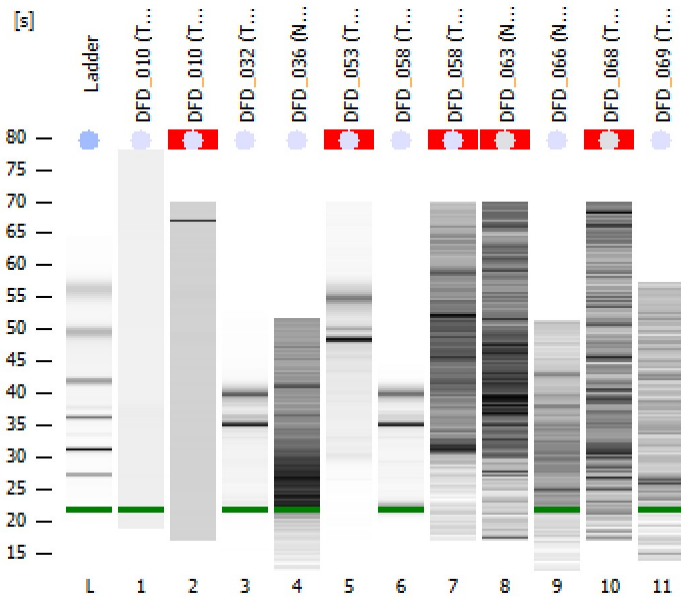


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

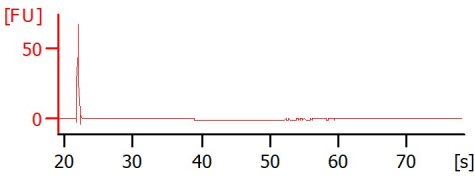
Assay Information:

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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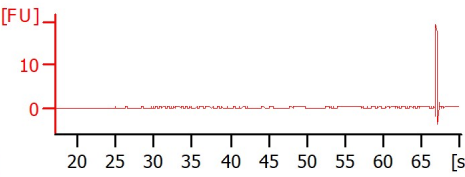
Chip Information:

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

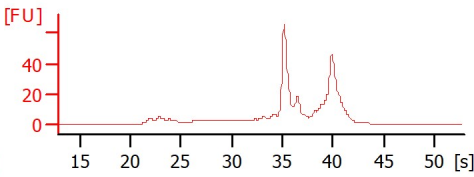
DFD_010 (TC03 soil)
RIN: 2.10



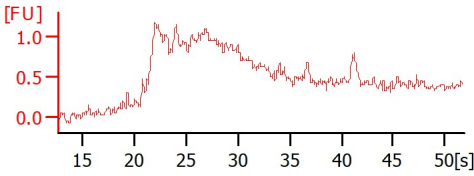
DFD_010 (TC03)
RIN: 1.10



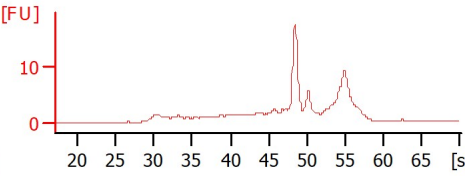
DFD_032 (TC08 soil)
RIN: 6.40



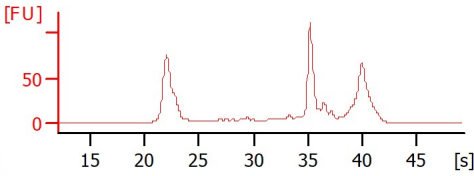
DFD_036 (NM12)
RIN: 2.30



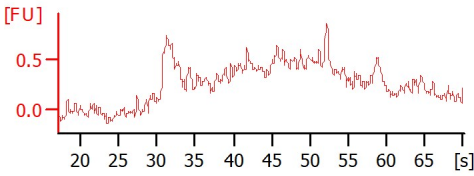
DFD_053 (TC10 soil)
RIN: 7.80



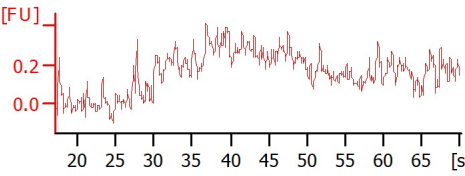
DFD_058 (TC02 soil)
RIN: 7.20



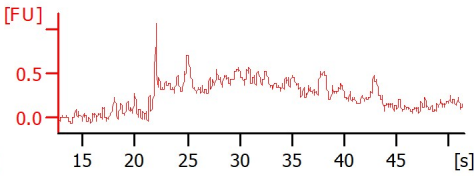
DFD_058 (TC02)
RIN: 2.70



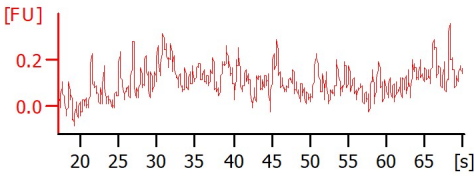
DFD_063 (NM33)
RIN N/A



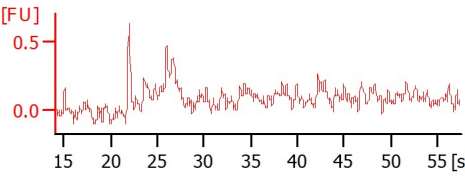
DFD_066 (NM36)
RIN: 2.30



DFD_068 (TC06 soil)
RIN N/A



DFD_069 (TC07 soil)
RIN: 2.40



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
DFD_010 (TC03 soil)		✓	RIN: 2.10	
DFD_010 (TC03)		✓	RIN: 1.10	
DFD_032 (TC08 soil)		✓	RIN: 6.40	
DFD_036 (NM12)		✓	RIN: 2.30	
DFD_053 (TC10 soil)		✓	RIN: 7.80	
DFD_058 (TC02 soil)		✓	RIN: 7.20	
DFD_058 (TC02)		✓	RIN: 2.70	
DFD_063 (NM33)		✓	RIN N/A	
DFD_066 (NM36)		✓	RIN: 2.30	
DFD_068 (TC06 soil)		✓	RIN N/A	
DFD_069 (TC07 soil)		✓	RIN: 2.40	
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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 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

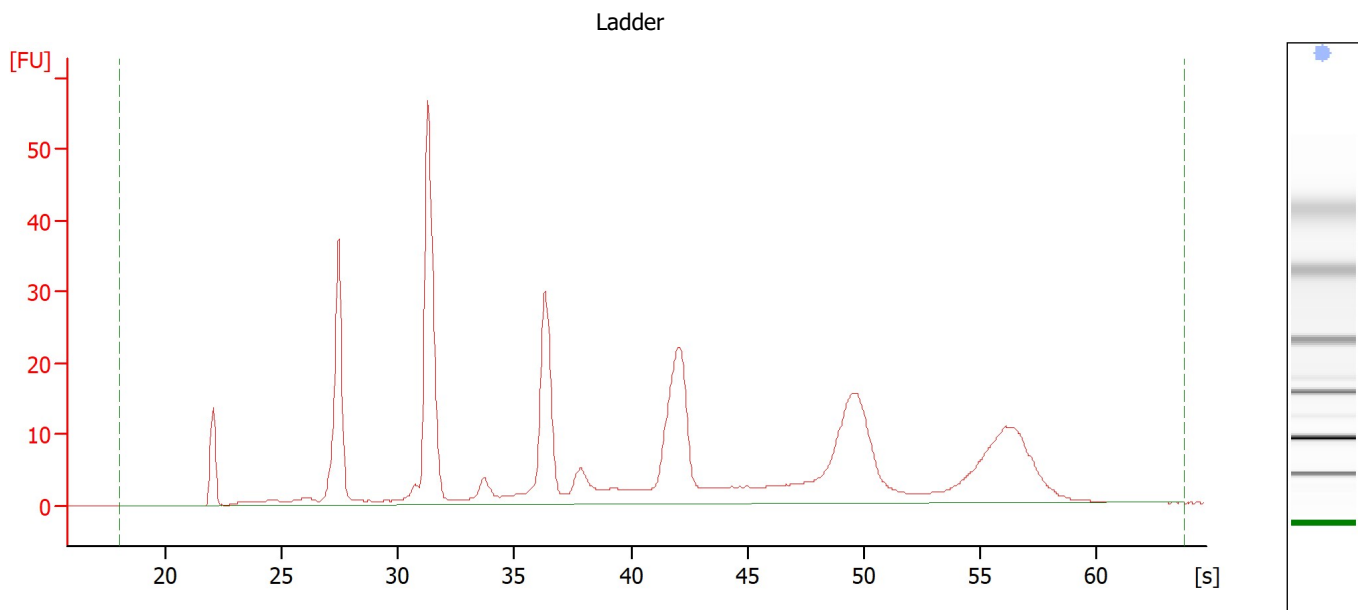
Ladder

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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary



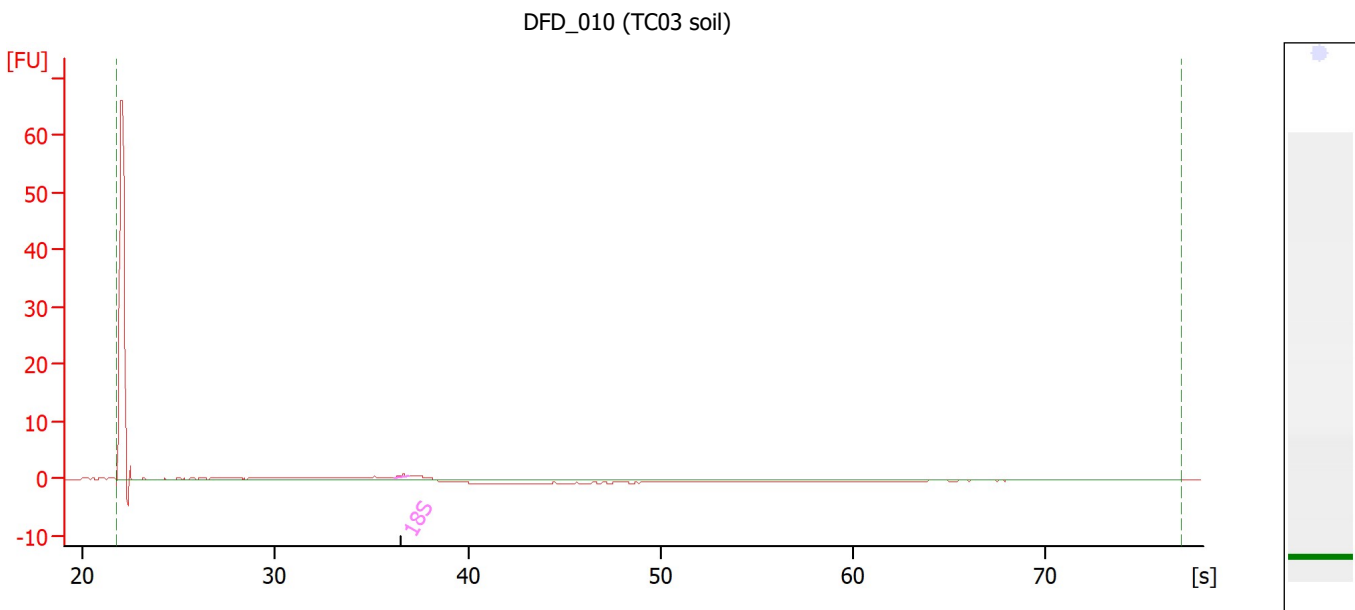
Overall Results for Ladder

RNA Area:	424.5	Result Flagging Color:	
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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DFD_010 (TC03 soil)

RNA Area:	19.0	RNA Integrity Number (RIN):	2.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	45 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.10

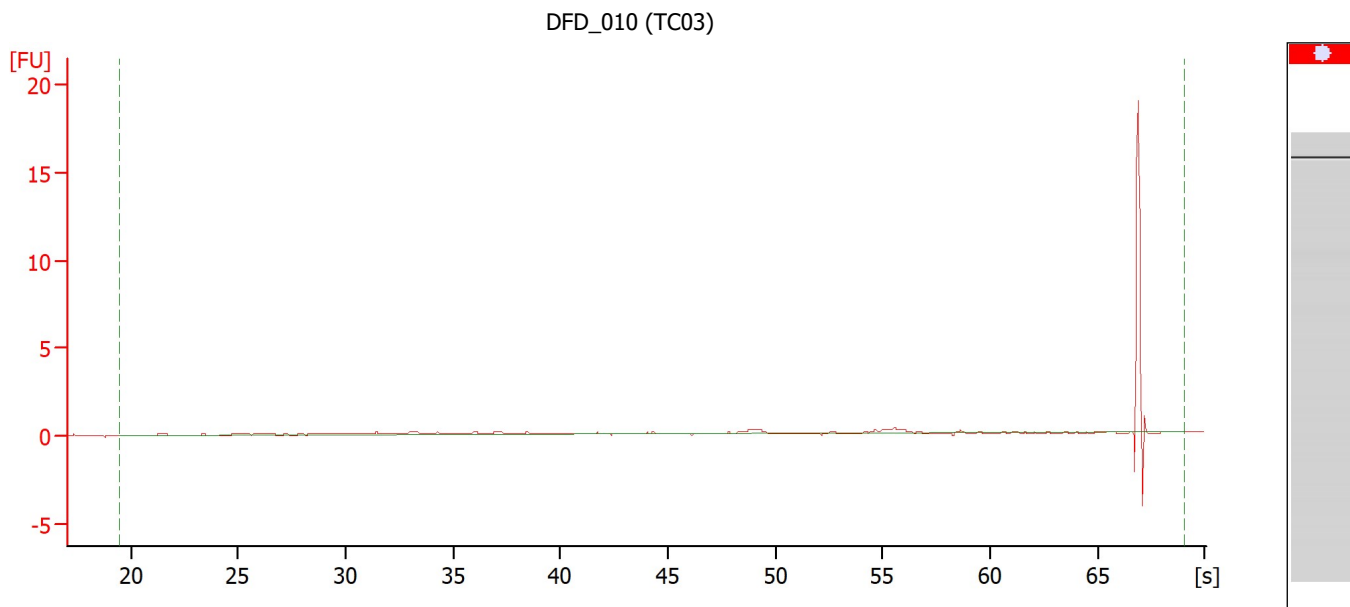
Fragment table for sample 1 : DFD_010 (TC03 soil)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	991	1,101	0.3	1.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



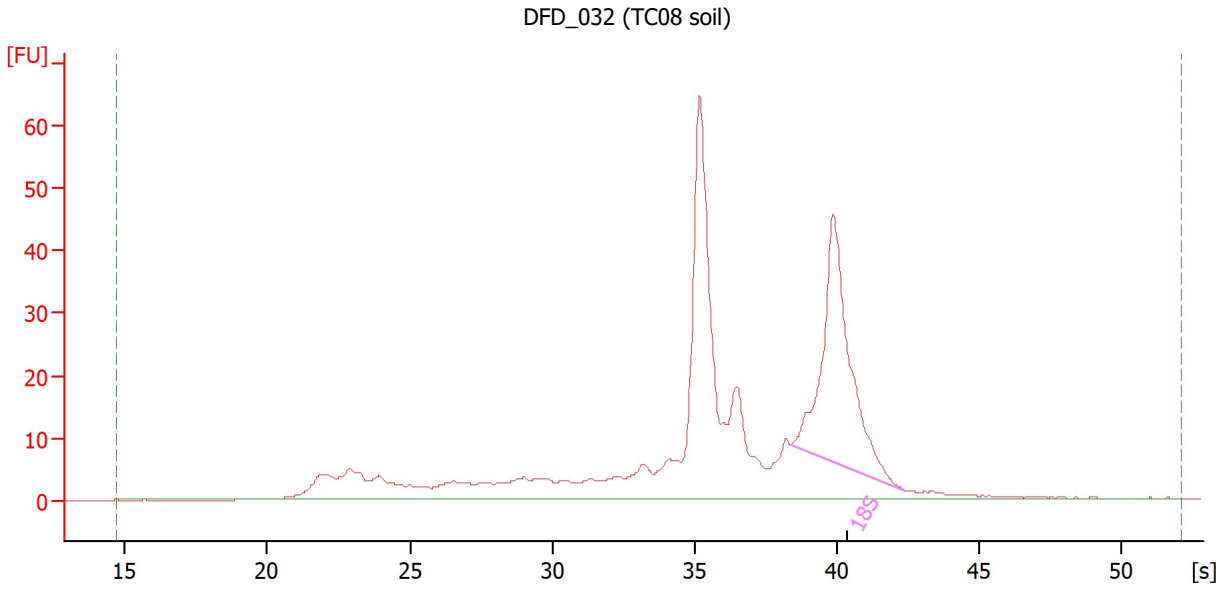
Overall Results for sample 2 : DFD_010 (TC03)

RNA Area:	11.8	RNA Integrity Number (RIN):	1.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	28 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DFD_032 (TC08 soil)

RNA Area:	489.0	RNA Integrity Number (RIN):	6.4 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,152 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.40

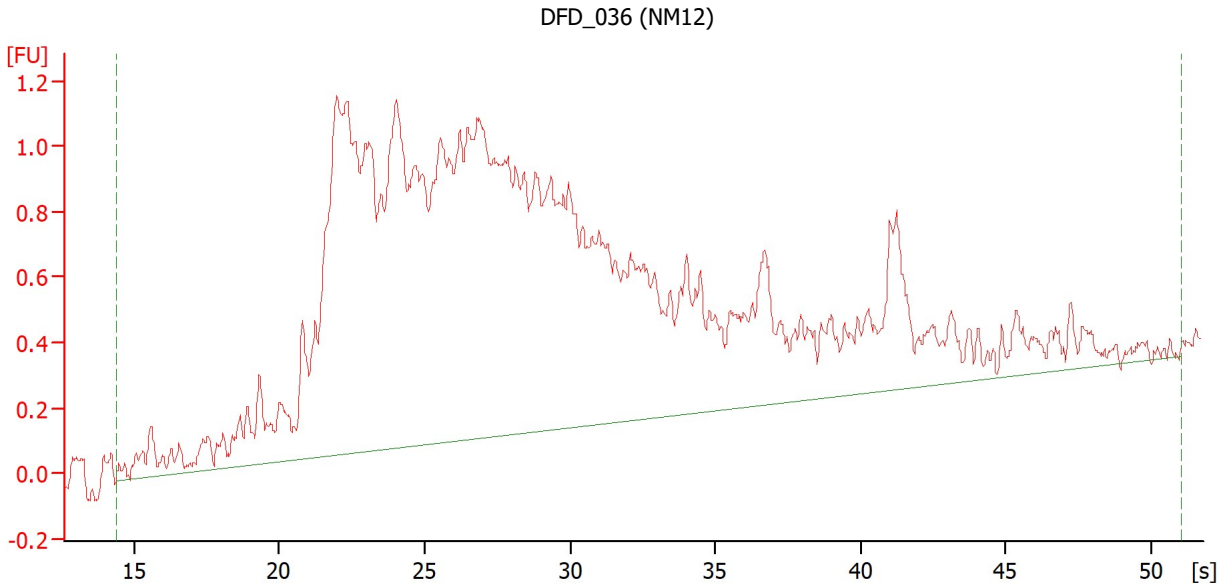
Fragment table for sample 3 : DFD_032 (TC08 soil)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,357	2,094	108.4	22.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



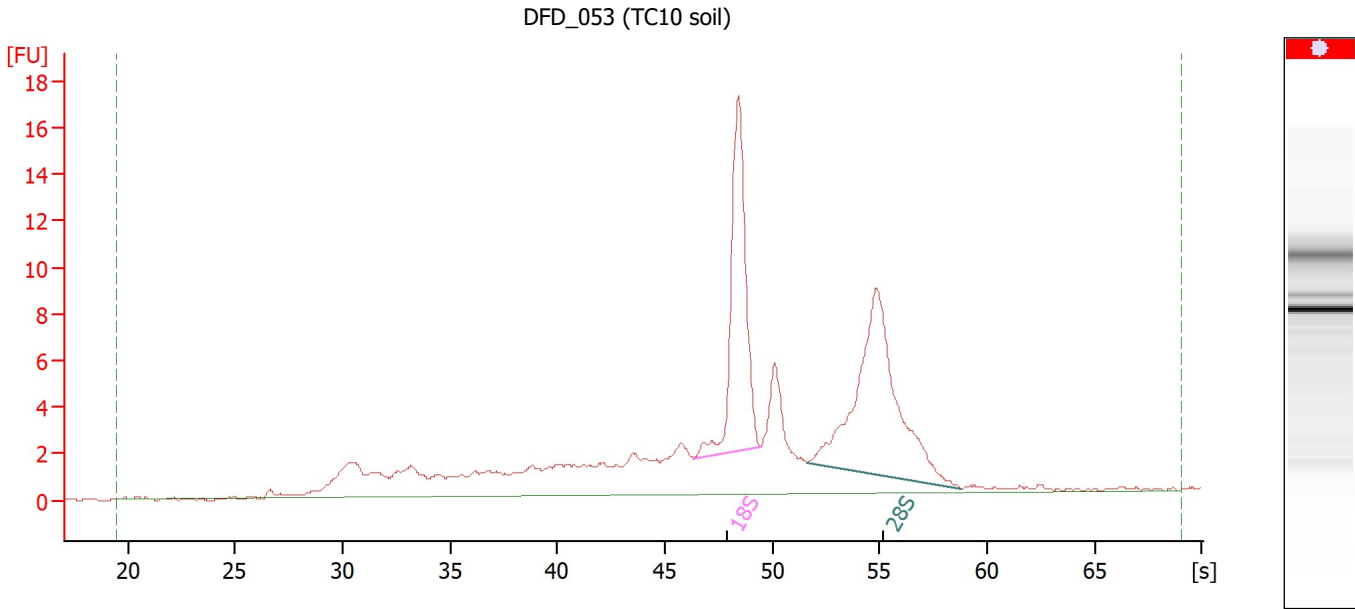
Overall Results for sample 4 : DFD_036 (NM12)

RNA Area:	33.4	RNA Integrity Number (RIN):	2.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	79 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DFD_053 (TC10 soil)

RNA Area:	145.2	RNA Integrity Number (RIN):	7.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	342 pg/μl		
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.80

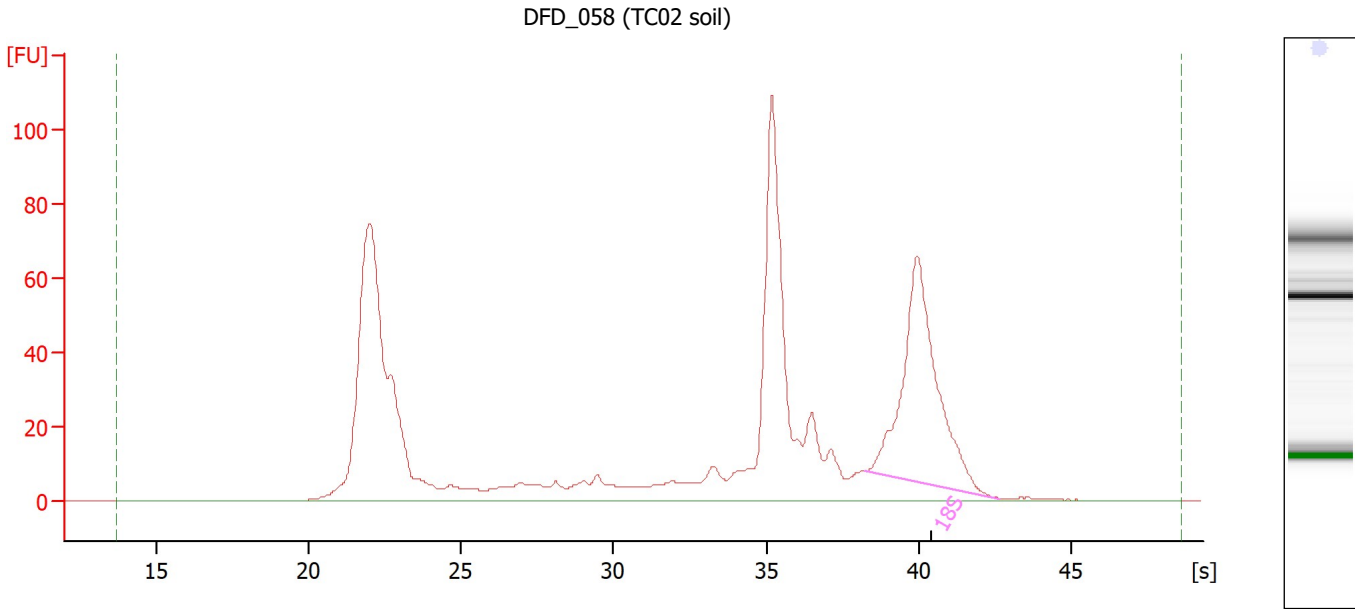
Fragment table for sample 5 : DFD_053 (TC10 soil)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,125	3,962	24.2	16.7
28S	4,532	6,444	31.2	21.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : DFD_058 (TC02 soil)

RNA Area:	679.5	RNA Integrity Number (RIN):	7.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,601 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.20

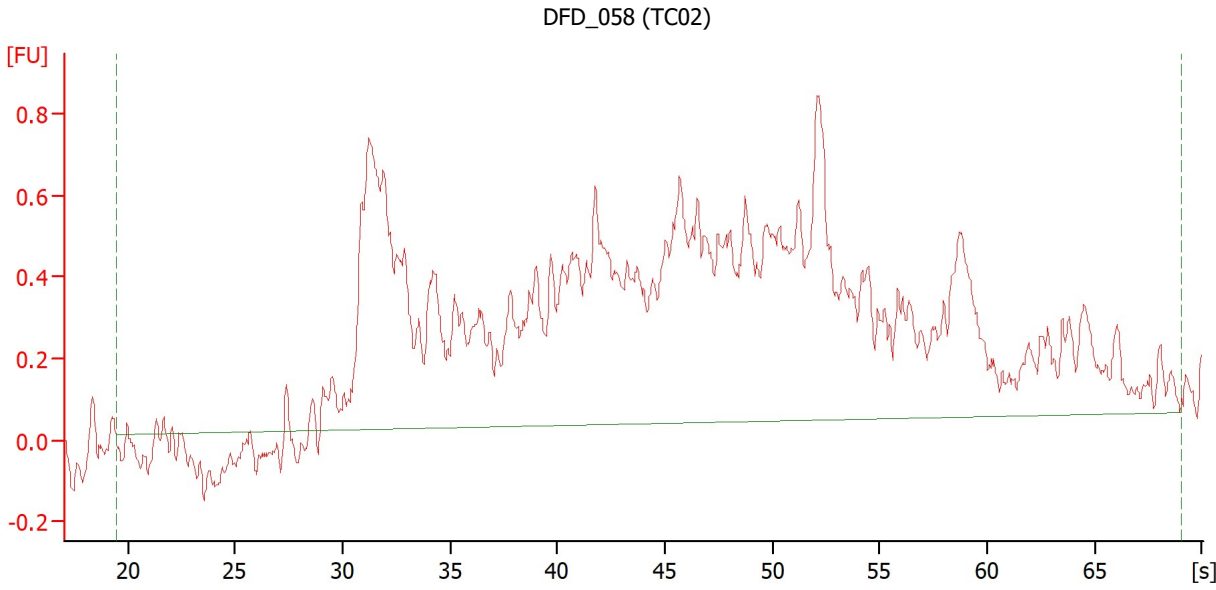
Fragment table for sample 6 : DFD_058 (TC02 soil)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,337	2,141	192.9	28.4


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



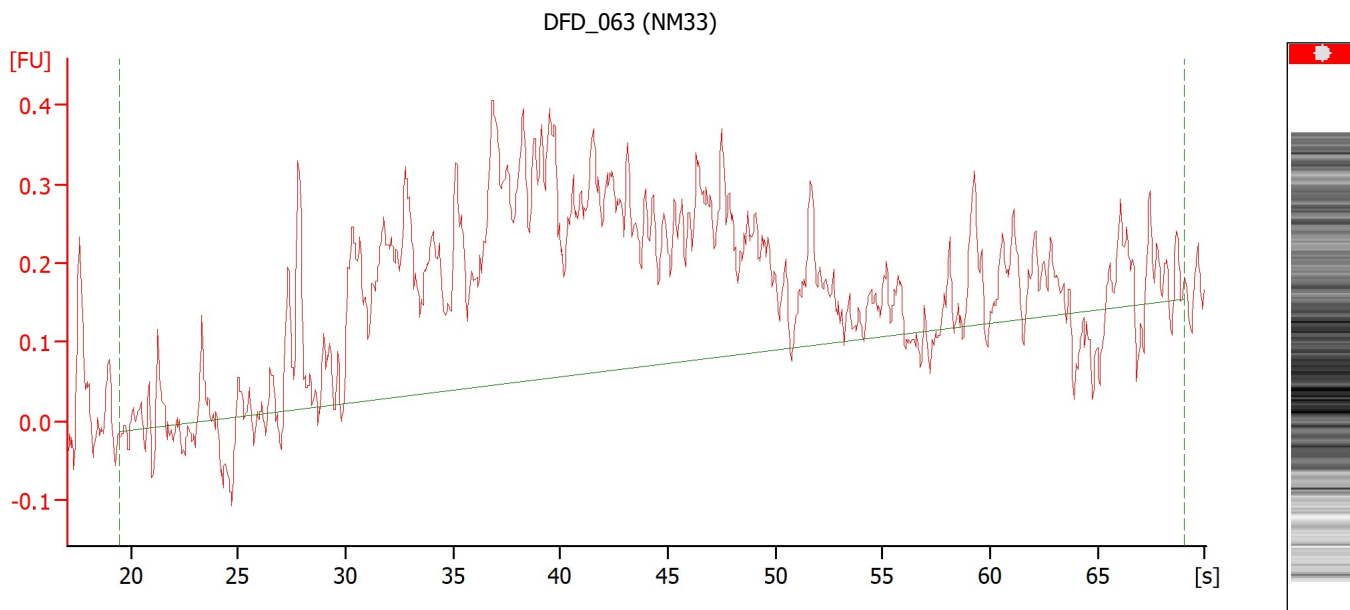
Overall Results for sample 7 : DFD_058 (TC02)

RNA Area:	26.5	RNA Integrity Number (RIN):	2.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	62 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



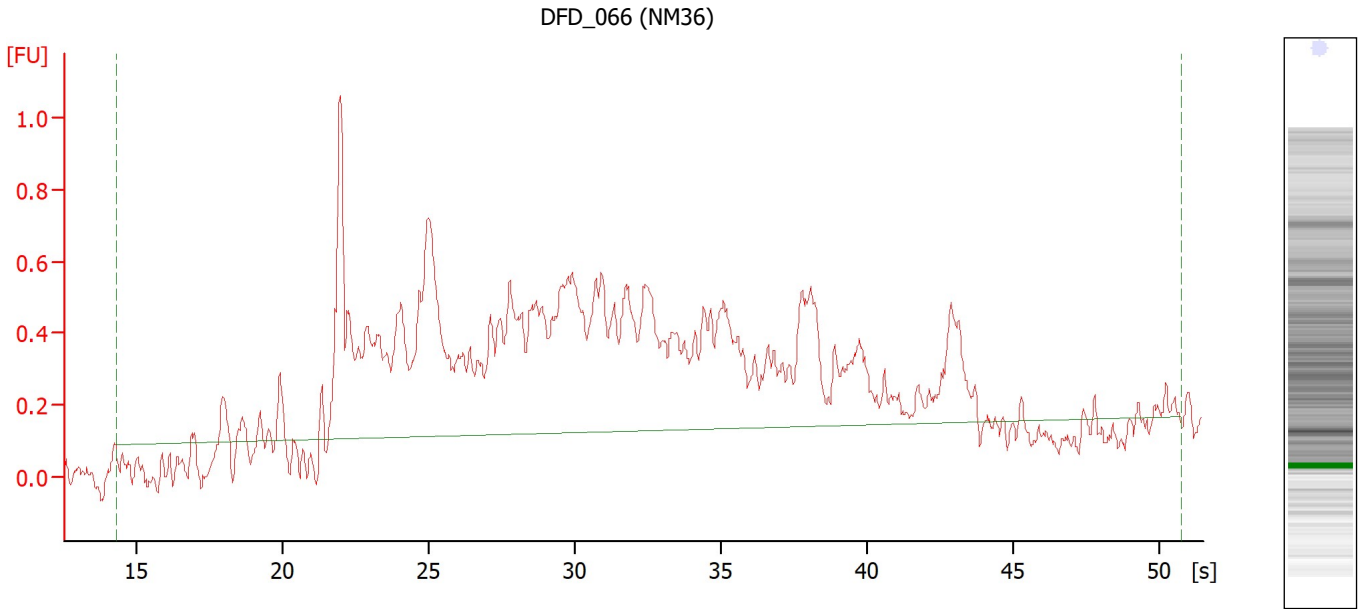
Overall Results for sample 8 : DFD_063 (NM33)

RNA Concentration:	29 pg/μl	Result Flagging Color:	
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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DFD_066 (NM36)

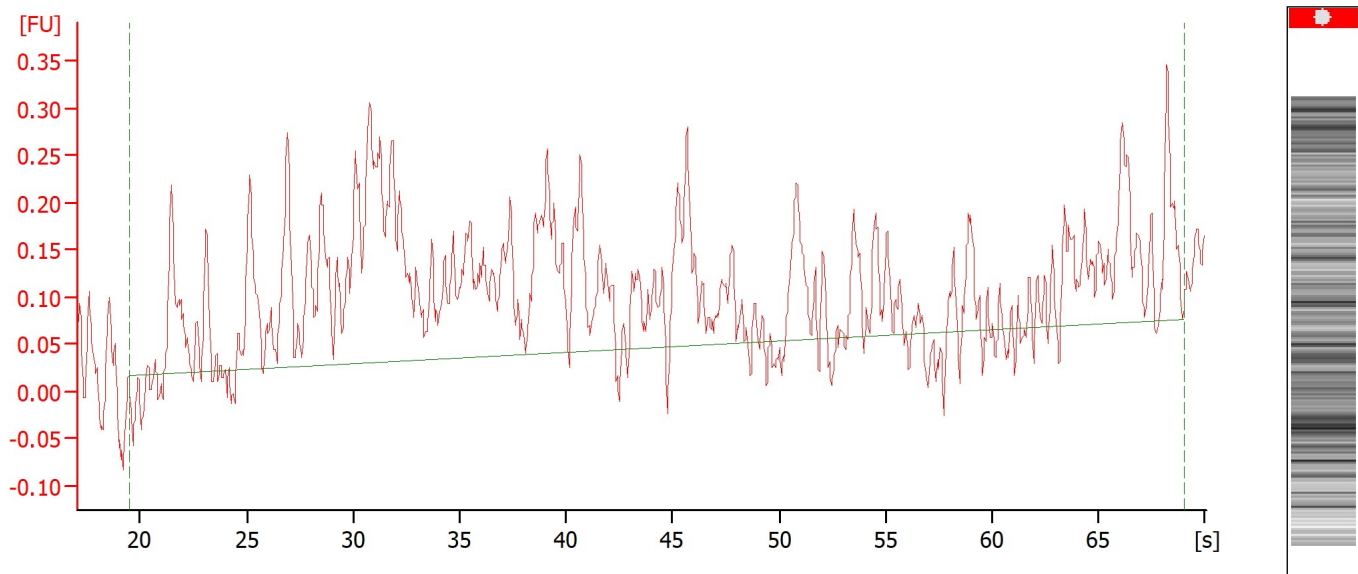
RNA Area:	18.3	RNA Integrity Number (RIN):	2.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	43 pg/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...

DFD_068 (TC06 soil)



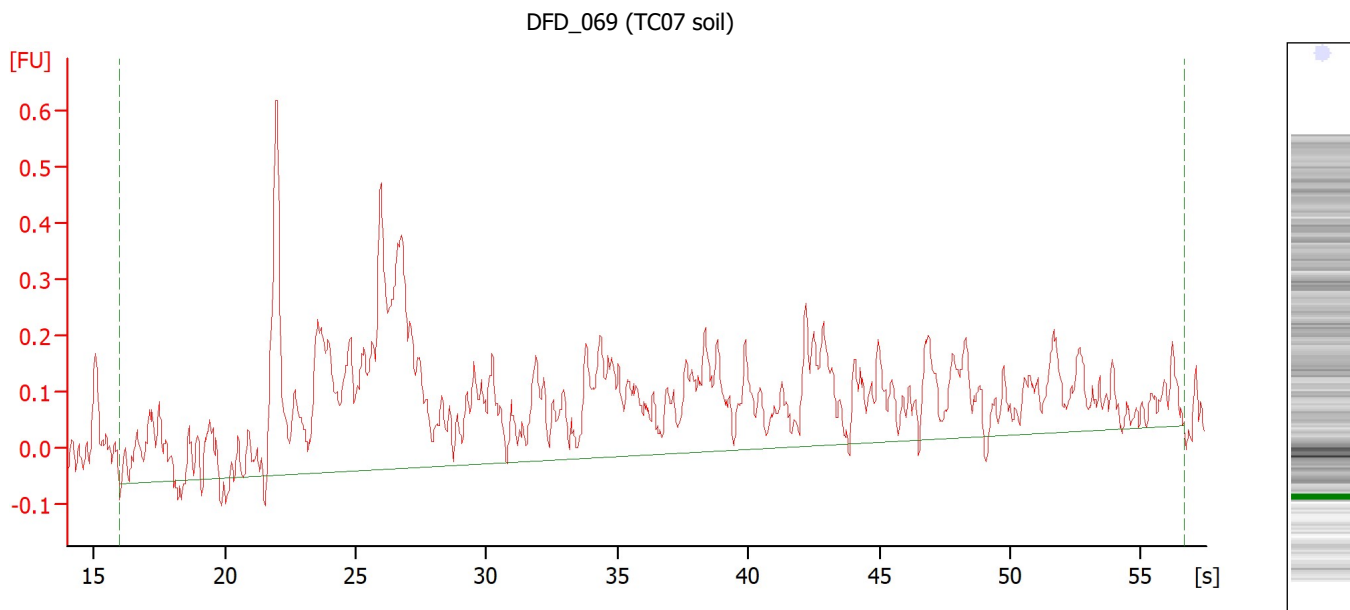
Overall Results for sample 10 : DFD_068 (TC06 soil)

RNA Concentration:	19 pg/ μ 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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 PM

Electropherogram Summary Continued ...



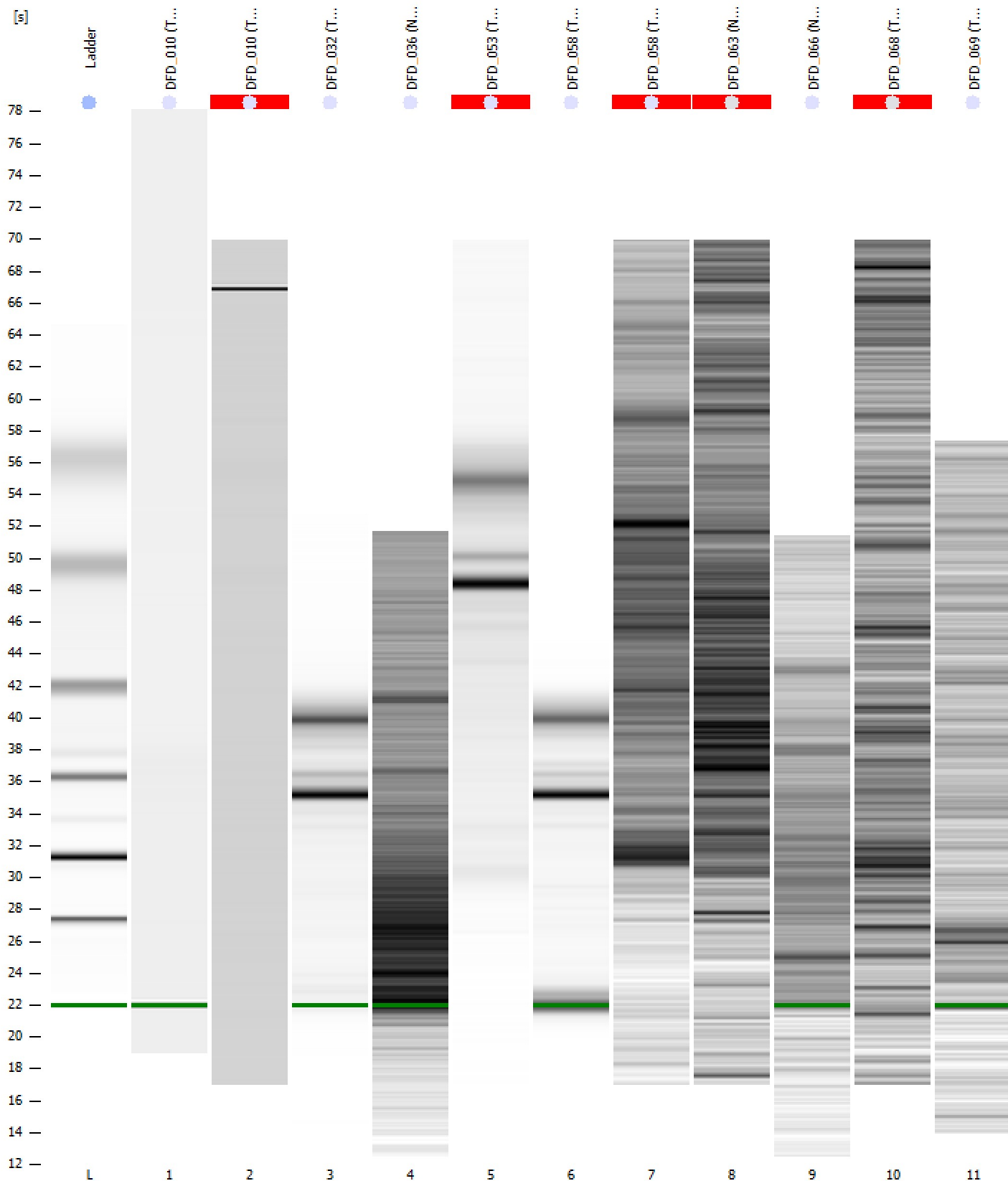
Overall Results for sample 11 : DFD_069 (TC07 soil)

RNA Area:	12.1	RNA Integrity Number (RIN):	2.4 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	28 pg/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_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Gel Image

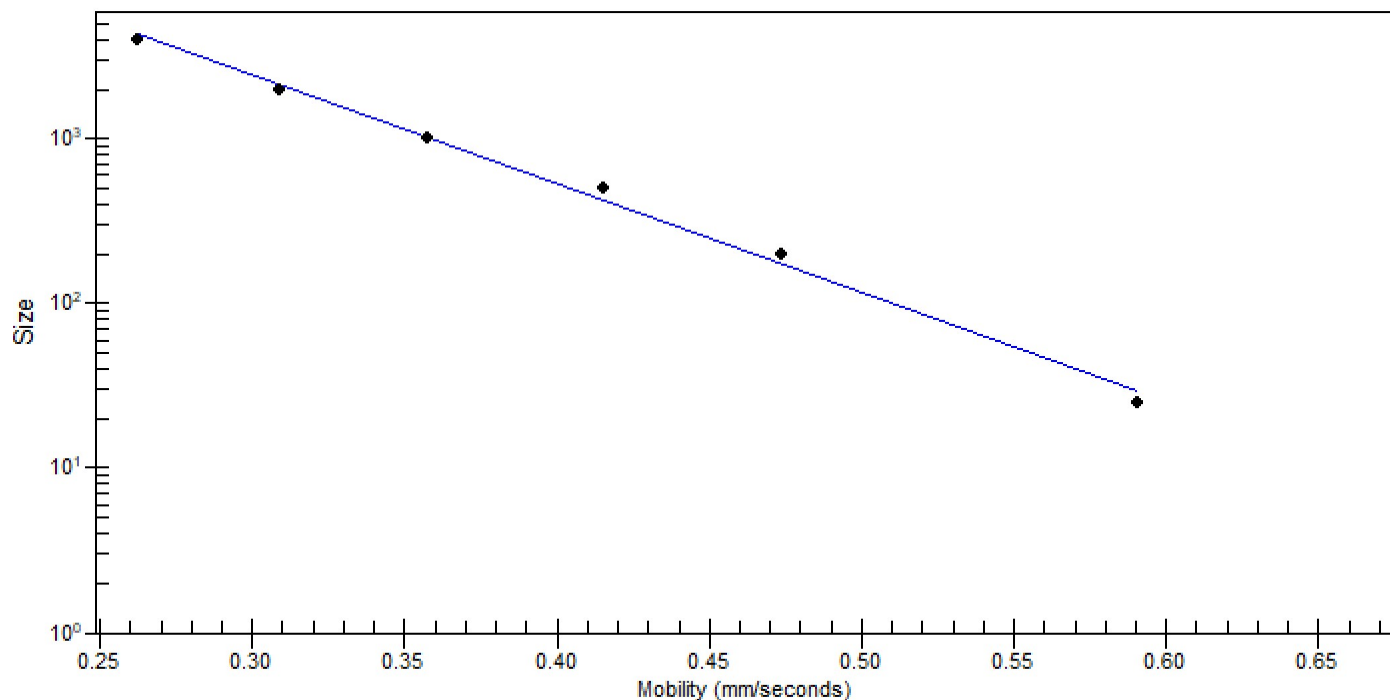


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
Modified: 12/15/2023 2:43:11 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad

Created: 12/15/2023 2:10:17 PM
 Modified: 12/15/2023 2:43:11 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		12/15/2023 2:32:17 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\2023-12-15\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2023-12-15_006.xad)		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/15/2023 2:10:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB