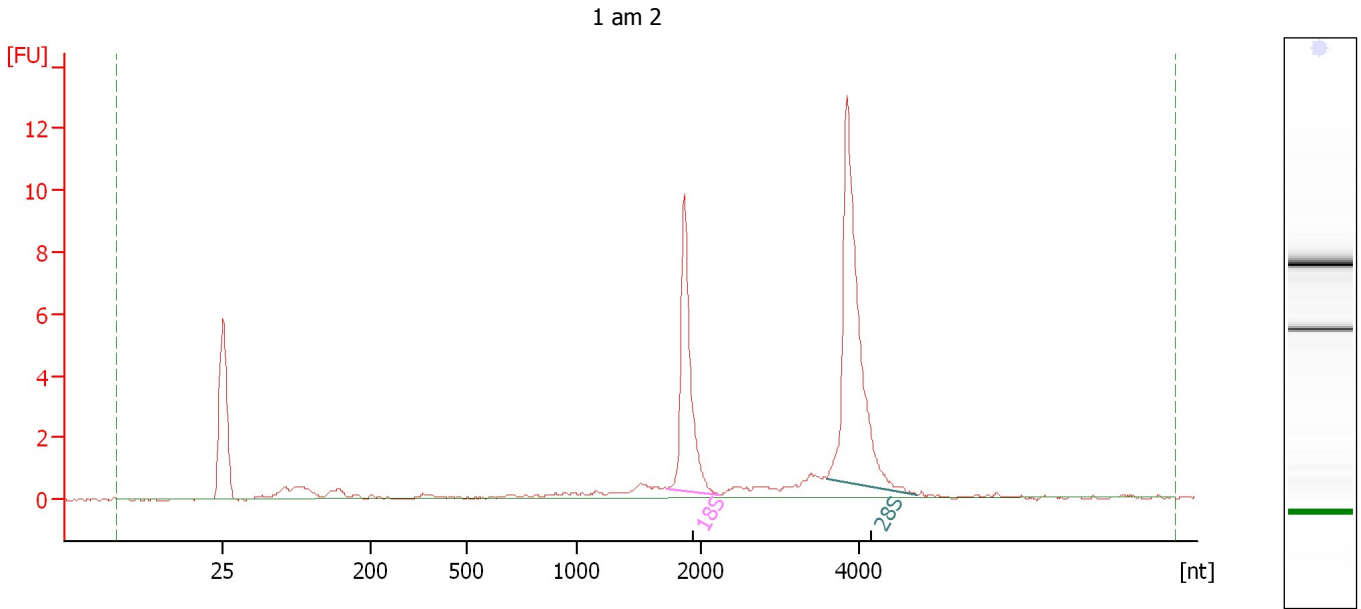
**Fragment table for sample 5 : DMSO2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,802	2,216	9.4	17.8
28S	3,559	4,888	18.0	34.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1 am 2**

RNA Area:	43.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	27 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]:	1.7	Result Flagging Label:	RIN: 9.90

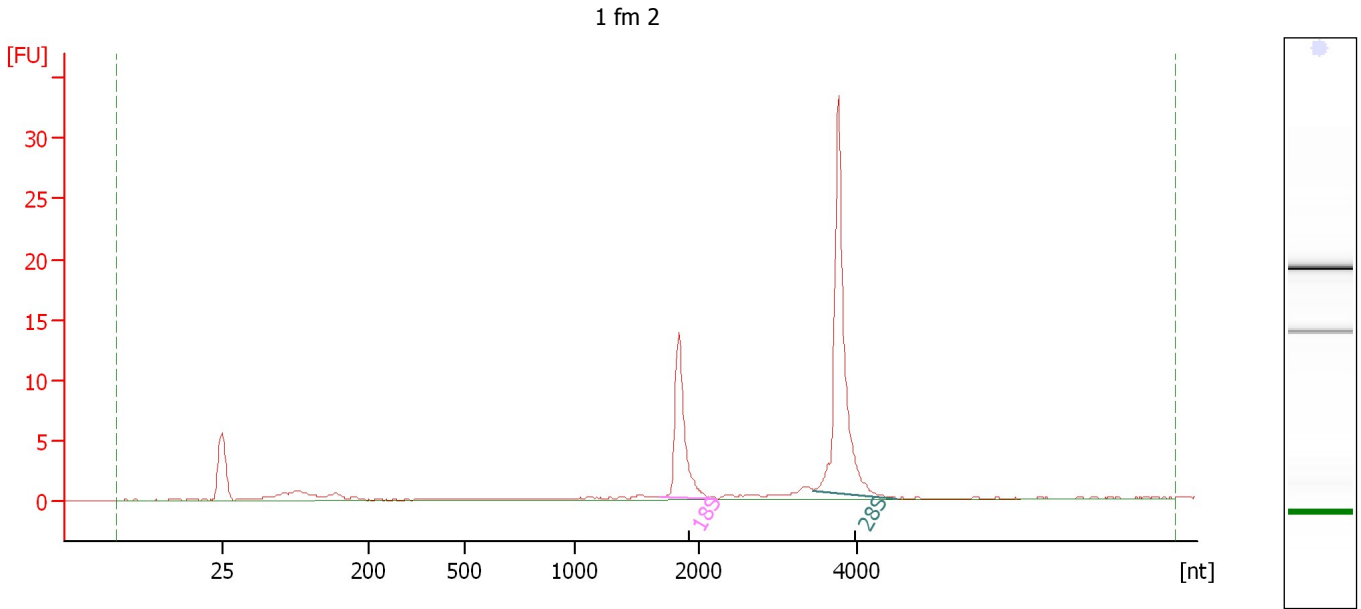
**Fragment table for sample 6 : 1 am 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,242	10.9	25.0
28S	3,588	4,718	18.8	43.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
 Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 1 fm 2**

RNA Area:	65.6	RNA Integrity Number (RIN):	9.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	40 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: 9.60

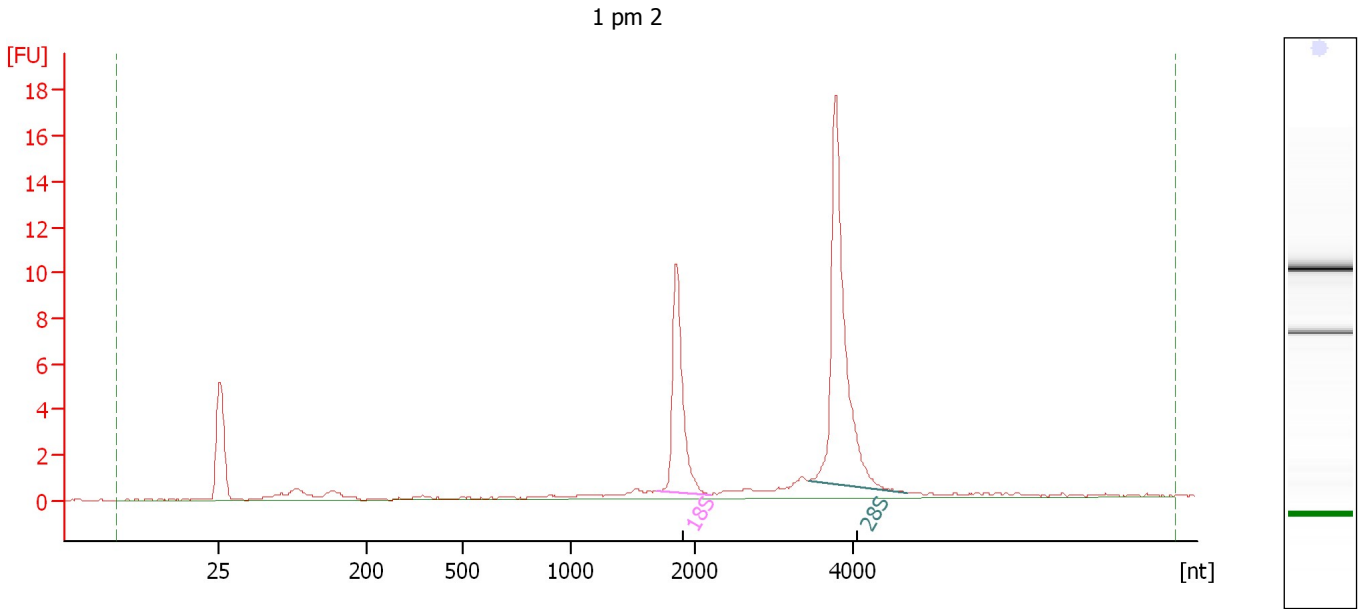
**Fragment table for sample 7 : 1 fm 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,241	14.8	22.6
28S	3,455	4,506	31.7	48.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1 pm 2**

RNA Area: 52.0                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 32 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN:10

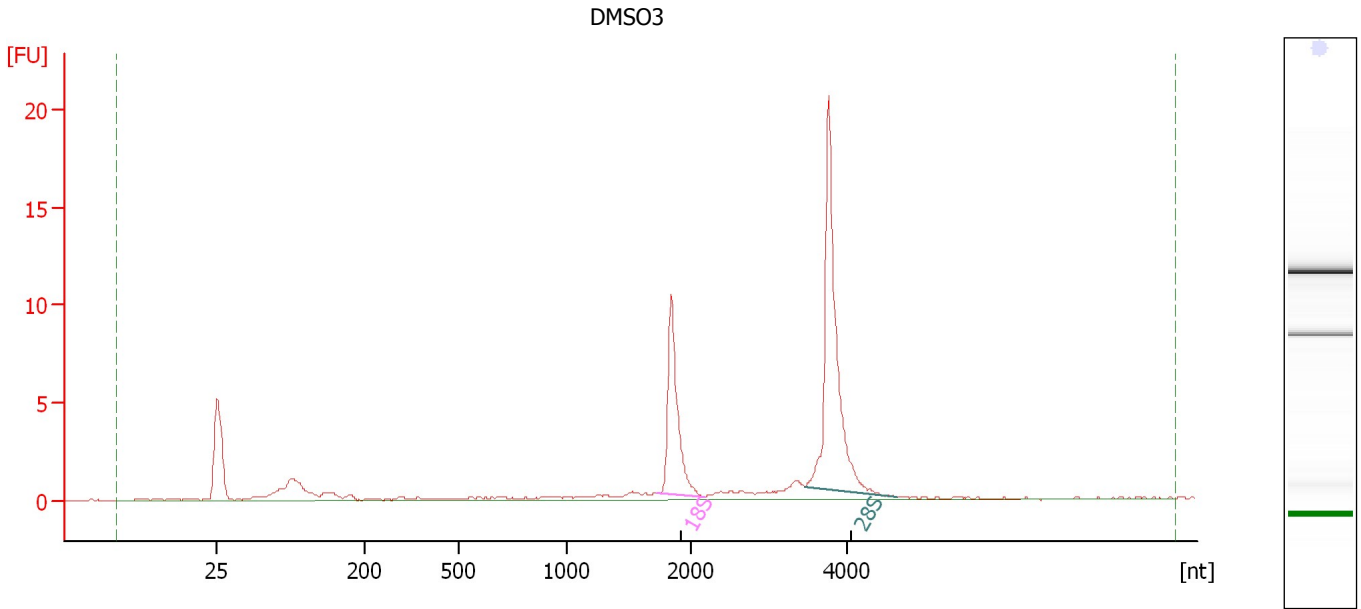
**Fragment table for sample 8 : 1 pm 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,199	11.7	22.5
28S	3,445	4,690	22.4	43.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : DMSO3**

RNA Area:	56.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	35 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]:	2.0	Result Flagging Label:	RIN: 9.70

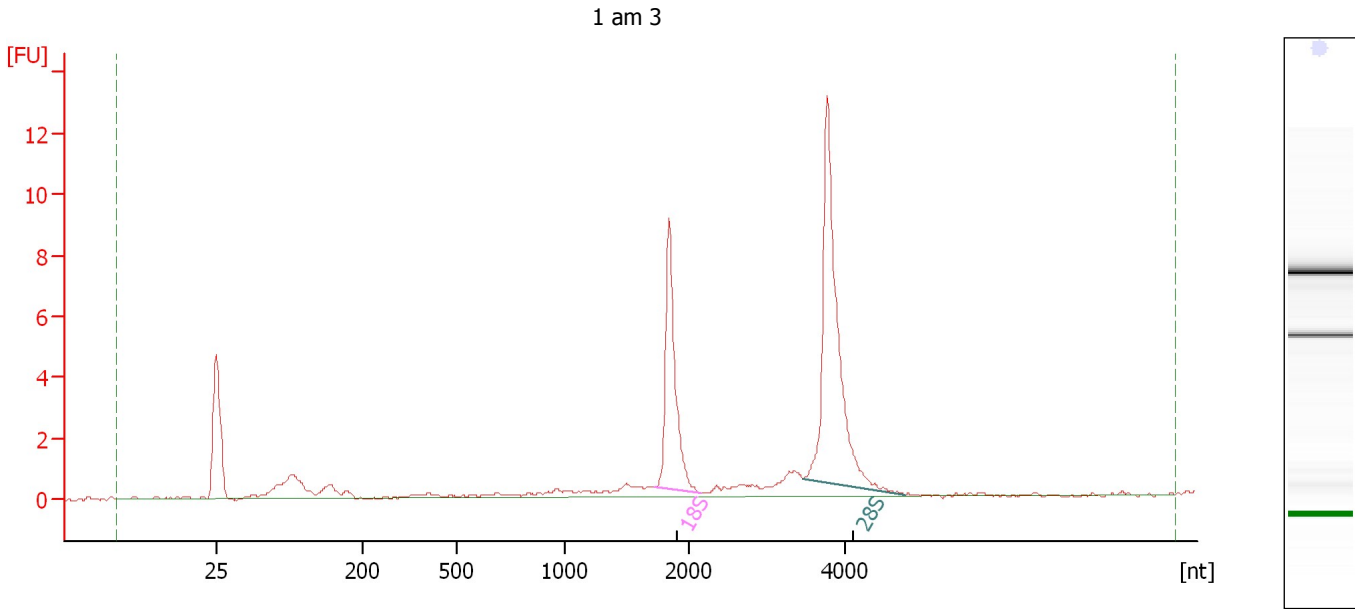
**Fragment table for sample 9 : DMSO3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	2,184	11.6	20.5
28S	3,449	4,631	22.8	40.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 1 am 3**

RNA Area: 45.0                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 28 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.80

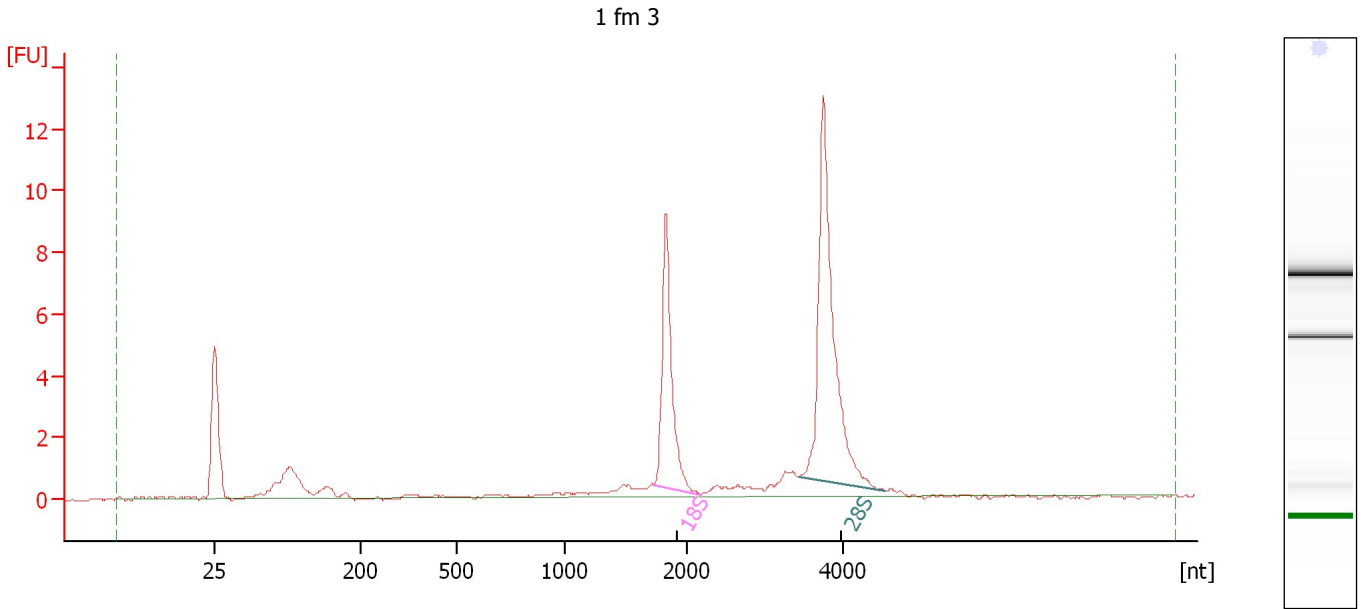
**Fragment table for sample 10 : 1 am 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	2,156	10.2	22.6
28S	3,464	4,758	18.5	41.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 1 fm 3**

RNA Area: 45.6                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 28 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.90

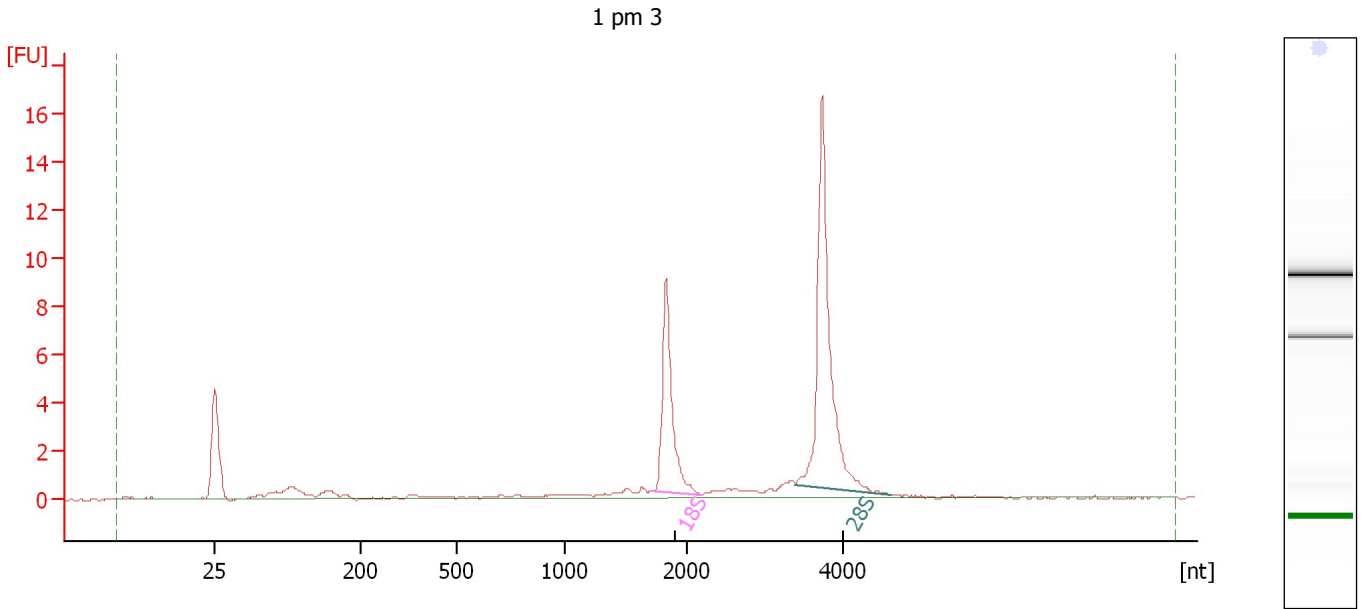
**Fragment table for sample 11 : 1 fm 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,183	9.9	21.8
28S	3,439	4,544	18.4	40.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 1 pm 3**

RNA Area: 43.6                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 27 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.80

**Fragment table for sample 12 : 1 pm 3**

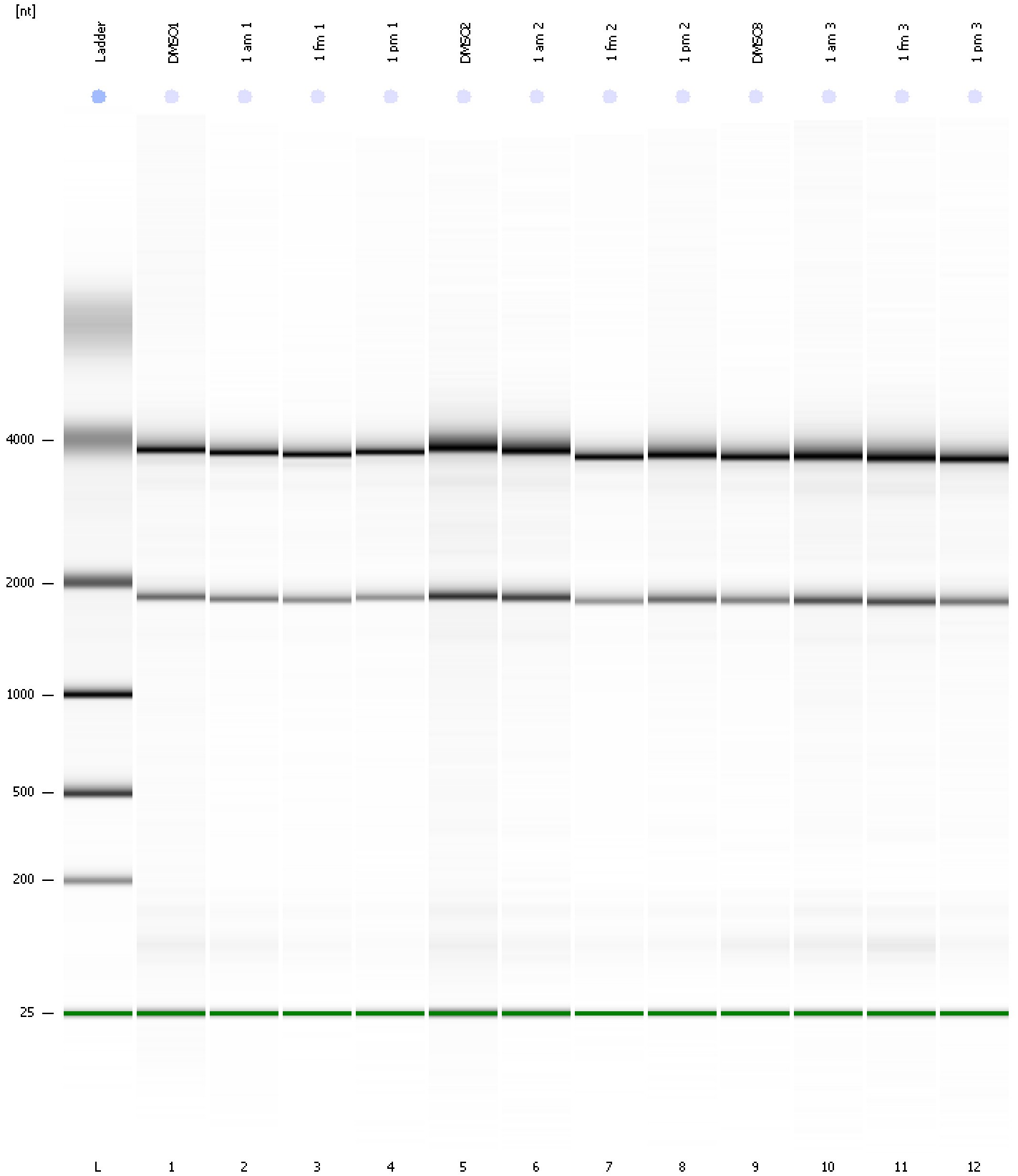
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,196	10.3	23.6
28S	3,398	4,613	19.5	44.8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Gel Image**

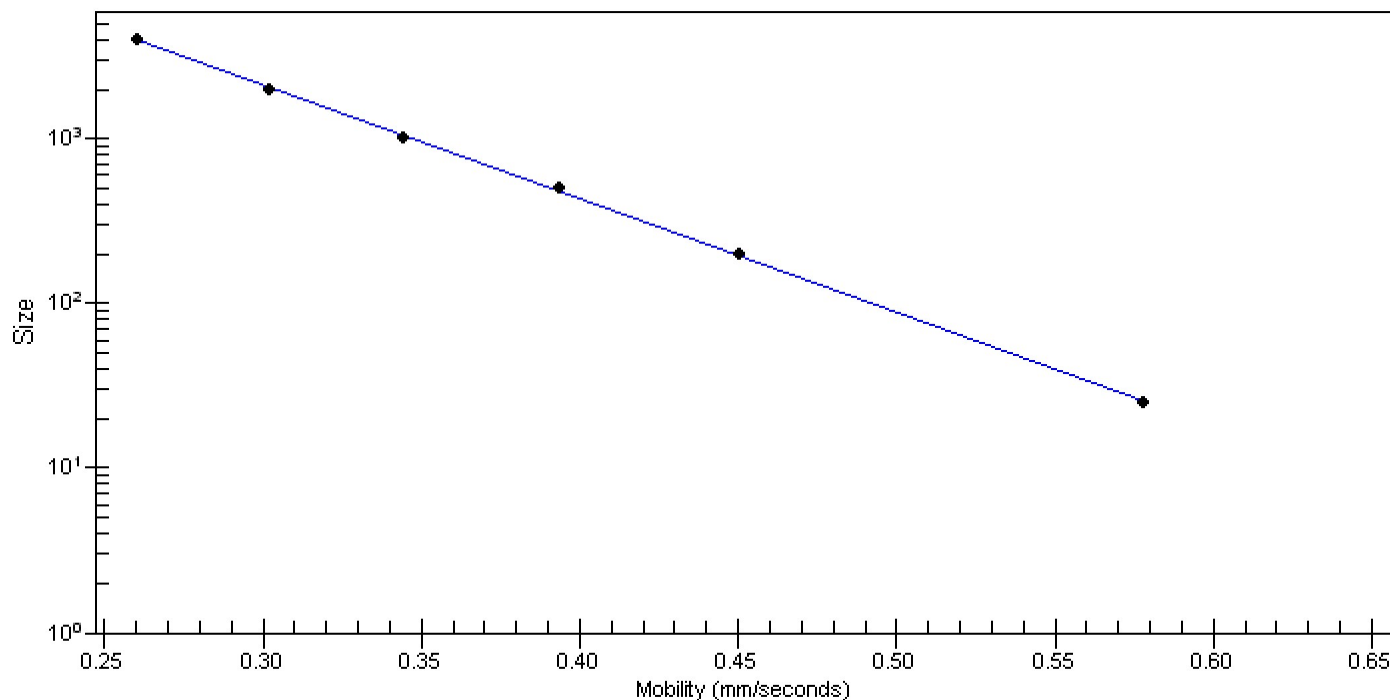


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
Modified: 6/28/2016 3:13:37 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-28\2016-06-28\_004.xad

Created: 6/28/2016 2:39:41 PM  
 Modified: 6/28/2016 3:13:37 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		6/28/2016 3:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-28\2016-06-28_004.xad)		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/28/2016 2:39:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1