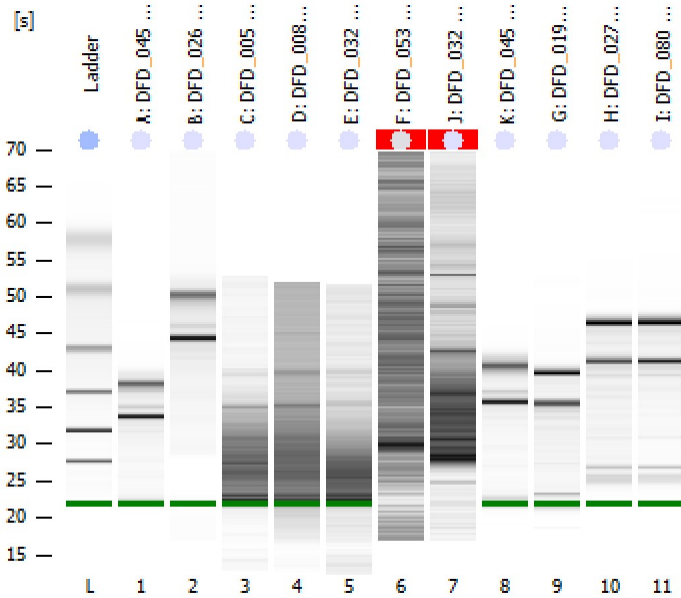


Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

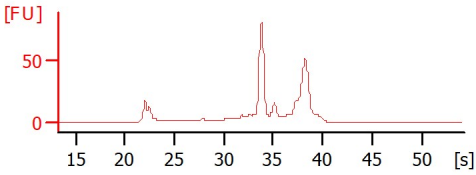
Assay Information:

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)  
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

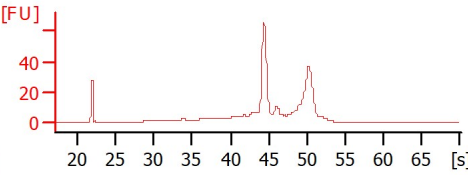
Chip Information:

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

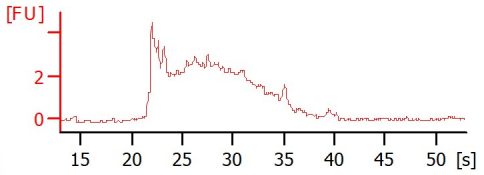
**A: DFD\_045 (soil C)**  
 RIN: 7



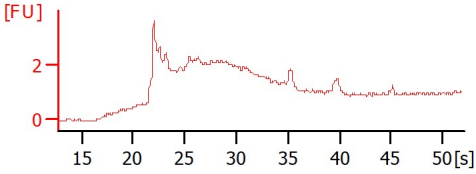
**B: DFD\_026 (soil T)**  
 RIN: 2.60



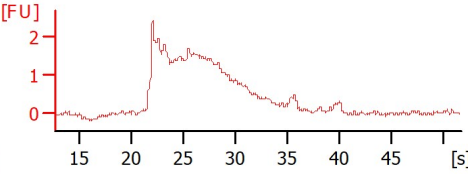
**C: DFD\_005 (NM C)**  
 RIN: 2.30



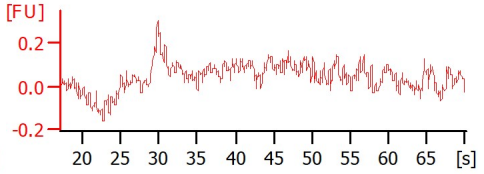
**D: DFD\_008 (NM T)**  
 RIN: 2.70



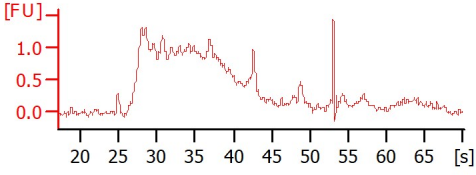
**E: DFD\_032 (ECMR C)**  
 RIN: 2.40



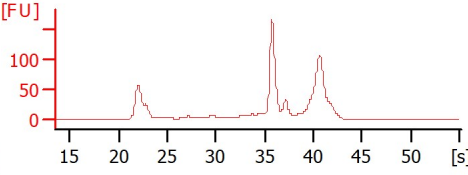
**F: DFD\_053 (ECMR T)**  
 RIN N/A



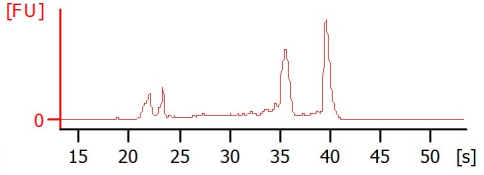
**J: DFD\_032 (soil RNA)**  
 RIN: 2.60



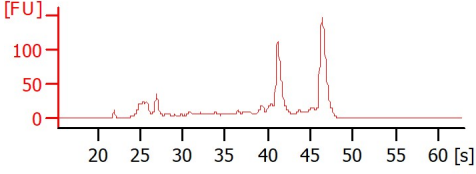
**K: DFD\_045 (soil RNA)**  
 RIN: 7.10



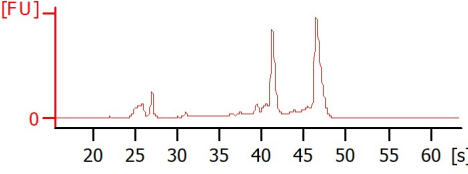
**G: DFD\_019 (S+T C)**  
 RIN: 5.90



**H: DFD\_027 (S+T T)**  
 RIN: 7.80



**I: DFD\_080 (NM C)**  
 RIN: 8.50



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
A: DFD_045 (soil C)		✓	RIN:7	
B: DFD_026 (soil T)		✓	RIN: 2.60	
C: DFD_005 (NM C)		✓	RIN: 2.30	
D: DFD_008 (NM T)		✓	RIN: 2.70	
E: DFD_032 (ECMR C)		✓	RIN: 2.40	
F: DFD_053 (ECMR T)		✓	RIN N/A	
J: DFD_032 (soil RNA)		✓	RIN: 2.60	
K: DFD_045 (soil RNA)		✓	RIN: 7.10	
G: DFD_019 (S+T C)		✓	RIN: 5.90	
H: DFD_027 (S+T T)		✓	RIN: 7.80	
I: DFD_080 (NM C)		✓	RIN: 8.50	
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\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 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

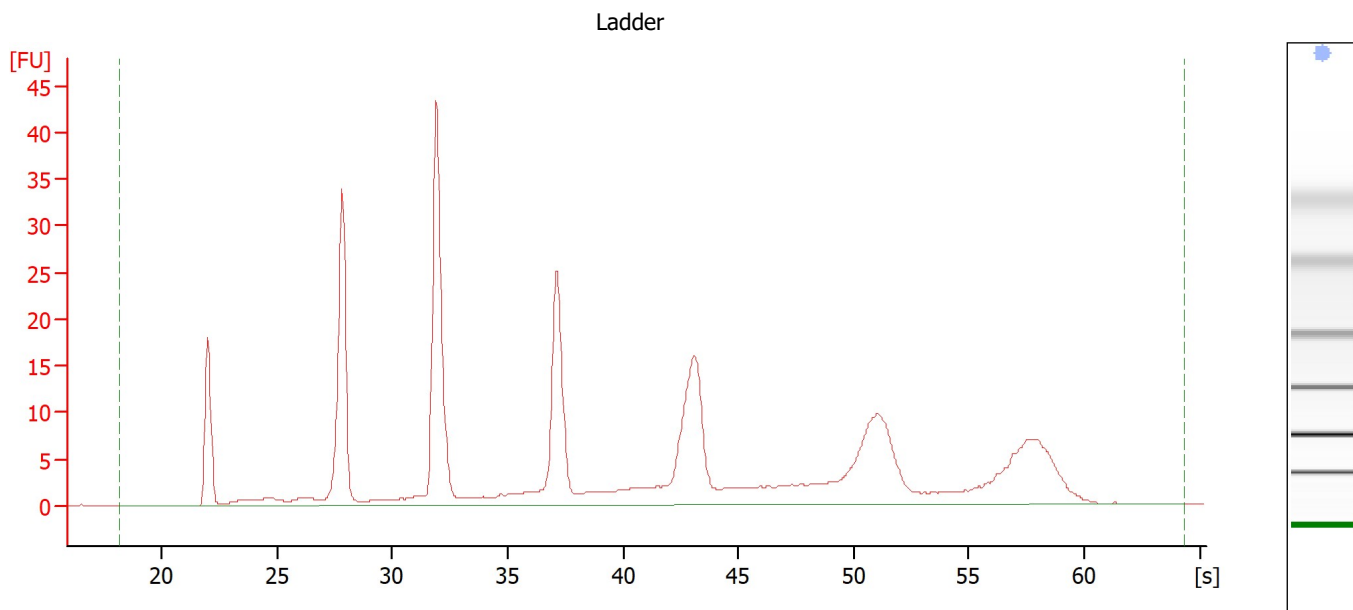
**Ladder**

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\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary**



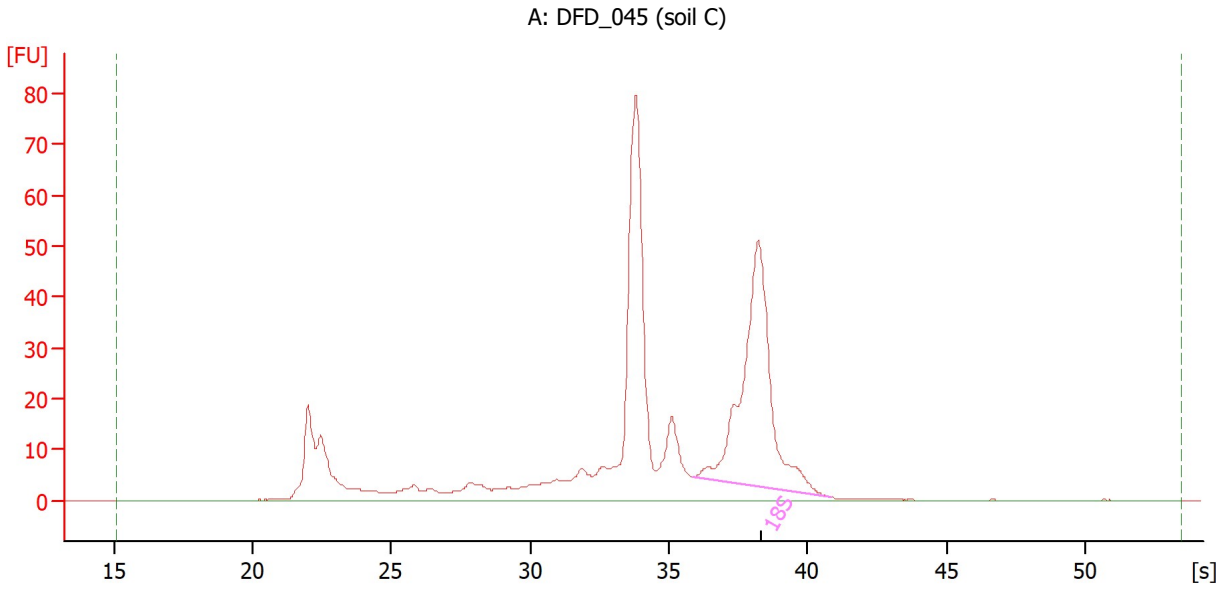
**Overall Results for Ladder**

RNA Area:	323.3	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A: DFD\_045 (soil C)**

RNA Area:	493.1	RNA Integrity Number (RIN):	7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,525 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN:7

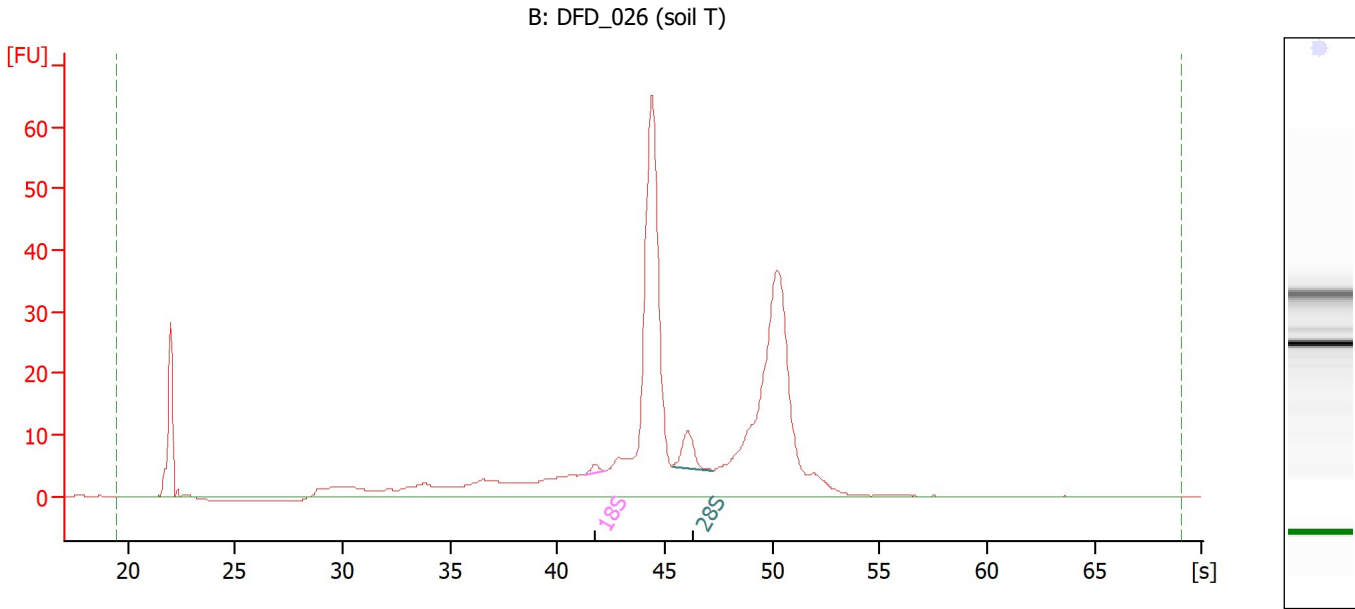
**Fragment table for sample 1 : A: DFD\_045 (soil C)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	881	1,623	146.6	29.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B: DFD\_026 (soil T)**

RNA Area:	369.3	RNA Integrity Number (RIN):	2.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,142 pg/μl		
rRNA Ratio [28s / 18s]:	6.3	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 2.60

**Fragment table for sample 2 : B: DFD\_026 (soil T)**

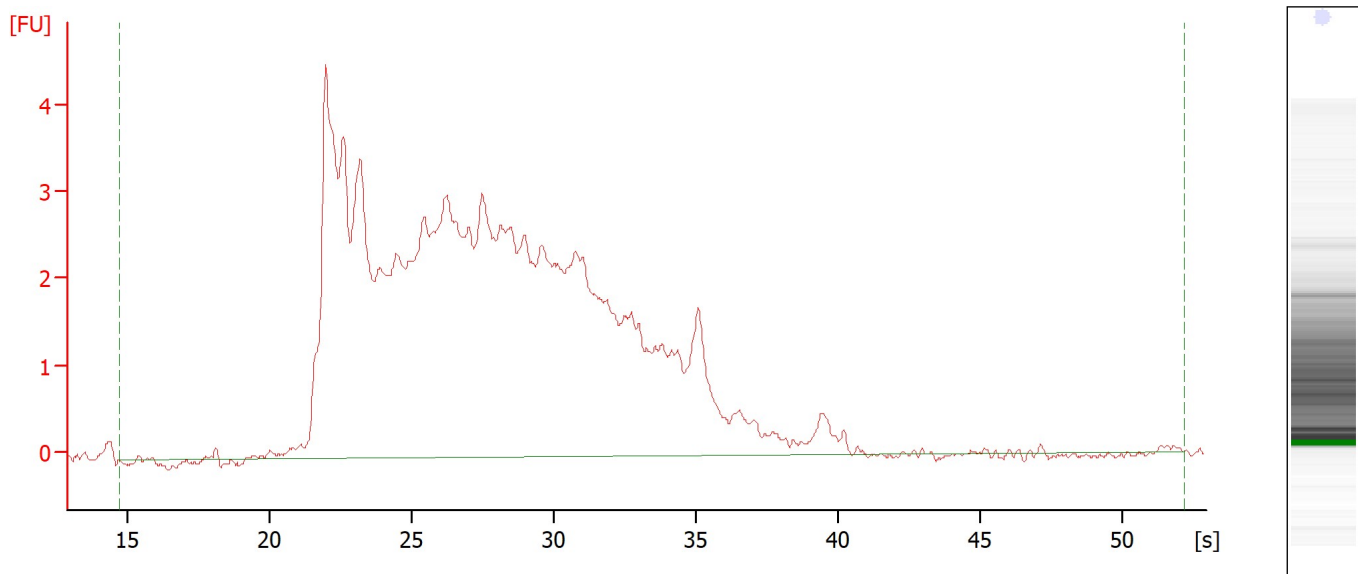
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	1,846	1.3	0.3
28S	2,572	3,049	8.0	2.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**

C: DFD\_005 (NM C)



**Overall Results for sample 3 : C: DFD\_005 (NM C)**

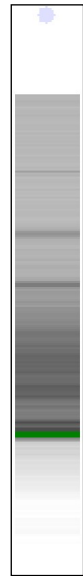
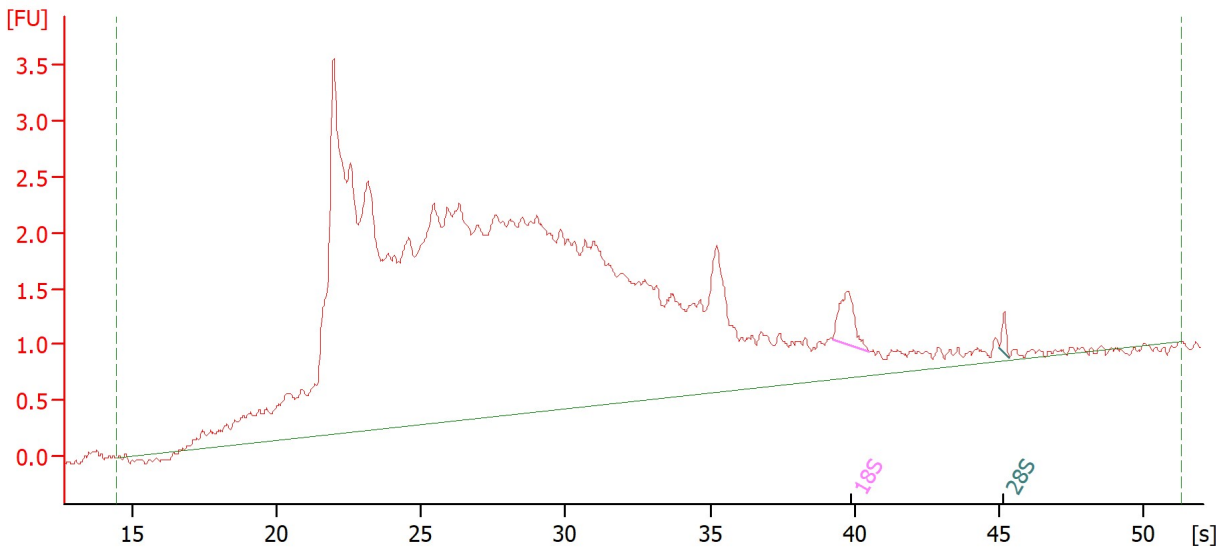
RNA Area:	106.7	RNA Integrity Number (RIN):	2.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	330 µg/µl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**

D: DFD\_008 (NM T)



**Overall Results for sample 4 : D: DFD\_008 (NM T)**

RNA Area:	83.2	RNA Integrity Number (RIN):	2.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	257 pg/μl		
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 2.70

**Fragment table for sample 4 : D: DFD\_008 (NM T)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,358	1,564	0.7	0.9
28S	2,485	2,578	0.1	0.2

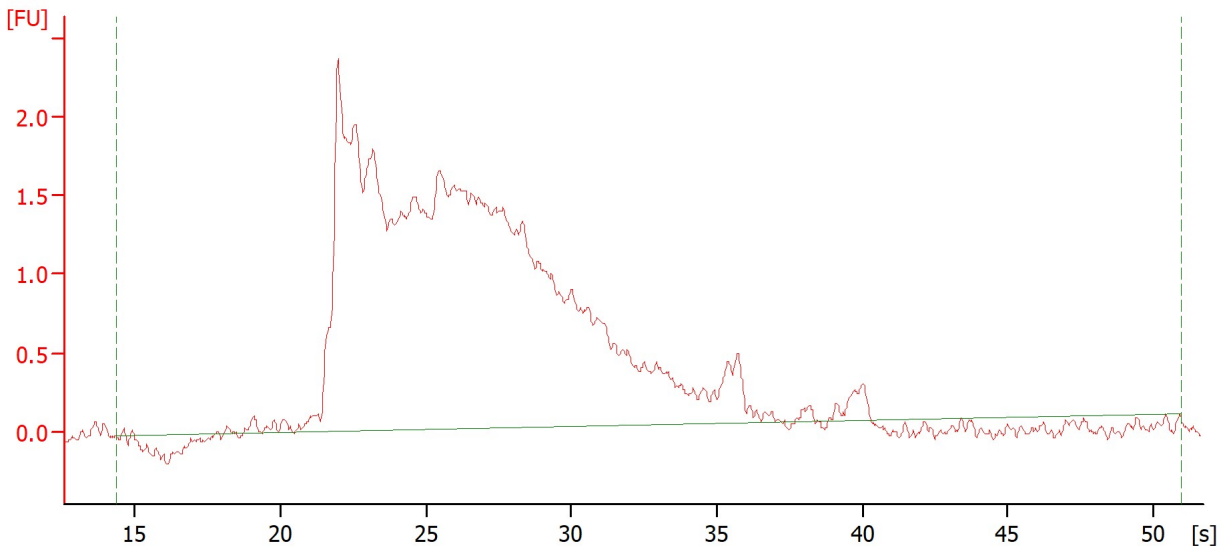


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad


Created: 11/9/2023 2:01:41 PM  
Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**

E: DFD\_032 (ECMR C)



**Overall Results for sample 5 : E: DFD\_032 (ECMR C)**

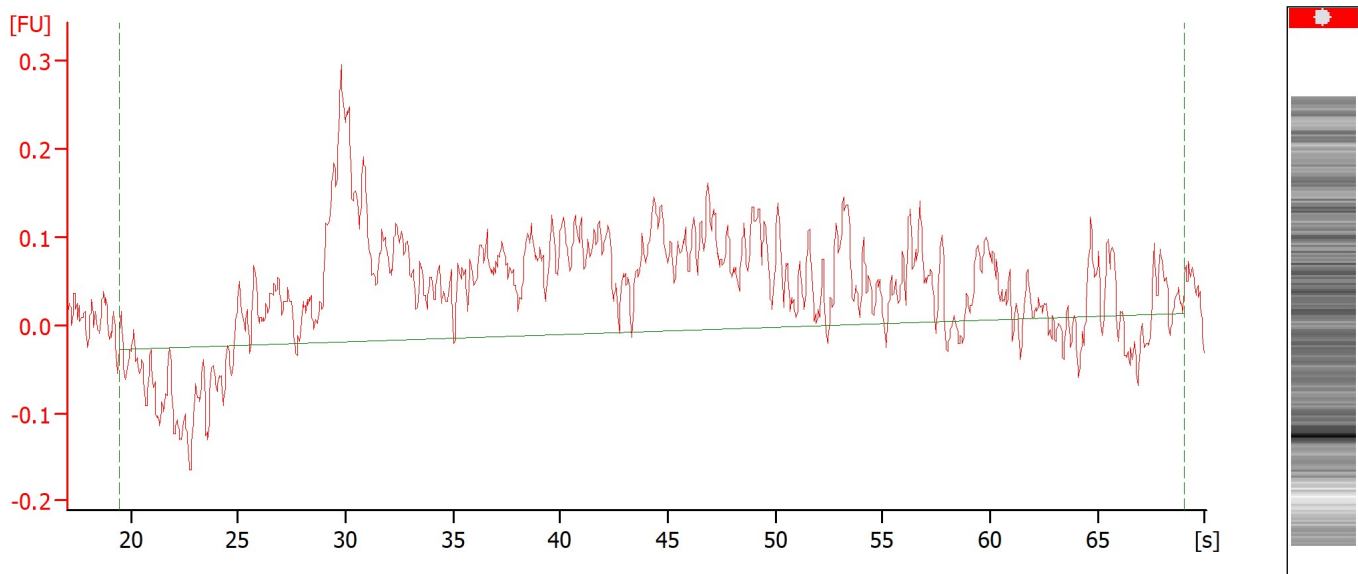
RNA Area:	51.0	RNA Integrity Number (RIN):	2.4 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	158 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**

F: DFD\_053 (ECMR T)



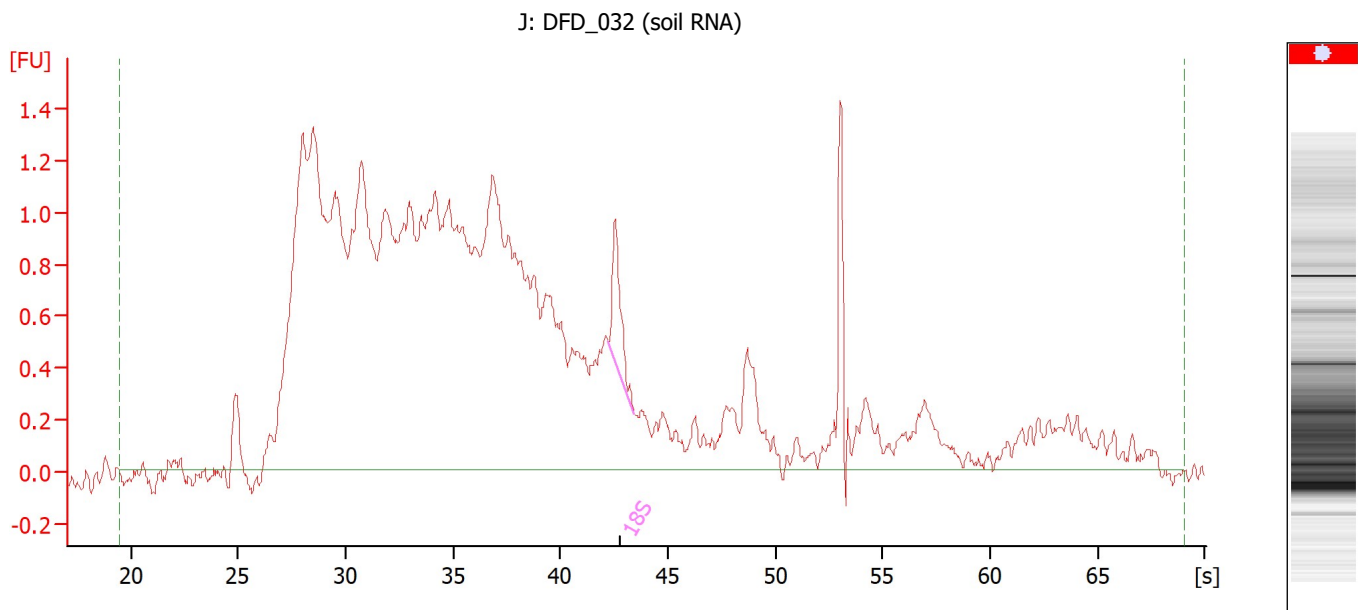
**Overall Results for sample 6 : F: DFD\_053 (ECMR T)**

RNA Concentration:	22 pg/ $\mu$ l	Result Flagging Color:	<input type="checkbox"/>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : J: DFD\_032 (soil RNA)**

RNA Area:	46.9	RNA Integrity Number (RIN):	2.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	145 µg/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: 2.60

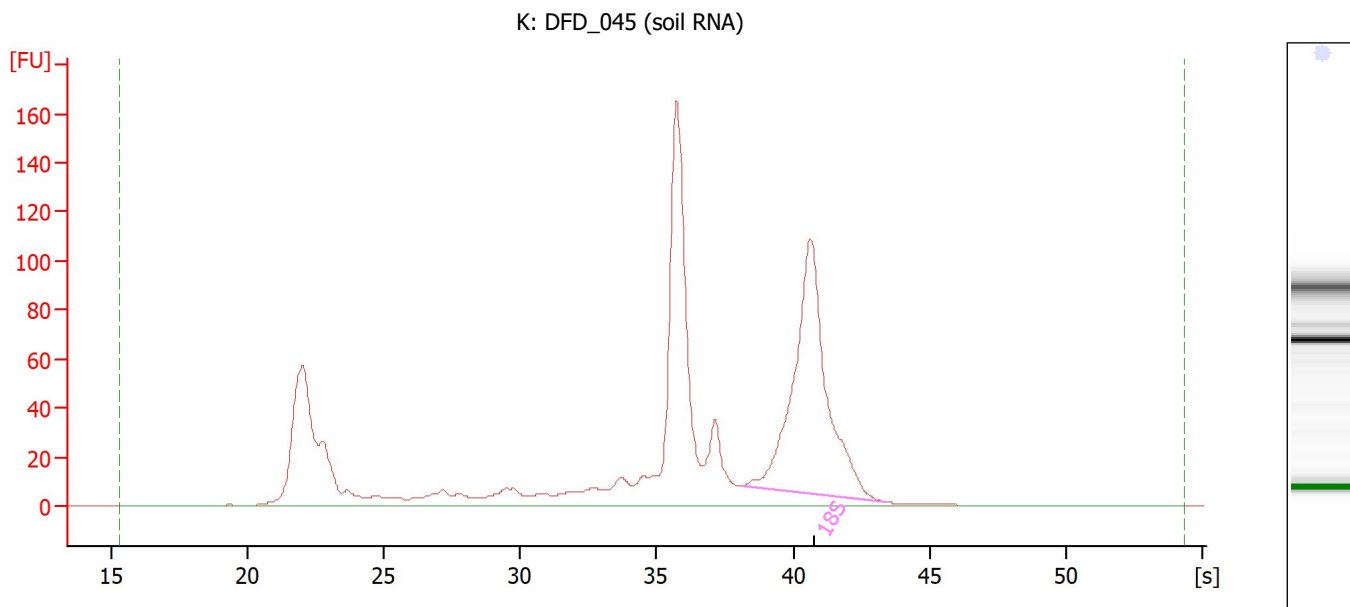
**Fragment table for sample 7 : J: DFD\_032 (soil RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,854	2,095	0.6	1.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : K: DFD\_045 (soil RNA)**

RNA Area:	1,009.7	RNA Integrity Number (RIN):	7.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,123 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.10

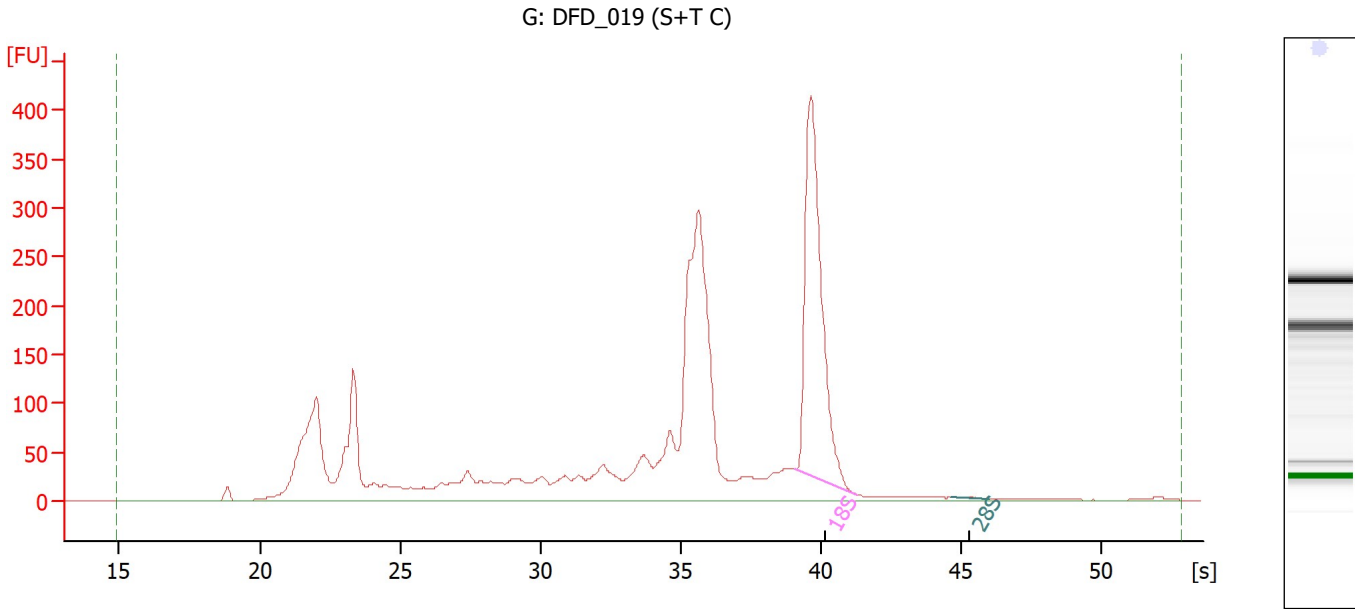
**Fragment table for sample 8 : K: DFD\_045 (soil RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,166	2,085	352.7	34.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : G: DFD\_019 (S+T C)**

RNA Area:	2,871.8	RNA Integrity Number (RIN):	5.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	8,883 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 5.90

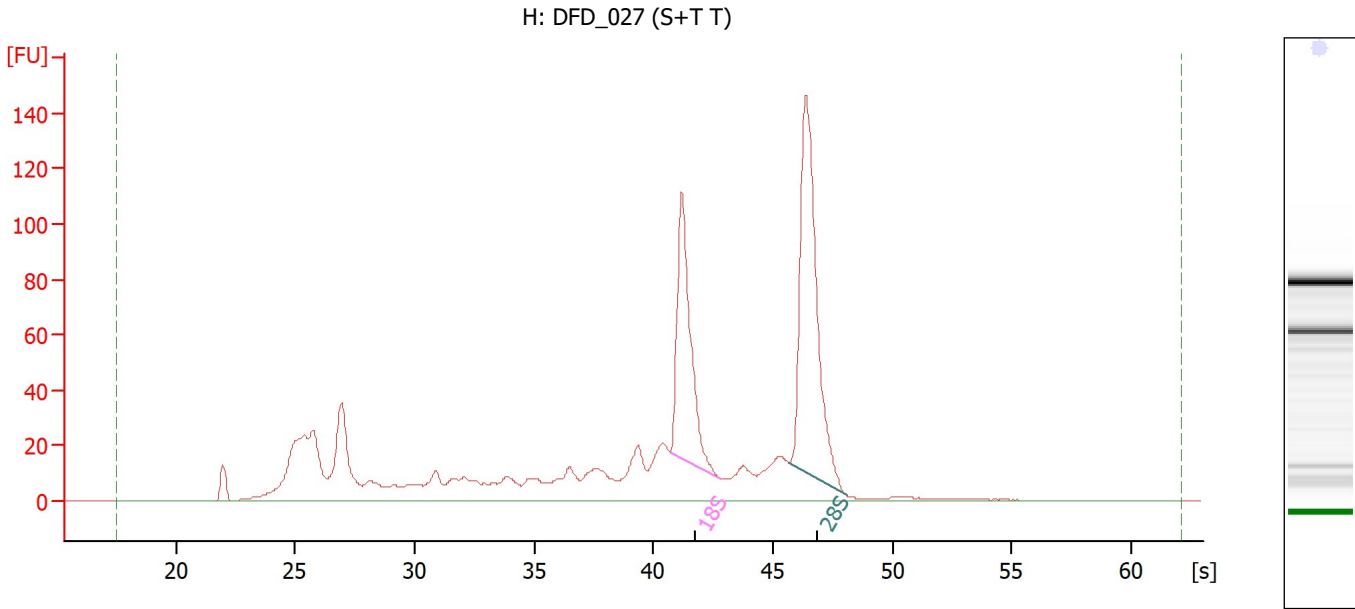
**Fragment table for sample 9 : G: DFD\_019 (S+T C)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,322	1,694	653.5	22.8
28S	2,397	2,733	0.9	0.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : H: DFD\_027 (S+T T)**

RNA Area:	1,114.7	RNA Integrity Number (RIN):	7.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,448 pg/μl		
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.80

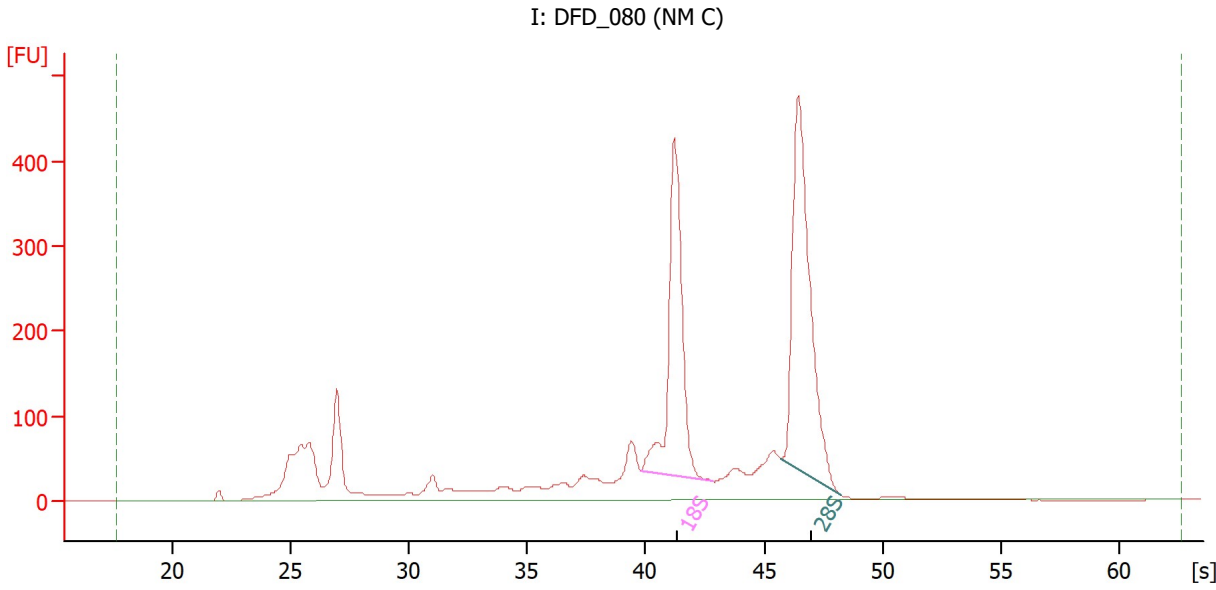
**Fragment table for sample 10 : H: DFD\_027 (S+T T)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,960	148.4	13.3
28S	2,662	3,261	233.1	20.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
 Modified: 11/9/2023 2:34:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : I: DFD\_080 (NM C)**

RNA Area:	3,251.3	RNA Integrity Number (RIN):	8.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	10,057 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: 8.50

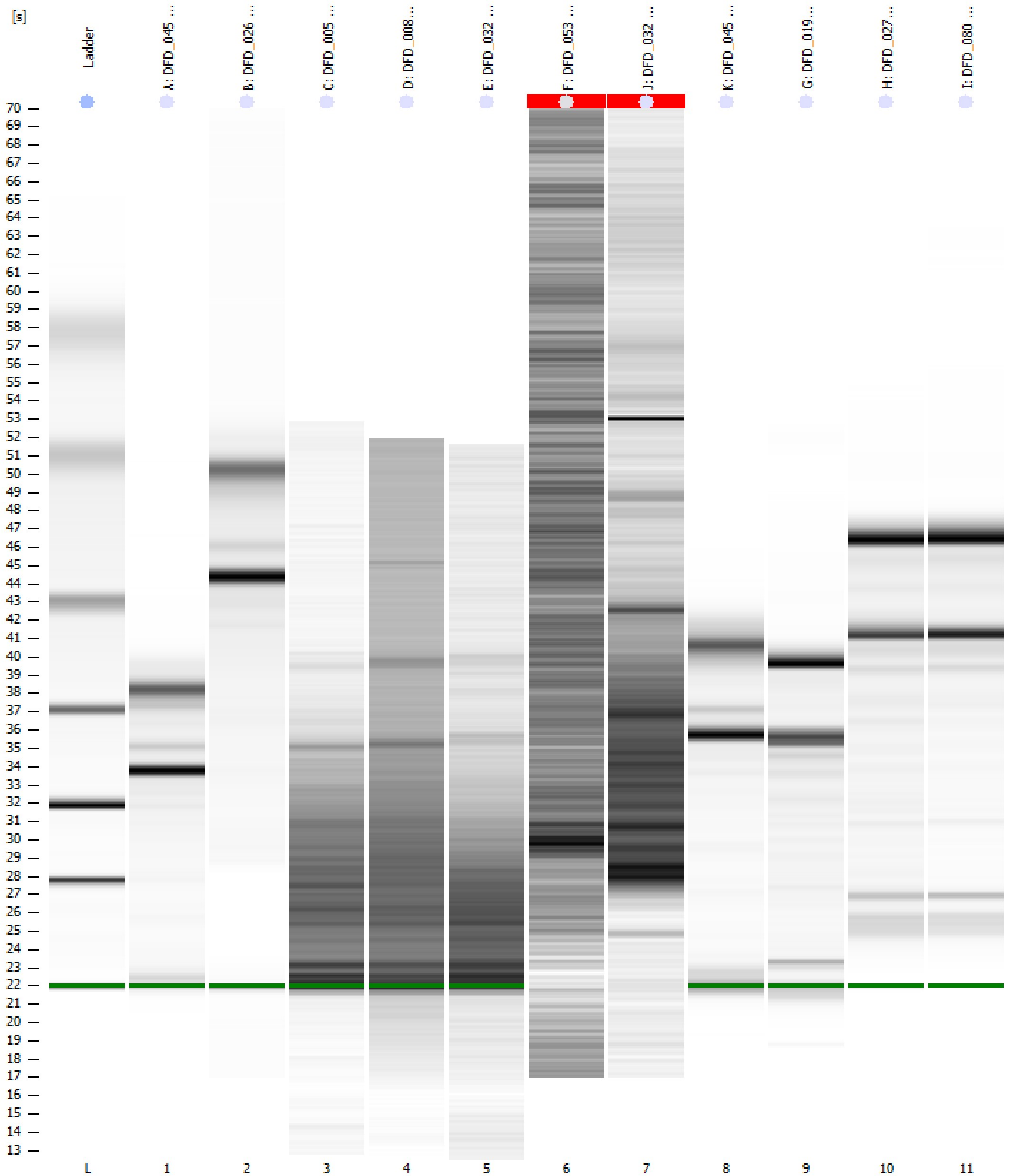
**Fragment table for sample 11 : I: DFD\_080 (NM C)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,449	1,966	624.5	19.2
28S	2,666	3,303	801.7	24.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
Modified: 11/9/2023 2:34:35 PM

Gel Image



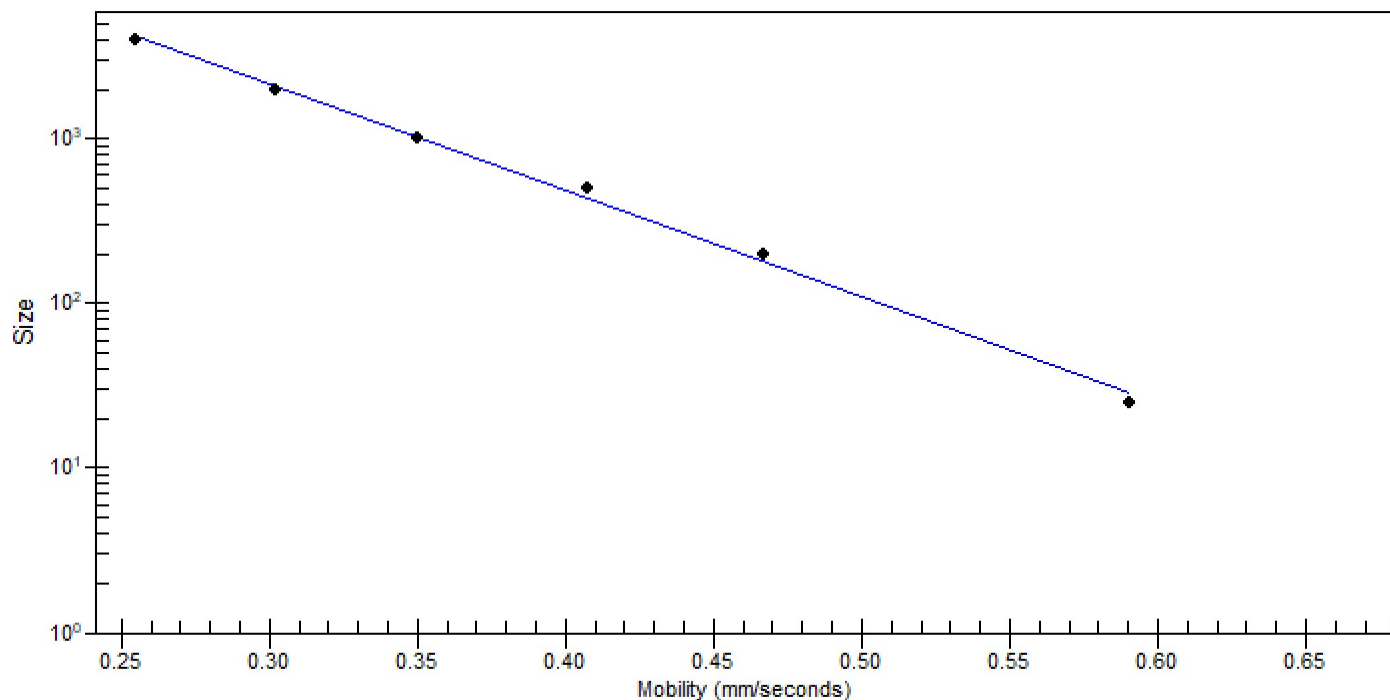


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad

Created: 11/9/2023 2:01:41 PM  
Modified: 11/9/2023 2:34:35 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Pico Created: 11/9/2023 2:01:41 PM  
 Data Path: C:\...zer1\_Eukaryote Total RNA Pico\_DE34903152\_2023-11-09\_001.xad Modified: 11/9/2023 2:34:35 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		11/9/2023 2:24:38 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-11-09\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2023-11-09_001.xad)		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/9/2023 2:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB