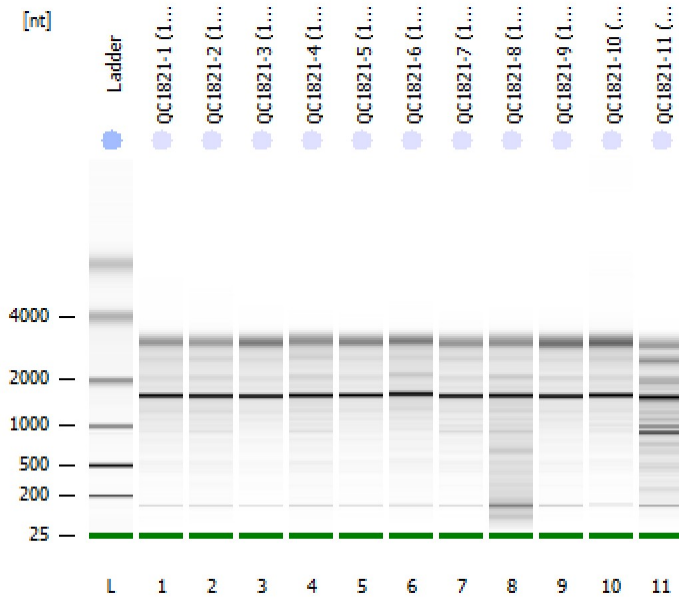


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
Modified: 4/25/2024 1:00:58 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 Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

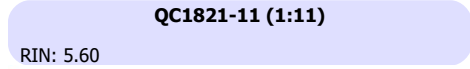
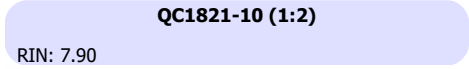
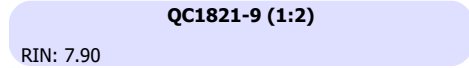
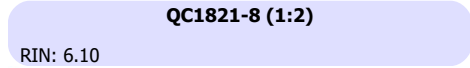
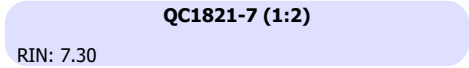
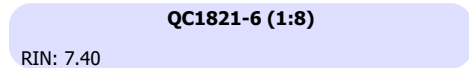
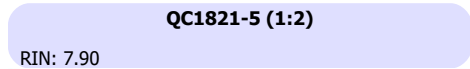
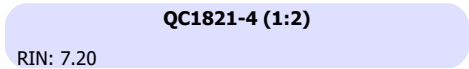
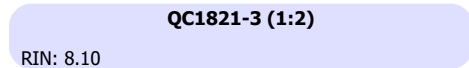
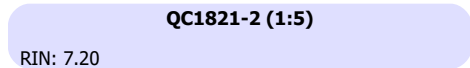
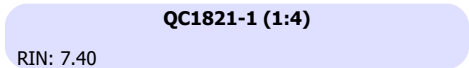
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1821-1 (1:4)		✓	RIN: 7.40	
QC1821-2 (1:5)		✓	RIN: 7.20	
QC1821-3 (1:2)		✓	RIN: 8.10	
QC1821-4 (1:2)		✓	RIN: 7.20	
QC1821-5 (1:2)		✓	RIN: 7.90	
QC1821-6 (1:8)		✓	RIN: 7.40	
QC1821-7 (1:2)		✓	RIN: 7.30	
QC1821-8 (1:2)		✓	RIN: 6.10	
QC1821-9 (1:2)		✓	RIN: 7.90	
QC1821-10 (1:2)		✓	RIN: 7.90	
QC1821-11 (1:11)		✓	RIN: 5.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 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/μl] : 1000  
 Lower Marker Concentration [pg/μl] : 0  
 Upper Marker Concentration [pg/μl] : 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

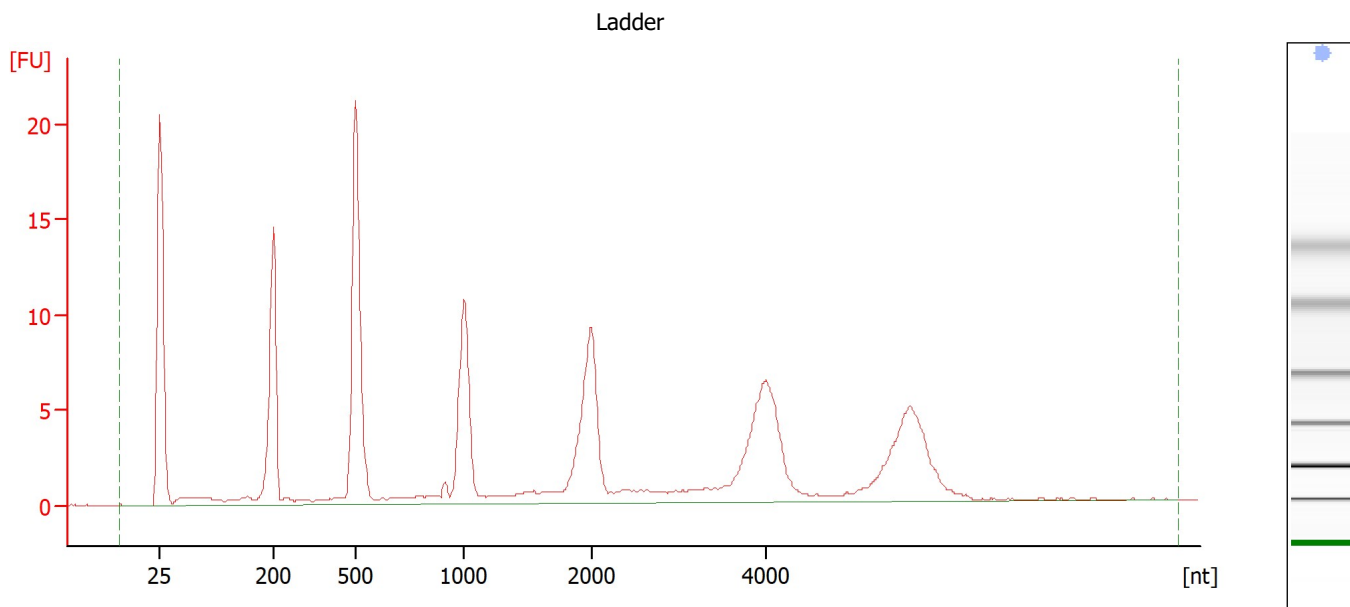
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary**



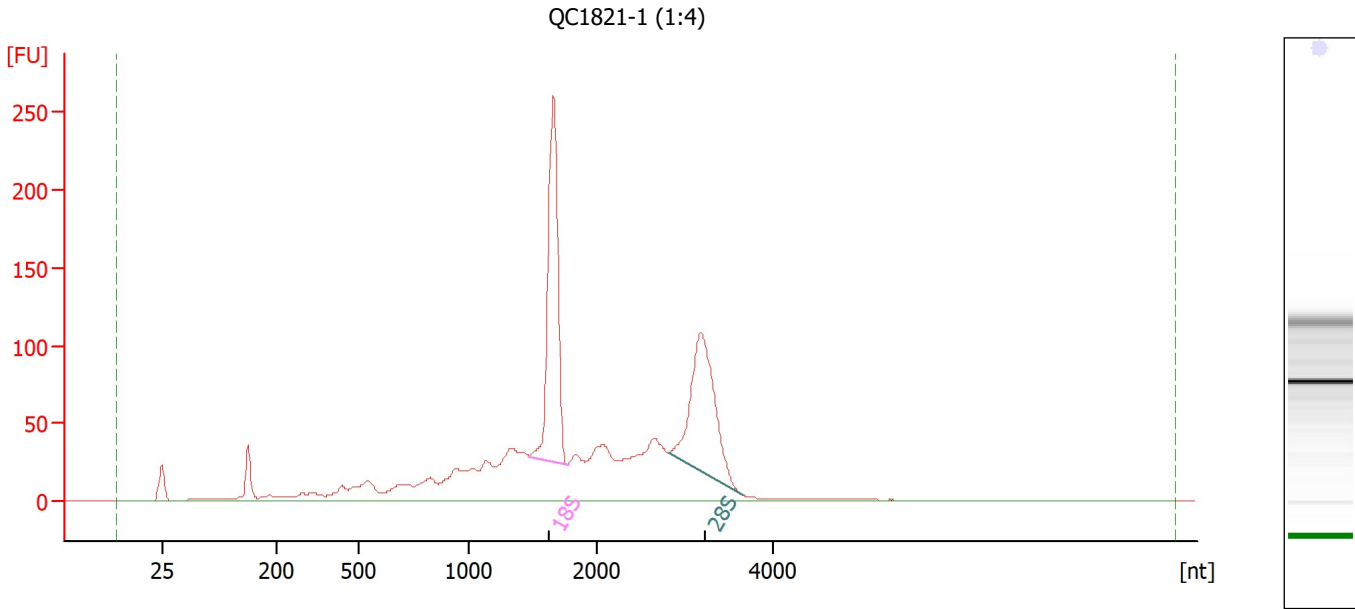
**Overall Results for Ladder**

RNA Area:	154.1	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:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : QC1821-1 (1:4)**

RNA Area:	1,670.0	RNA Integrity Number (RIN):	7.4 (B.02.10)
RNA Concentration:	10,834 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]:	0.8	Result Flagging Label:	RIN: 7.40

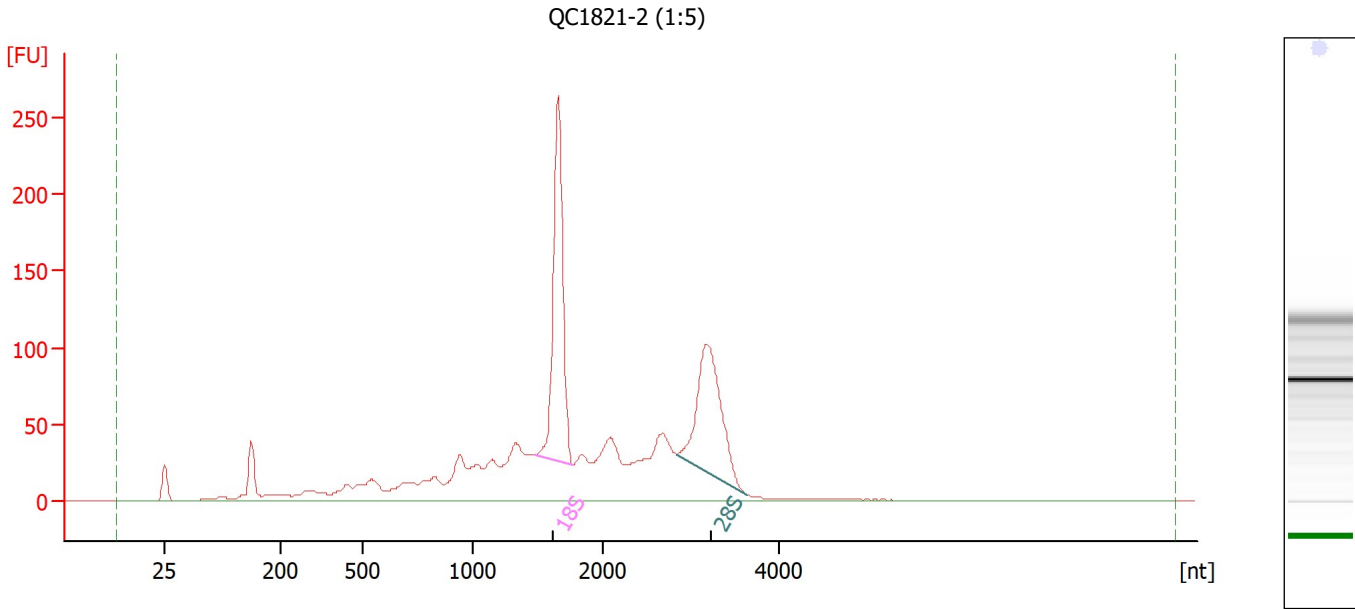
**Fragment table for sample 1 : QC1821-1 (1:4)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,477	1,777	308.5	18.5
28S	2,817	3,668	249.6	14.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : QC1821-2 (1:5)**

RNA Area:	1,720.3	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	11,161 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]:	0.7	Result Flagging Label:	RIN: 7.20

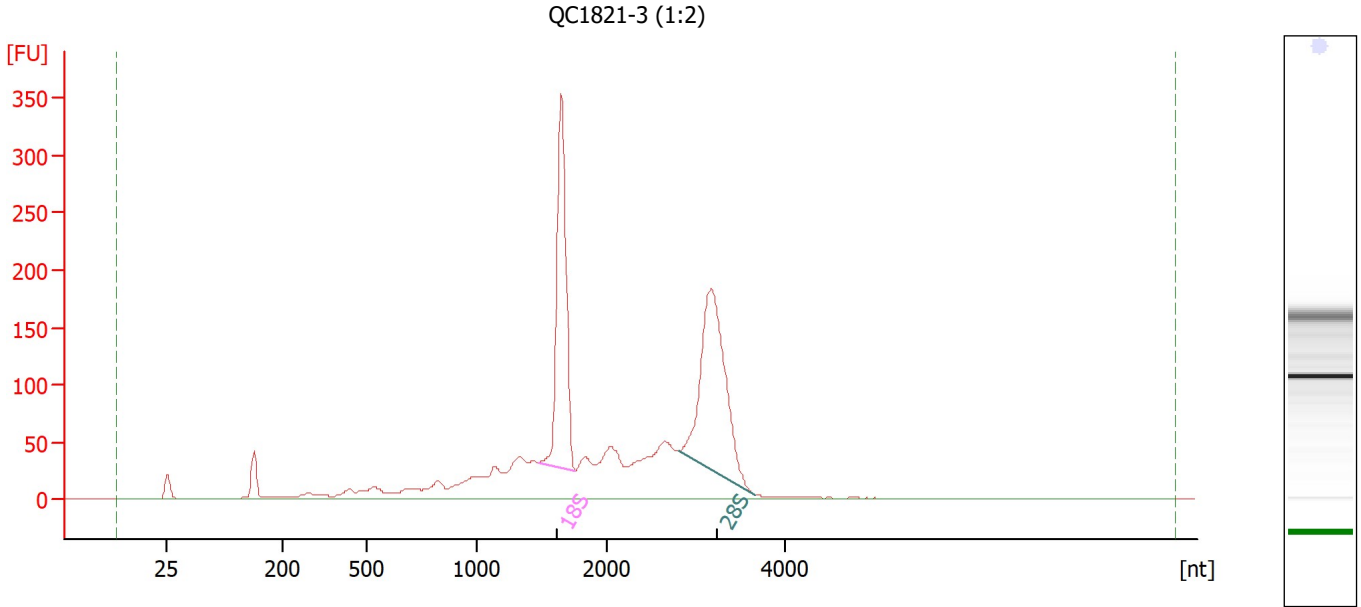
**Fragment table for sample 2 : QC1821-2 (1:5)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,474	1,771	312.9	18.2
28S	2,837	3,622	229.8	13.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : QC1821-3 (1:2)**

RNA Area: 2,057.7                      RNA Integrity Number (RIN): 8.1 (B.02.10)  
RNA Concentration: 13,350 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 8.10

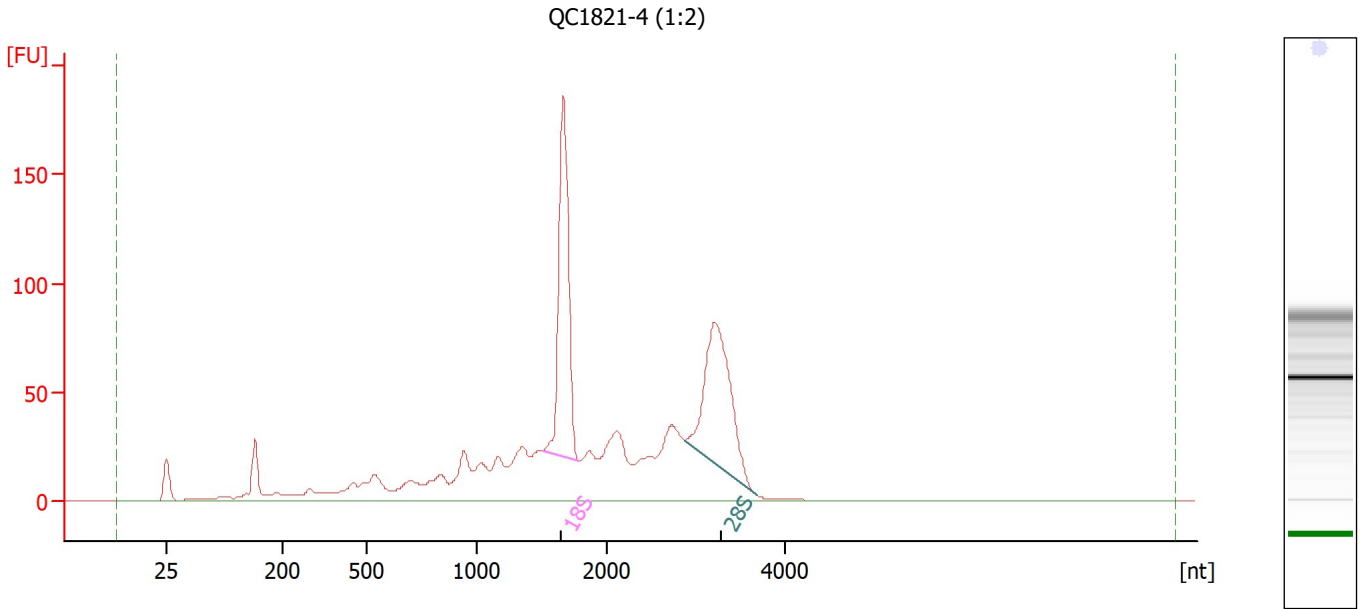
**Fragment table for sample 3 : QC1821-3 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	1,757	408.4	19.8
28S	2,799	3,664	448.1	21.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : QC1821-4 (1:2)**

RNA Area:	1,318.7	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	8,555 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]:	0.9	Result Flagging Label:	RIN: 7.20

**Fragment table for sample 4 : QC1821-4 (1:2)**

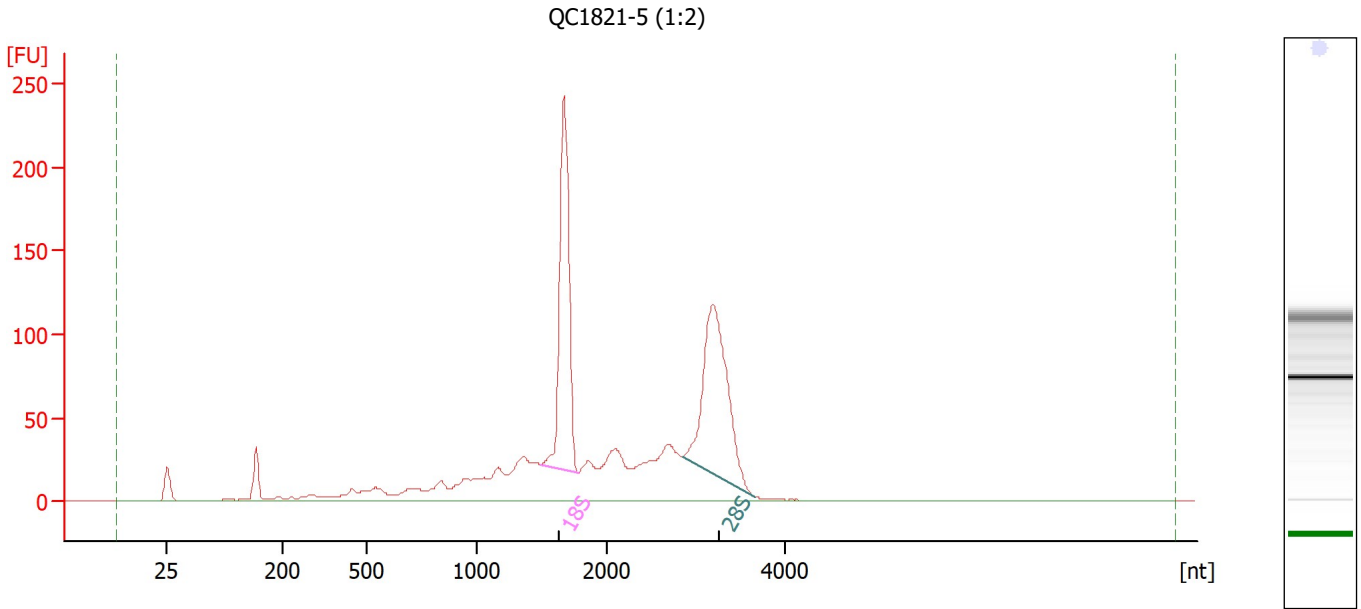
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,502	1,790	214.7	16.3
28S	2,883	3,676	193.0	14.6



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : QC1821-5 (1:2)**

RNA Area:	1,385.8	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	8,990 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: 7.90

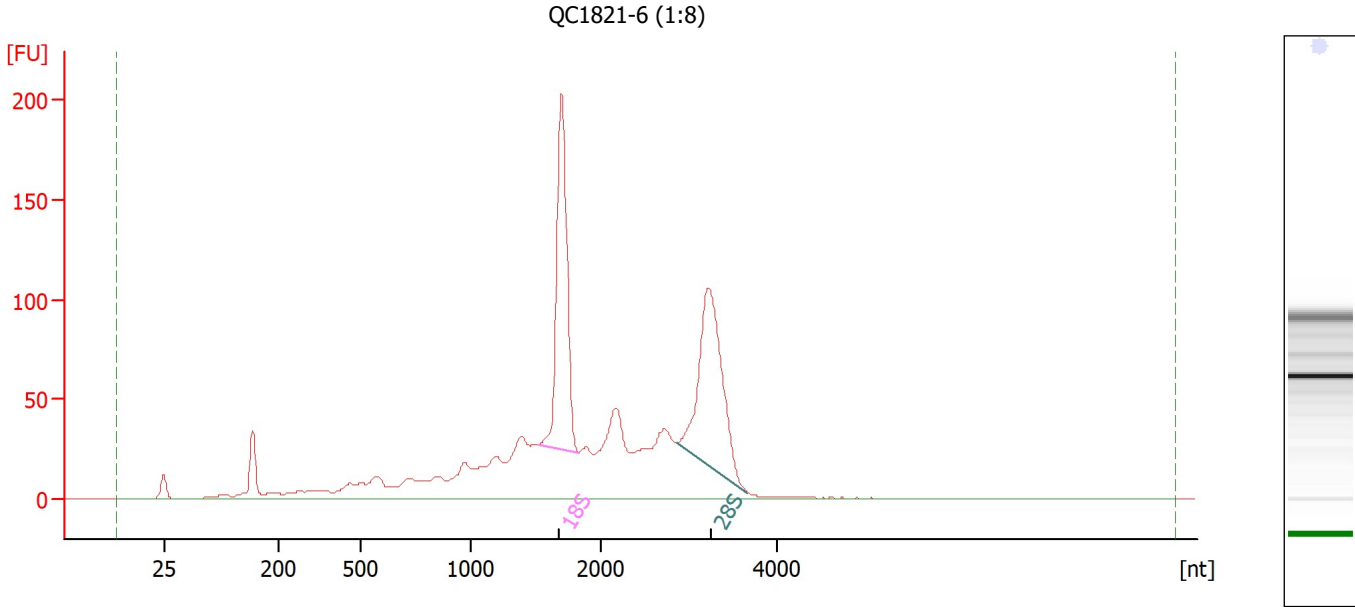
**Fragment table for sample 5 : QC1821-5 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,494	1,782	275.1	19.9
28S	2,847	3,664	280.9	20.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : QC1821-6 (1:8)**

RNA Area:	1,472.6	RNA Integrity Number (RIN):	7.4 (B.02.10)
RNA Concentration:	9,553 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: 7.40

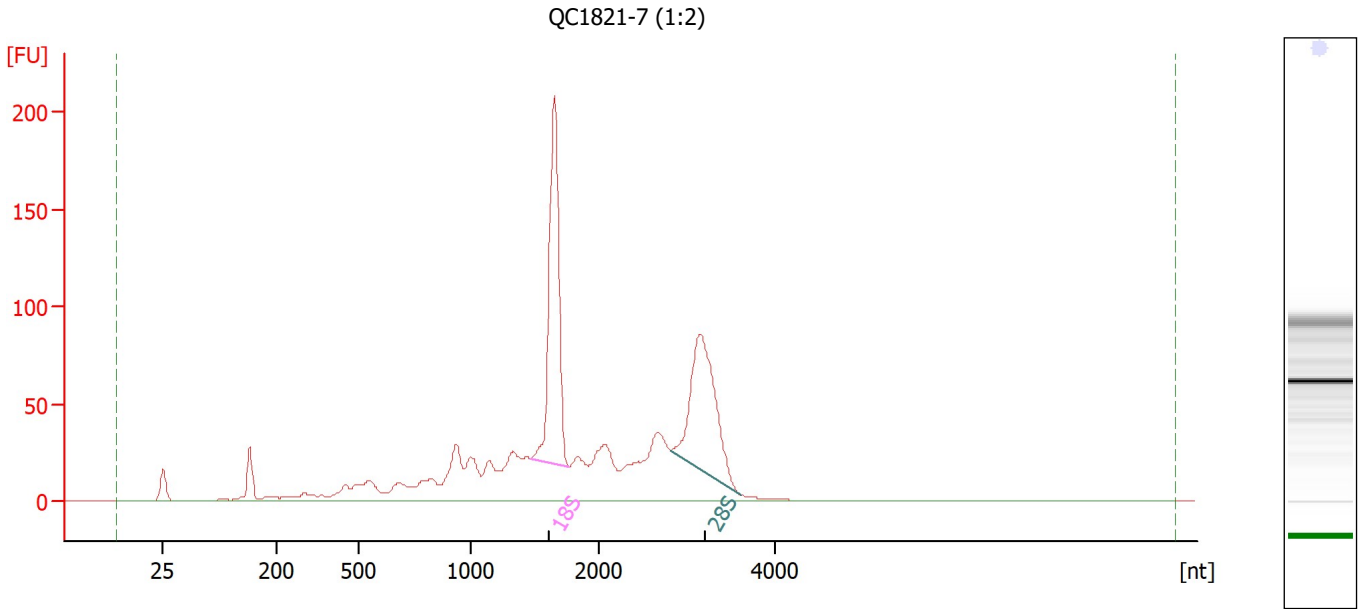
**Fragment table for sample 6 : QC1821-6 (1:8)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,513	1,828	248.4	16.9
28S	2,863	3,661	239.2	16.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : QC1821-7 (1:2)**

RNA Area:	1,314.5	RNA Integrity Number (RIN):	7.3 (B.02.10)
RNA Concentration:	8,528 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]:	0.8	Result Flagging Label:	RIN: 7.30

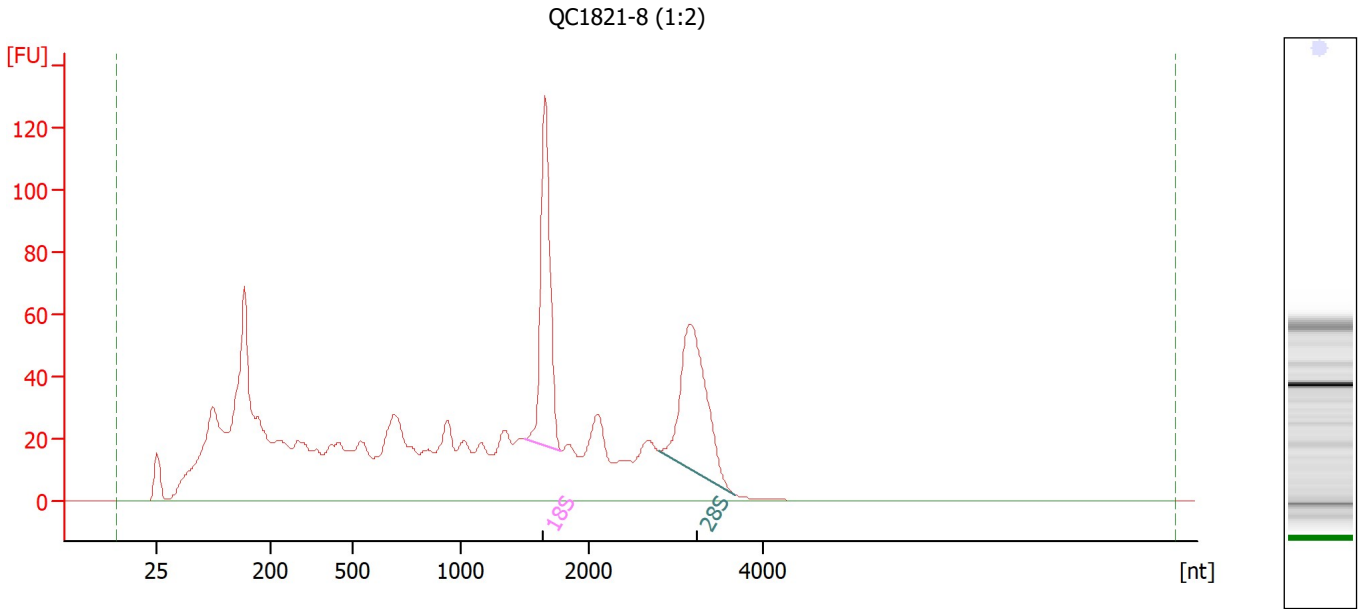
**Fragment table for sample 7 : QC1821-7 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,479	1,769	245.8	18.7
28S	2,828	3,616	198.5	15.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : QC1821-8 (1:2)**

RNA Area:	1,724.3	RNA Integrity Number (RIN):	6.1 (B.02.10)
RNA Concentration:	11,186 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: 6.10

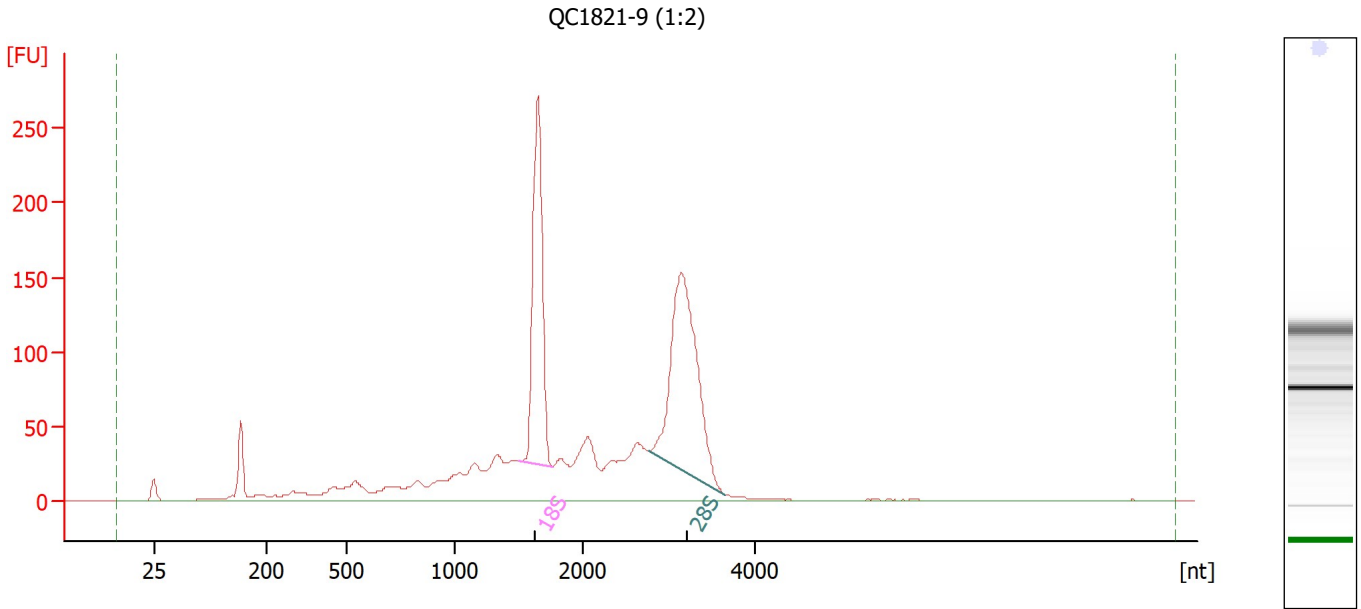
**Fragment table for sample 8 : QC1821-8 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,504	1,789	146.2	8.5
28S	2,822	3,680	141.4	8.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : QC1821-9 (1:2)**

RNA Area:	1,814.8	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	11,774 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]:	1.3	Result Flagging Label:	RIN: 7.90

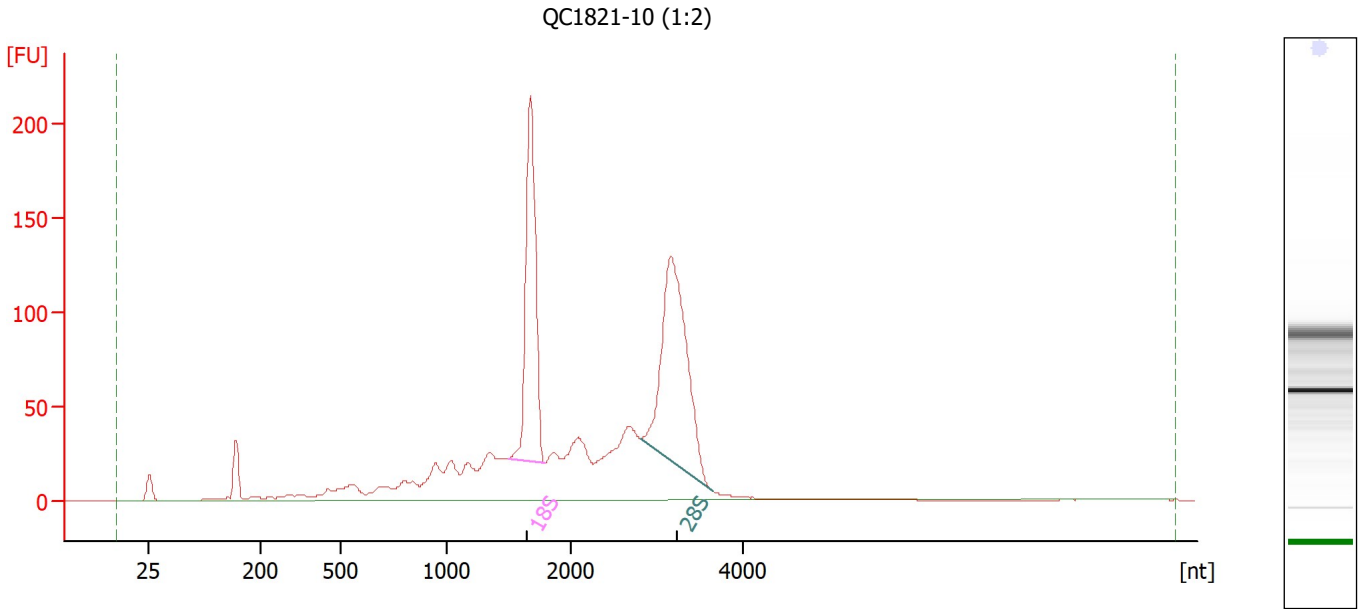
**Fragment table for sample 9 : QC1821-9 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,499	1,761	316.8	17.5
28S	2,776	3,653	407.5	22.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : QC1821-10 (1:2)**

RNA Area:	1,521.2	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	9,869 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: 7.90

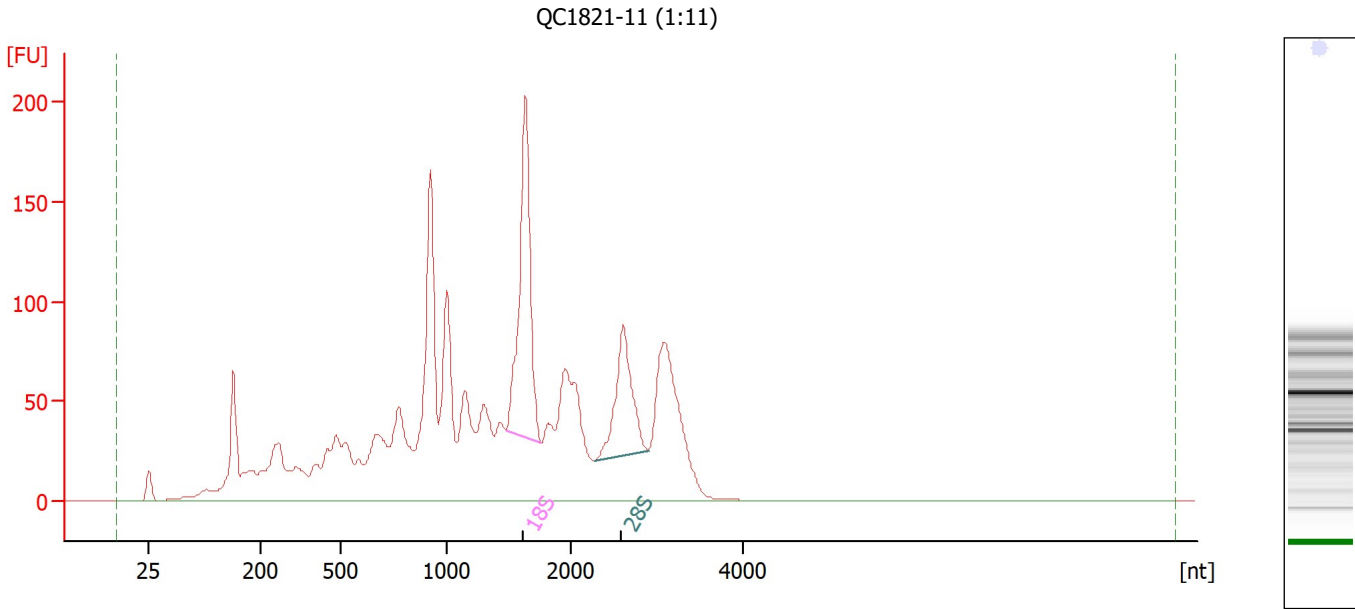
**Fragment table for sample 10 : QC1821-10 (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,490	1,781	265.0	17.4
28S	2,819	3,657	326.8	21.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : QC1821-11 (1:11)**

RNA Area:	2,607.1	RNA Integrity Number (RIN):	5.6 (B.02.10)
RNA Concentration:	16,914 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]:	0.5	Result Flagging Label:	RIN: 5.60

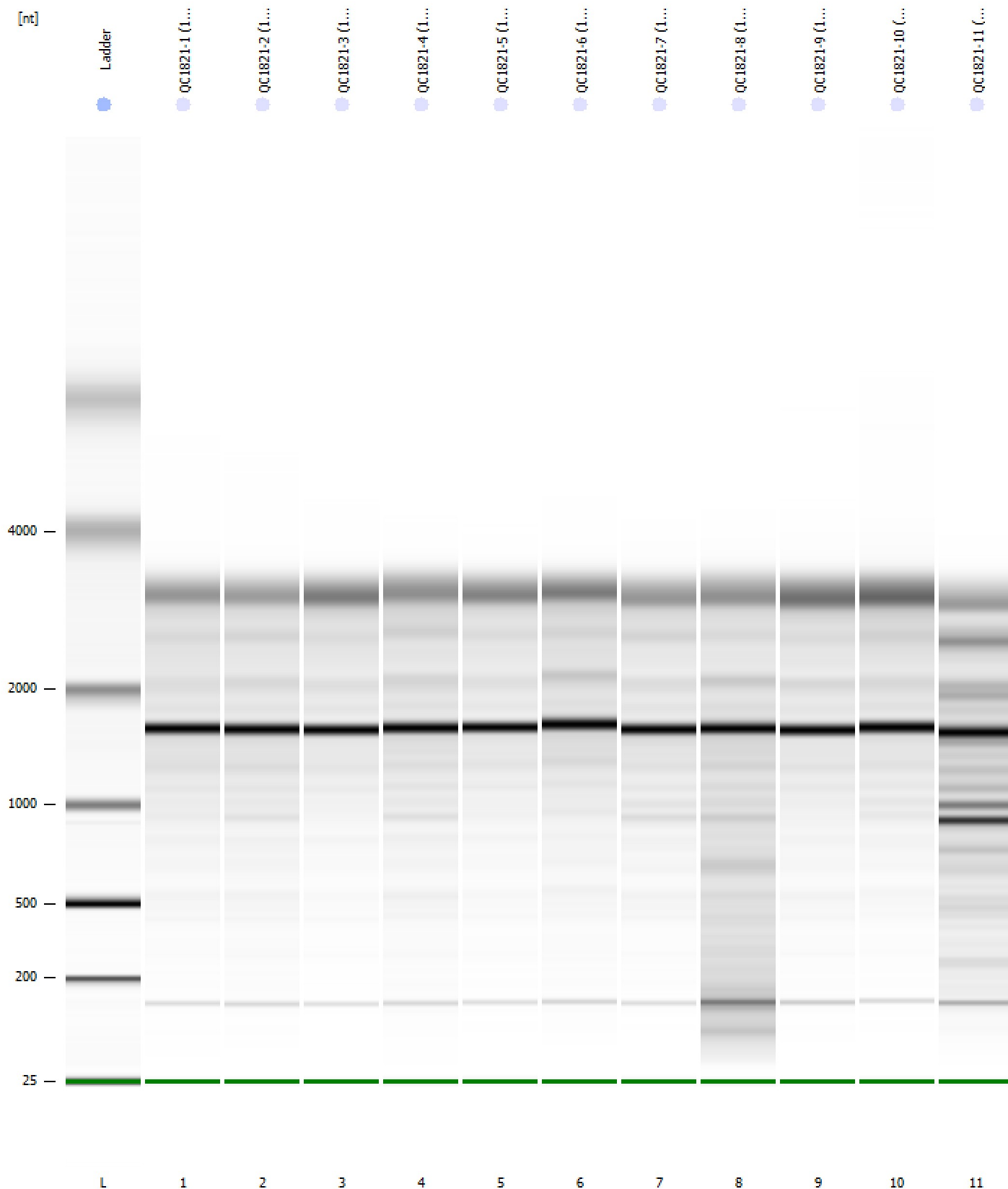
**Fragment table for sample 11 : QC1821-11 (1:11)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,473	1,756	263.2	10.1
28S	2,269	2,894	130.4	5.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
Modified: 4/25/2024 1:00:58 PM

Gel Image





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2024-04-25\_001.xad

Created: 4/25/2024 12:21:20 PM  
 Modified: 4/25/2024 1:00:58 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/25/2024 12:44:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2024-04-25\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2024-04-25_001.xad)		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		4/25/2024 12:21:26 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB