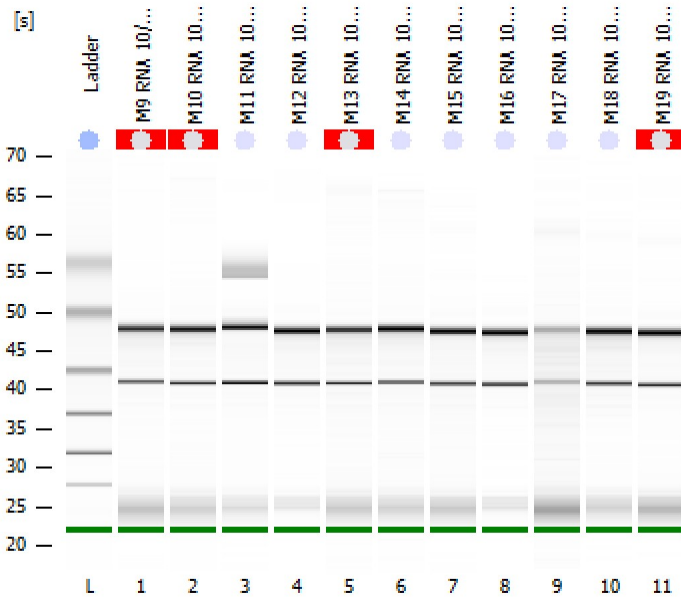


Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
Modified: 12/13/2019 3:13:37 PM

Electrophoresis File Run Summary



Instrument Information:

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

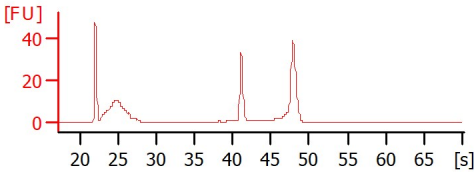
Assay Information:

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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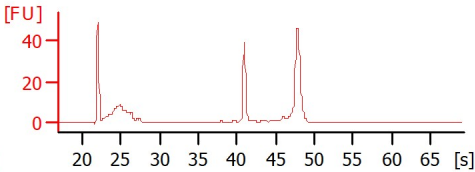
Chip Information:

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

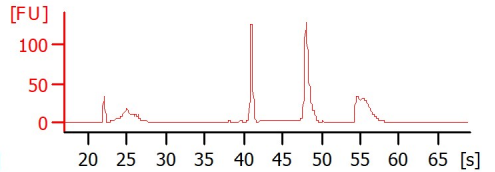
M9 RNA 10/2/19
HiSeq2024 #9
RIN N/A



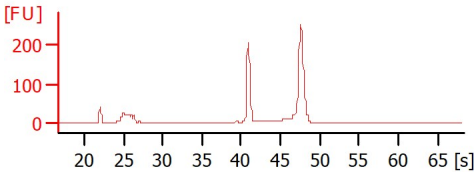
M10 RNA 10/2/19
HiSeq2024 #10
RIN N/A



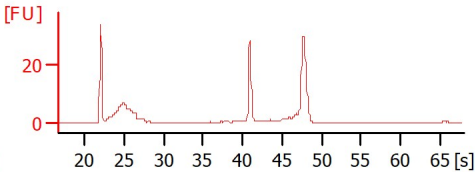
M11 RNA 10/2/19
HiSeq2024 #11
RIN: 9.60



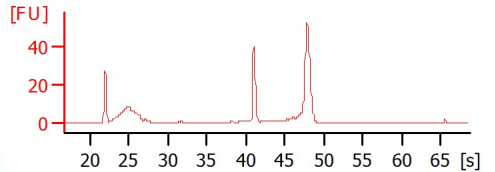
M12 RNA 10/2/19
HiSeq2024 #12
RIN: 10



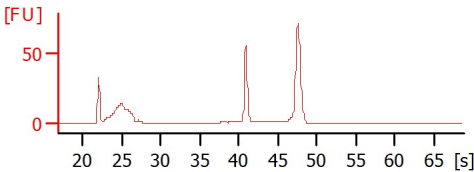
M13 RNA 10/2/19
HiSeq2024 #13
RIN N/A



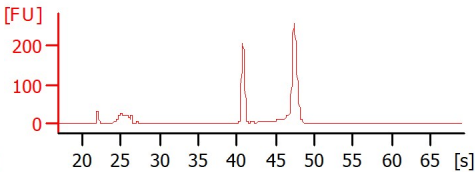
M14 RNA 10/2/19
HiSeq2024 #14
RIN: 9.60



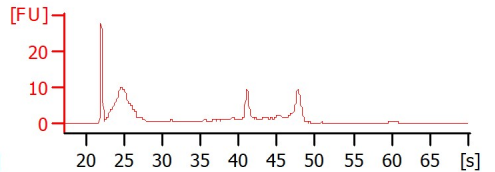
M15 RNA 10/2/19
HiSeq2024 #15
RIN: 9.40



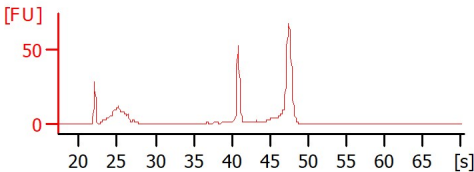
M16 RNA 10/2/19
HiSeq2024 #16
RIN: 10



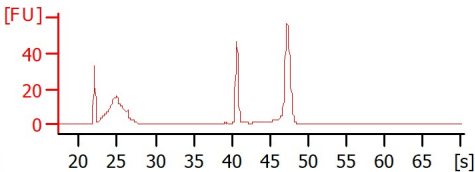
M17 RNA 10/2/19
HiSeq2024 #17
RIN: 7.40



M18 RNA 10/2/19
HiSeq2024 #18
RIN: 9.60



M19 RNA 10/2/19
HiSeq2024 #19
RIN N/A



Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
M9 RNA 10/2/19	HiSeq2024 #9	✓	RIN N/A	
M10 RNA 10/2/19	HiSeq2024 #10	✓	RIN N/A	
M11 RNA 10/2/19	HiSeq2024 #11	✓	RIN: 9.60	
M12 RNA 10/2/19	HiSeq2024 #12	✓	RIN:10	
M13 RNA 10/2/19	HiSeq2024 #13	✓	RIN N/A	
M14 RNA 10/2/19	HiSeq2024 #14	✓	RIN: 9.60	
M15 RNA 10/2/19	HiSeq2024 #15	✓	RIN: 9.40	
M16 RNA 10/2/19	HiSeq2024 #16	✓	RIN:10	
M17 RNA 10/2/19	HiSeq2024 #17	✓	RIN: 7.40	
M18 RNA 10/2/19	HiSeq2024 #18	✓	RIN: 9.60	
M19 RNA 10/2/19	HiSeq2024 #19	✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 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

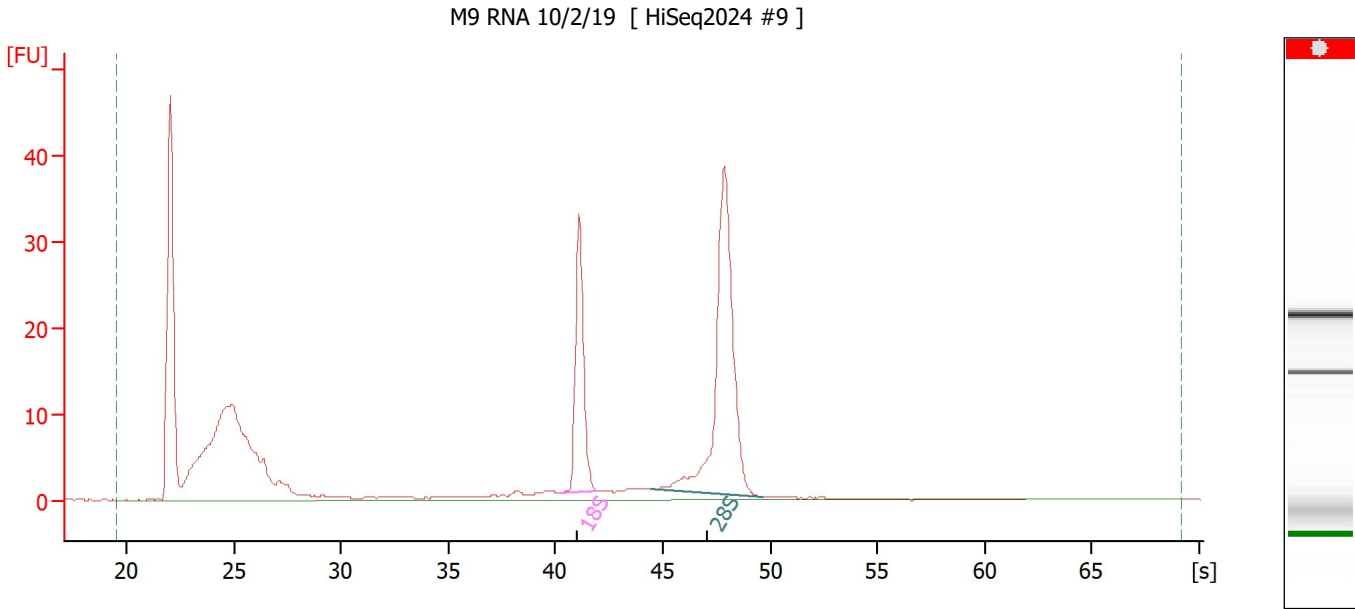
Ladder

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

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary



Overall Results for sample 1 : M9 RNA 10/2/19

RNA Area: 254.9 RNA Integrity Number (RIN): N/A (B.02.10)
 RNA Concentration: 1,227 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN N/A

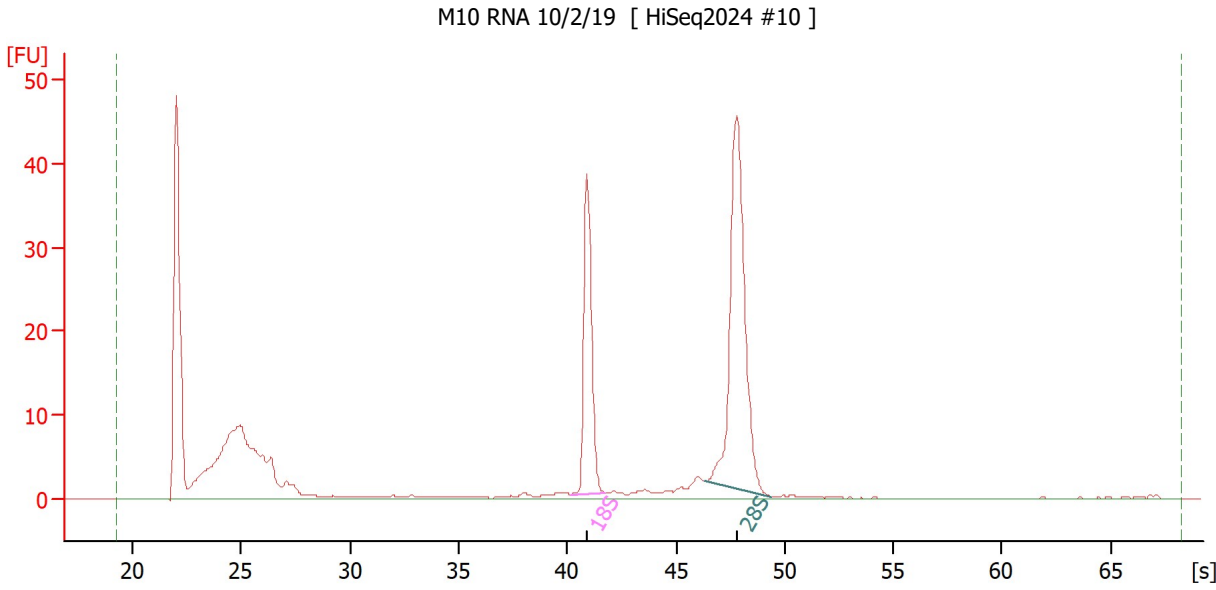
Fragment table for sample 1 : M9 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.14	41.95	33.9	13.3
28S	44.45	49.71	72.3	28.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : M10 RNA 10/2/19

RNA Area:	238.2	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1,147 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN N/A

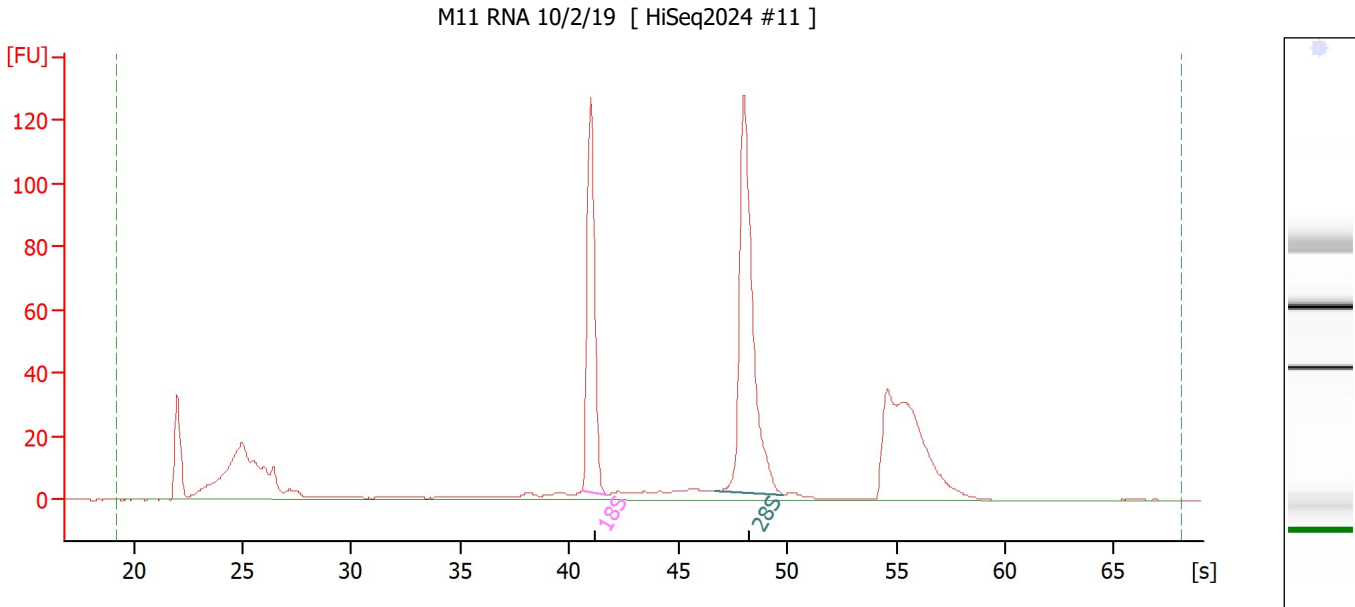
Fragment table for sample 2 : M10 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.19	41.73	37.3	15.7
28S	46.32	49.34	71.8	30.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M11 RNA 10/2/19

RNA Area:	687.0	RNA Integrity Number (RIN):	9.6 (B.02.10)
RNA Concentration:	3,308 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.60

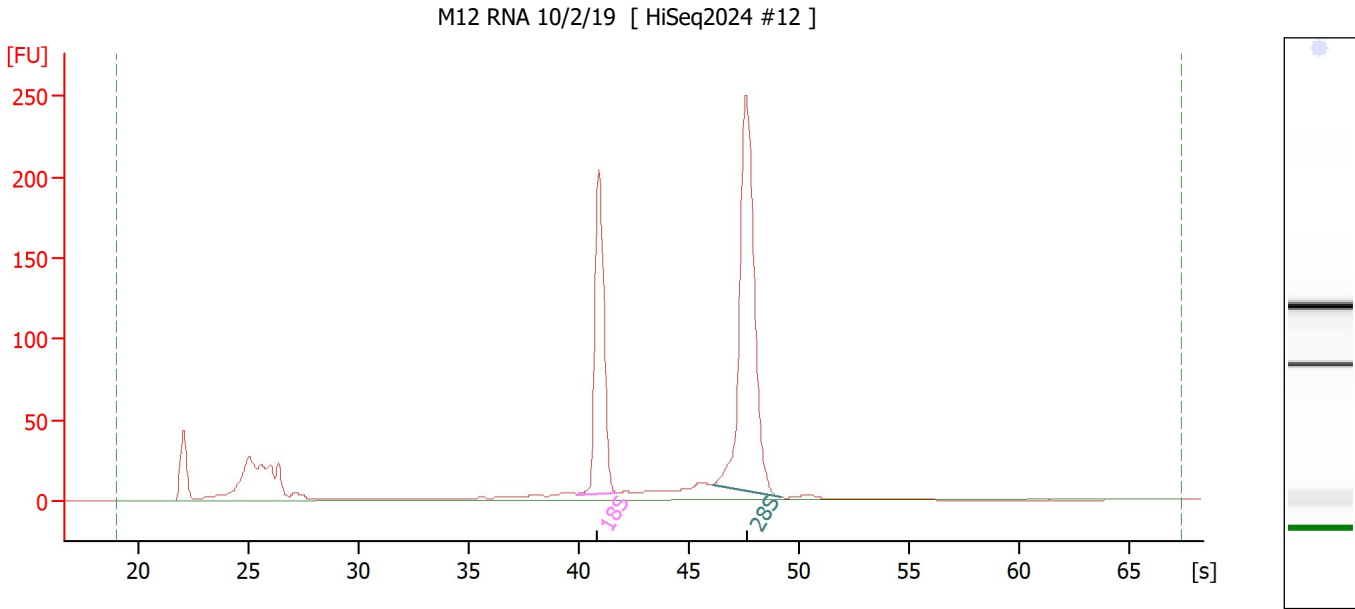
Fragment table for sample 3 : M11 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.60	41.68	117.8	17.1
28S	46.71	49.82	181.5	26.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : M12 RNA 10/2/19

RNA Area:	1,025.1	RNA Integrity Number (RIN):	10 (B.02.10)
RNA Concentration:	4,936 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

Fragment table for sample 4 : M12 RNA 10/2/19

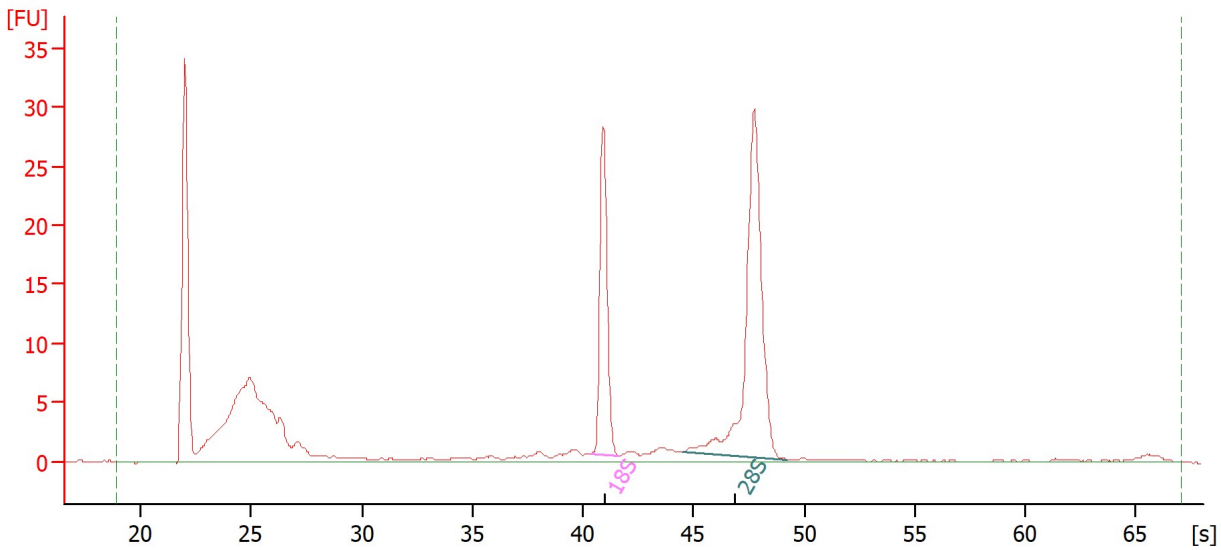
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.90	41.76	234.4	22.9
28S	46.05	49.12	398.4	38.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...

M13 RNA 10/2/19 [HiSeq2024 #13]



Overall Results for sample 5 : M13 RNA 10/2/19

RNA Area:	176.5	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	850 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN N/A

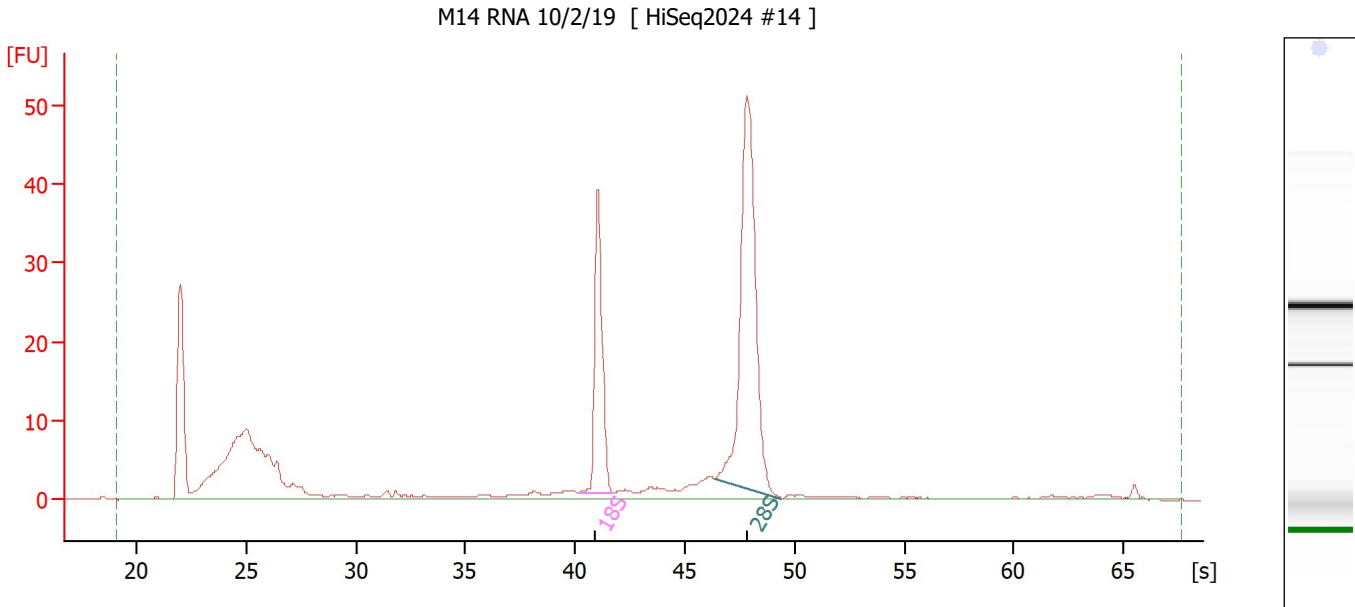
Fragment table for sample 5 : M13 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.31	41.62	24.9	14.1
28S	44.53	49.25	51.1	28.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M14 RNA 10/2/19

RNA Area:	269.6	RNA Integrity Number (RIN):	9.6 (B.02.10)
RNA Concentration:	1,298 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.60

Fragment table for sample 6 : M14 RNA 10/2/19

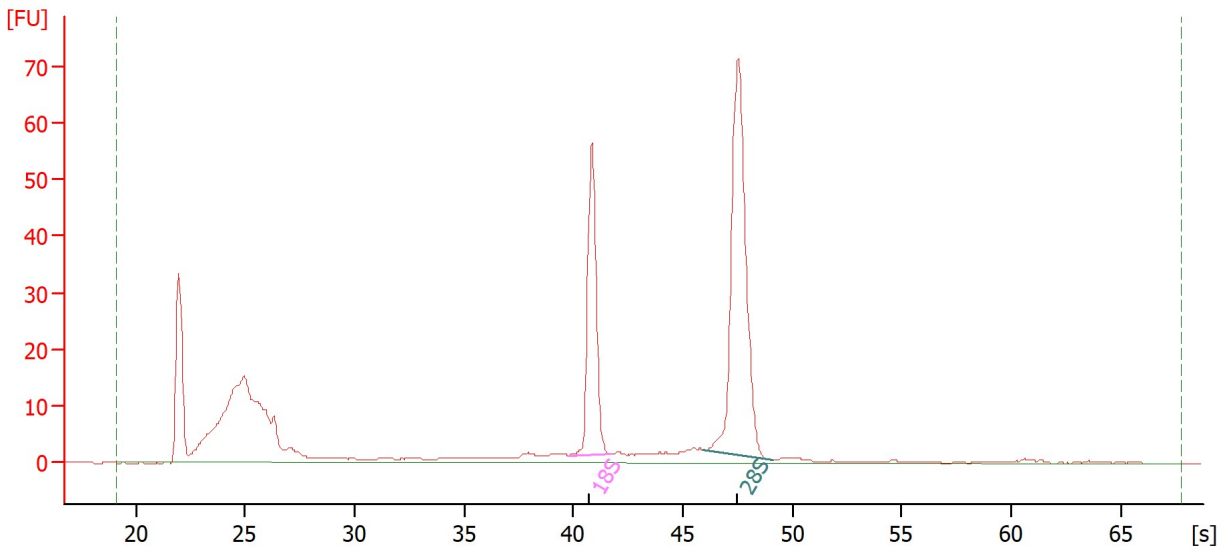
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.13	41.75	37.8	14.0
28S	46.35	49.39	83.2	30.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...

M15 RNA 10/2/19 [HiSeq2024 #15]



Overall Results for sample 7 : M15 RNA 10/2/19

RNA Area:	405.0	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	1,950 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.40

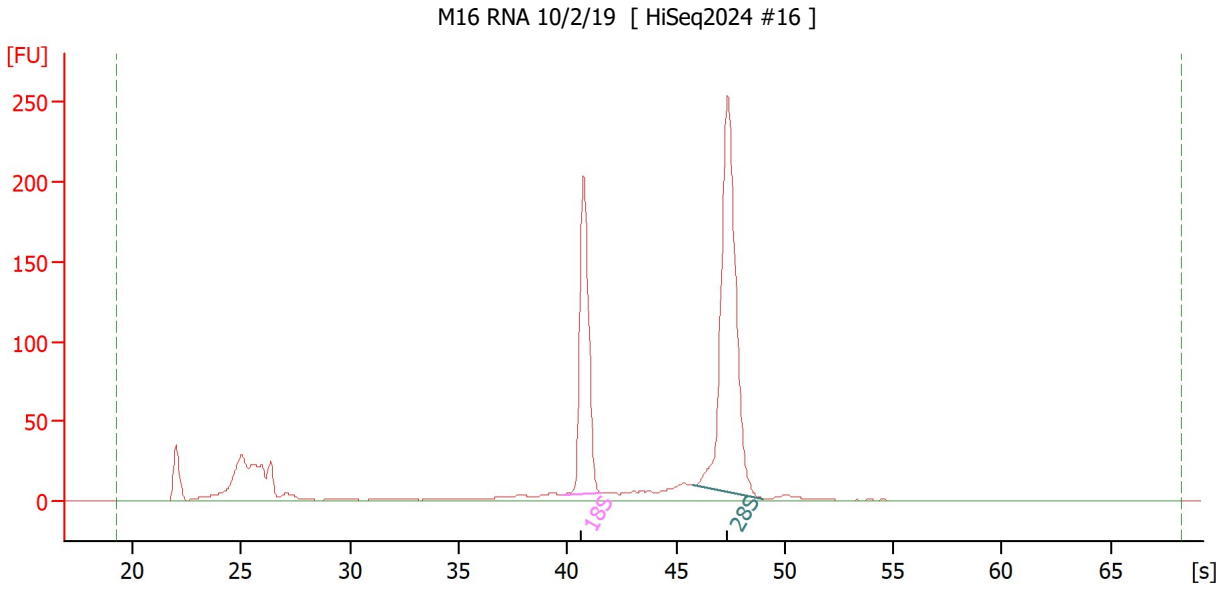
Fragment table for sample 7 : M15 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.78	41.74	60.5	14.9
28S	45.96	49.11	111.0	27.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : M16 RNA 10/2/19

RNA Area:	1,059.1	RNA Integrity Number (RIN):	10 (B.02.10)
RNA Concentration:	5,100 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

Fragment table for sample 8 : M16 RNA 10/2/19

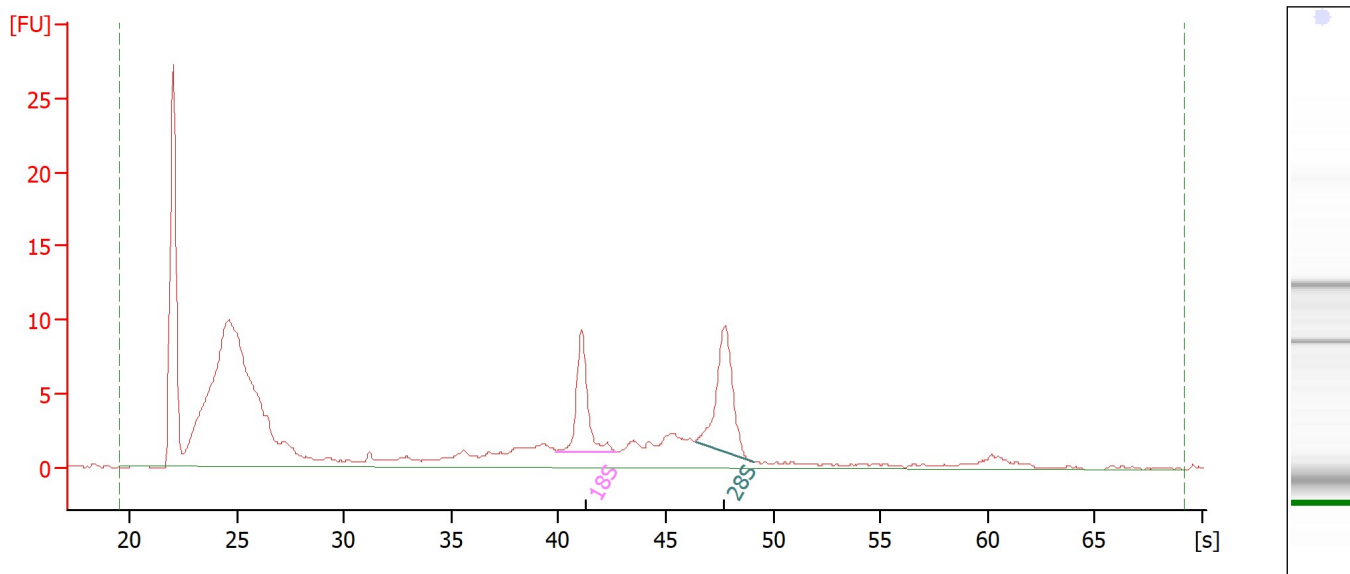
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.80	41.58	234.8	22.2
28S	45.73	49.04	410.3	38.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...

M17 RNA 10/2/19 [HiSeq2024 #17]



Overall Results for sample 9 : M17 RNA 10/2/19

RNA Area: 192.0 RNA Integrity Number (RIN): 7.4 (B.02.10)
 RNA Concentration: 924 µg/µl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.40

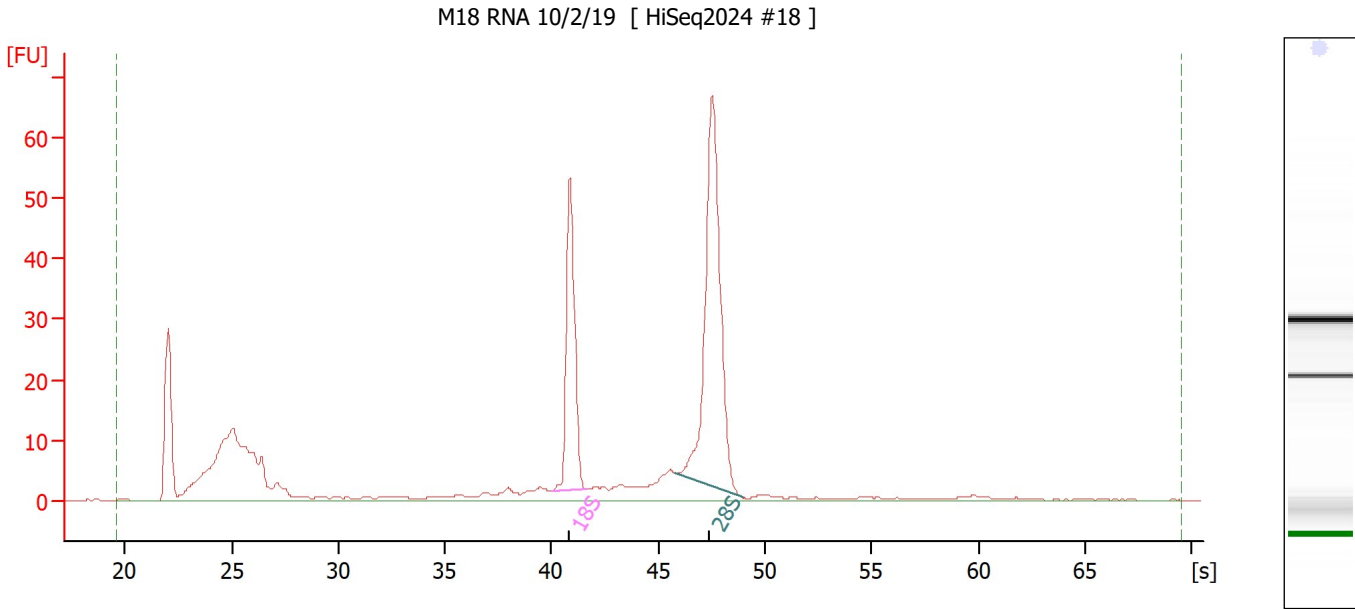
Fragment table for sample 9 : M17 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.89	42.70	11.9	6.2
28S	46.36	49.06	15.7	8.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : M18 RNA 10/2/19

RNA Area:	367.4	RNA Integrity Number (RIN):	9.6 (B.02.10)
RNA Concentration:	1,769 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.60

Fragment table for sample 10 : M18 RNA 10/2/19

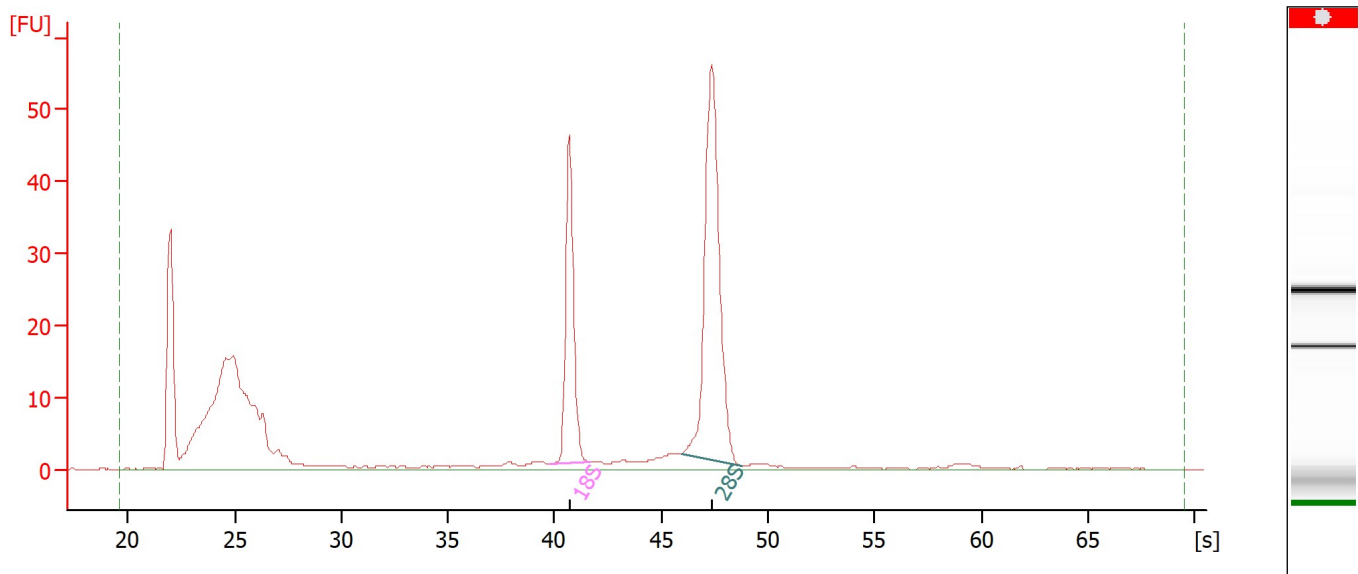
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.07	41.63	57.7	15.7
28S	45.81	48.93	112.3	30.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 PM

Electropherogram Summary Continued ...

M19 RNA 10/2/19 [HiSeq2024 #19]



Overall Results for sample 11 : M19 RNA 10/2/19

RNA Area:	353.1	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1,700 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN N/A

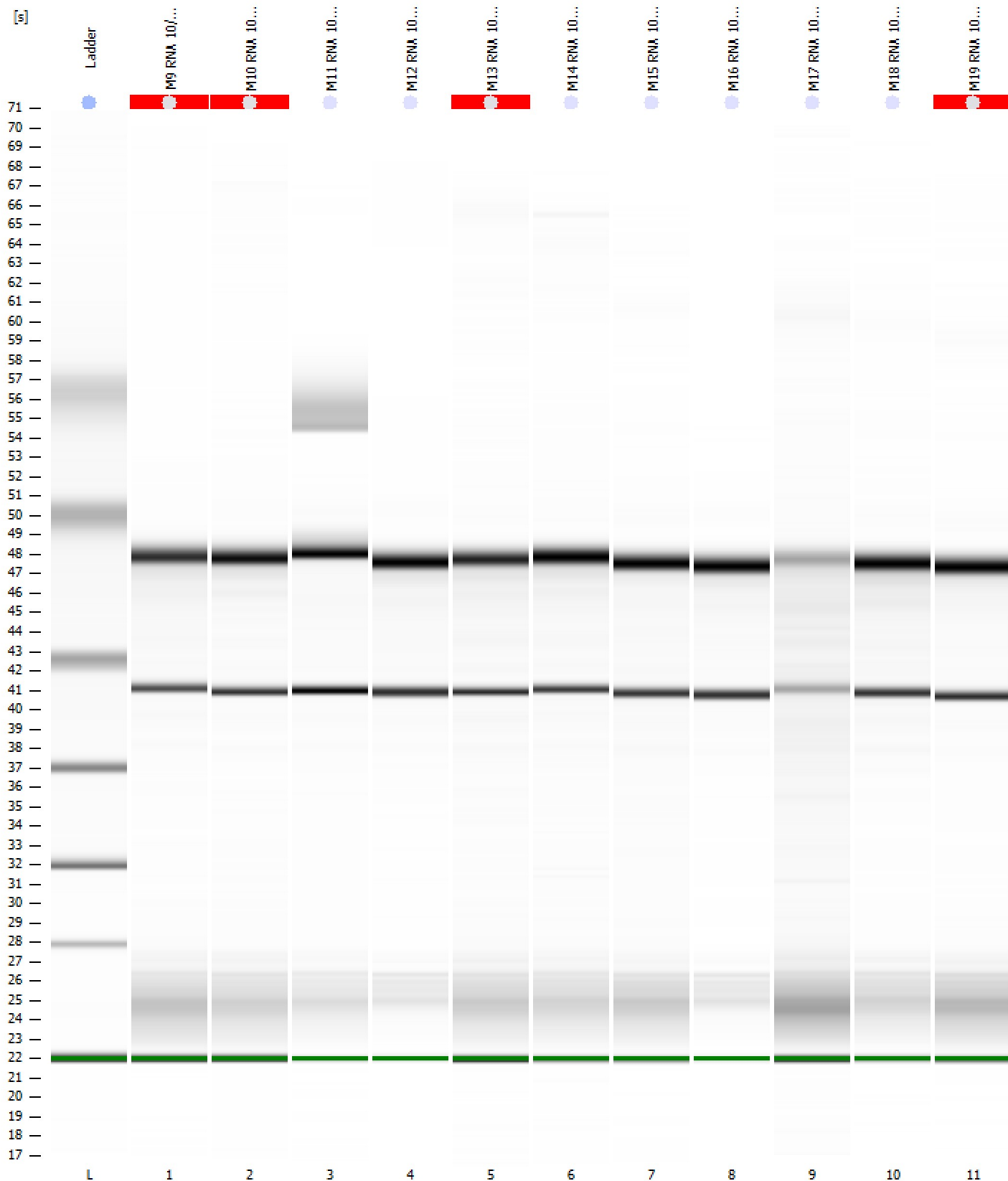
Fragment table for sample 11 : M19 RNA 10/2/19

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.72	41.63	48.8	13.8
28S	45.91	48.78	91.5	25.9

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
Modified: 12/13/2019 3:13:37 PM

Gel Image

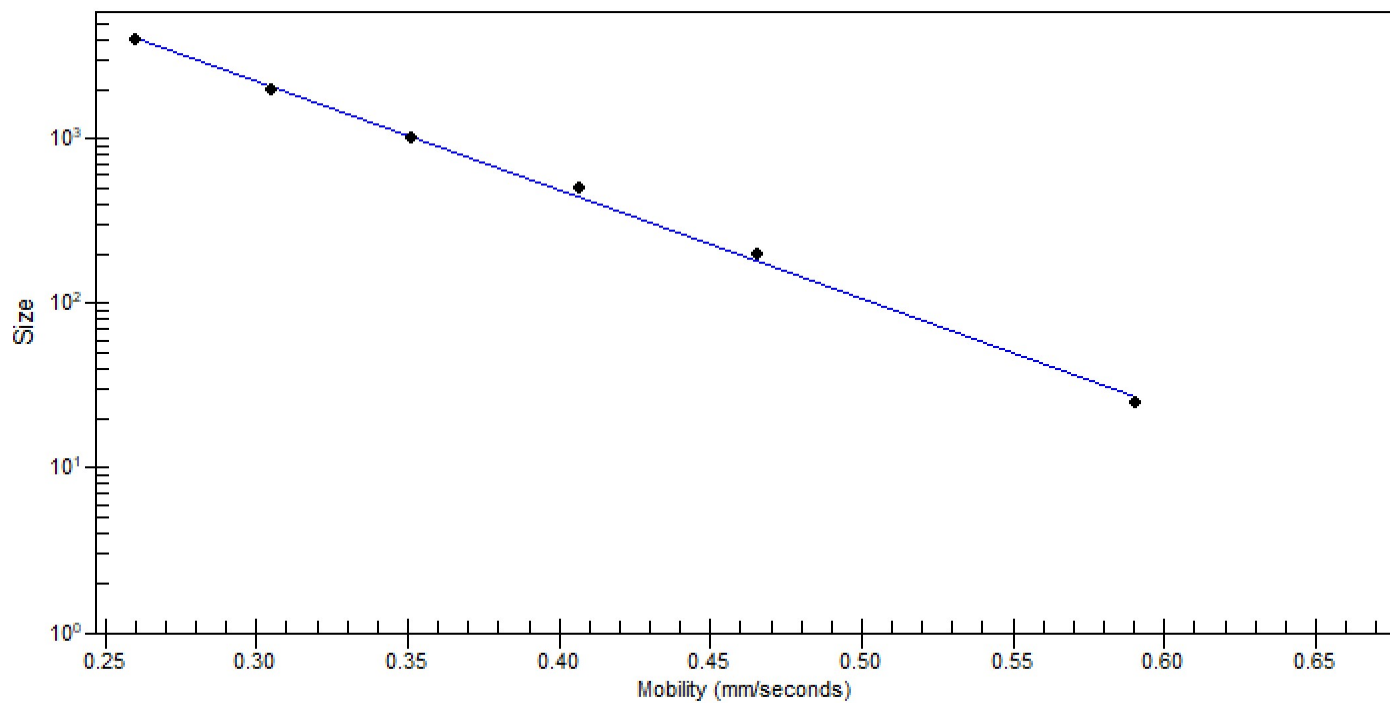


Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
Modified: 12/13/2019 3:13:37 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad

Created: 12/13/2019 2:51:20 PM
 Modified: 12/13/2019 3:13:37 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		12/13/2019 3:13:25 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_003.xad)		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/13/2019 2:51:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB