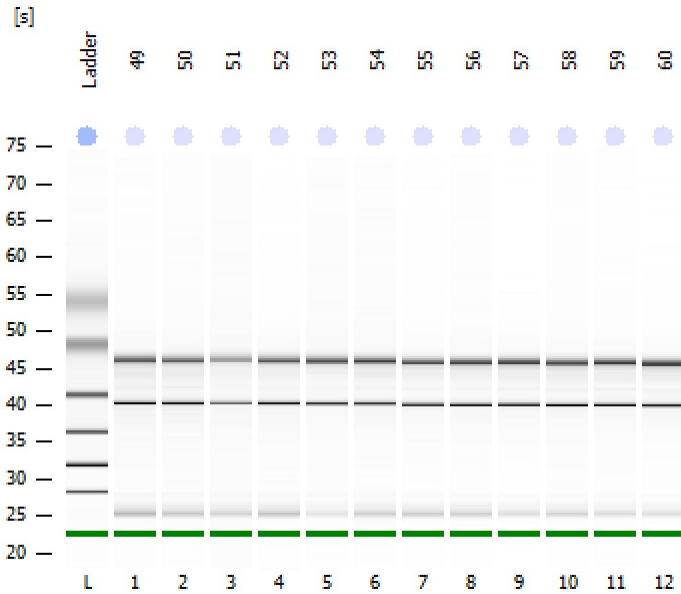


Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
Modified: 6/29/2020 4:34:22 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

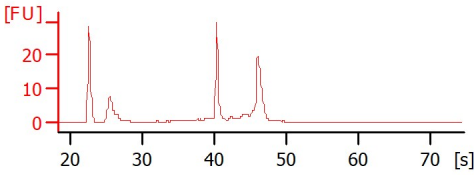
Assay Information:

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.

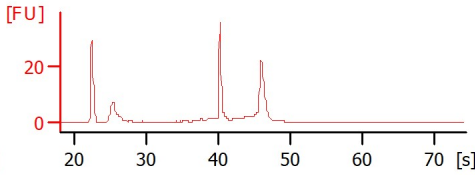
Chip Information:

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

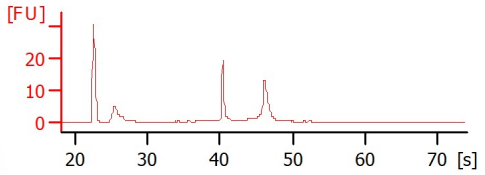
**49**  
NovaSeq217 TotRNA  
RIN: 9.20



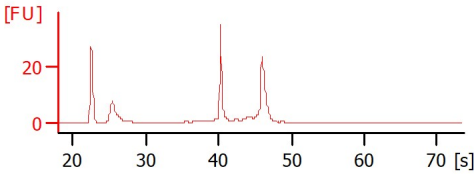
**50**  
NovaSeq217 TotRNA  
RIN: 9.10



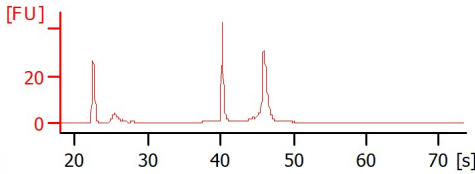
**51**  
NovaSeq217 TotRNA  
RIN: 9.40



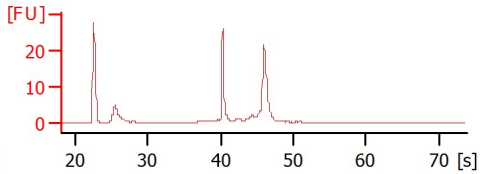
**52**  
NovaSeq217 TotRNA  
RIN: 9.40



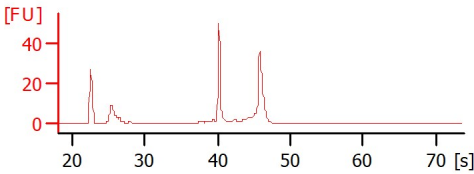
**53**  
NovaSeq217 TotRNA  
RIN: 9.80



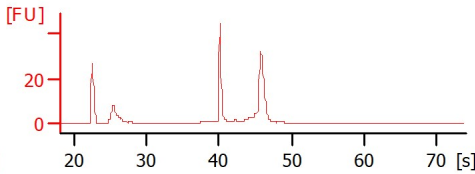
**54**  
NovaSeq217 TotRNA  
RIN: 9.60



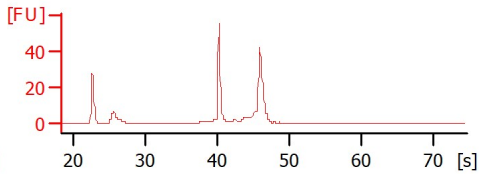
**55**  
NovaSeq217 TotRNA  
RIN: 9.80



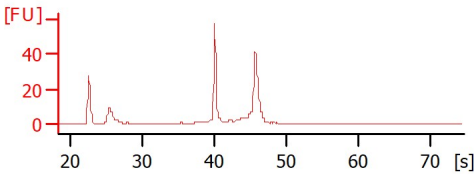
**56**  
NovaSeq217 TotRNA  
RIN: 9.80



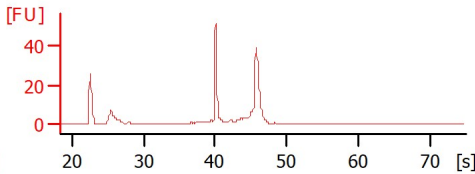
**57**  
NovaSeq217 TotRNA  
RIN: 9.70



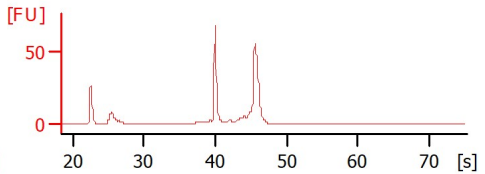
**58**  
NovaSeq217 TotRNA  
RIN: 9.70



**59**  
NovaSeq217 TotRNA  
RIN: 9.80



**60**  
NovaSeq217 TotRNA  
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
49	NovaSeq217 TotRNA	✓	RIN: 9.20	
50	NovaSeq217 TotRNA	✓	RIN: 9.10	
51	NovaSeq217 TotRNA	✓	RIN: 9.40	
52	NovaSeq217 TotRNA	✓	RIN: 9.40	
53	NovaSeq217 TotRNA	✓	RIN: 9.80	
54	NovaSeq217 TotRNA	✓	RIN: 9.60	
55	NovaSeq217 TotRNA	✓	RIN: 9.80	
56	NovaSeq217 TotRNA	✓	RIN: 9.80	
57	NovaSeq217 TotRNA	✓	RIN: 9.70	
58	NovaSeq217 TotRNA	✓	RIN: 9.70	
59	NovaSeq217 TotRNA	✓	RIN: 9.80	
60	NovaSeq217 TotRNA	✓	RIN: 9.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 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

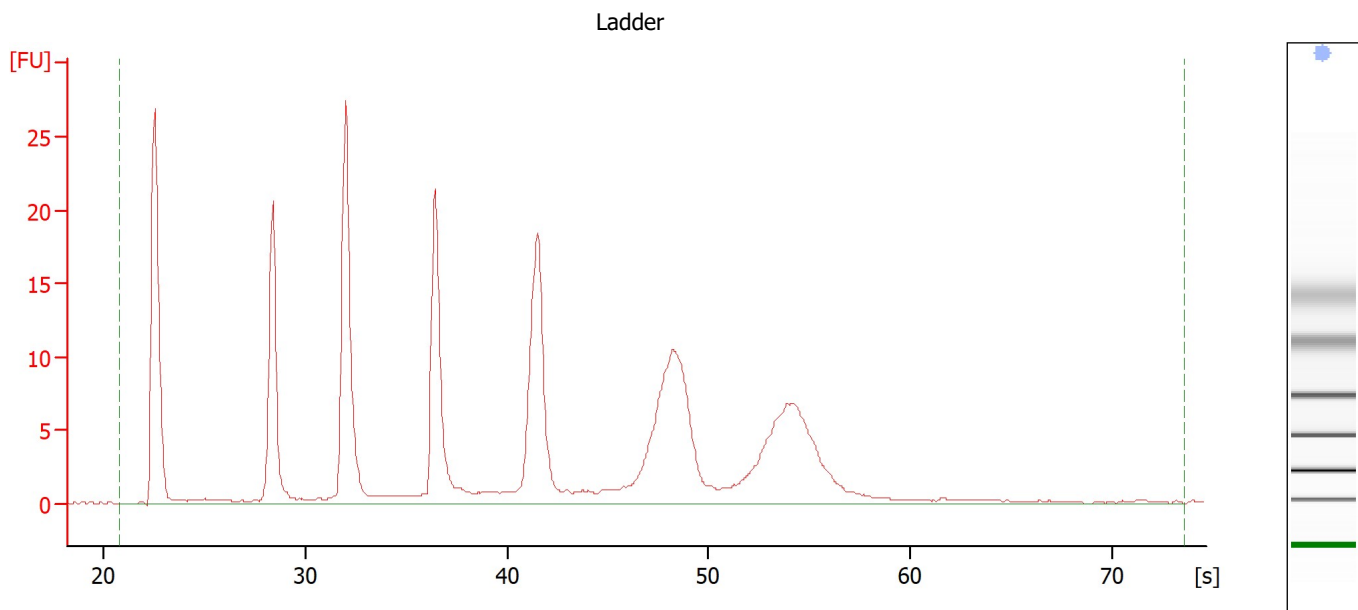
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary**



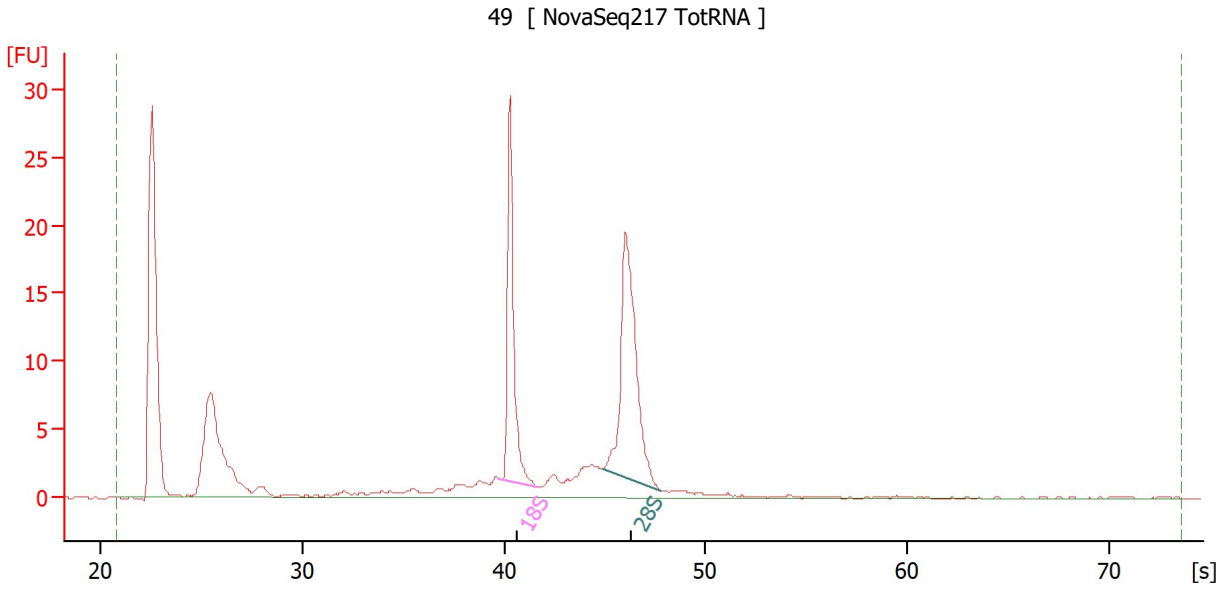
**Overall Results for Ladder**

RNA Area:	248.9	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 49**

RNA Area: 138.0                      RNA Integrity Number (RIN): 9.2 (B.02.10)  
RNA Concentration: 83 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 9.20

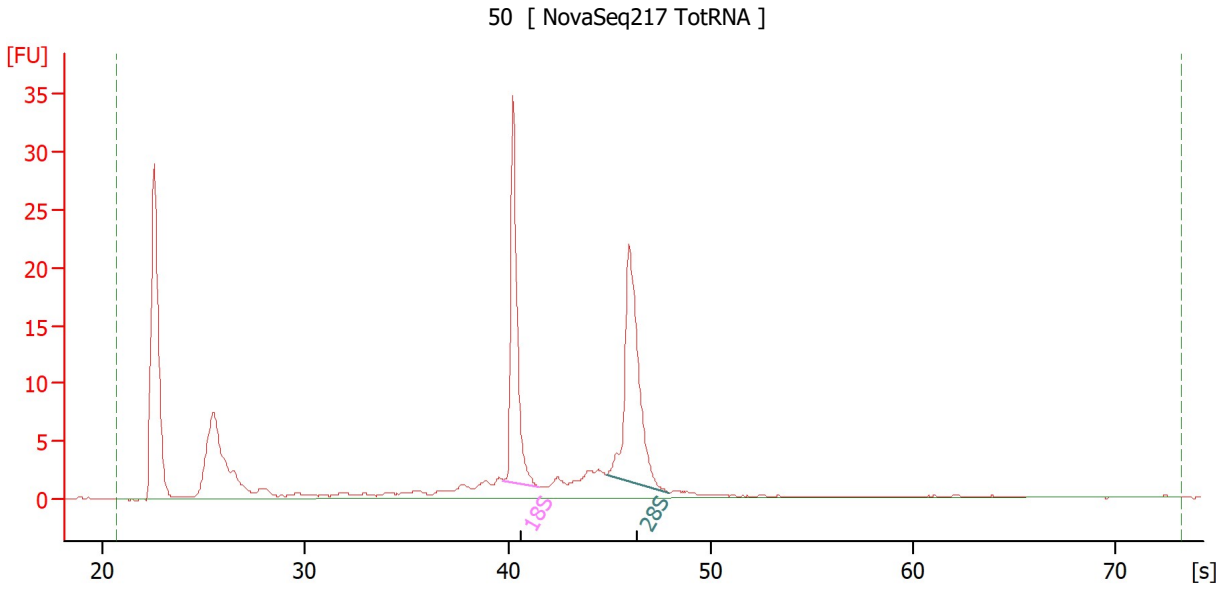
**Fragment table for sample 1 : 49**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.77	41.64	25.6	18.5
28S	44.89	47.77	34.3	24.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 50**

RNA Area:	148.8	RNA Integrity Number (RIN):	9.1 (B.02.10)
RNA Concentration:	90 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: 9.10

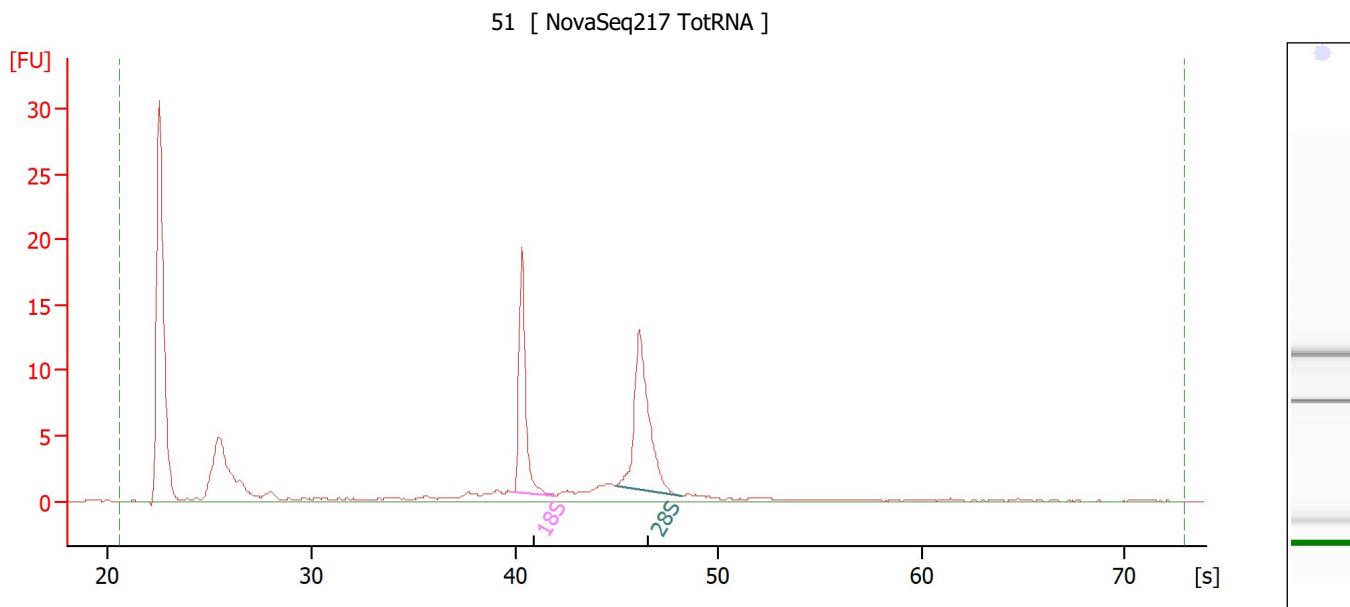
**Fragment table for sample 2 : 50**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.75	41.55	29.5	19.9
28S	44.84	47.92	34.4	23.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 51**

RNA Area:	95.0	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	57 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: 9.40

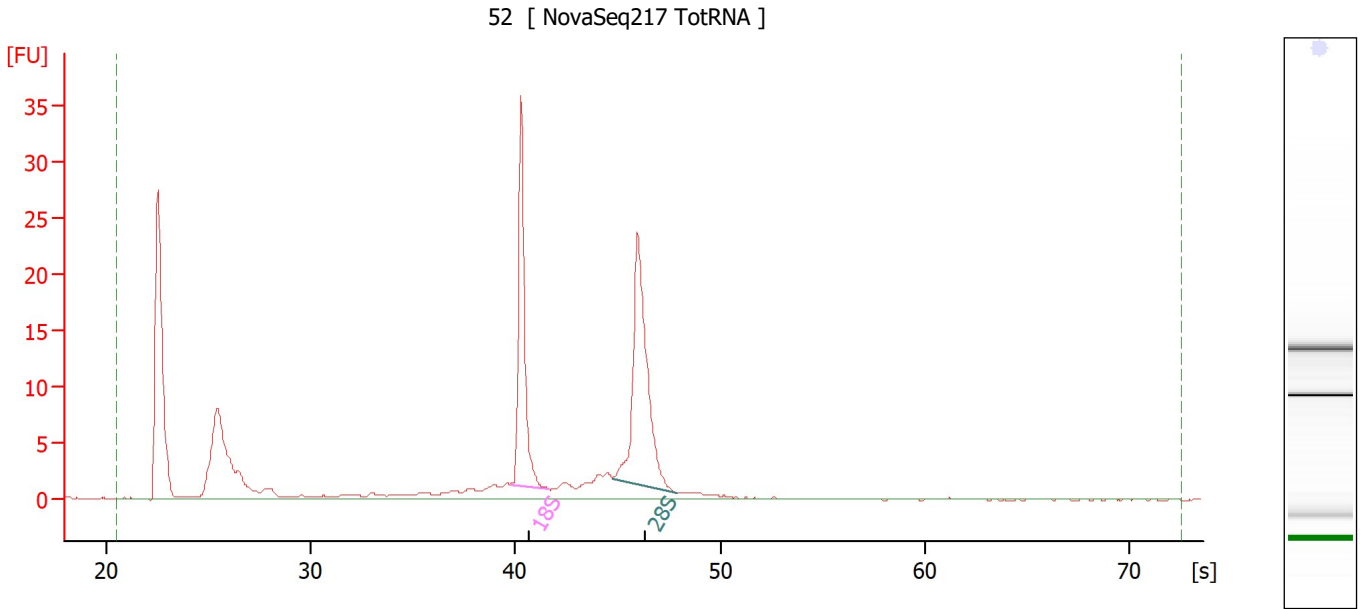
**Fragment table for sample 3 : 51**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.93	41.99	16.4	17.3
28S	44.95	48.17	21.4	22.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 52**

RNA Area:	148.6	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	90 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: 9.40

**Fragment table for sample 4 : 52**

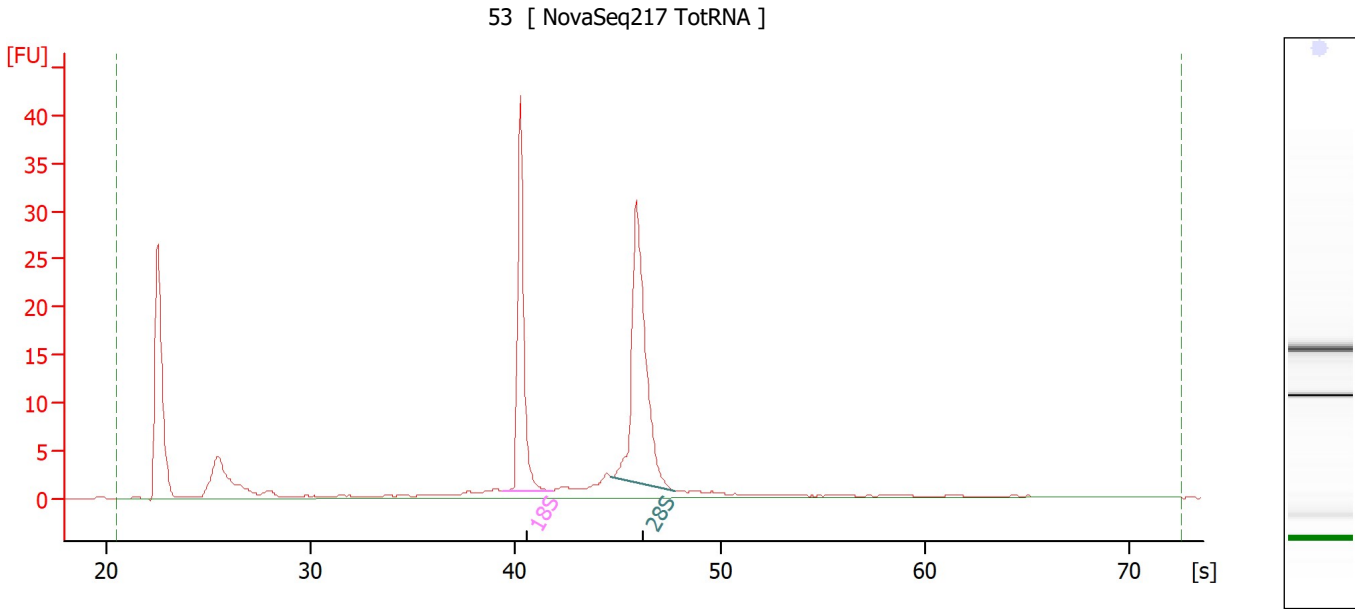
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.74	41.64	30.4	20.4
28S	44.74	47.89	37.7	25.4



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 53**

RNA Area:	152.7	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	92 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]:	1.4	Result Flagging Label:	RIN: 9.80

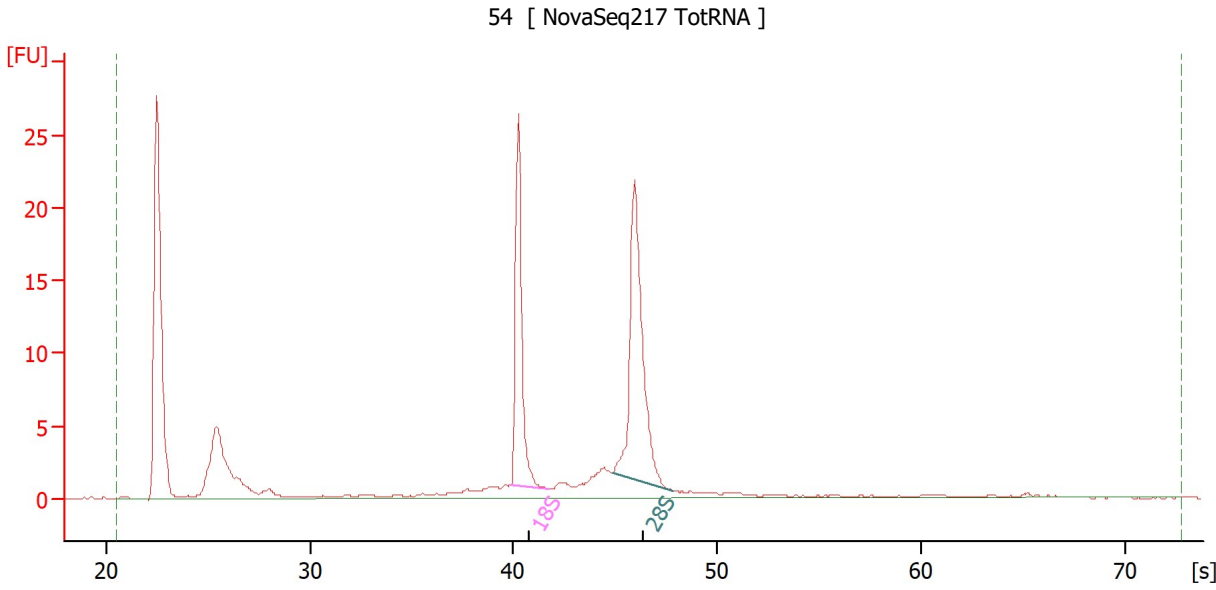
**Fragment table for sample 5 : 53**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.38	41.79	35.3	23.1
28S	44.68	47.79	48.9	32.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 54**

RNA Area: 111.5                      RNA Integrity Number (RIN): 9.6 (B.02.10)  
RNA Concentration: 67 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 9.60

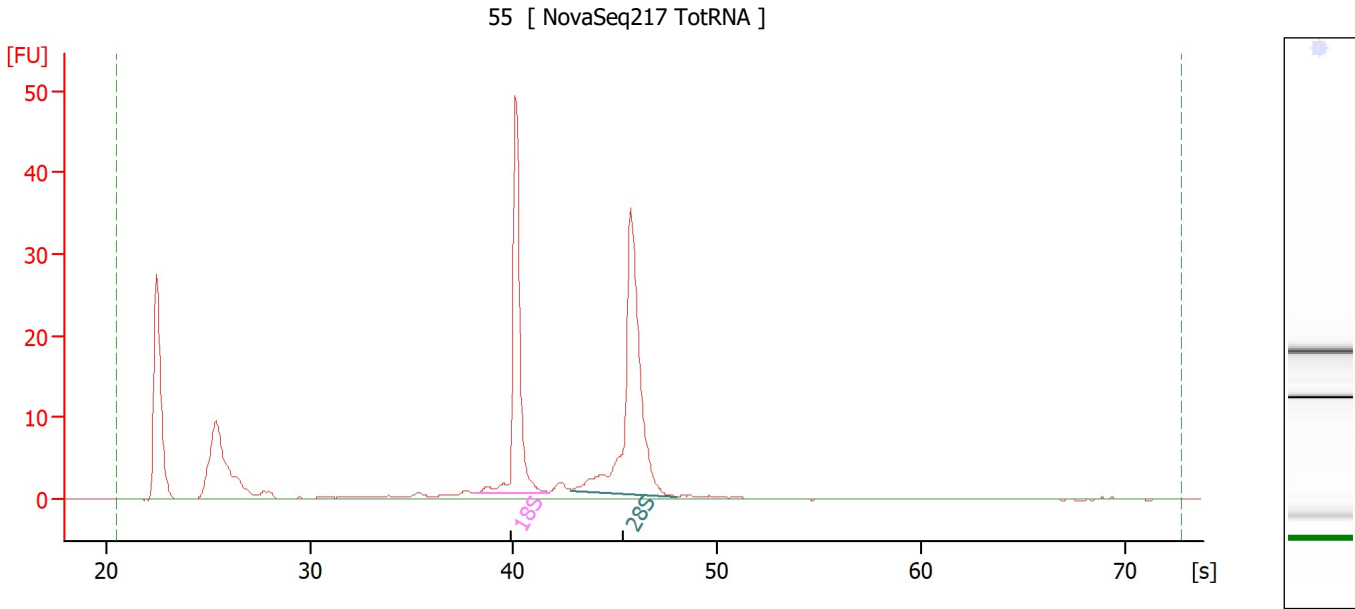
**Fragment table for sample 6 : 54**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.89	41.73	21.8	19.6
28S	44.84	47.85	31.3	28.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 55**

RNA Area:	178.4	RNA Integrity Number (RIN):	9.8 (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]:	1.4	Result Flagging Label:	RIN: 9.80

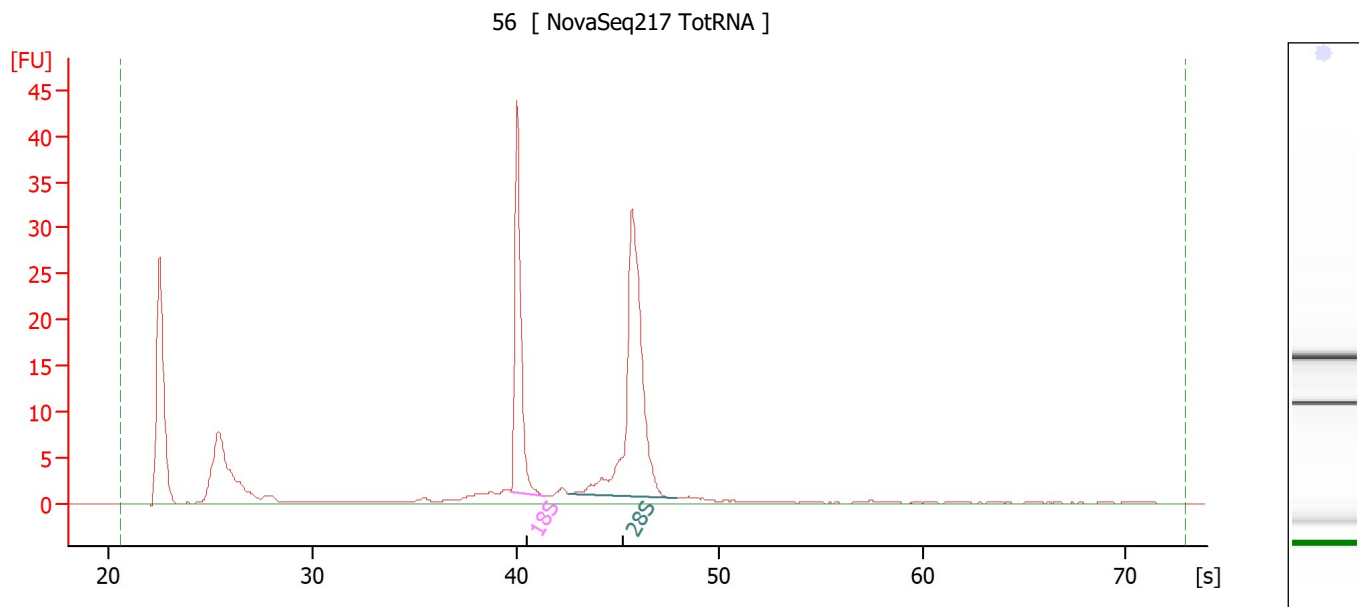
**Fragment table for sample 7 : 55**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.10	41.73	45.1	25.3
28S	42.84	48.00	62.7	35.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 56**

RNA Area:	167.3	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	101 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: 9.80

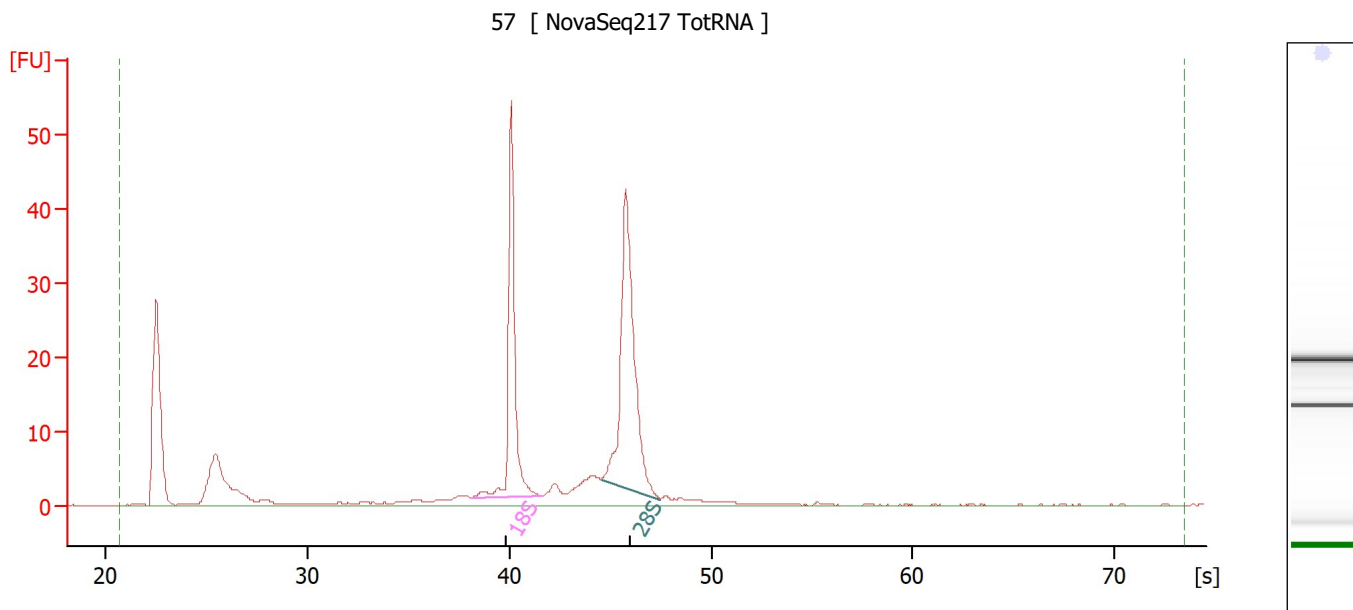
**Fragment table for sample 8 : 56**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.77	41.41	35.2	21.1
28S	42.62	47.90	60.8	36.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 57**

RNA Area:	209.1	RNA Integrity Number (RIN):	9.7 (B.02.10)
RNA Concentration:	126 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: 9.70

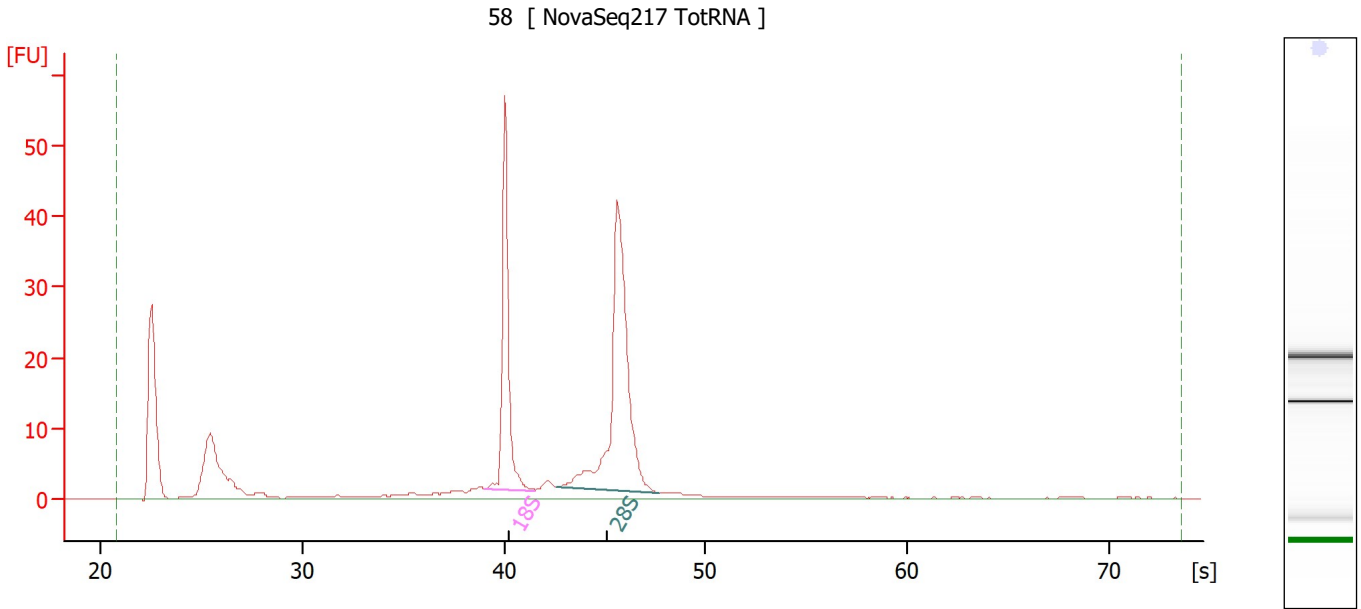
**Fragment table for sample 9 : 57**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.14	41.65	49.5	23.7
28S	44.57	47.50	65.7	31.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 58**

RNA Area:	225.5	RNA Integrity Number (RIN):	9.7 (B.02.10)
RNA Concentration:	136 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: 9.70

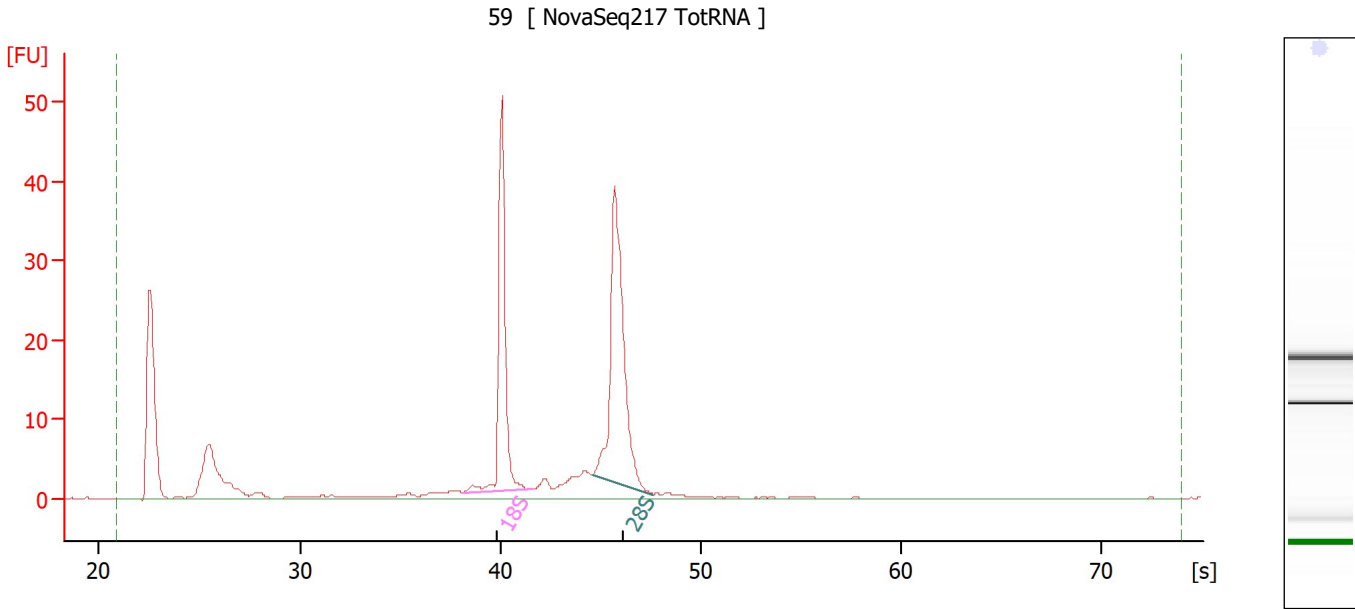
**Fragment table for sample 10 : 58**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.03	41.53	48.8	21.6
28S	42.65	47.72	80.9	35.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 59**

RNA Area:	191.3	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	115 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]:	1.4	Result Flagging Label:	RIN: 9.80

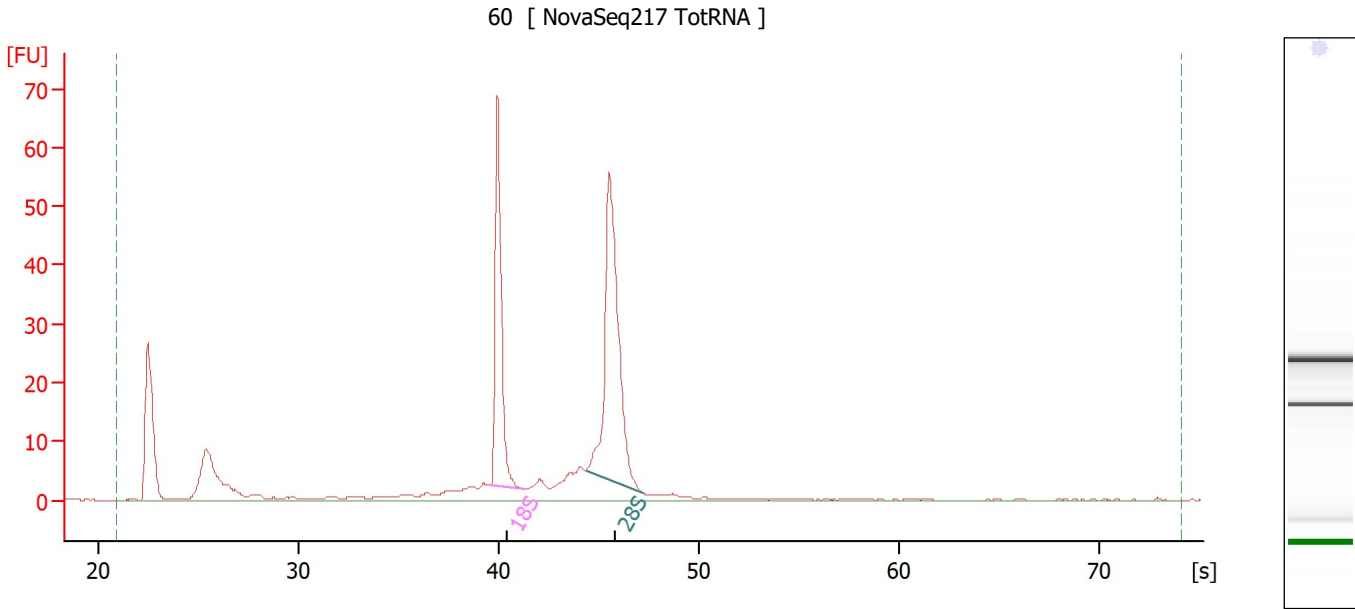
**Fragment table for sample 11 : 59**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.09	41.57	44.0	23.0
28S	44.57	47.63	60.8	31.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
 Modified: 6/29/2020 4:34:22 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 60**

RNA Area:	273.2	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	165 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]:	1.6	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 12 : 60**

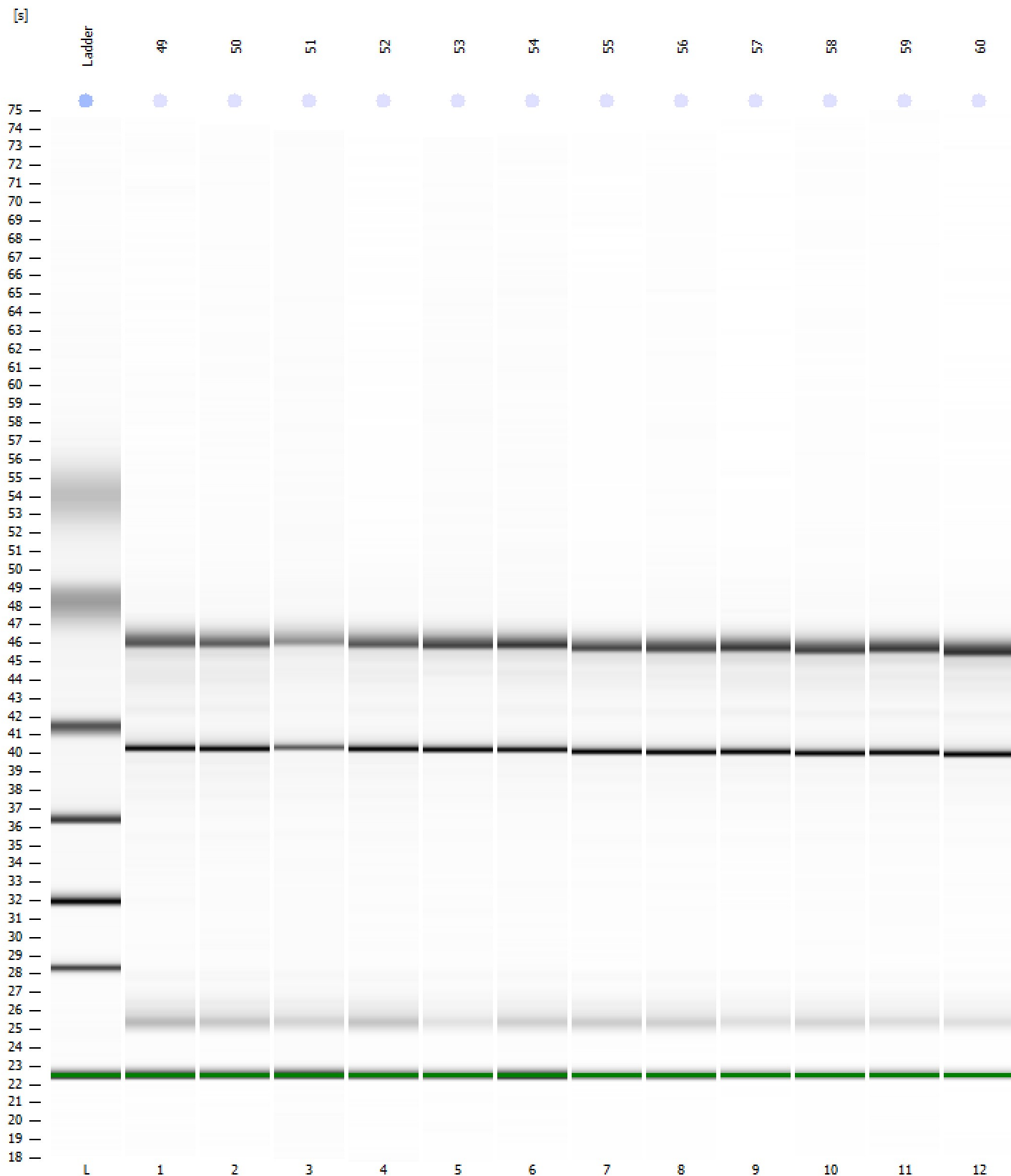
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.47	41.35	57.4	21.0
28S	44.41	47.20	90.2	33.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad

Created: 6/29/2020 4:07:42 PM  
Modified: 6/29/2020 4:34:22 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 6/29/2020 4:07:42 PM  
 Data Path: Z:\...29\Bioanalyzer1\_Eukaryote Total RNA Nano\_2020-06-29\_002.xad Modified: 6/29/2020 4:34:22 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		6/29/2020 4:31:30 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-29\Bioanalyze r1_Eukaryote Total RNA Nano_2020-06-29_002.xad)		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/29/2020 4:07:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB