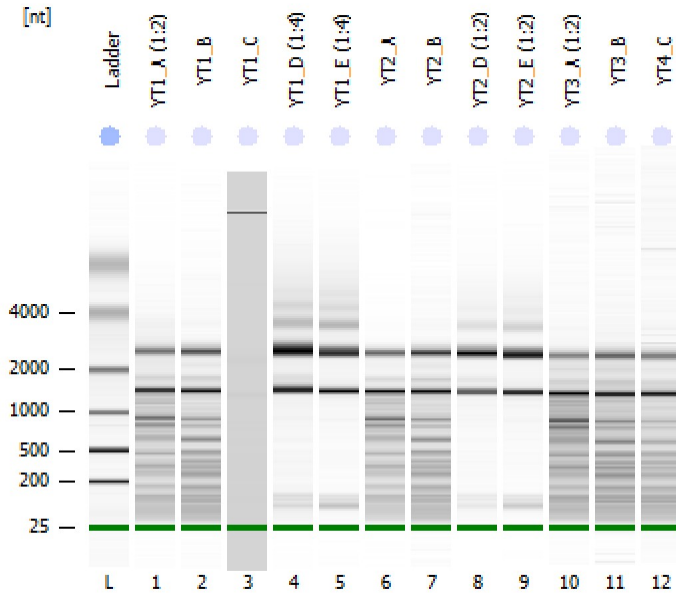


Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
Modified: 9/11/2024 3:05:18 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

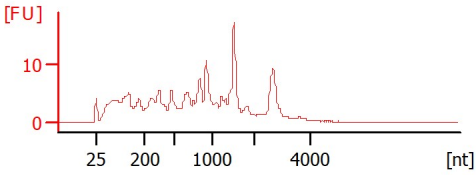
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Prokaryote Total RNA Nano Series II.xsy  
Assay Class: Prokaryote Total RNA Nano  
Version: 2.5  
Assay Comments: Total RNA Analysis ng sensitivity (Prokaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

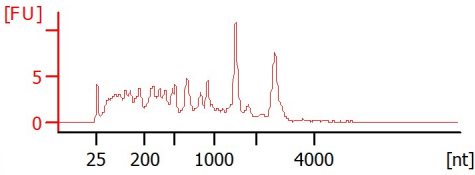
Chip Information:

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

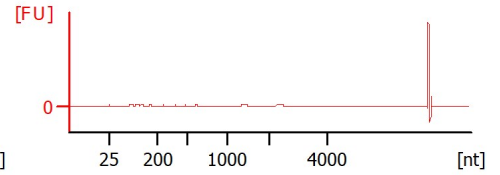
**QC1961-1      YT1\_A (1:2)**  
RIN: 5.60



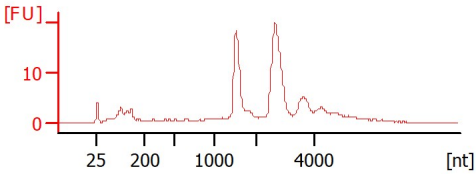
**QC1961-2      YT1\_B**  
RIN: 6



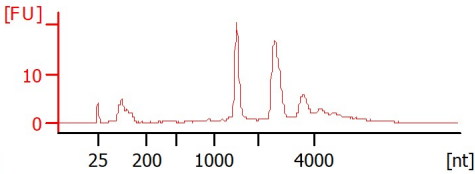
**QC1961-3      YT1\_C**  
RIN: 6.20



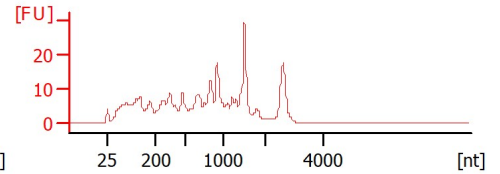
**QC1961-4      YT1\_D (1:4)**  
RIN: 9.10



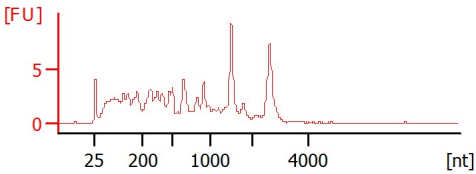
**QC1961-5      YT1\_E (1:4)**  
RIN: 9.30



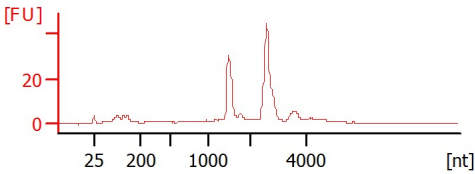
**QC1961-7      YT2\_A**  
RIN: 5.60



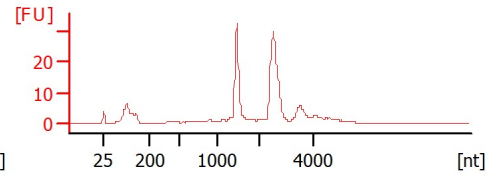
**QC1961-8      YT2\_B**  
RIN: 6.20



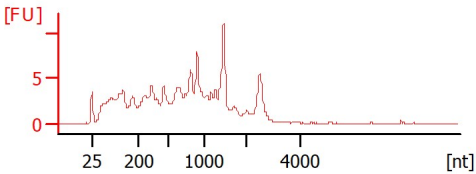
**QC1961-10      YT2\_D (1:2)**  
RIN: 9.30



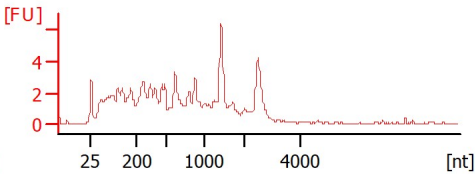
**QC1961-11      YT2\_E (1:2)**  
RIN: 9.30



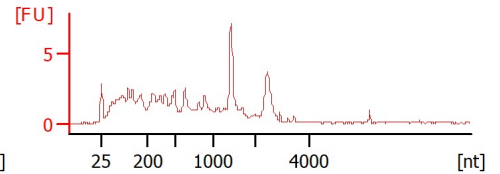
**QC1961-13      YT3\_A (1:2)**  
RIN: 5.10



**QC1961-14      YT3\_B**  
RIN: 5.70



**QC1961-15      YT4\_C**  
RIN: 6



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
YT1_A (1:2)	QC1961-1	✓	RIN: 5.60	
YT1_B	QC1961-2	✓	RIN:6	
YT1_C	QC1961-3	✓	RIN: 6.20	
YT1_D (1:4)	QC1961-4	✓	RIN: 9.10	
YT1_E (1:4)	QC1961-5	✓	RIN: 9.30	
YT2_A	QC1961-7	✓	RIN: 5.60	
YT2_B	QC1961-8	✓	RIN: 6.20	
YT2_D (1:2)	QC1961-10	✓	RIN: 9.30	
YT2_E (1:2)	QC1961-11	✓	RIN: 9.30	
YT3_A (1:2)	QC1961-13	✓	RIN: 5.10	
YT3_B	QC1961-14	✓	RIN: 5.70	
YT4_C	QC1961-15	✓	RIN:6	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 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

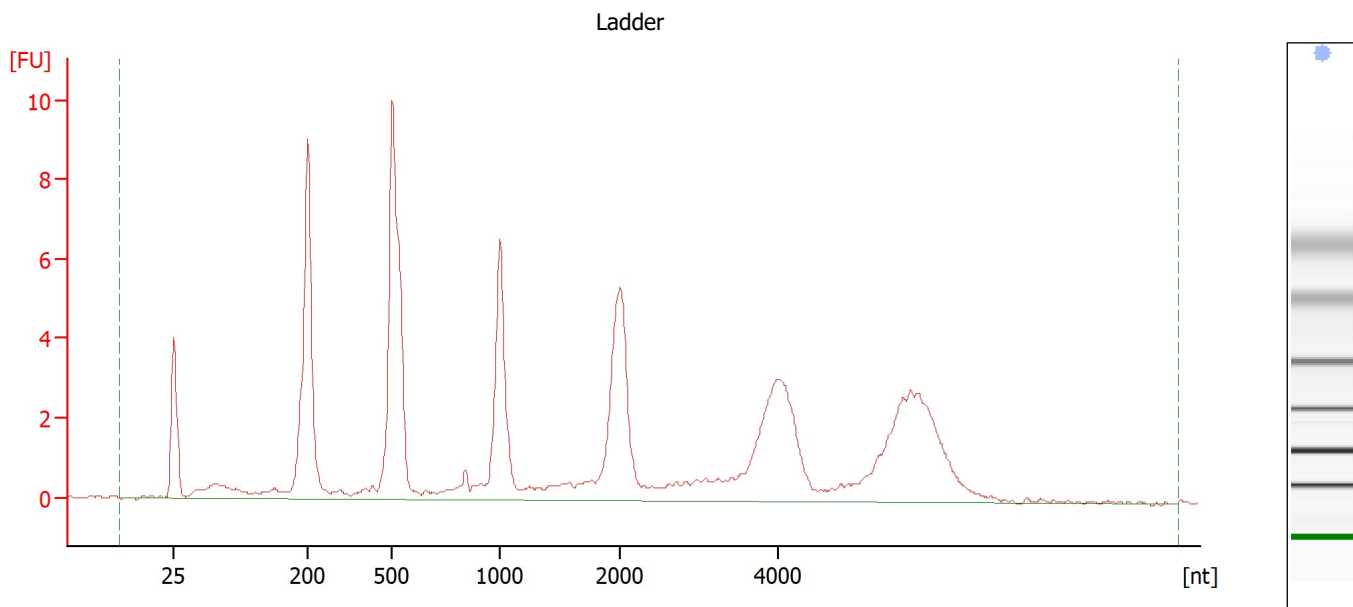
**Ladder**

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
Modified: 9/11/2024 3:05:18 PM

### Electropherogram Summary



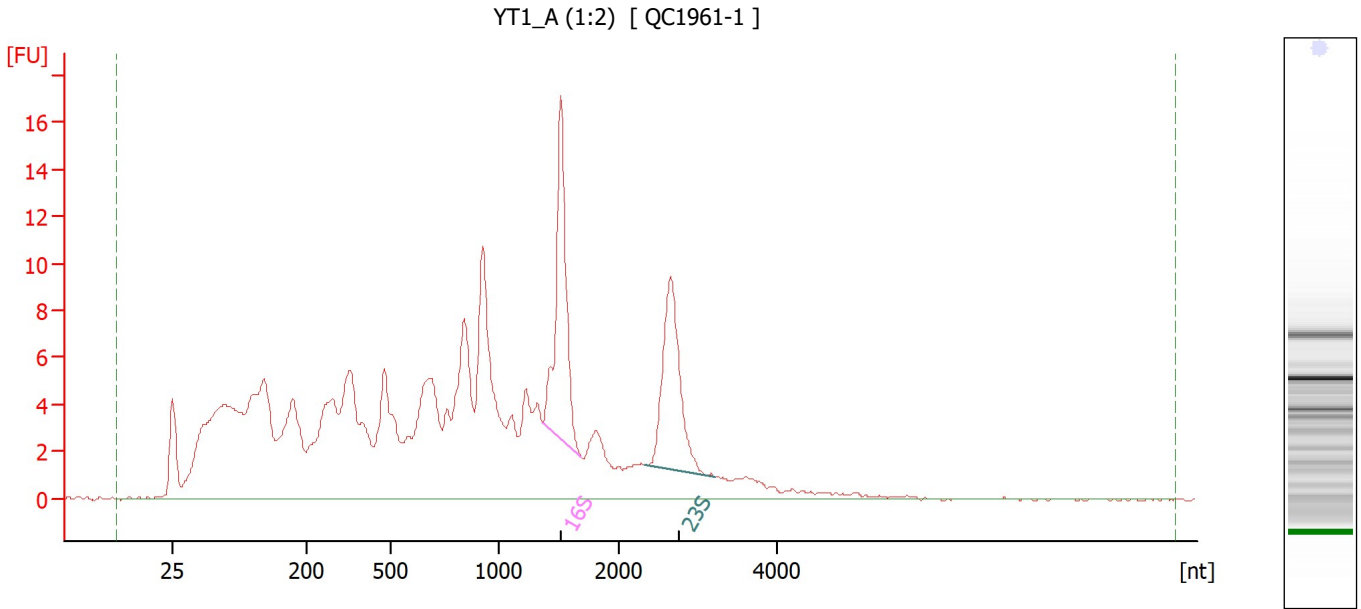
### Overall Results for Ladder

RNA Area:	98.9	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: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : YT1\_A (1:2)**

RNA Area:	282.0	RNA Integrity Number (RIN):	5.6 (B.02.10)
RNA Concentration:	428 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.9	Result Flagging Label:	RIN: 5.60

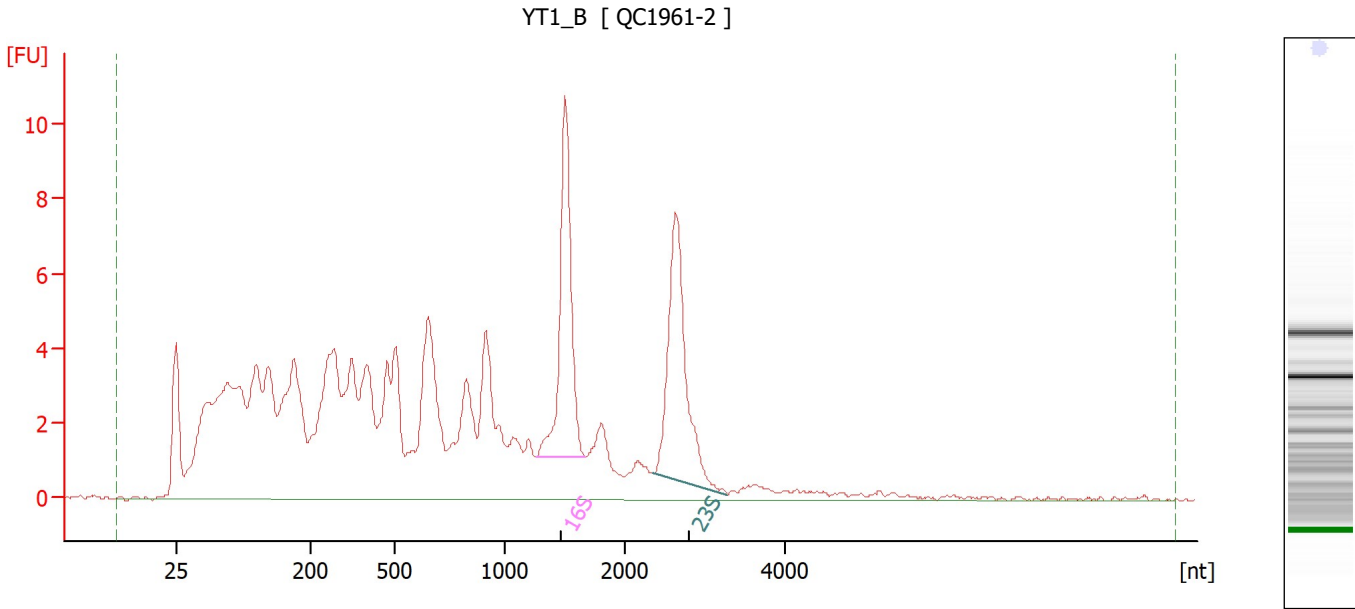
**Fragment table for sample 1 : YT1\_A (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,359	1,688	19.8	7.0
23S	2,324	3,200	16.9	6.0

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : YT1\_B**

RNA Area:	187.8	RNA Integrity Number (RIN):	6 (B.02.10)
RNA Concentration:	285 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.1	Result Flagging Label:	RIN:6

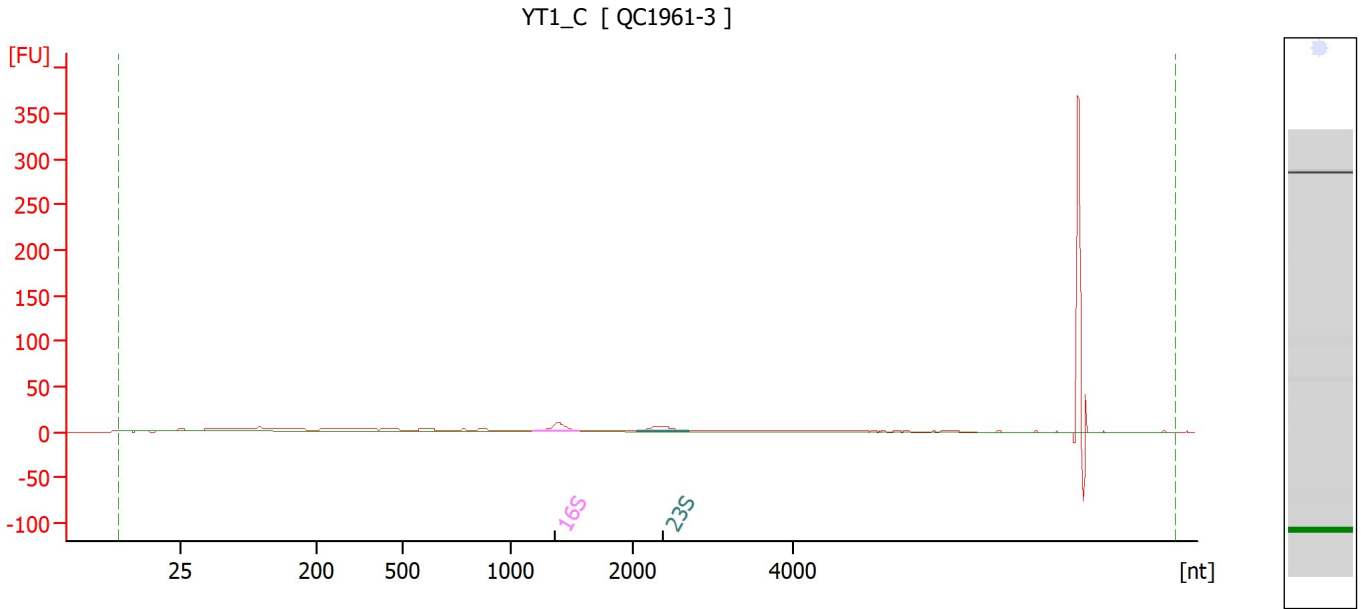
**Fragment table for sample 2 : YT1\_B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,258	1,665	13.8	7.4
23S	2,337	3,275	14.7	7.8

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : YT1\_C**

RNA Area:	301.0	RNA Integrity Number (RIN):	6.2 (B.02.10)
RNA Concentration:	456 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.9	Result Flagging Label:	RIN: 6.20

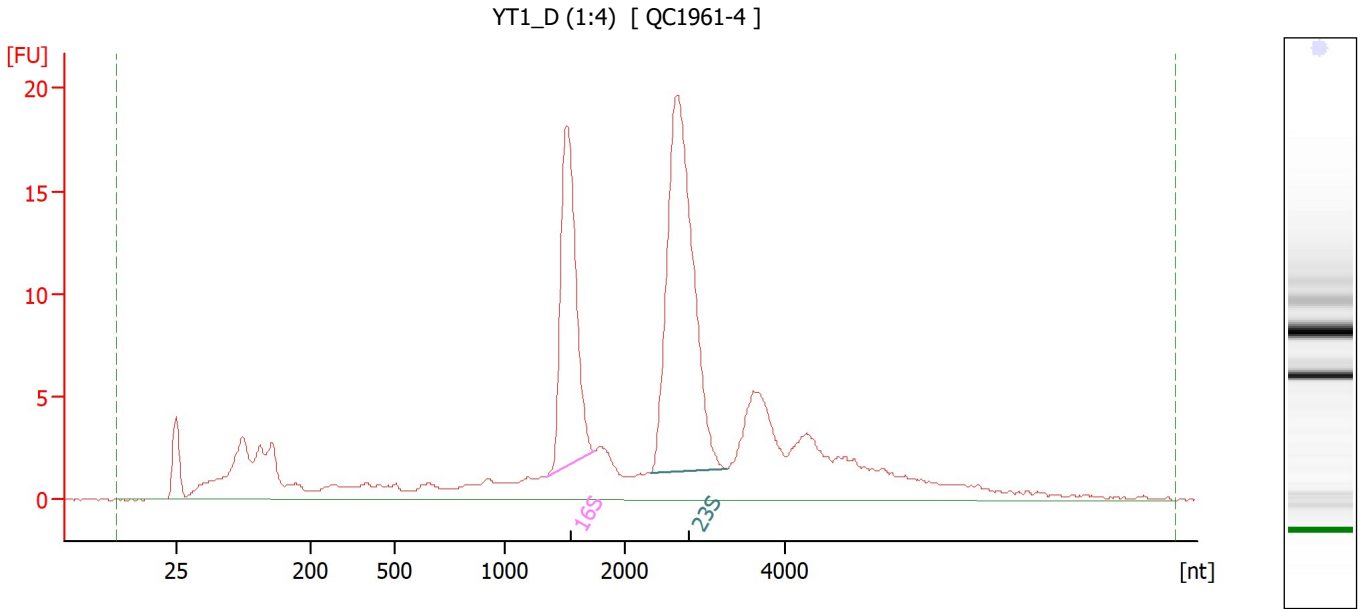
**Fragment table for sample 3 : YT1\_C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,177	1,555	14.6	4.8
23S	2,058	2,710	13.8	4.6

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : YT1\_D (1:4)**

RNA Area: 218.8                      RNA Integrity Number (RIN): 9.1 (B.02.10)  
RNA Concentration: 332 ng/μl                      Result Flagging Color:   
rRNA Ratio [23s / 16s]: 1.7                      Result Flagging Label: RIN: 9.10

**Fragment table for sample 4 : YT1\_D (1:4)**

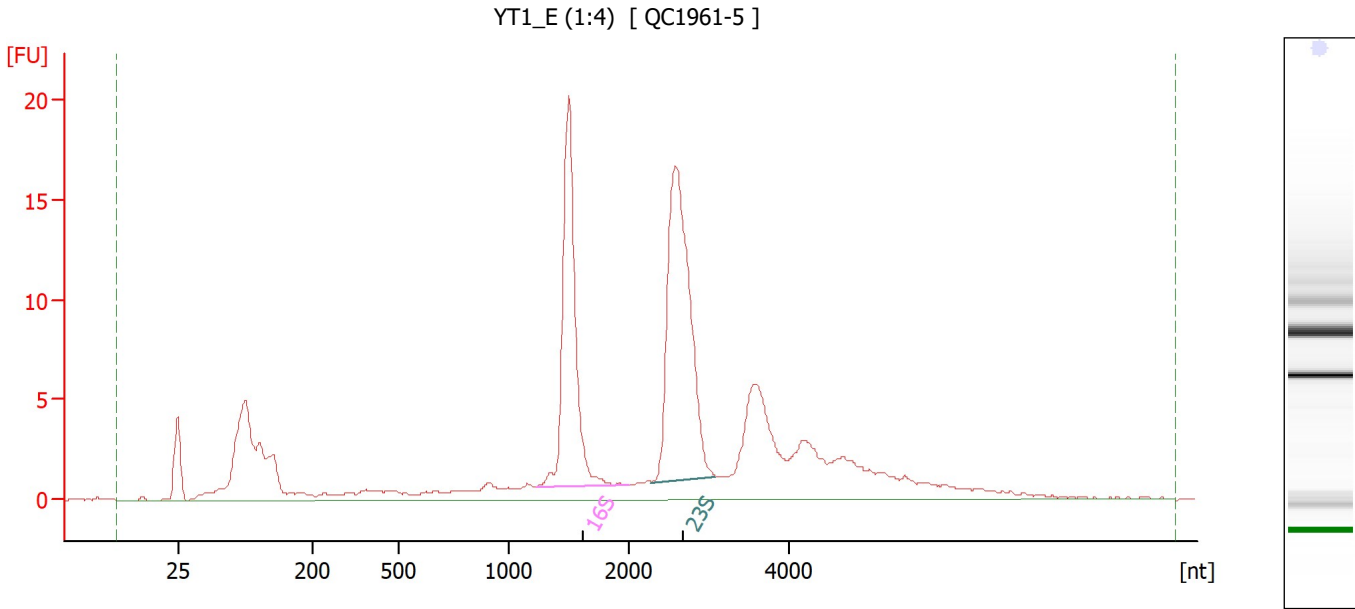
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,347	1,745	33.7	15.4
23S	2,310	3,275	56.4	25.8



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : YT1\_E (1:4)**

RNA Area:	178.9	RNA Integrity Number (RIN):	9.3 (B.02.10)
RNA Concentration:	271 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.3	Result Flagging Label:	RIN: 9.30

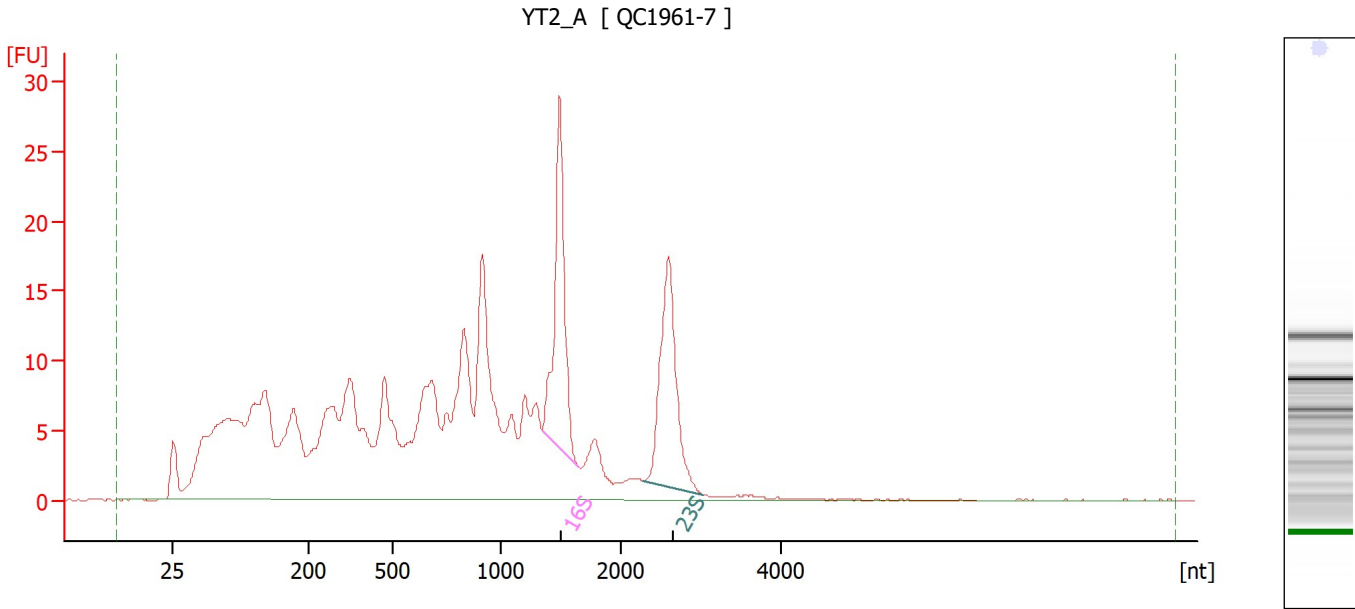
**Fragment table for sample 5 : YT1\_E (1:4)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,227	1,994	31.7	17.7
23S	2,270	3,070	41.6	23.2

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : YT2\_A**

RNA Area:	426.9	RNA Integrity Number (RIN):	5.6 (B.02.10)
RNA Concentration:	648 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.9	Result Flagging Label:	RIN: 5.60

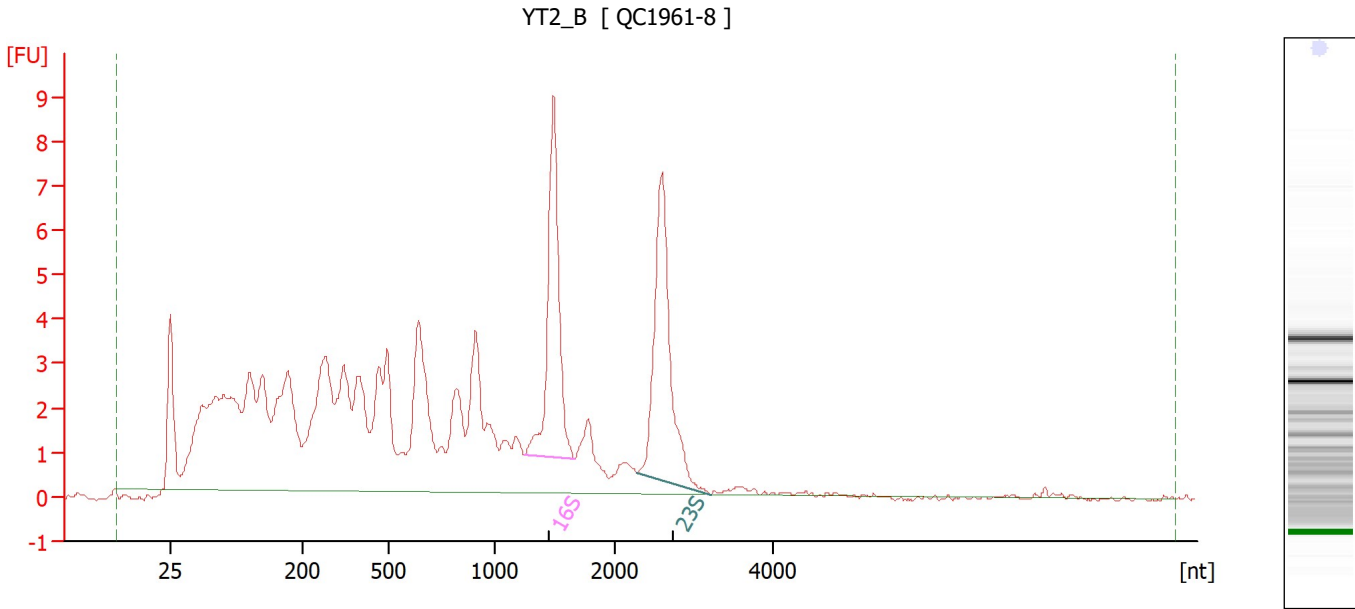
**Fragment table for sample 6 : YT2\_A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,343	1,654	32.9	7.7
23S	2,283	3,023	31.2	7.3

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : YT2\_B**

RNA Area:	138.4	RNA Integrity Number (RIN):	6.2 (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 [23s / 16s]:	1.1	Result Flagging Label:	RIN: 6.20

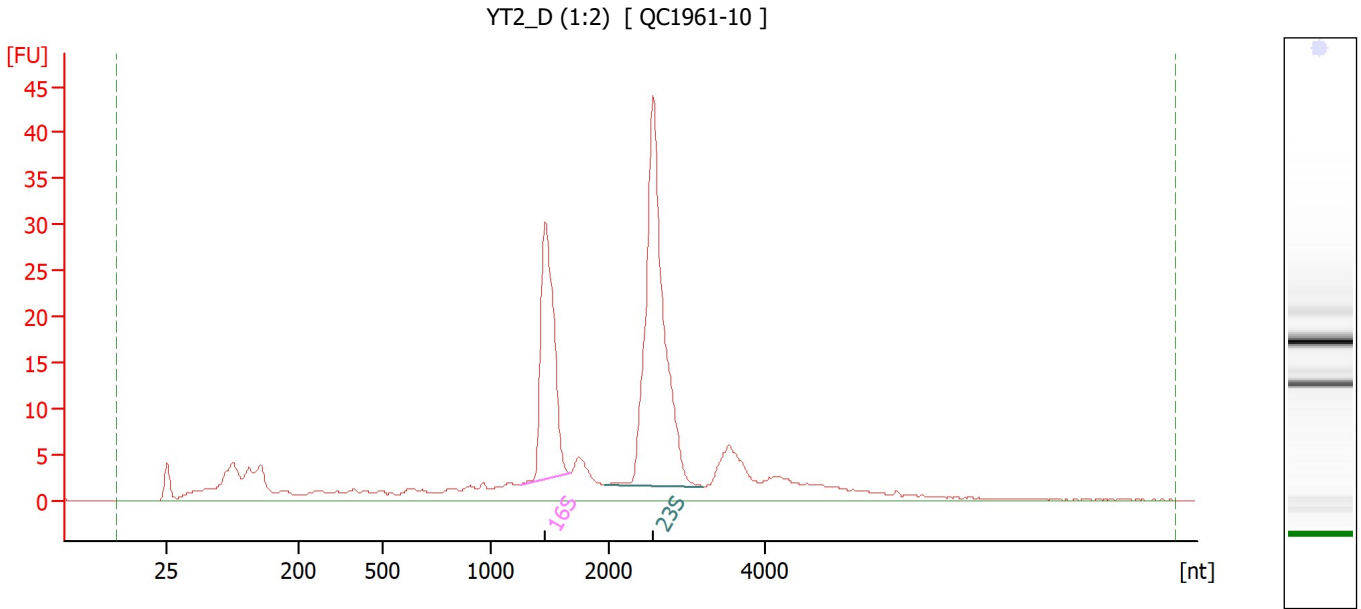
**Fragment table for sample 7 : YT2\_B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,247	1,659	11.8	8.5
23S	2,283	3,204	12.9	9.3

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : YT2\_D (1:2)**

RNA Area:	299.9	RNA Integrity Number (RIN):	9.3 (B.02.10)
RNA Concentration:	455 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.8	Result Flagging Label:	RIN: 9.30

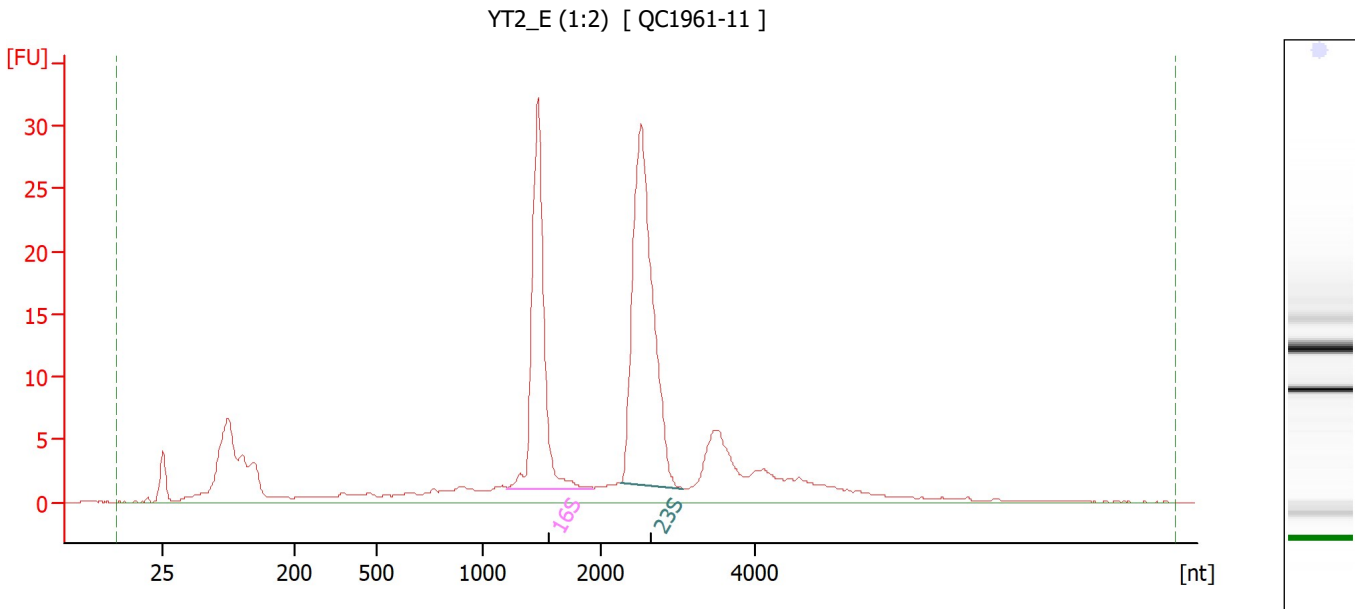
**Fragment table for sample 8 : YT2\_D (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,259	1,673	50.9	17.0
23S	1,971	3,197	90.1	30.0

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : YT2\_E (1:2)**

RNA Area:	252.2	RNA Integrity Number (RIN):	9.3 (B.02.10)
RNA Concentration:	383 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.4	Result Flagging Label:	RIN: 9.30

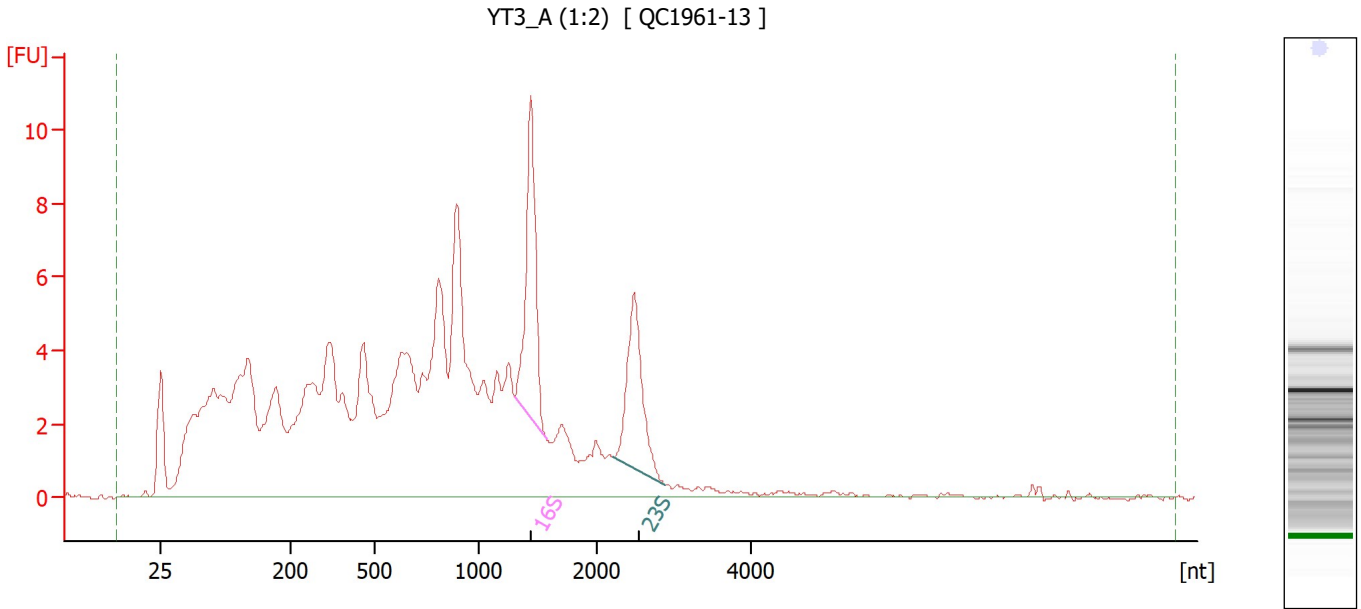
**Fragment table for sample 9 : YT2\_E (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,204	1,941	49.4	19.6
23S	2,255	3,067	70.8	28.1

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : YT3 A (1:2)**

RNA Area:	207.0	RNA Integrity Number (RIN):	5.1 (B.02.10)
RNA Concentration:	314 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.8	Result Flagging Label:	RIN: 5.10

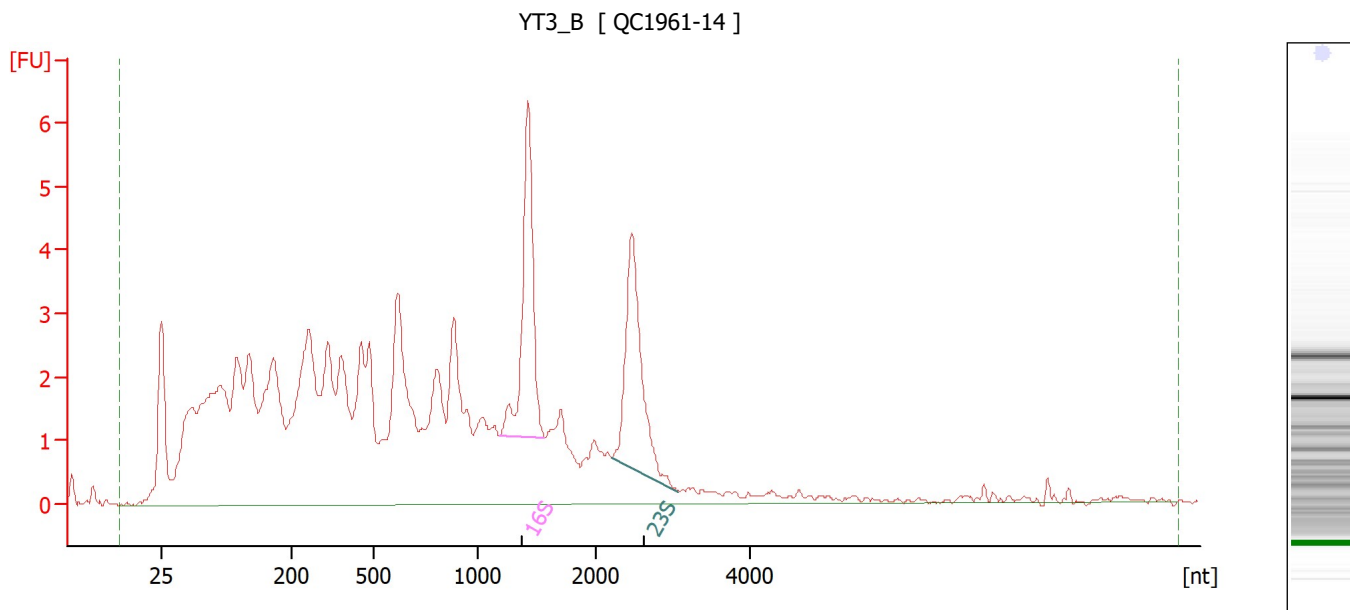
**Fragment table for sample 10 : YT3 A (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,300	1,574	11.4	5.5
23S	2,213	2,891	9.0	4.3

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : YT3\_B**

RNA Area:	127.1	RNA Integrity Number (RIN):	5.7 (B.02.10)
RNA Concentration:	193 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.9	Result Flagging Label:	RIN: 5.70

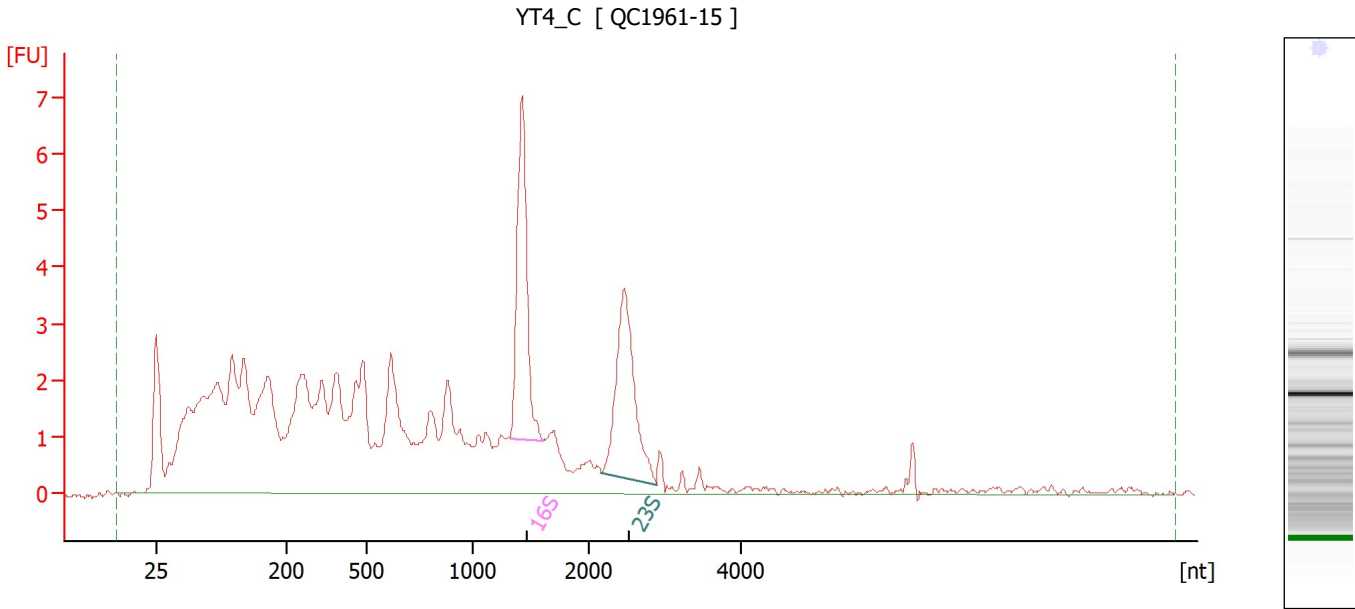
**Fragment table for sample 11 : YT3\_B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,177	1,562	7.9	6.2
23S	2,213	3,074	7.2	5.7

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : YT4\_C**

RNA Area:	106.6	RNA Integrity Number (RIN):	6 (B.02.10)
RNA Concentration:	162 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.9	Result Flagging Label:	RIN:6

**Fragment table for sample 12 : YT4\_C**

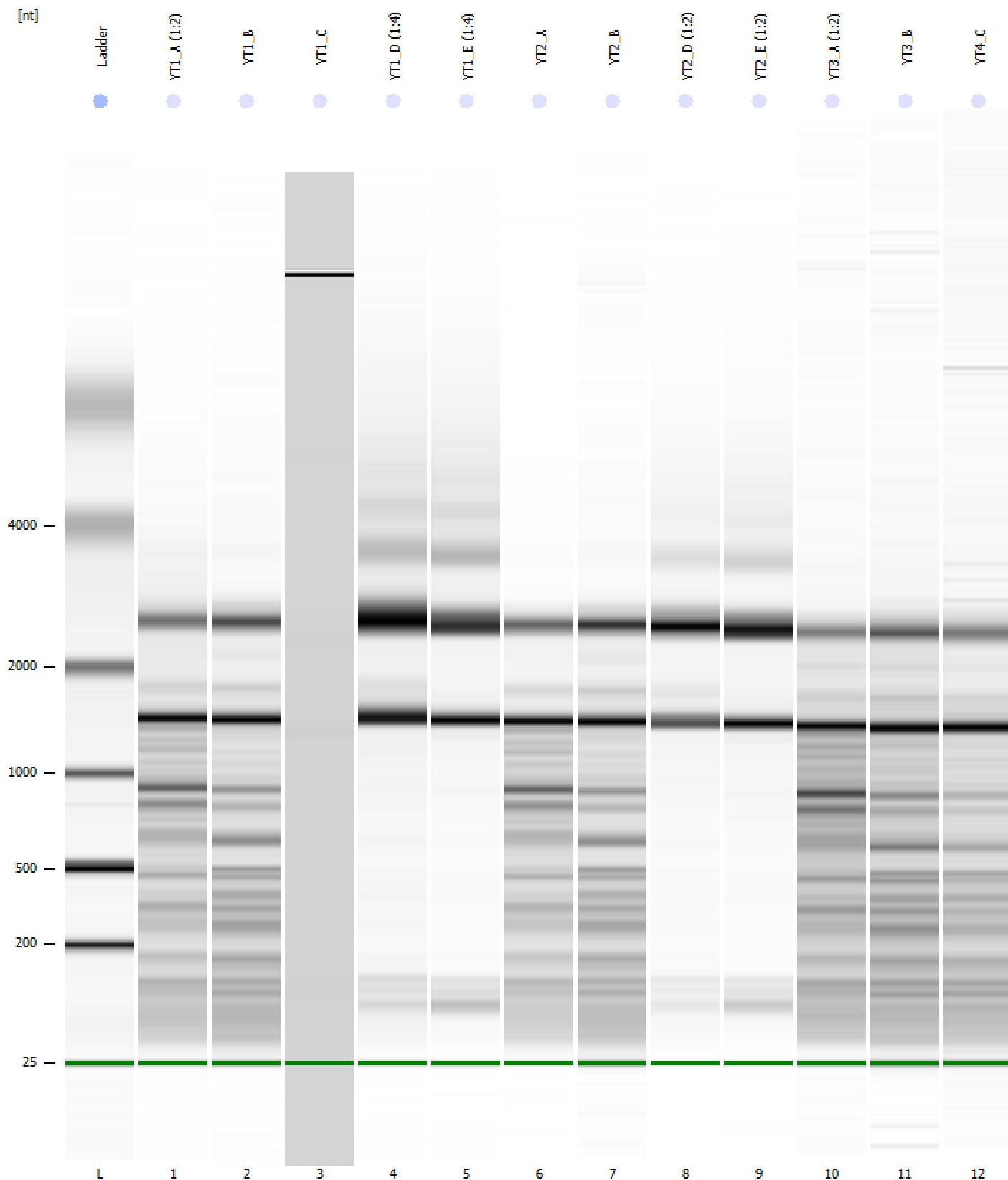
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,329	1,605	8.1	7.6
23S	2,170	2,896	7.5	7.0



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
Modified: 9/11/2024 3:05:18 PM

Gel Image



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-09-11\_001.xad

Created: 9/11/2024 2:27:12 PM  
 Modified: 9/11/2024 3:05:18 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		9/11/2024 2:51:06 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\2024-09-11\Bioanalyzer1_Prokaryote Total RNA Nano_DE34903152_2024-09-11_001.xad)		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/11/2024 2:27:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB