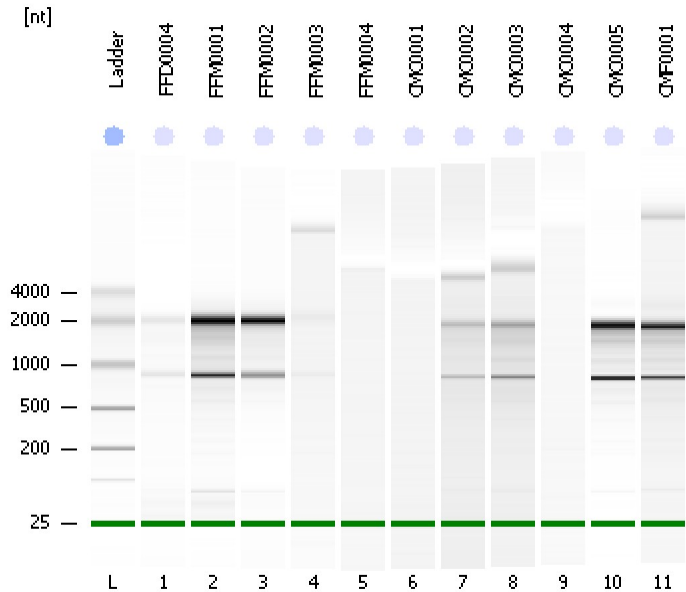


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electrophoresis File Run Summary



Instrument Information:

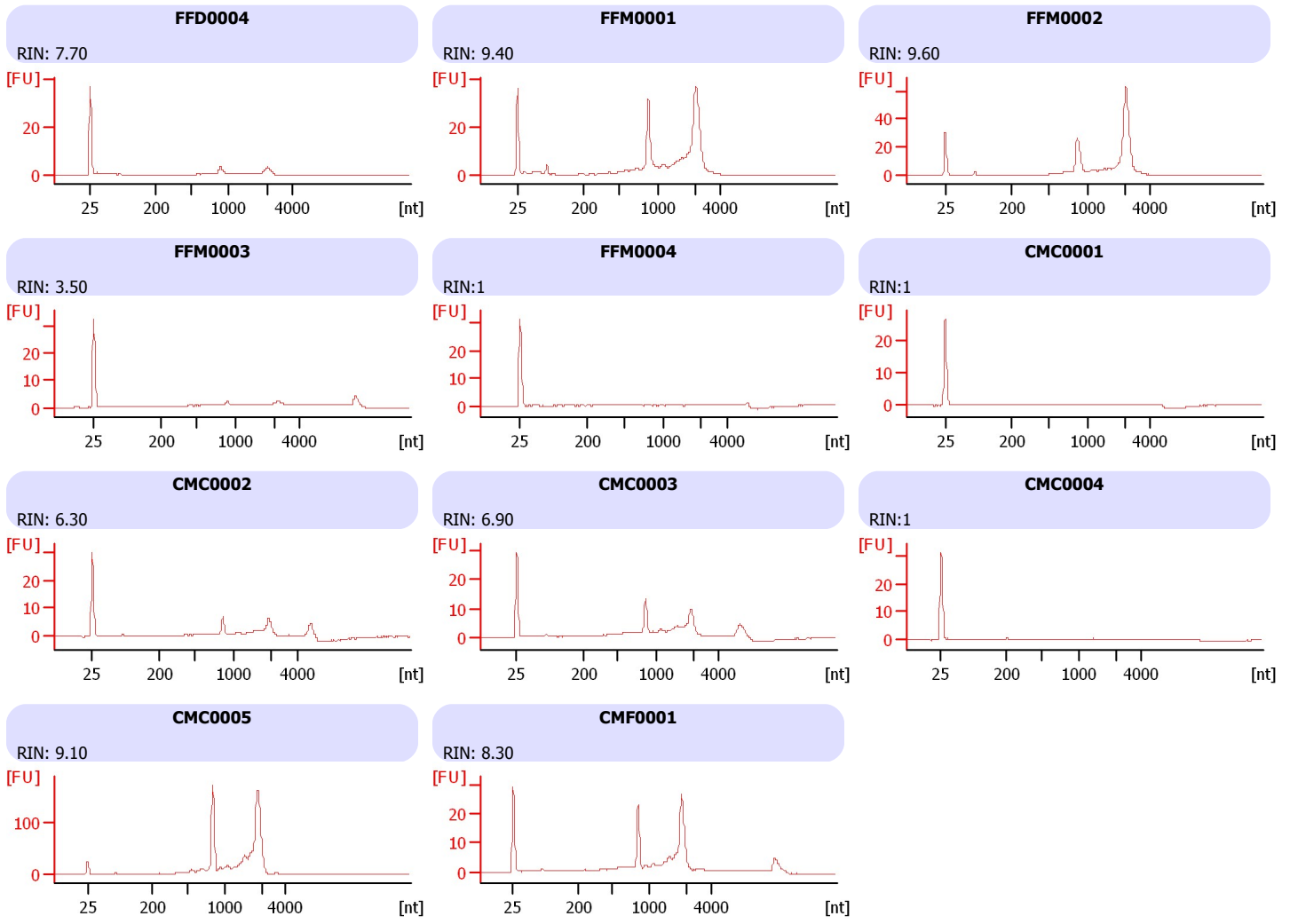
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\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:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
 Modified: 9/16/2019 3:14:32 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
FFD0004		✓	RIN: 7.70	
FFM0001		✓	RIN: 9.40	
FFM0002		✓	RIN: 9.60	
FFM0003		✓	RIN: 3.50	
FFM0004		✓	RIN:1	
CMC0001		✓	RIN:1	
CMC0002		✓	RIN: 6.30	
CMC0003		✓	RIN: 6.90	
CMC0004		✓	RIN:1	
CMC0005		✓	RIN: 9.10	
CMF0001		✓	RIN: 8.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 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

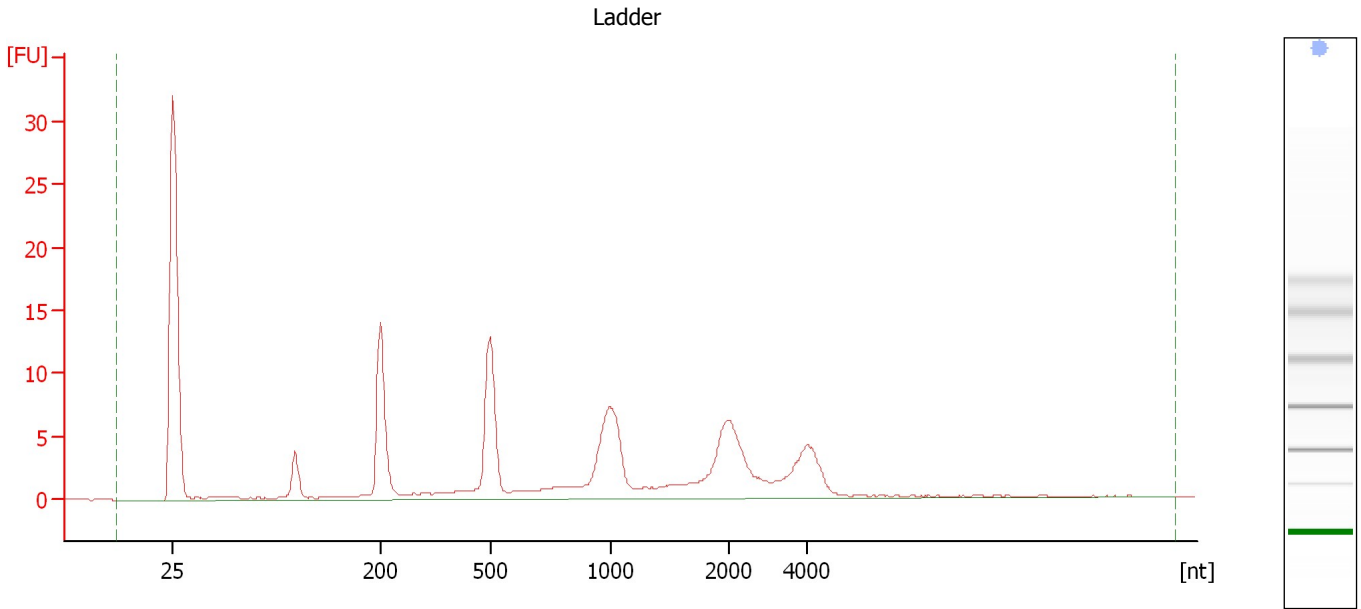
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary



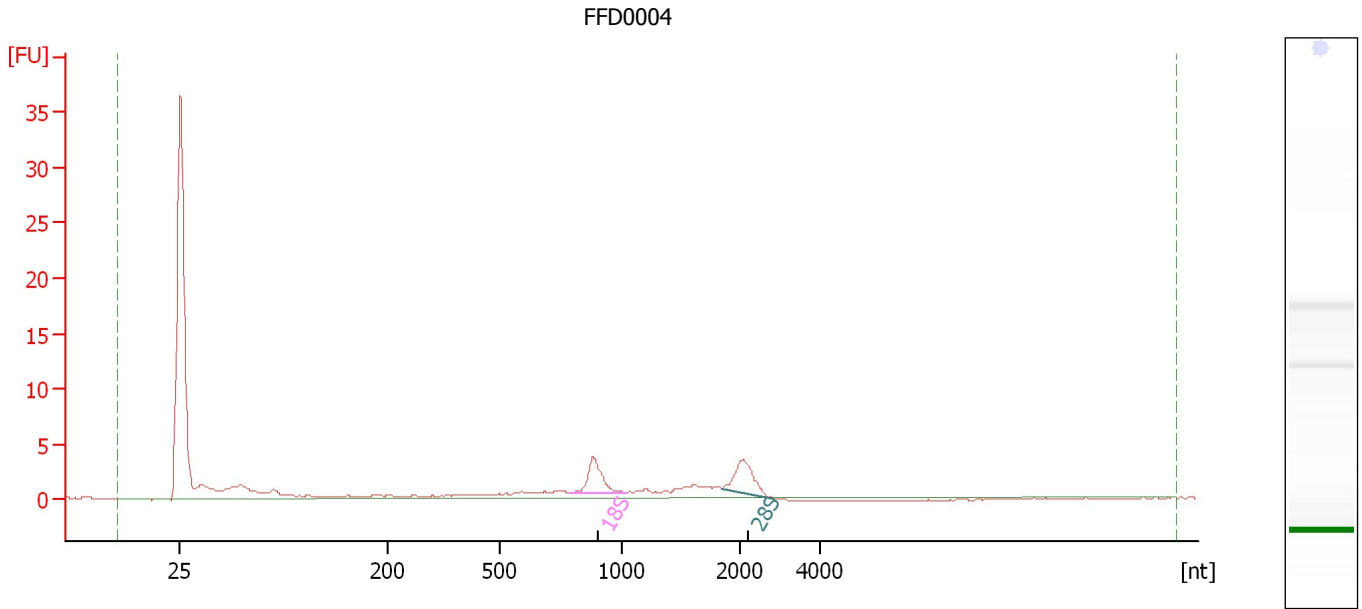
Overall Results for Ladder

RNA Area:	127.2	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : FFD0004

RNA Area: 51.7 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 406 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.70

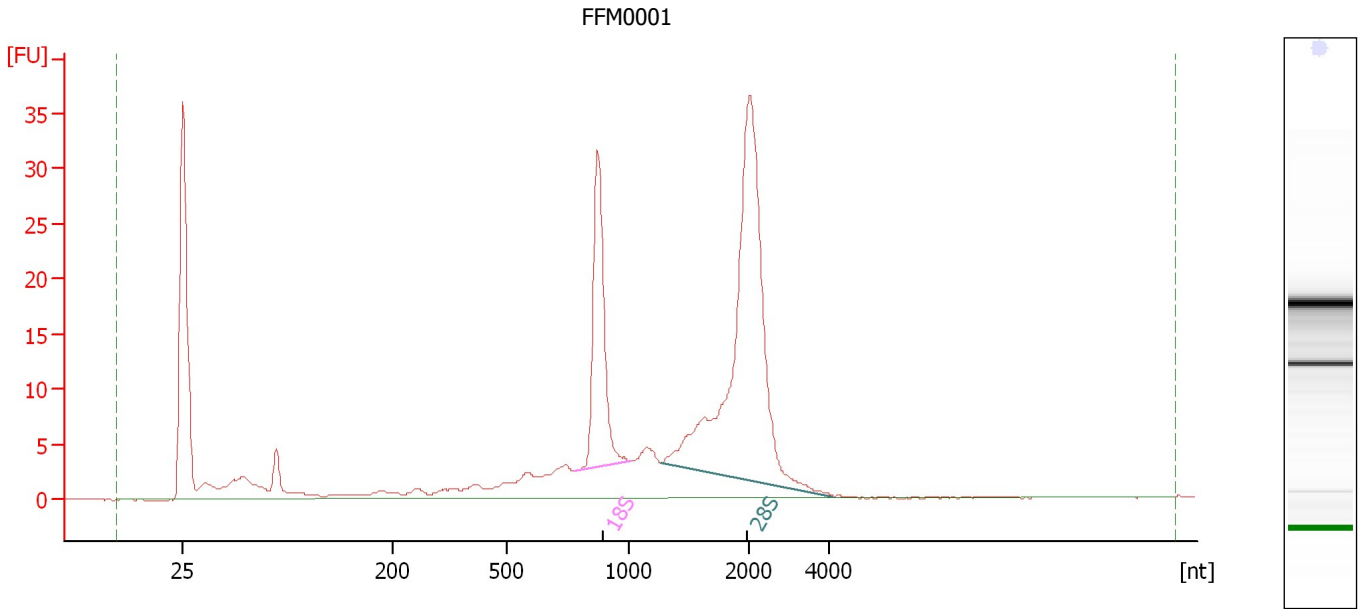
Fragment table for sample 1 : FFD0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	787	1,030	5.6	10.9
28S	1,848	2,843	5.9	11.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : FFM0001

RNA Area:	270.7	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	2,127 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.40

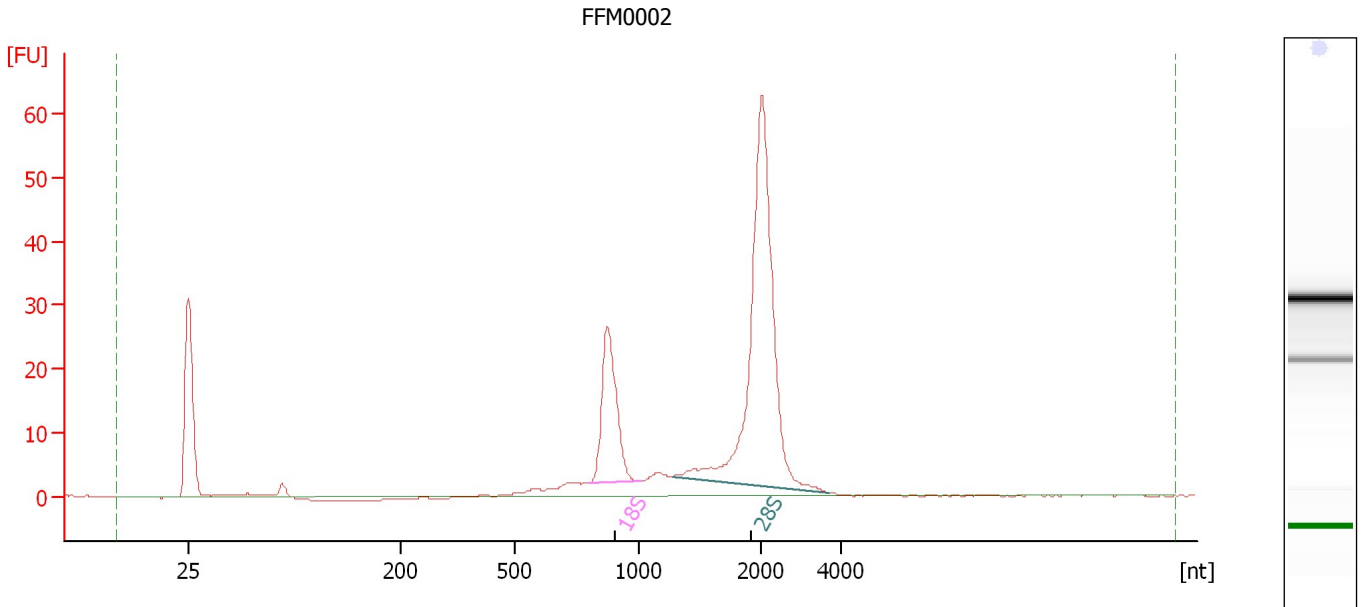
Fragment table for sample 2 : FFM0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	777	1,015	39.2	14.5
28S	1,264	4,133	110.5	40.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
 Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : FFM0002

RNA Area:	258.5	RNA Integrity Number (RIN):	9.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,032 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.2	Result Flagging Label:	RIN: 9.60

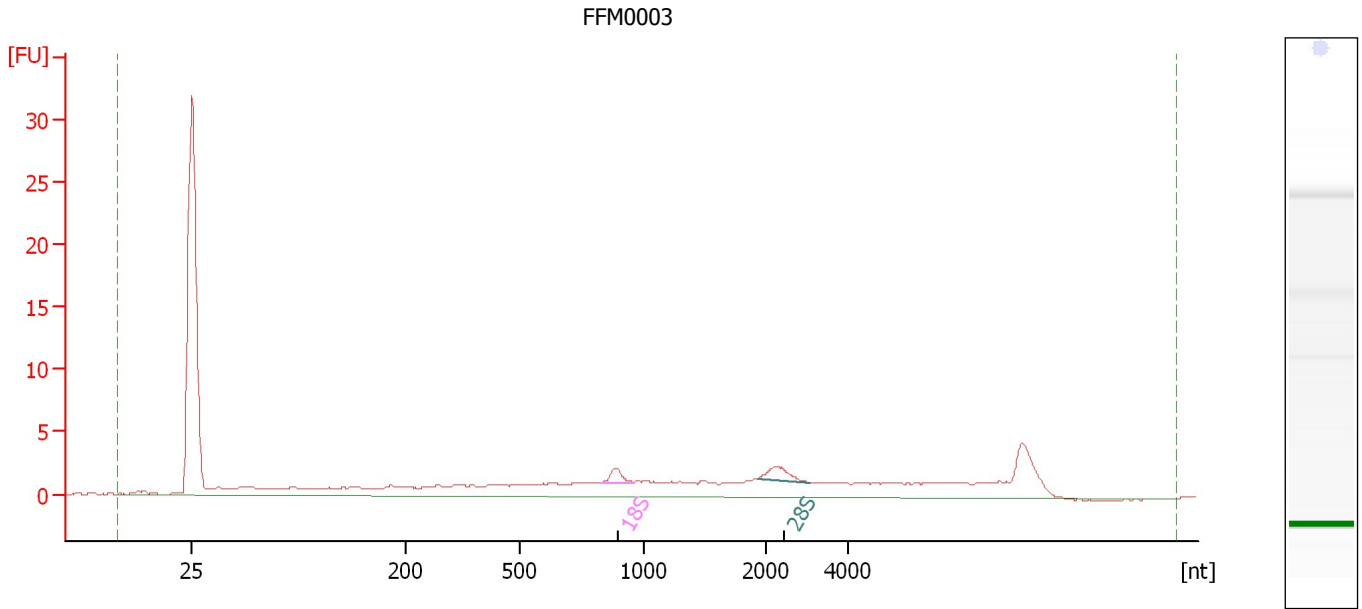
Fragment table for sample 3 : FFM0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	794	1,018	45.5	17.6
28S	1,273	3,715	146.0	56.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : FFM0003

RNA Area:	93.6	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	736 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 3.50

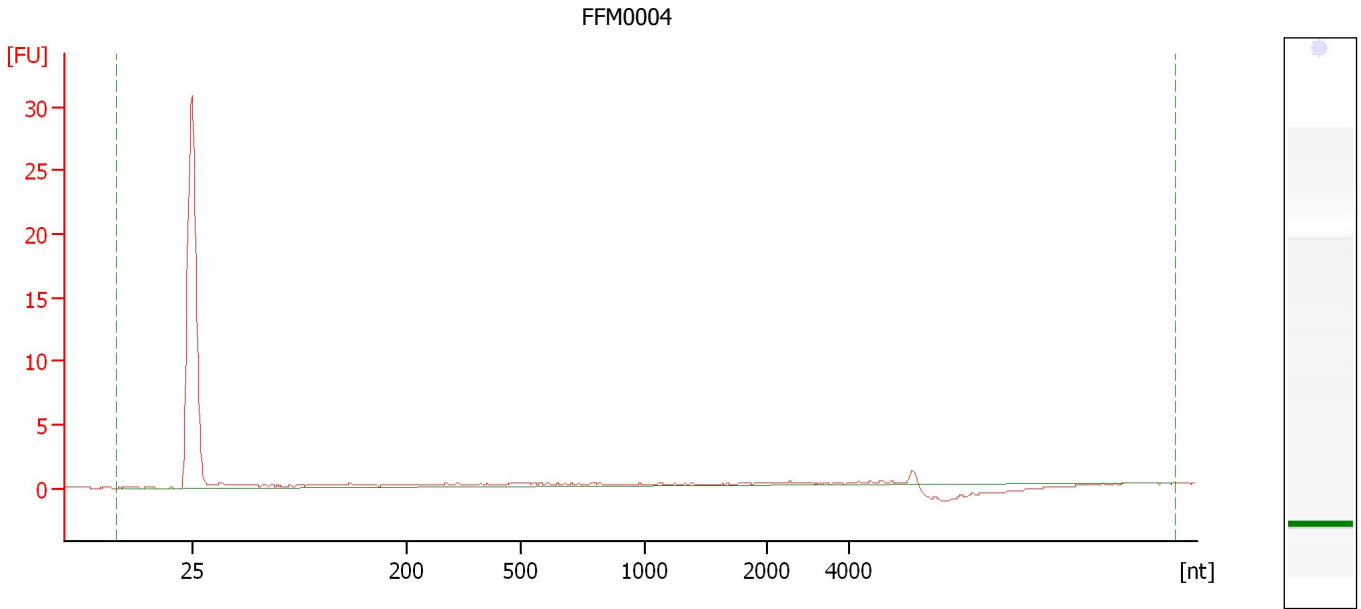
Fragment table for sample 4 : FFM0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	830	953	1.5	1.6
28S	1,923	3,090	2.5	2.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



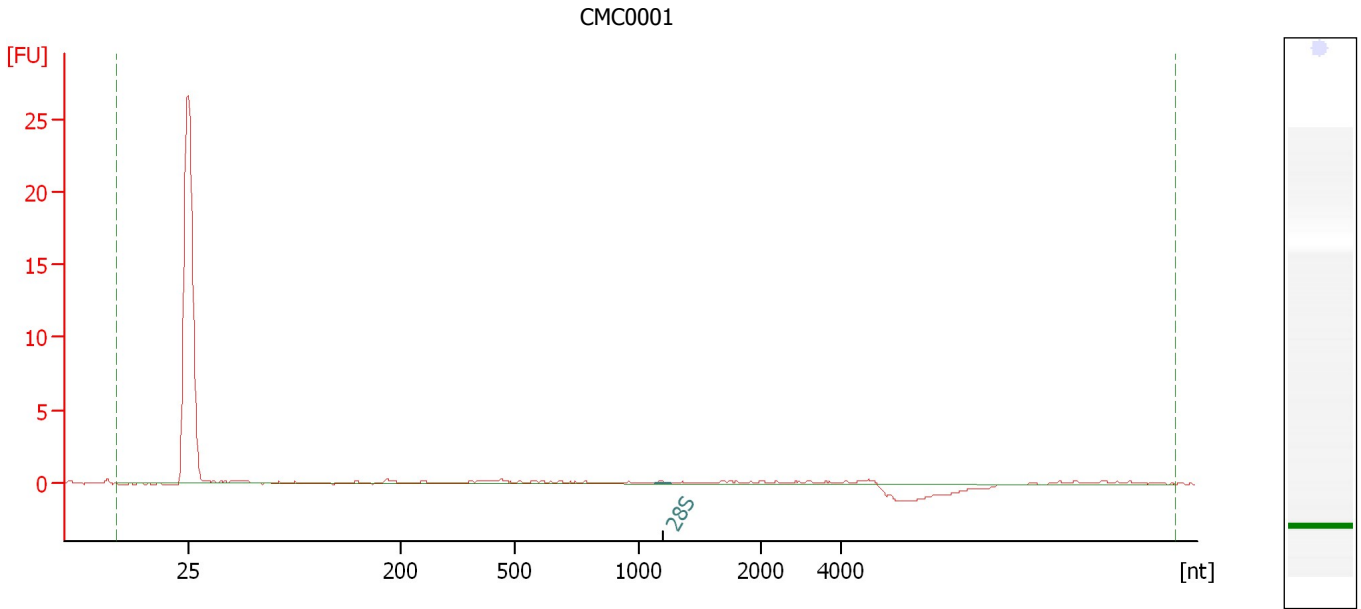
Overall Results for sample 5 : FFM0004

RNA Area:	15.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	121 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CMC0001

RNA Area:	7.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	57 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

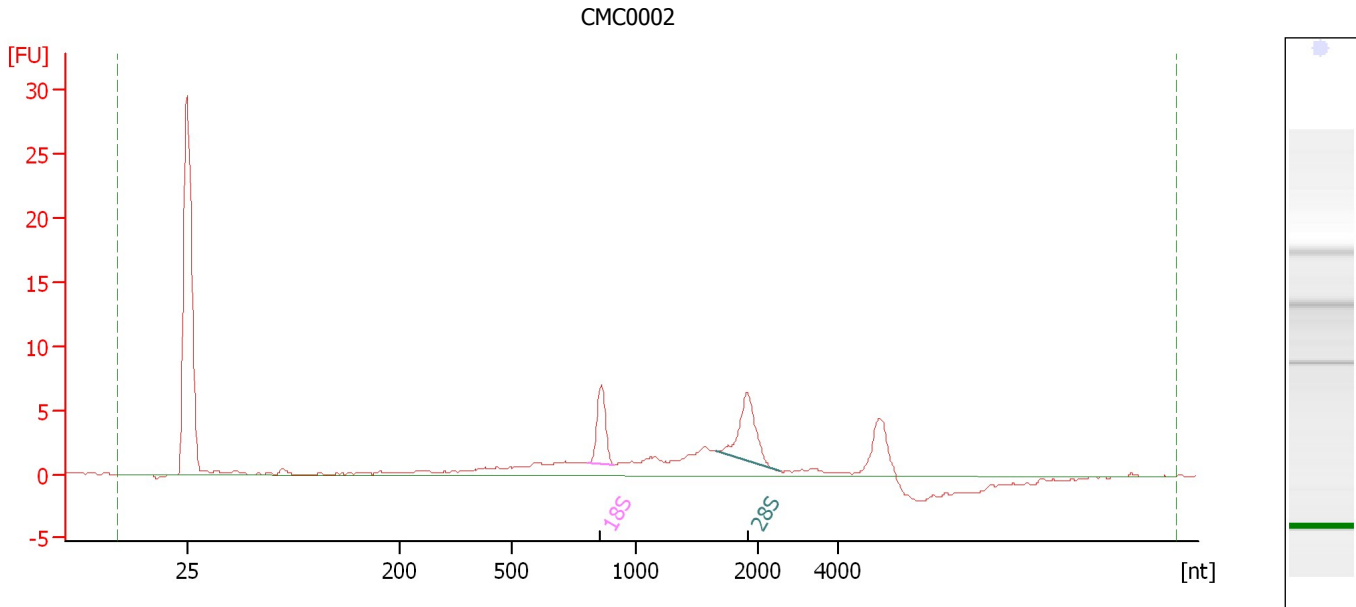
Fragment table for sample 6 : CMC0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,124	1,265	0.1	2.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
 Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMC0002

RNA Area:	66.9	RNA Integrity Number (RIN):	6.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	526 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.30

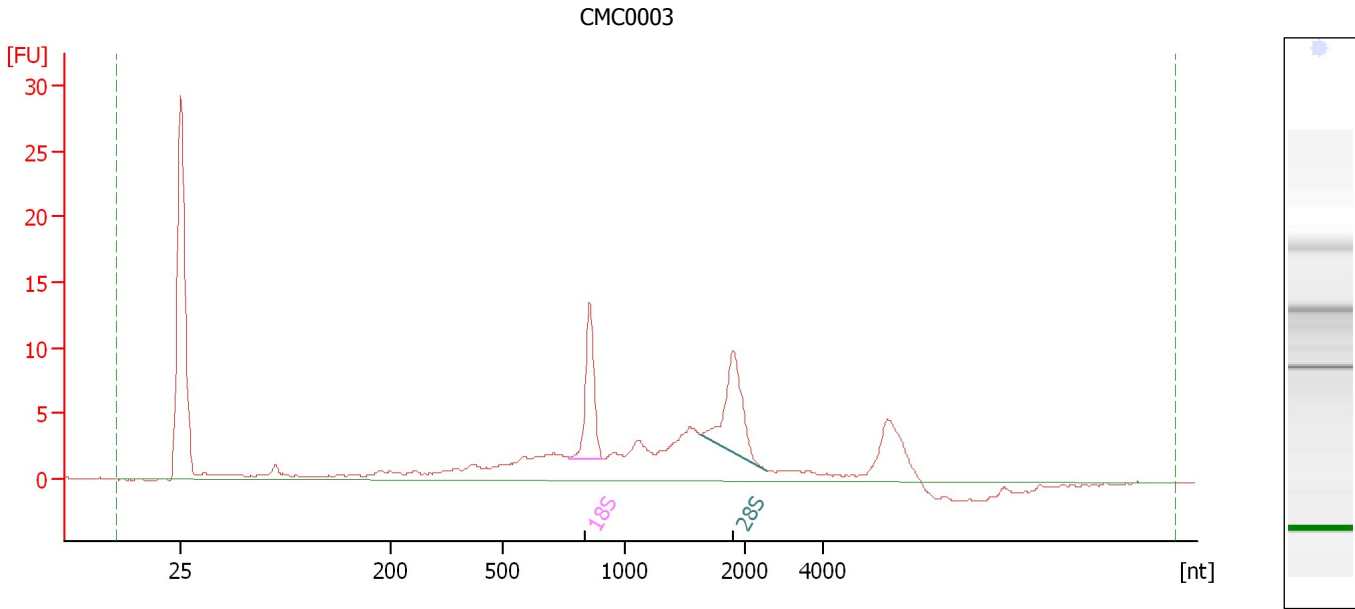
Fragment table for sample 7 : CMC0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	801	909	6.7	10.0
28S	1,654	2,558	9.9	14.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CMC0003

RNA Area:	128.3	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	1,009 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 6.90

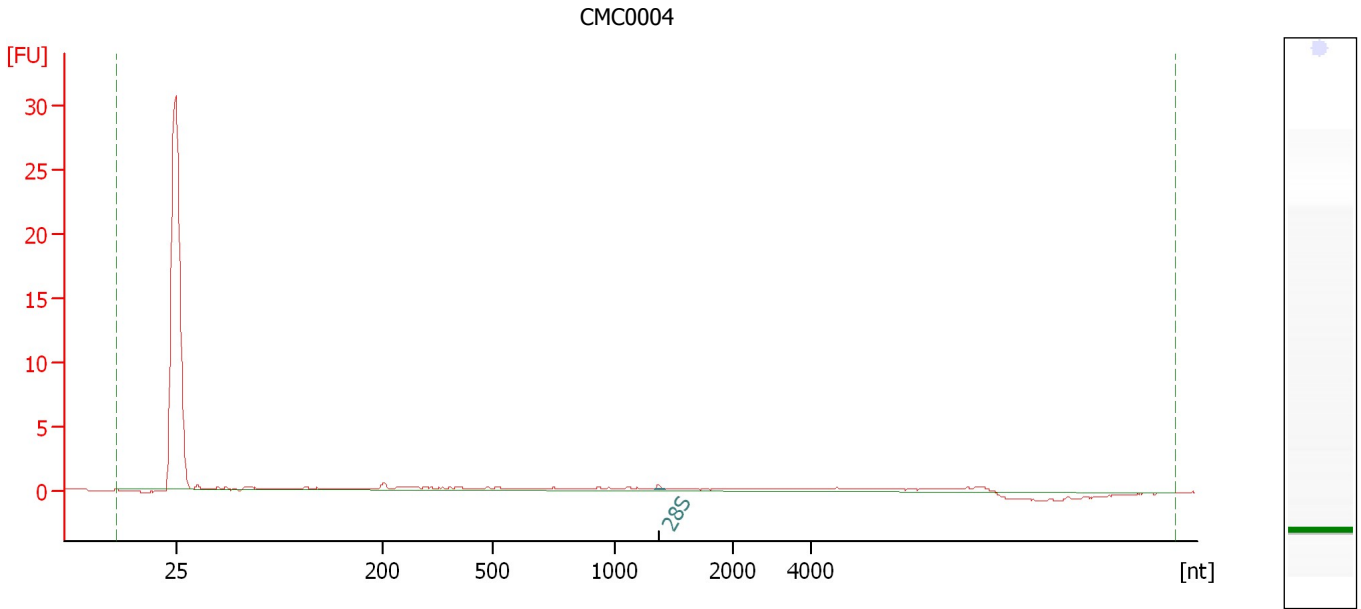
Fragment table for sample 8 : CMC0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	771	910	13.6	10.6
28S	1,640	2,560	14.9	11.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CMC0004

RNA Area:	15.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	122 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

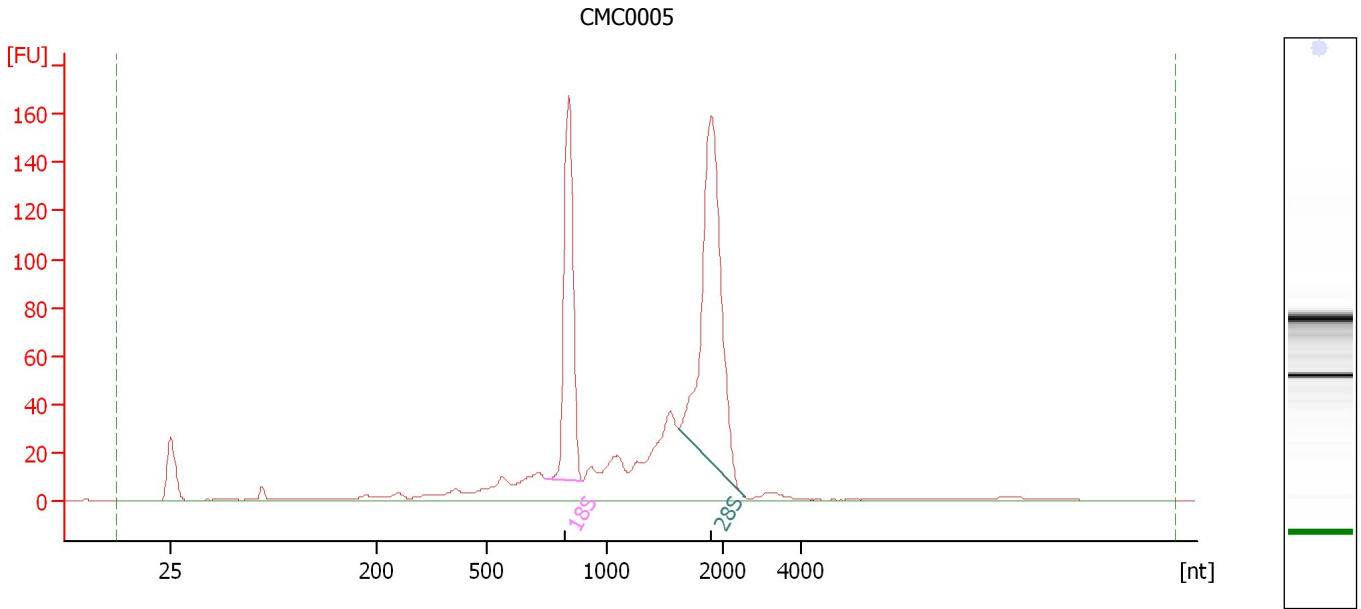
Fragment table for sample 9 : CMC0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,345	1,417	0.1	0.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMC0005

RNA Area:	983.9	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	7,733 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

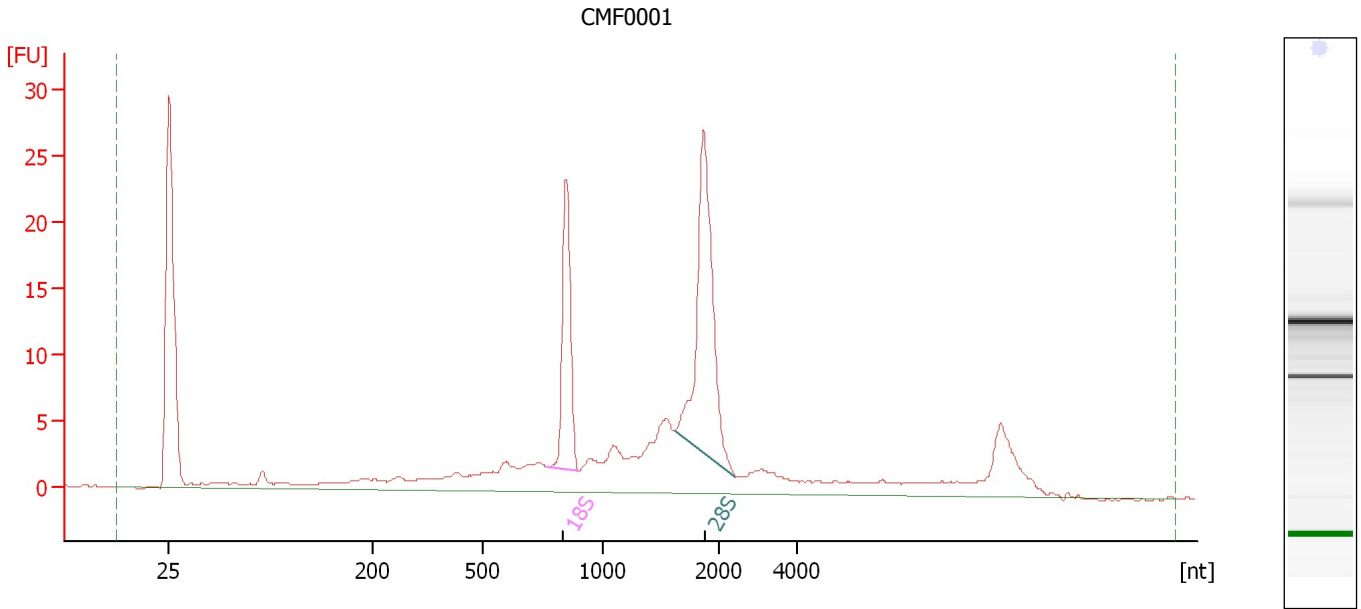
Fragment table for sample 10 : CMC0005

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	750	901	187.8	19.1
28S	1,619	2,532	313.9	31.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMF0001

RNA Area:	201.0	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	1,580 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.30

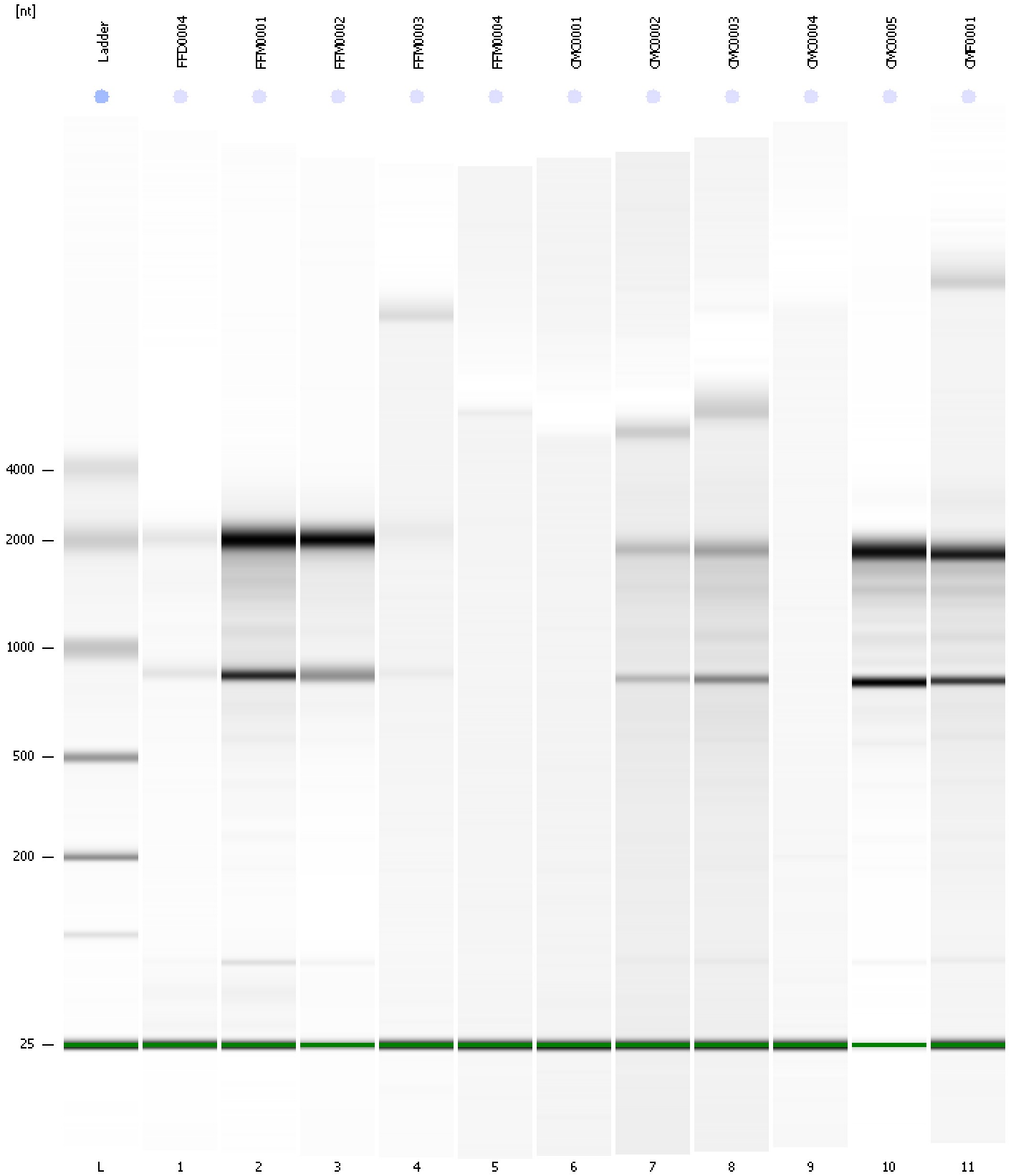
Fragment table for sample 11 : CMF0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	770	904	22.8	11.3
28S	1,620	2,433	43.7	21.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Gel Image

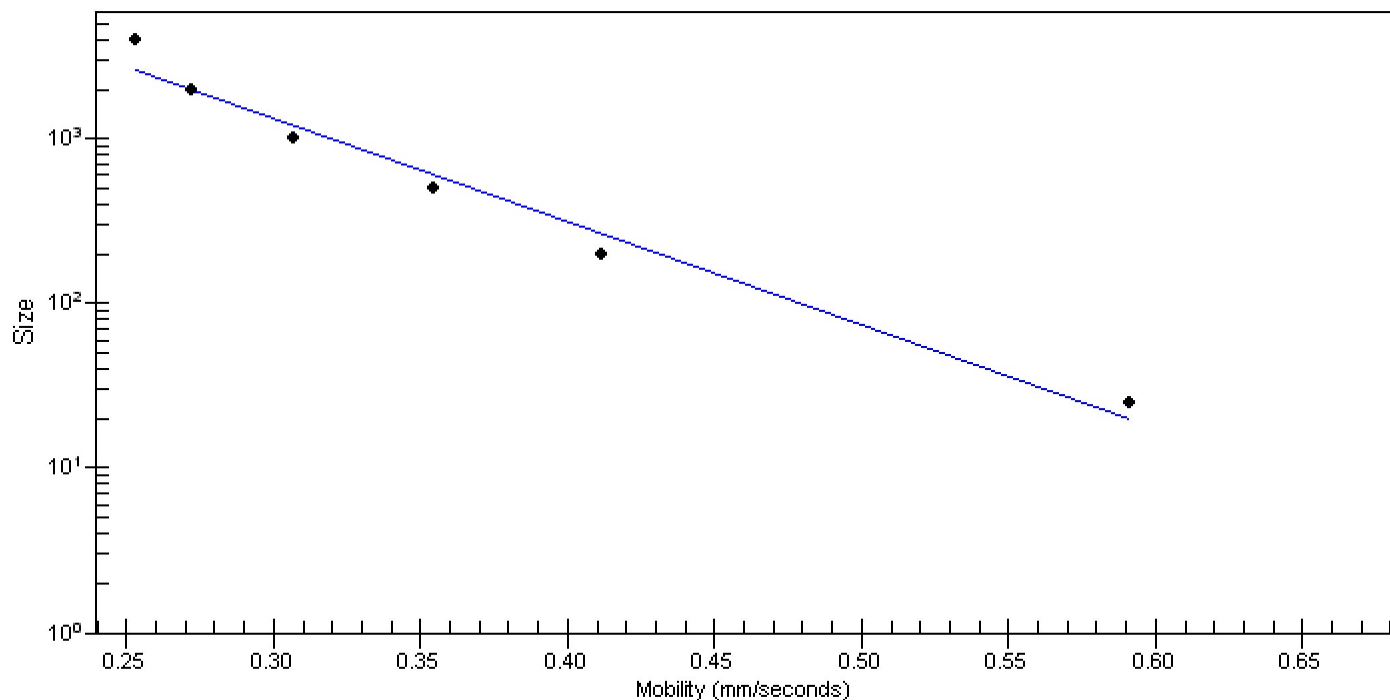


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
Modified: 9/16/2019 3:14:32 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad

Created: 9/16/2019 2:51:35 PM
 Modified: 9/16/2019 3:14:32 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		9/16/2019 3:14:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_003.xad)		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2019 2:51:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1