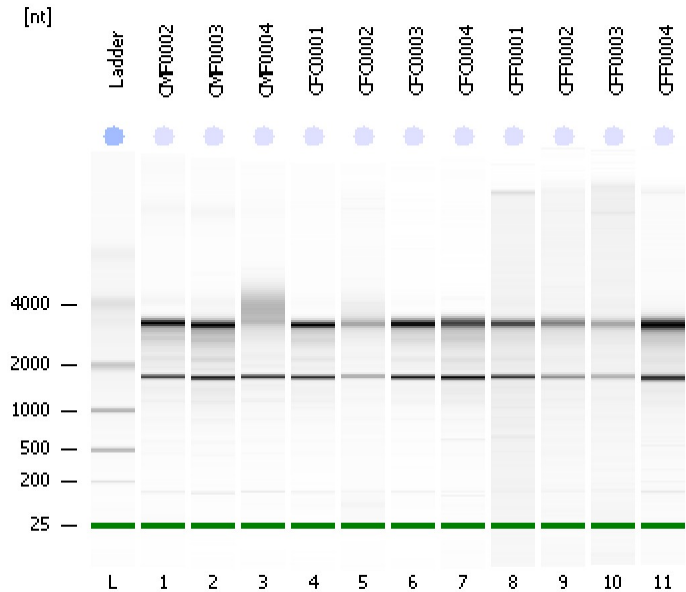


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 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

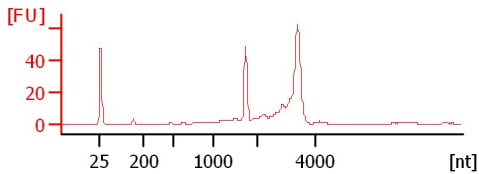
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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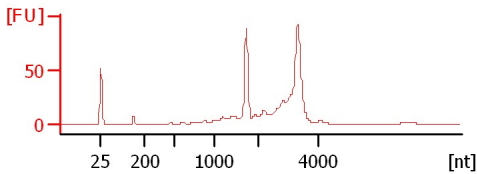
Chip Information:

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

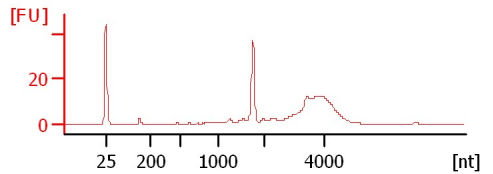
CMF0002
RIN: 9.30



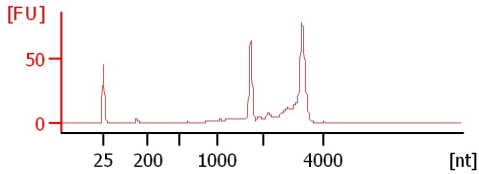
CMF0003
RIN: 8.70



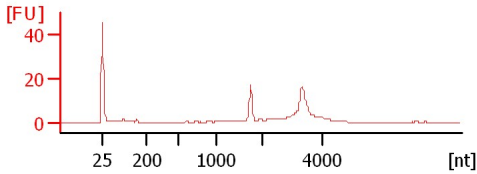
CMF0004
RIN: 7.50



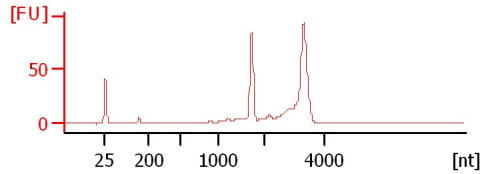
CFC0001
RIN: 9.20



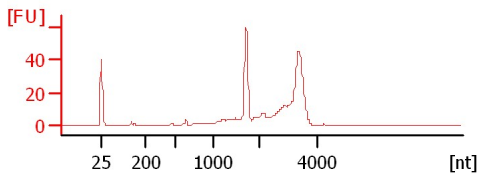
CFC0002
RIN: 9



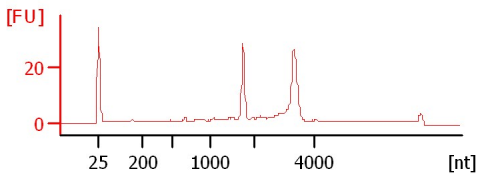
CFC0003
RIN: 9.50



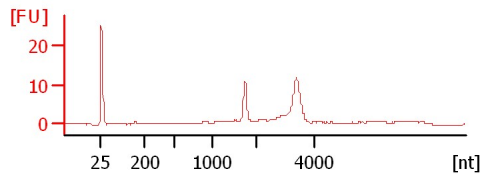
CFC0004
RIN: 9.40



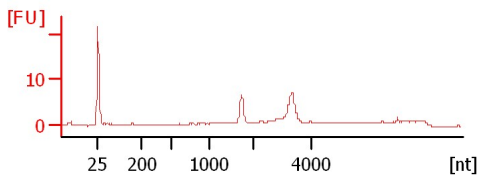
CFF0001
RIN: 8.50



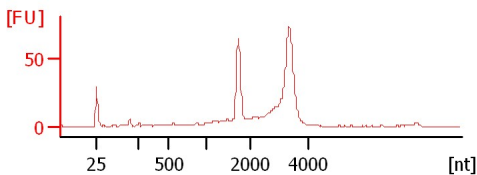
CFF0002
RIN: 8.70



CFF0003
RIN: 8.60



CFF0004
RIN: 9.60



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
 Modified: 9/16/2019 3:45:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CMF0002		✓	RIN: 9.30	
CMF0003		✓	RIN: 8.70	
CMF0004		✓	RIN: 7.50	
CFC0001		✓	RIN: 9.20	
CFC0002		✓	RIN:9	
CFC0003		✓	RIN: 9.50	
CFC0004		✓	RIN: 9.40	
CFF0001		✓	RIN: 8.50	
CFF0002		✓	RIN: 8.70	
CFF0003		✓	RIN: 8.60	
CFF0004		✓	RIN: 9.60	
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_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 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

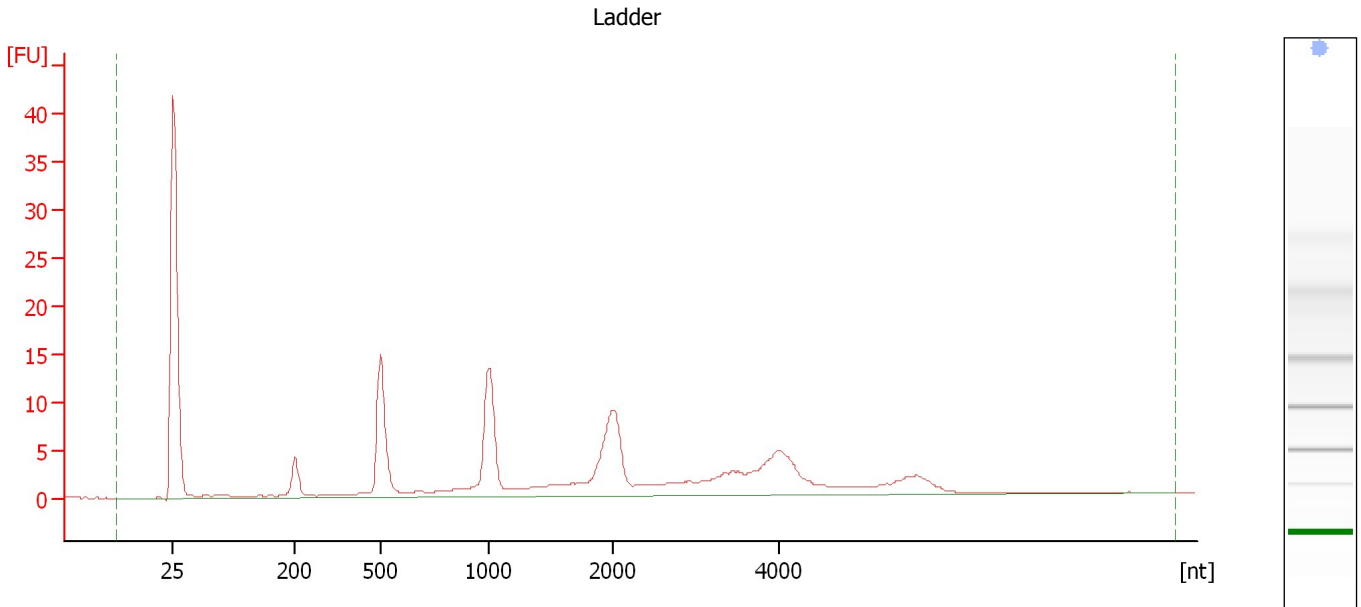
Ladder

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_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary



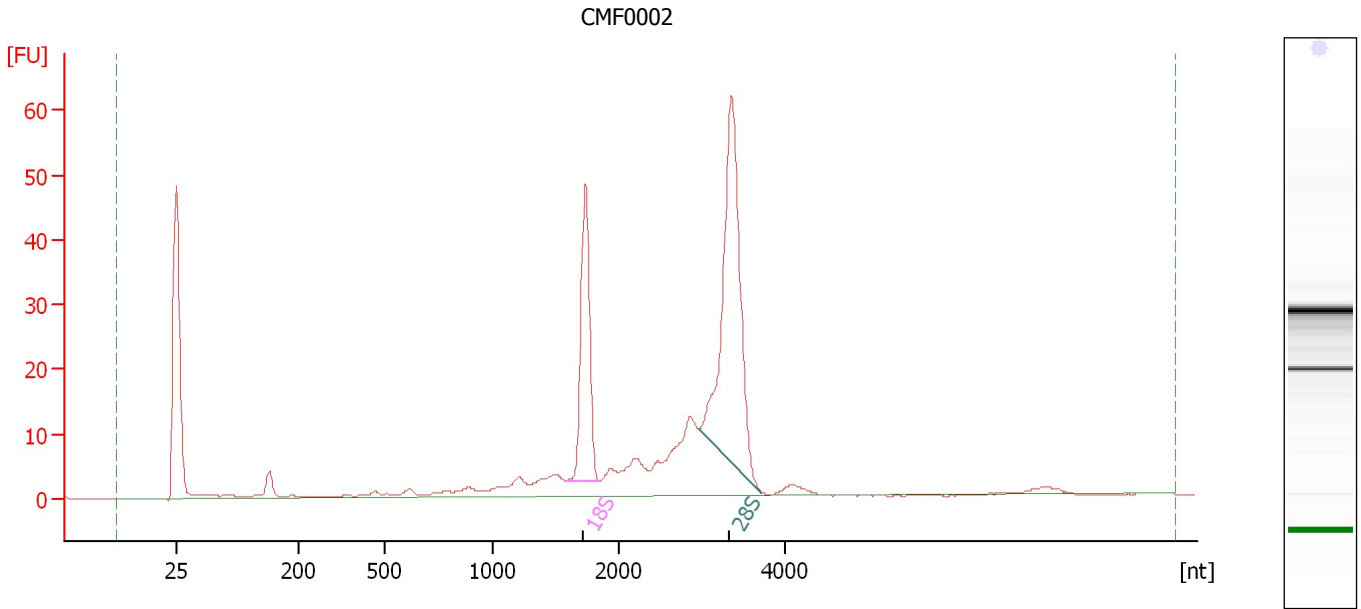
Overall Results for Ladder

RNA Area:	143.2	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_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CMF0002

RNA Area:	316.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,210 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.30

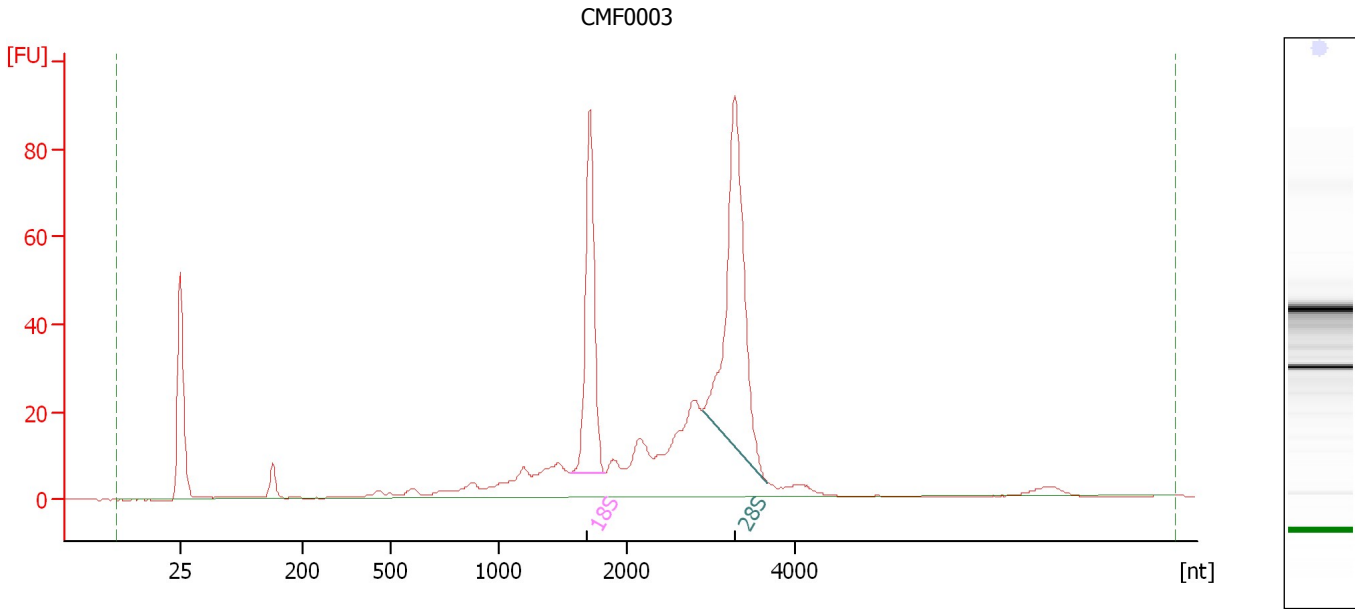
Fragment table for sample 1 : CMF0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,856	51.5	16.3
28S	2,965	3,723	108.3	34.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CMF0003

RNA Area:	594.1	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	4,148 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.70

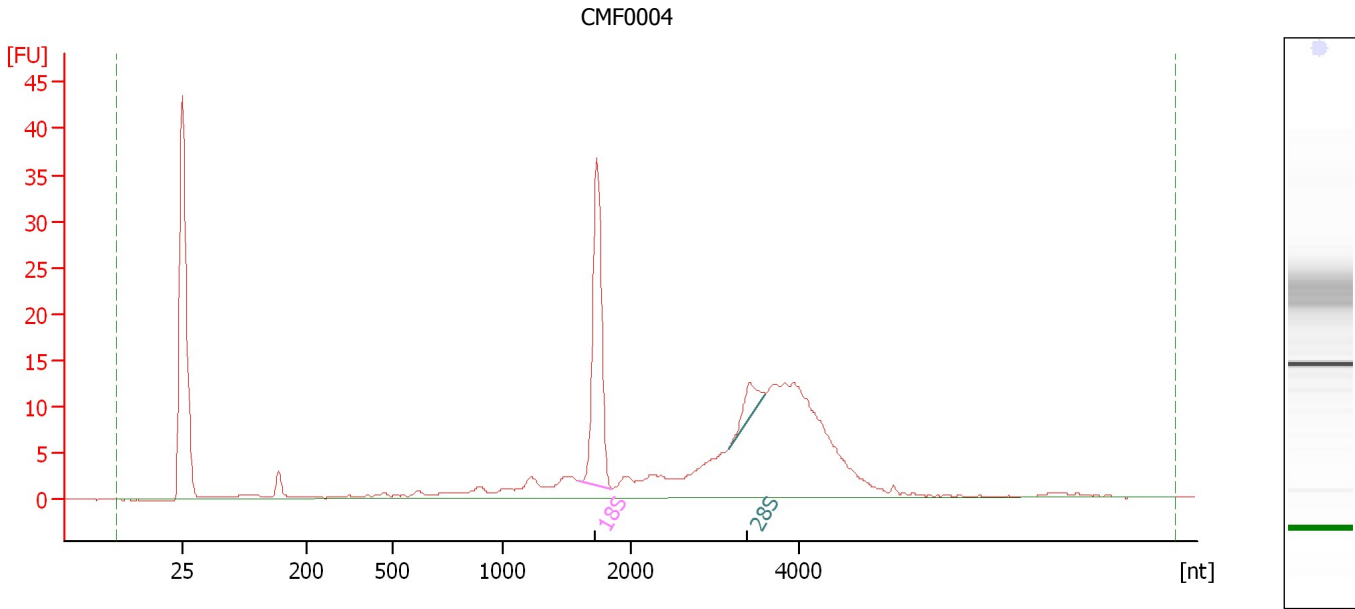
Fragment table for sample 2 : CMF0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,826	97.3	16.4
28S	2,909	3,685	155.3	26.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CMF0004

RNA Area: 232.5 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 1,623 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 7.50

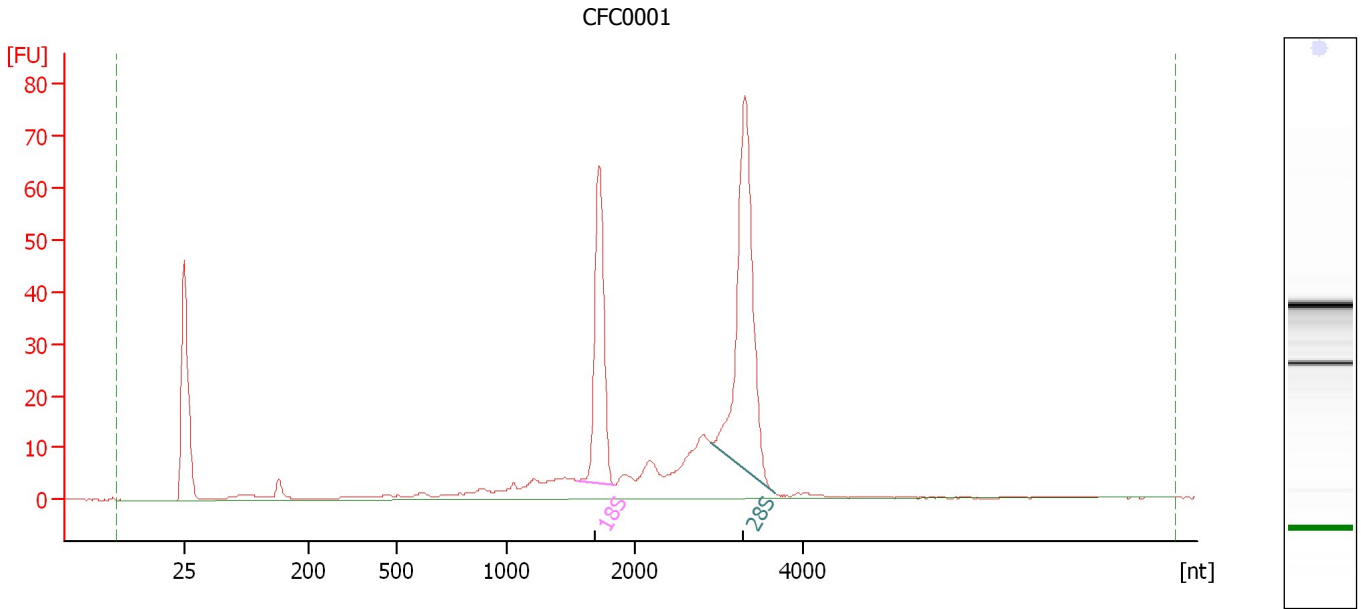
Fragment table for sample 3 : CMF0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,593	1,853	39.1	16.8
28S	3,160	3,604	5.3	2.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CFC0001

RNA Area:	368.3	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	2,571 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

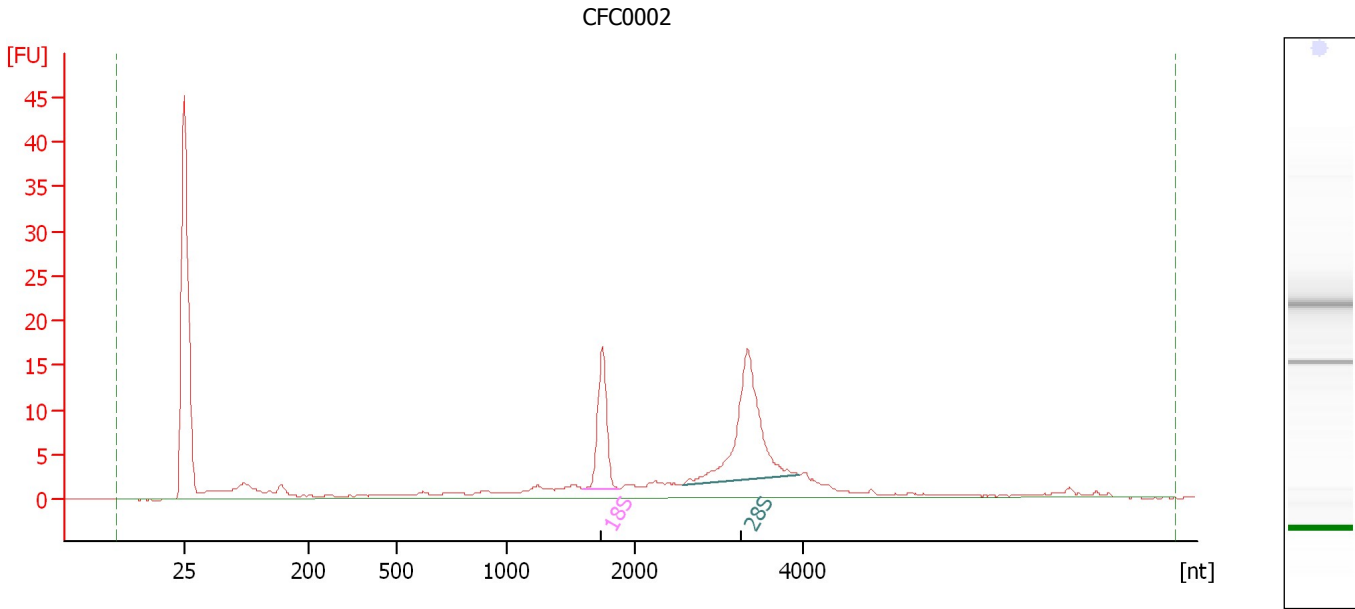
Fragment table for sample 4 : CFC0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,847	70.0	19.0
28S	2,904	3,661	120.9	32.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CFC0002

RNA Area:	150.5	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	1,051 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:9

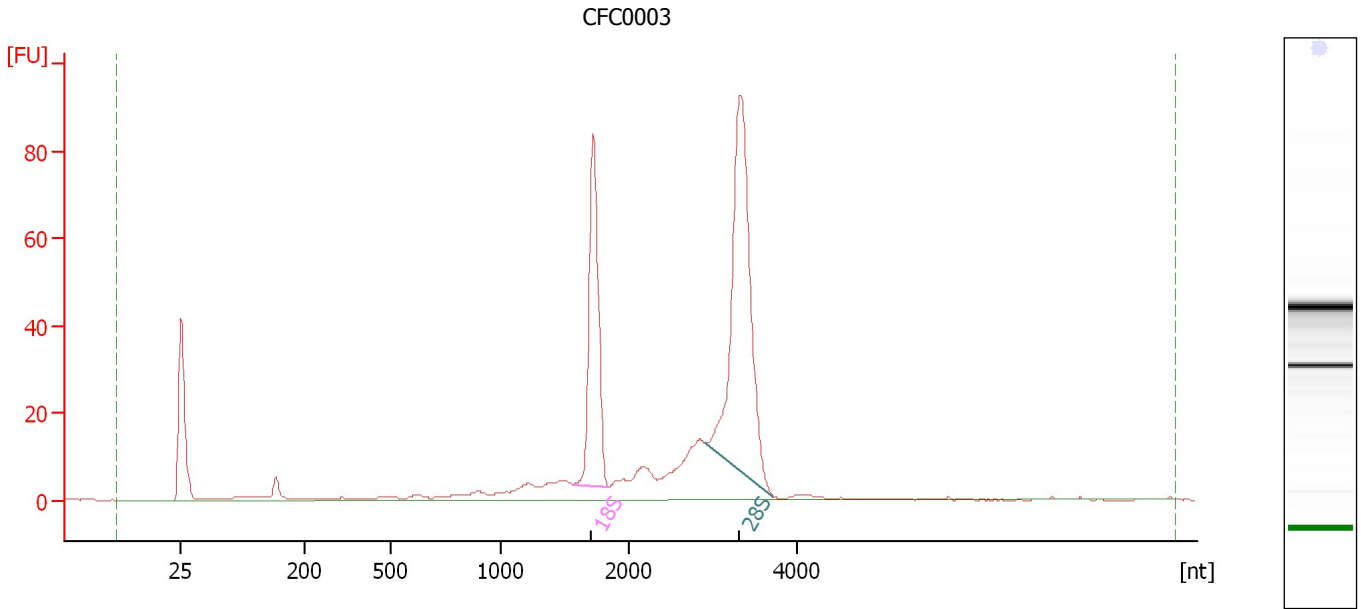
Fragment table for sample 5 : CFC0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	1,872	18.0	11.9
28S	2,564	3,952	36.8	24.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CFC0003

RNA Area:	472.3	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	3,298 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

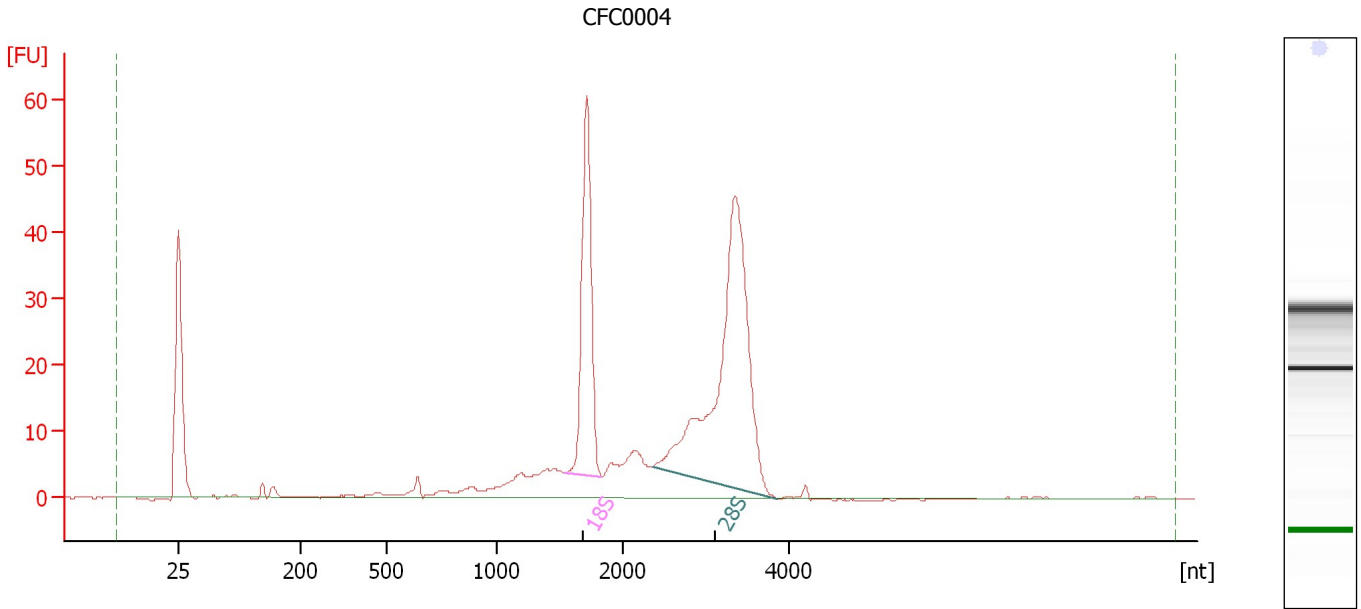
Fragment table for sample 6 : CFC0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,558	1,852	97.4	20.6
28S	2,920	3,721	173.6	36.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CFC0004

RNA Area: 349.9 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 2,443 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 9.40

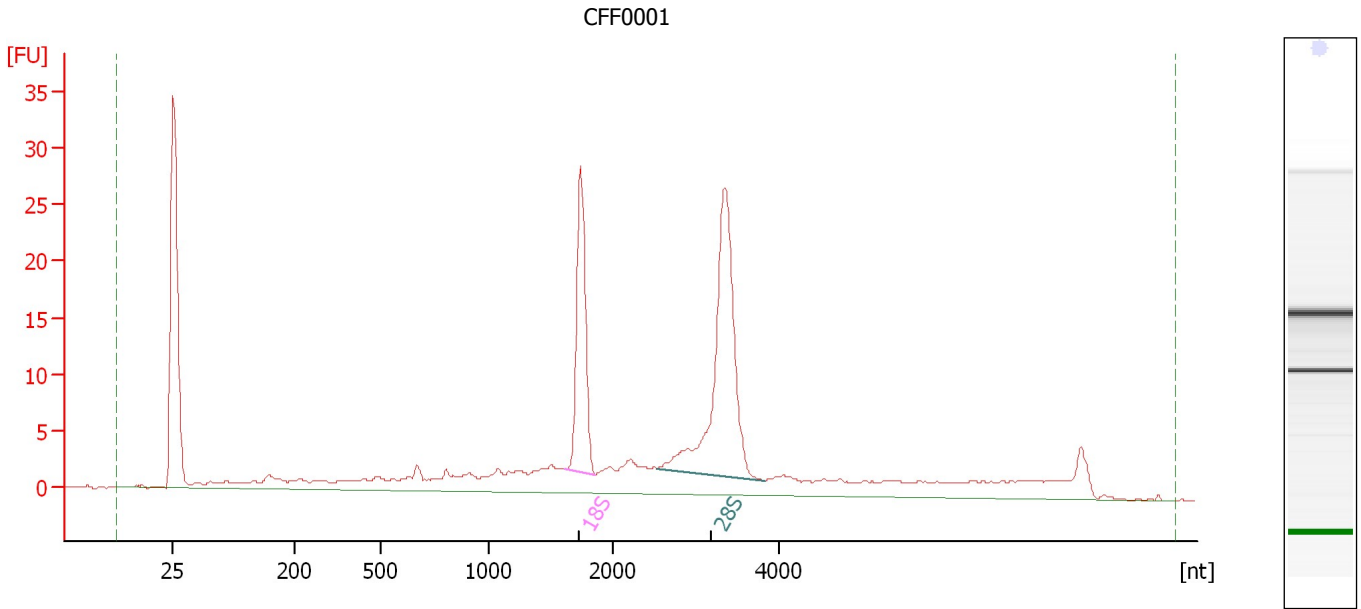
Fragment table for sample 7 : CFC0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	1,832	69.7	19.9
28S	2,361	3,845	150.3	43.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CFF0001

RNA Area:	228.3	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	1,594 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.50

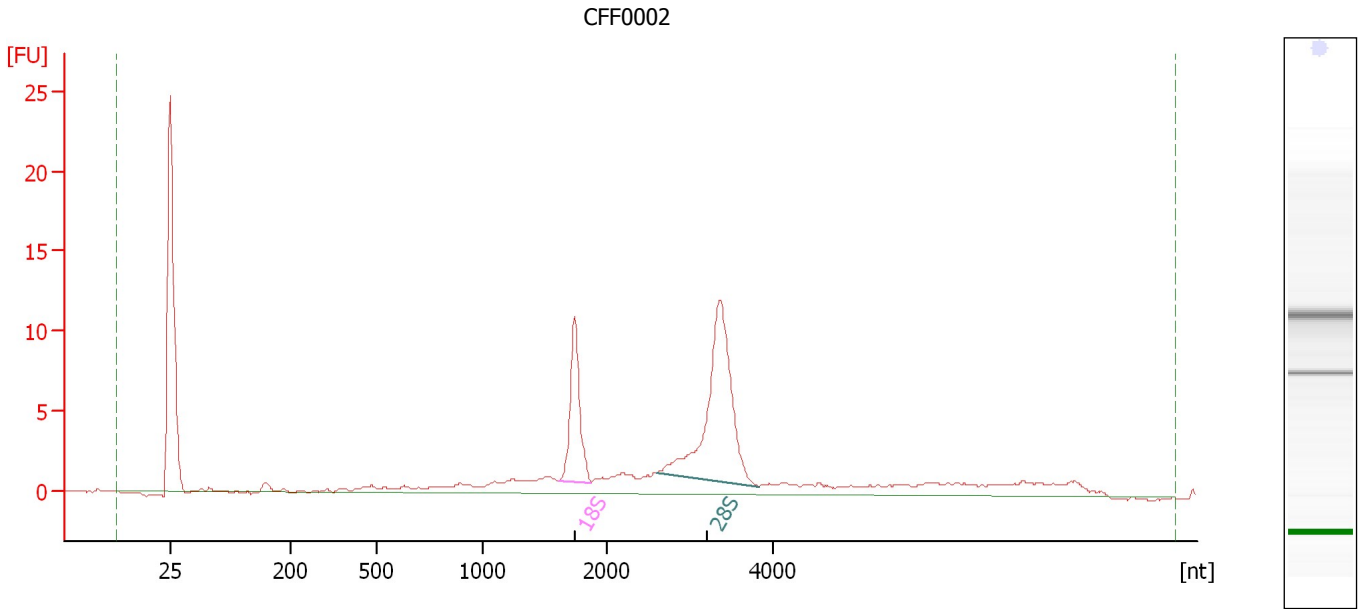
Fragment table for sample 8 : CFF0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,854	30.1	13.2
28S	2,529	3,819	56.1	24.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CFF0002

RNA Area:	96.2	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	672 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 8.70

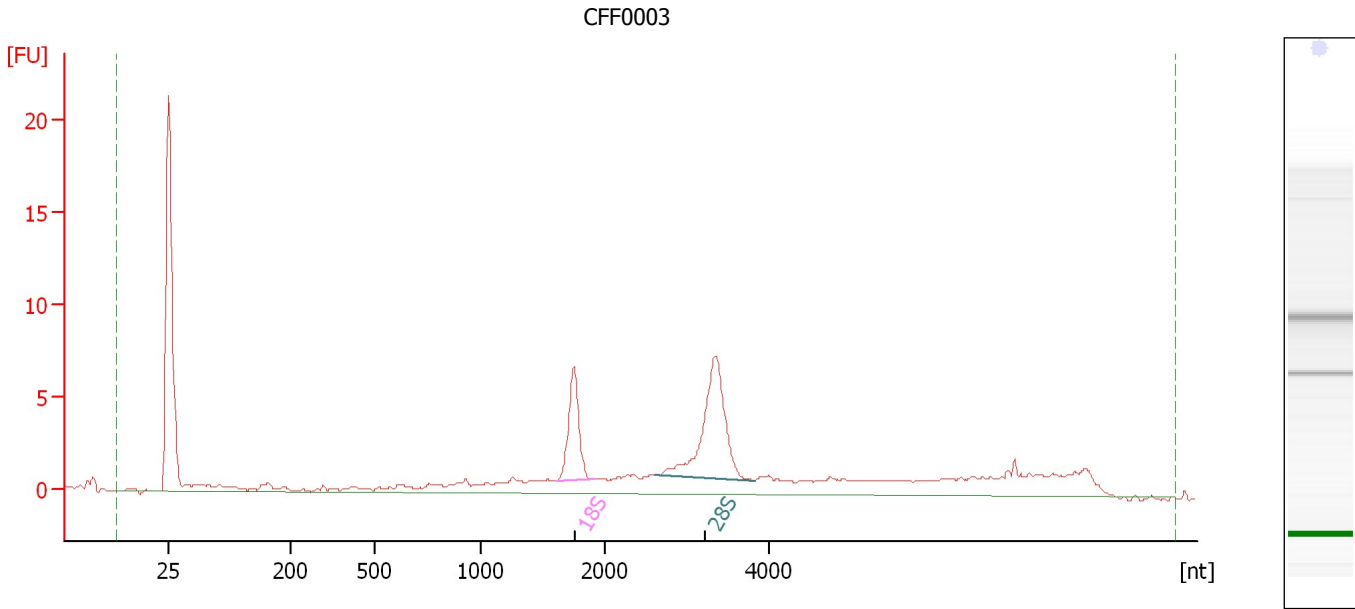
Fragment table for sample 9 : CFF0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,869	12.9	13.4
28S	2,594	3,829	30.7	31.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
 Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CFF0003

RNA Area:	84.9	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	592 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.60

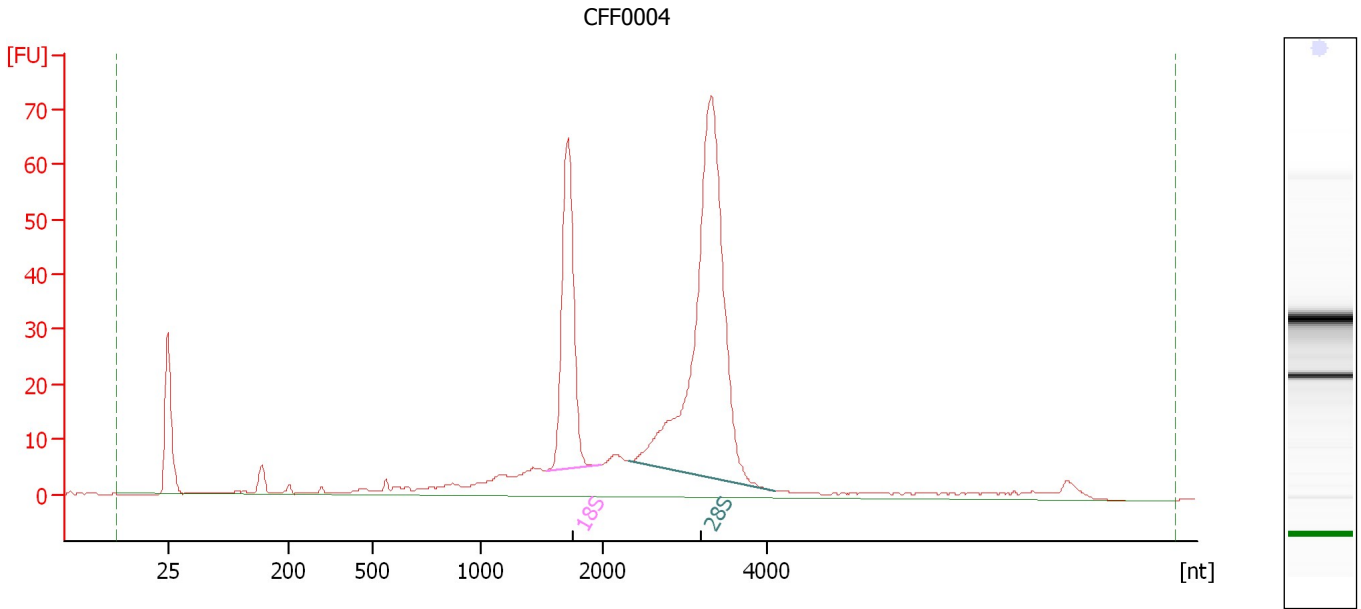
Fragment table for sample 10 : CFF0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,919	8.5	10.0
28S	2,608	3,819	16.6	19.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CFF0004

RNA Area: 534.4 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 3,731 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 9.60

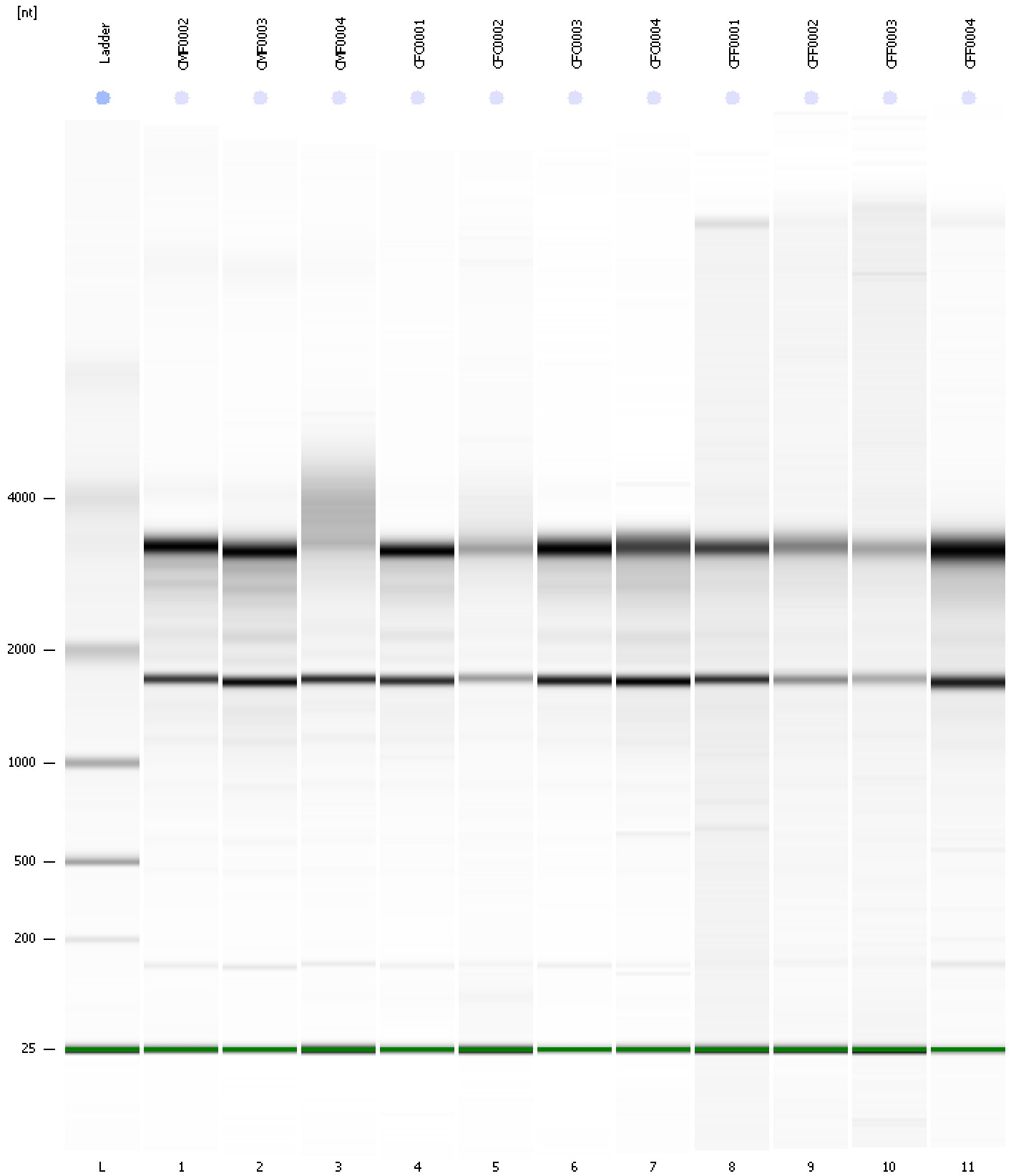
Fragment table for sample 11 : CFF0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,538	1,979	92.8	17.4
28S	2,308	4,096	229.2	42.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Gel Image

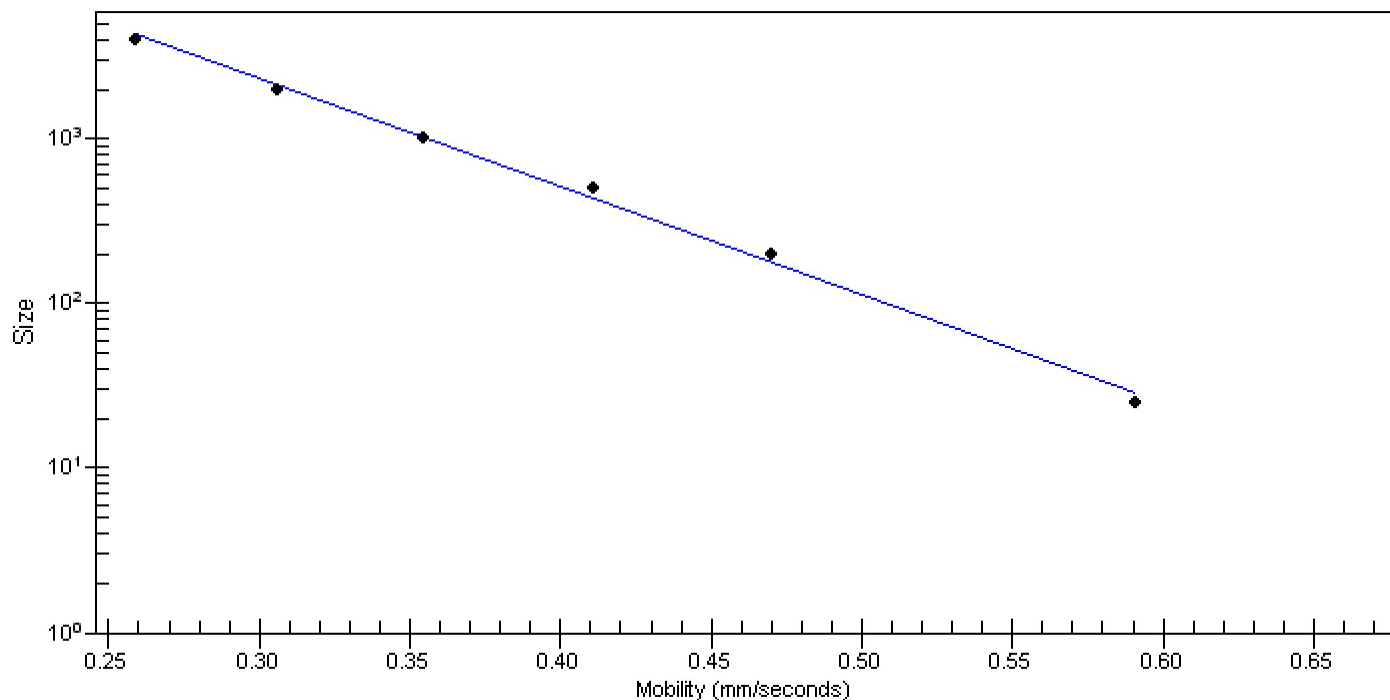


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
Modified: 9/16/2019 3:45:39 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_004.xad

Created: 9/16/2019 3:23:34 PM
 Modified: 9/16/2019 3:45:39 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 3:45:37 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_004.xad)		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2019 3:23:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1