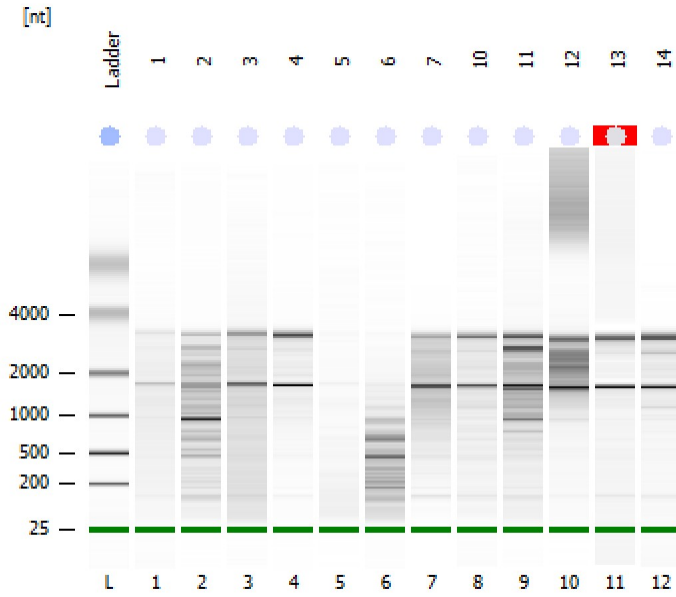


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
Modified: 6/14/2023 2:36:23 PM

Electrophoresis File Run Summary



Instrument Information:

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

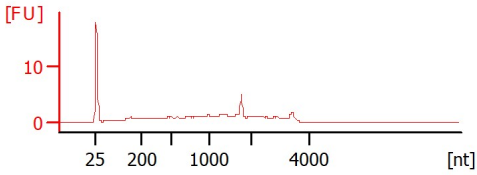
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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.

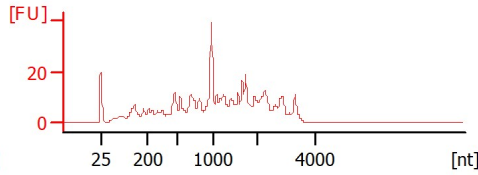
Chip Information:

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

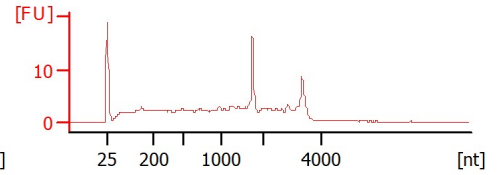
1  
Tag0217  
RIN: 5.90



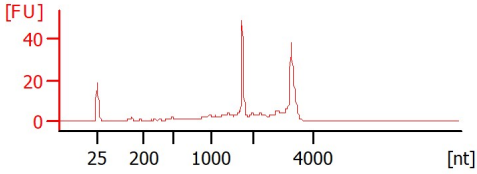
2  
Tag0217  
RIN: 5.50



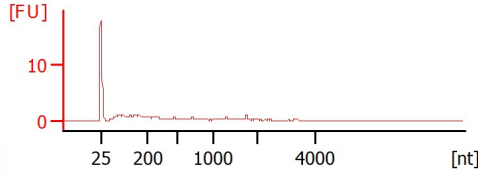
3  
Tag0217  
RIN:6



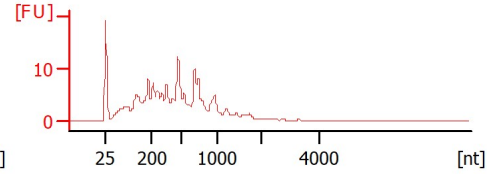
4  
Tag0217  
RIN: 7.90



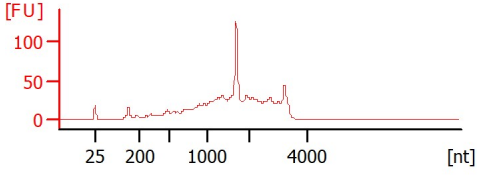
5  
Tag0217  
RIN: 4.60



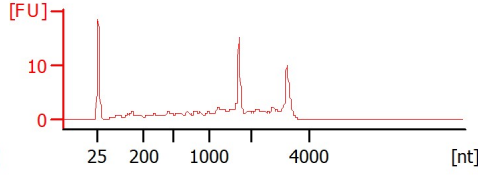
6  
Tag0217  
RIN: 3.30



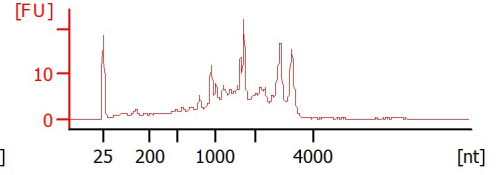
7  
Tag0217  
RIN: 5.20



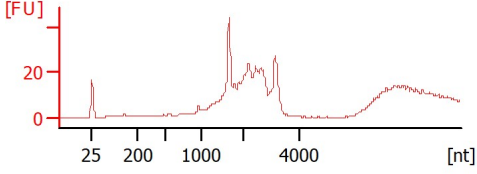
10  
Tag0217  
RIN: 7.20



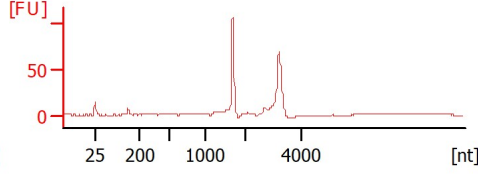
11  
Tag0217  
RIN: 6.10



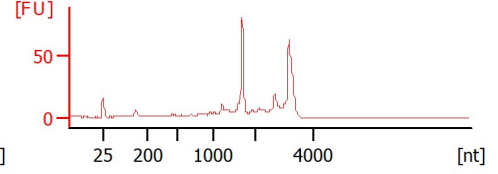
12  
Tag0217  
RIN: 6.70



13  
Tag0217  
RIN N/A



14  
Tag0217  
RIN:8



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1	Tag0217	✓	RIN: 5.90	
2	Tag0217	✓	RIN: 5.50	
3	Tag0217	✓	RIN:6	
4	Tag0217	✓	RIN: 7.90	
5	Tag0217	✓	RIN: 4.60	
6	Tag0217	✓	RIN: 3.30	
7	Tag0217	✓	RIN: 5.20	
10	Tag0217	✓	RIN: 7.20	
11	Tag0217	✓	RIN: 6.10	
12	Tag0217	✓	RIN: 6.70	
13	Tag0217	✓	RIN N/A	
14	Tag0217	✓	RIN:8	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 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/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

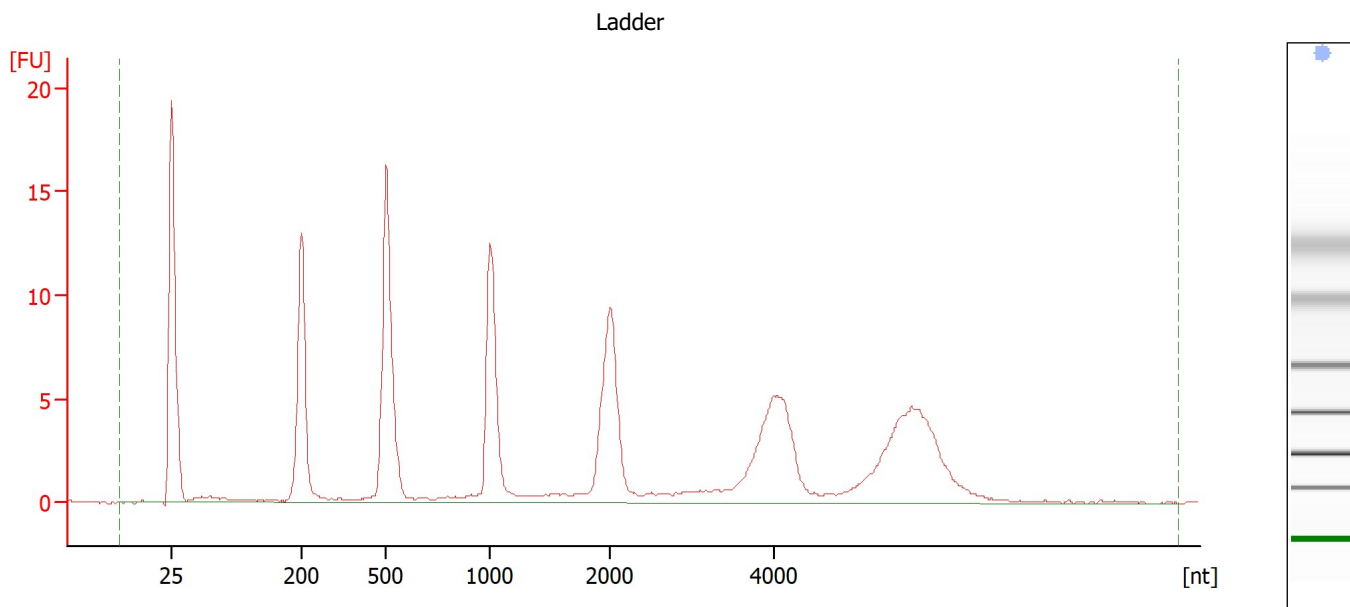
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary**



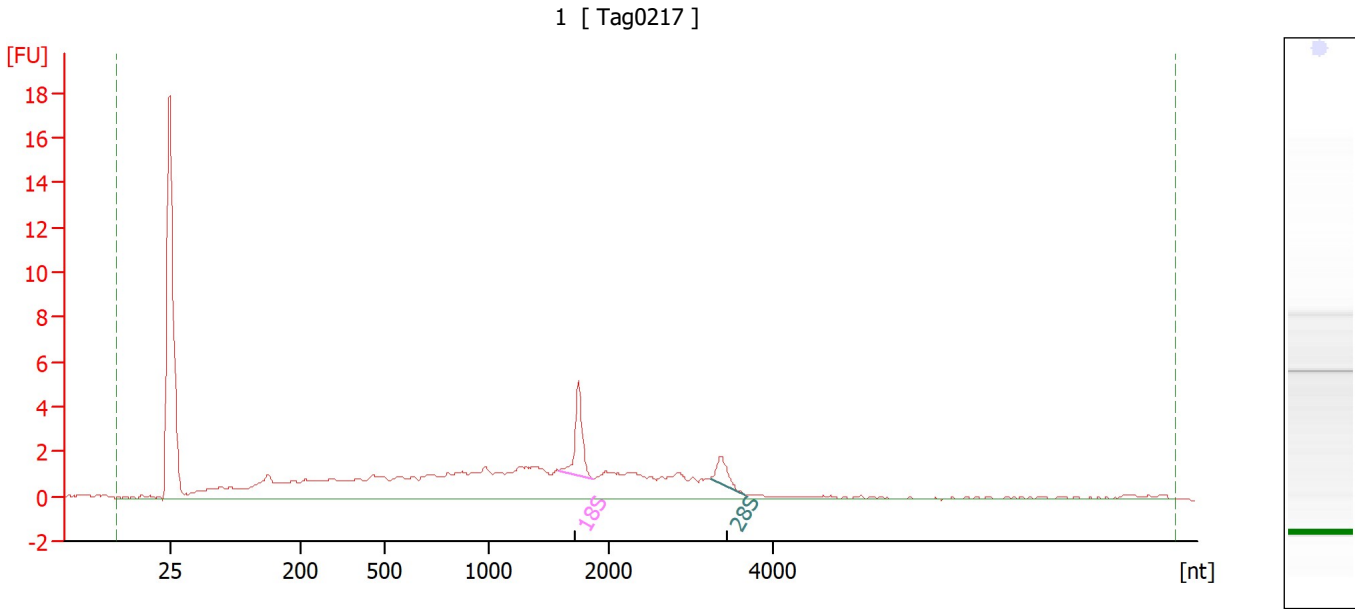
**Overall Results for Ladder**

RNA Area:	139.6	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:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1**

RNA Area:	72.8	RNA Integrity Number (RIN):	5.9 (B.02.10)
RNA Concentration:	78 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

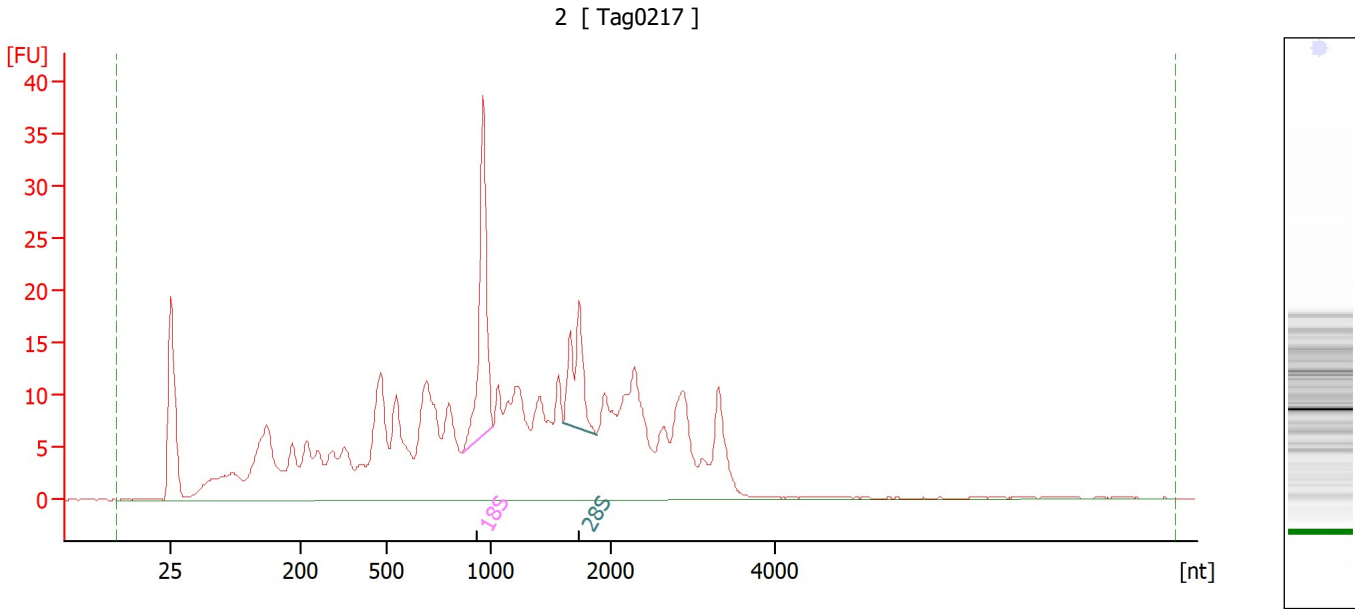
**Fragment table for sample 1 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,866	3.8	5.2
28S	3,226	3,657	1.6	2.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2**

RNA Area:	481.3	RNA Integrity Number (RIN):	5.5 (B.02.10)
RNA Concentration:	517 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: 5.50

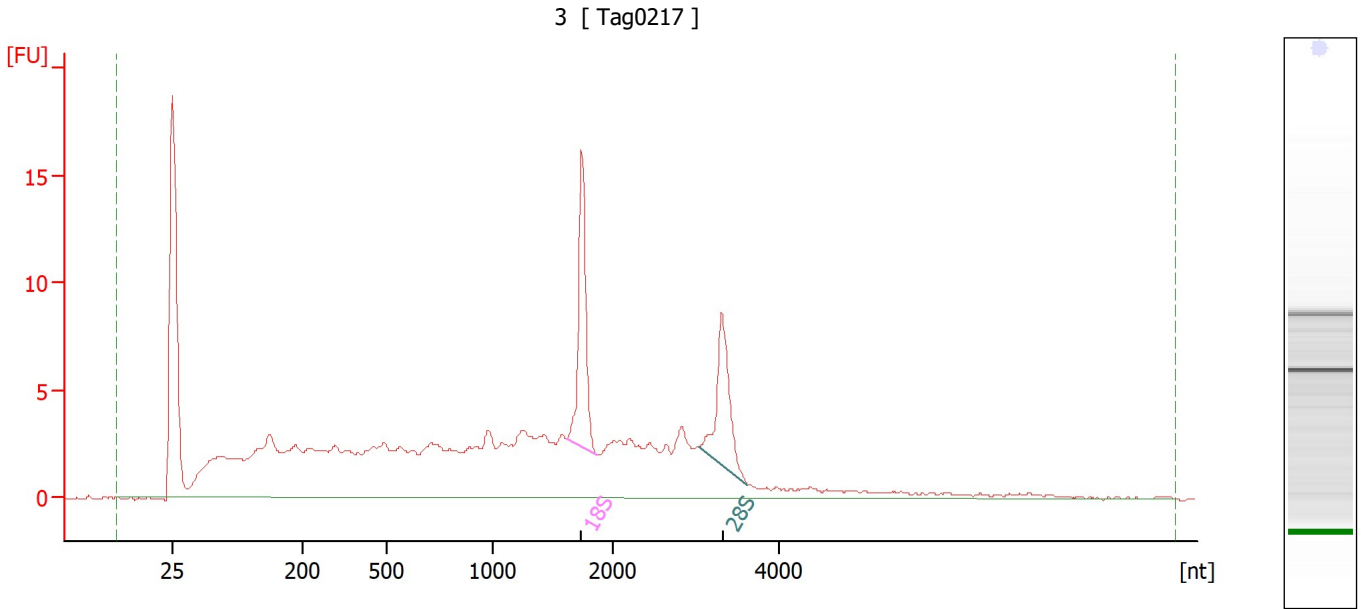
**Fragment table for sample 2 : 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	861	1,014	34.6	7.2
28S	1,601	1,876	17.5	3.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3**

RNA Area:	195.0	RNA Integrity Number (RIN):	6 (B.02.10)
RNA Concentration:	210 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

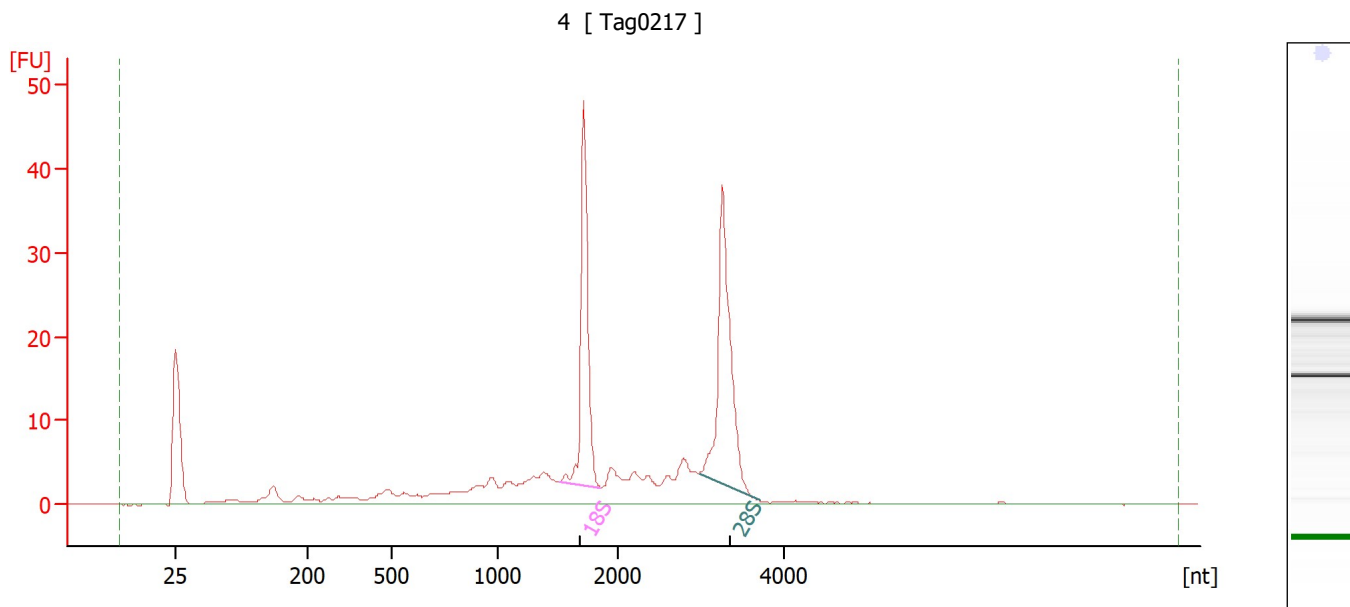
**Fragment table for sample 3 : 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,868	12.5	6.4
28S	3,028	3,625	10.0	5.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4**

RNA Area:	215.5	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	232 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]:	1.2	Result Flagging Label:	RIN: 7.90

**Fragment table for sample 4 : 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,851	39.6	18.4
28S	2,974	3,700	48.8	22.6

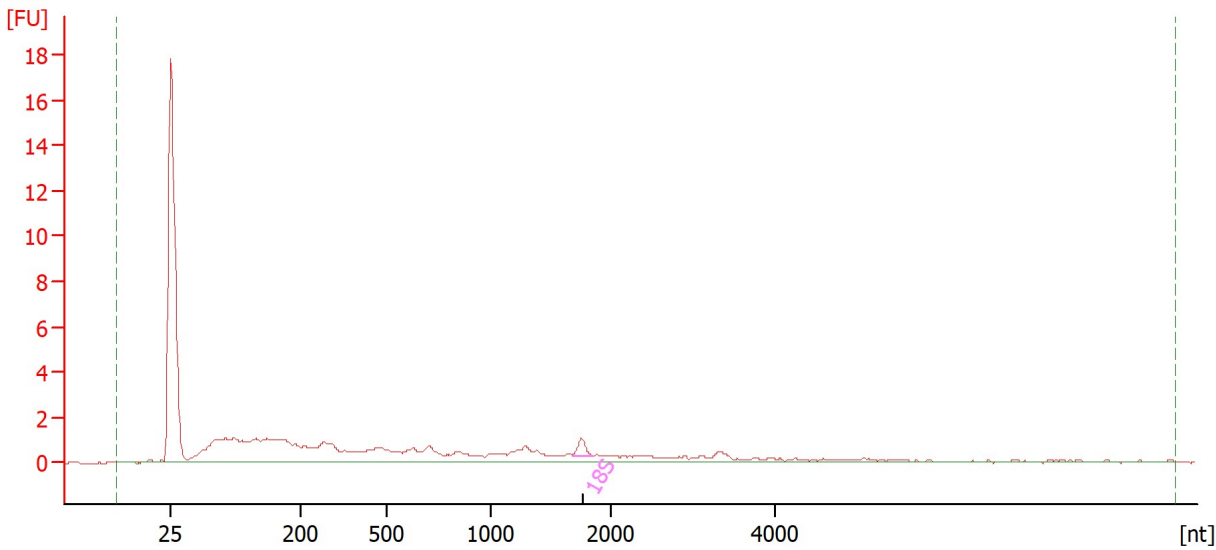


Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**

5 [ Tag0217 ]



**Overall Results for sample 5 : 5**

RNA Area:	42.1	RNA Integrity Number (RIN):	4.6 (B.02.10)
RNA Concentration:	45 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: 4.60

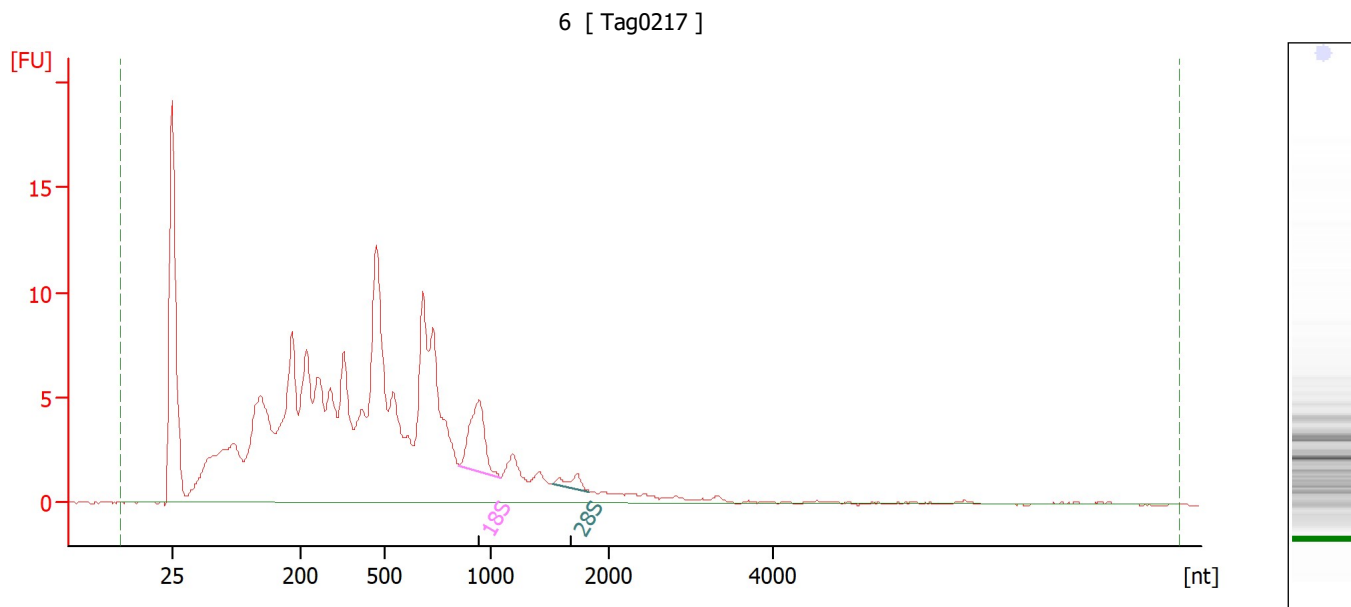
**Fragment table for sample 5 : 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,850	0.7	1.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6**

RNA Area:	225.0	RNA Integrity Number (RIN):	3.3 (B.02.10)
RNA Concentration:	242 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]:	0.2	Result Flagging Label:	RIN: 3.30

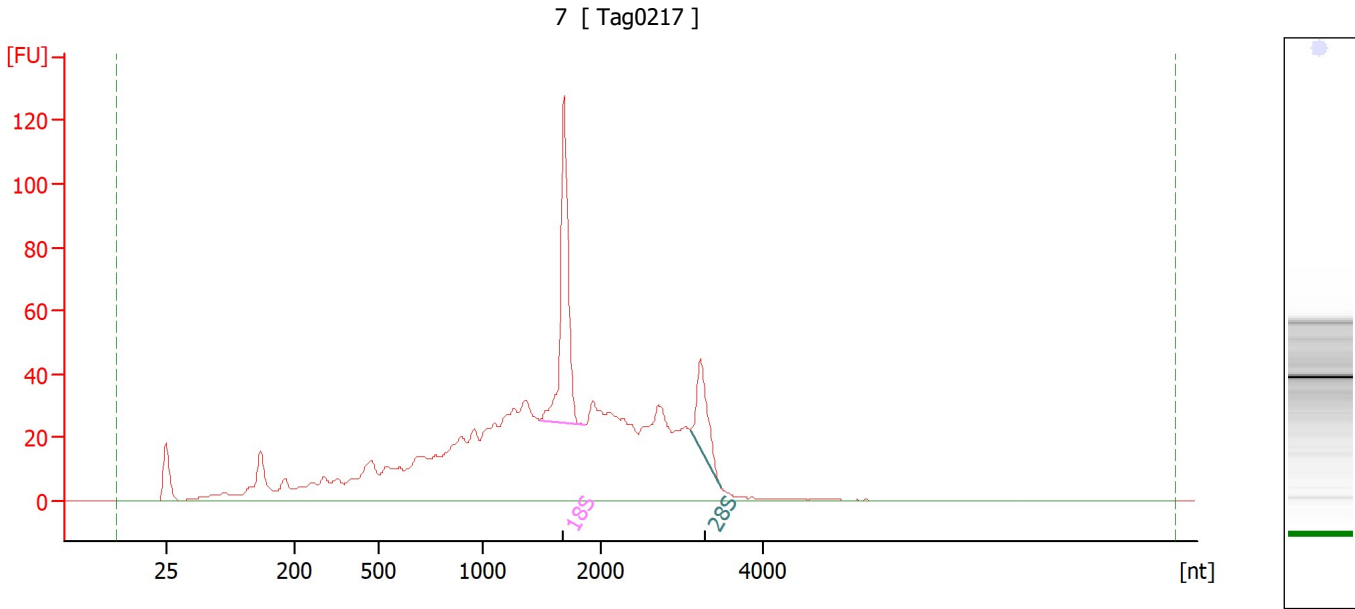
**Fragment table for sample 6 : 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	1,086	7.4	3.3
28S	1,534	1,829	1.2	0.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 7**

RNA Area:	1,149.1	RNA Integrity Number (RIN):	5.2 (B.02.10)
RNA Concentration:	1,235 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]:	0.3	Result Flagging Label:	RIN: 5.20

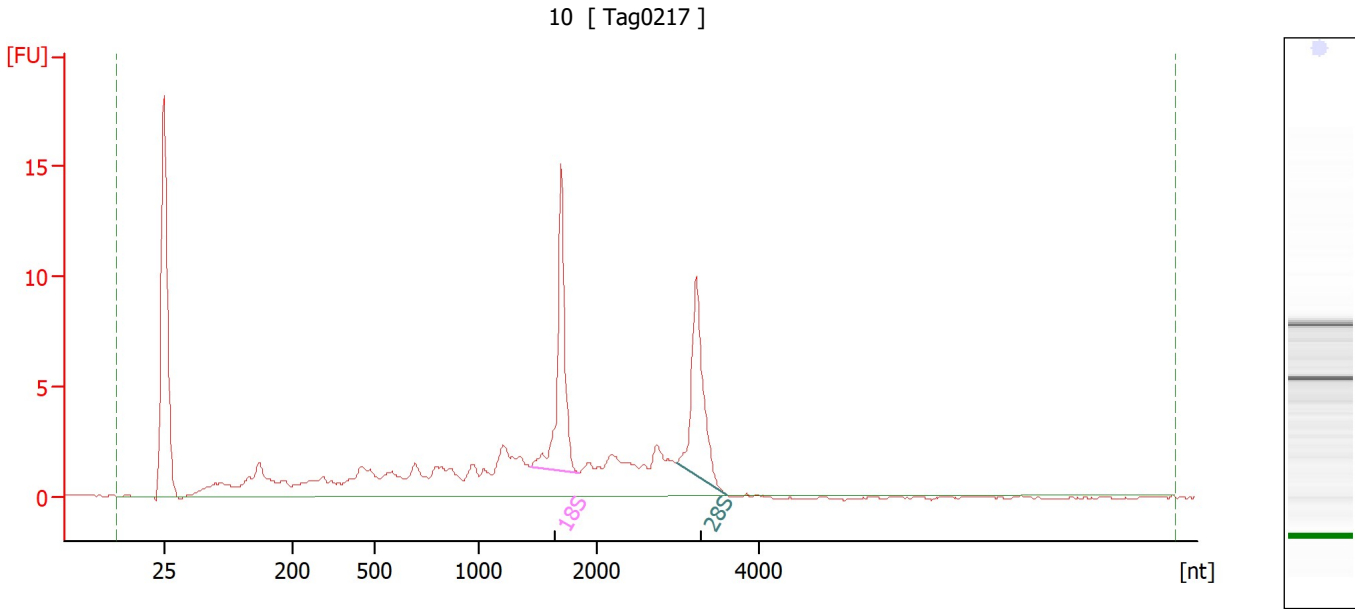
**Fragment table for sample 7 : 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,485	1,863	102.6	8.9
28S	3,102	3,471	35.7	3.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 10**

RNA Area:	99.5	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	107 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: 7.20

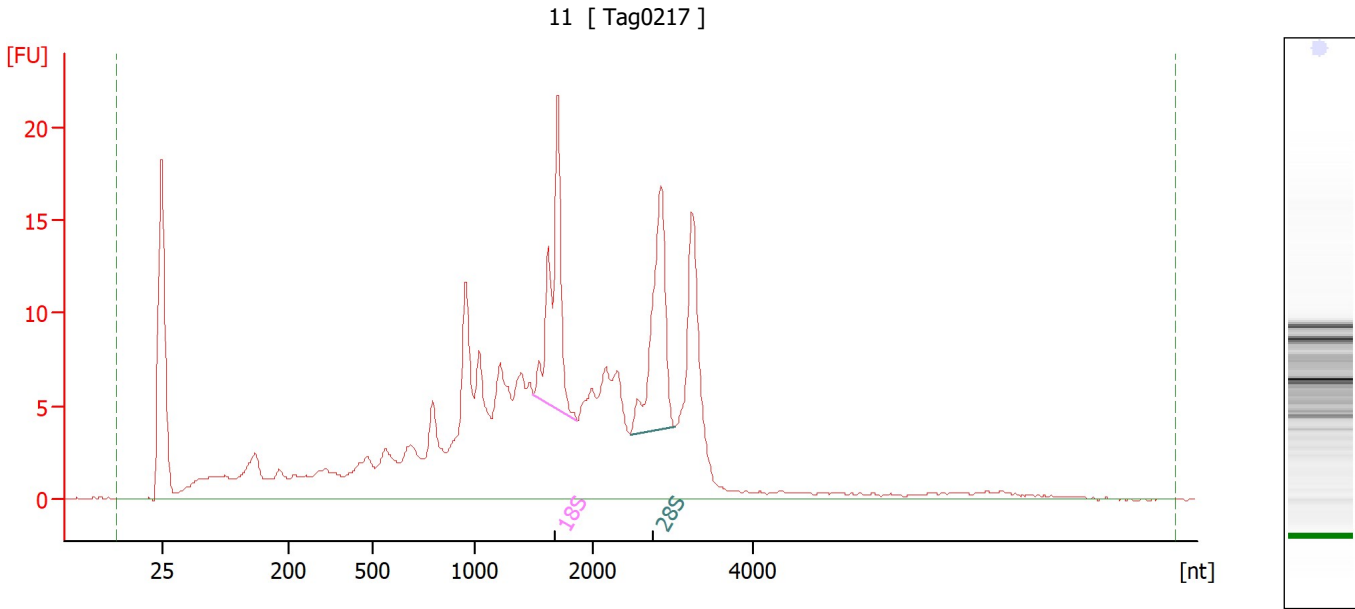
**Fragment table for sample 8 : 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,437	1,843	13.7	13.8
28S	2,987	3,608	12.0	12.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 11**

RNA Area:	294.2	RNA Integrity Number (RIN):	6.1 (B.02.10)
RNA Concentration:	316 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: 6.10

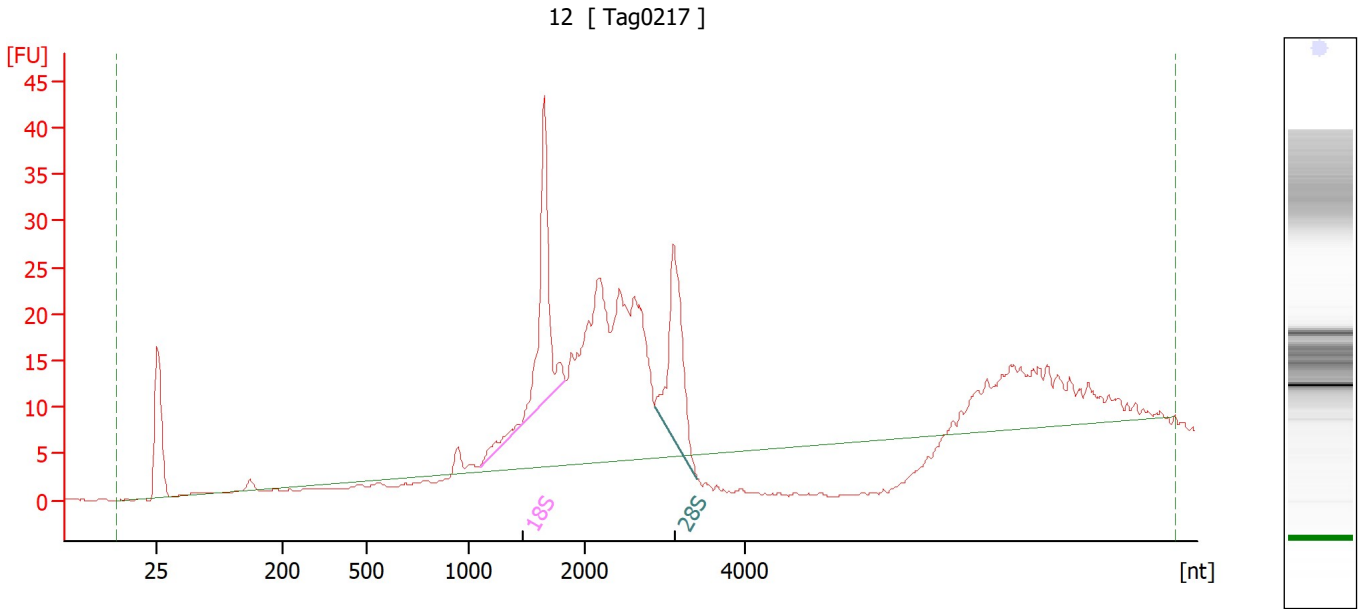
**Fragment table for sample 9 : 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,496	1,868	22.3	7.6
28S	2,458	3,016	21.0	7.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 12**

RNA Area:	341.4	RNA Integrity Number (RIN):	6.7 (B.02.10)
RNA Concentration:	367 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: 6.70

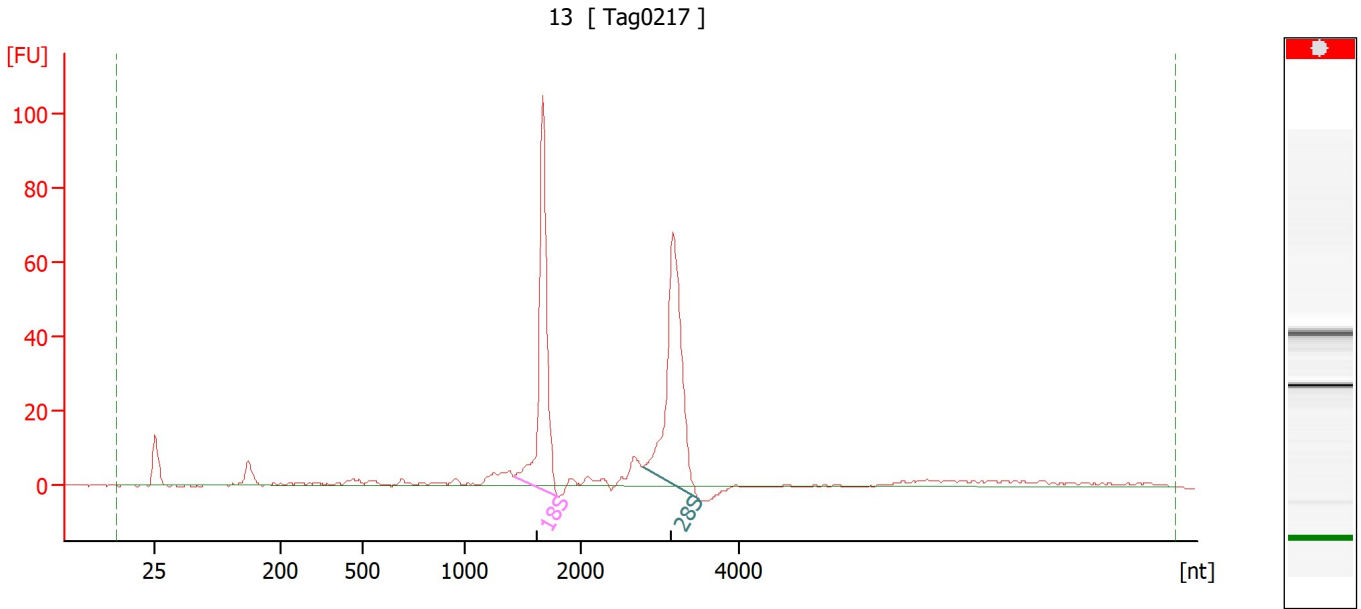
**Fragment table for sample 10 : 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,105	1,837	43.4	12.7
28S	2,875	3,411	33.8	9.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 13**

RNA Area:	334.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	360 ng/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]:	1.0	Result Flagging Label:	RIN N/A

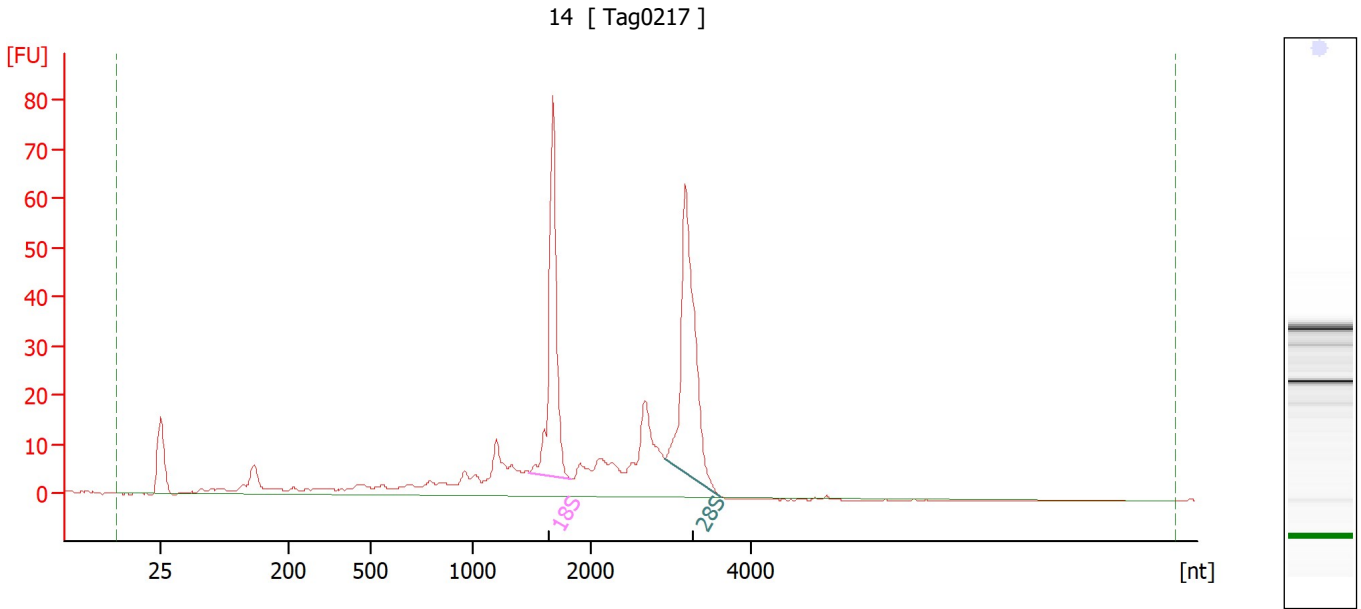
**Fragment table for sample 11 : 13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,430	1,808	115.6	34.5
28S	2,783	3,497	119.3	35.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 14**

RNA Area:	403.8	RNA Integrity Number (RIN):	8 (B.02.10)
RNA Concentration:	434 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]:	1.3	Result Flagging Label:	RIN:8

**Fragment table for sample 12 : 14**

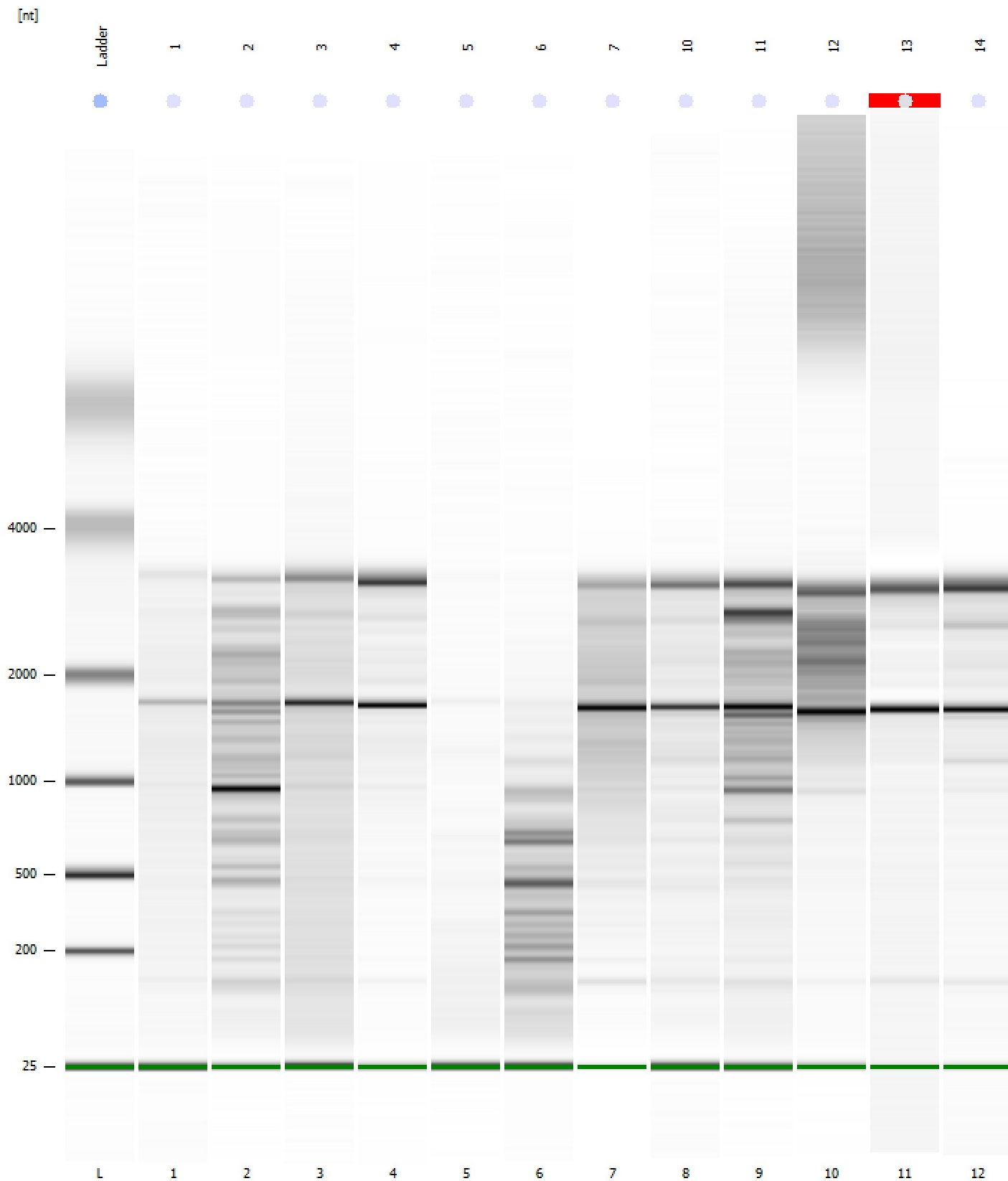
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,476	1,831	73.7	18.3
28S	2,911	3,630	92.7	23.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
Modified: 6/14/2023 2:36:23 PM

**Gel Image**

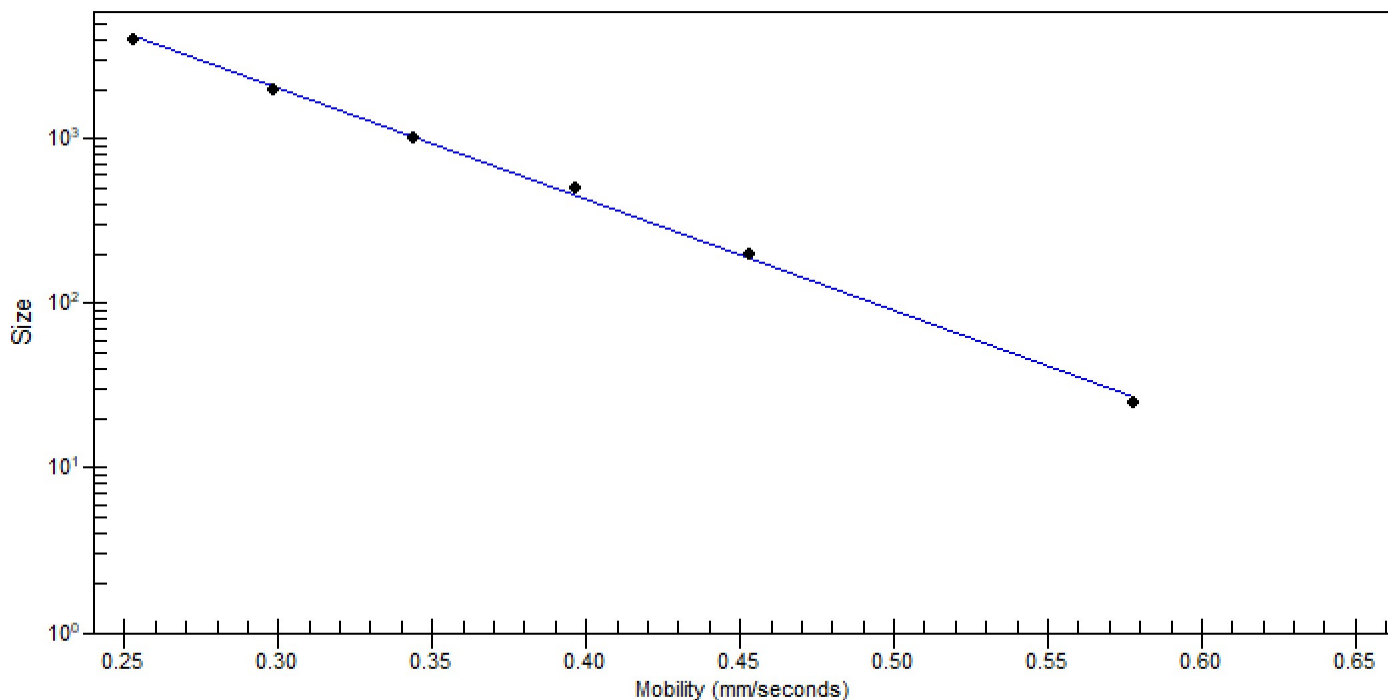


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad

Created: 6/14/2023 2:07:02 PM  
Modified: 6/14/2023 2:36:23 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...14\Bioanalyzer1\_Eukaryote Total RNA Nano\_2023-06-14\_001.xad  
 Created: 6/14/2023 2:07:02 PM  
 Modified: 6/14/2023 2:36:23 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		6/14/2023 2:30:52 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-06-14\Bioanalyzer1_Eukaryote Total RNA Nano_2023-06-14_001.xad)		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/14/2023 2:07:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB