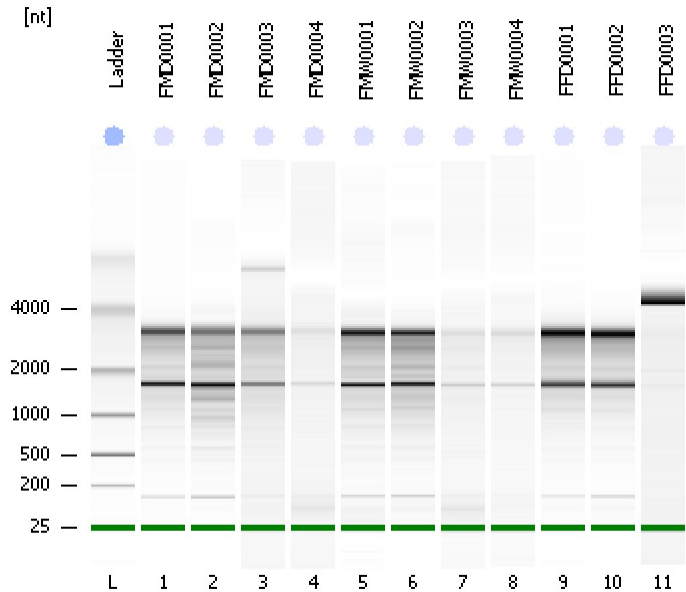


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electrophoresis File Run Summary



Instrument Information:

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

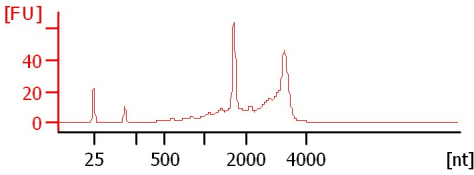
Assay Information:

Assay Origin Path: C:\Program Files\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.

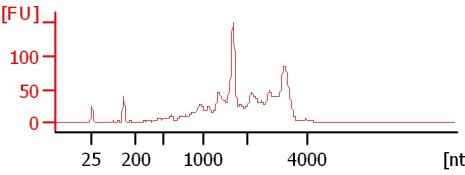
Chip Information:

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

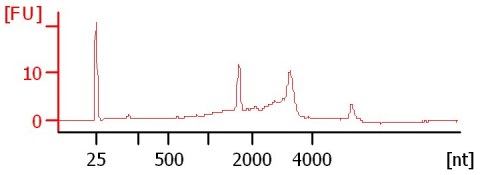
FMD0001
RIN: 7.80



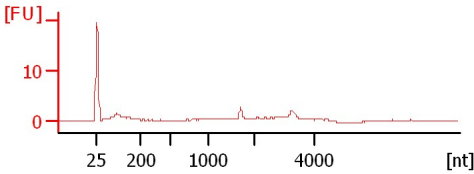
FMD0002
RIN: 6.40



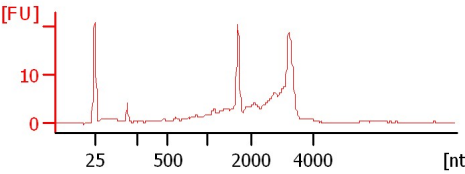
FMD0003
RIN: 8



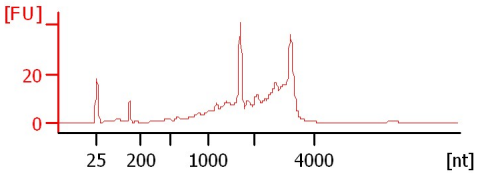
FMD0004
RIN: 5.50



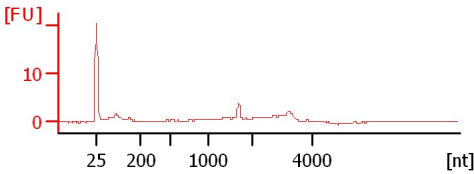
FMW0001
RIN: 7.80



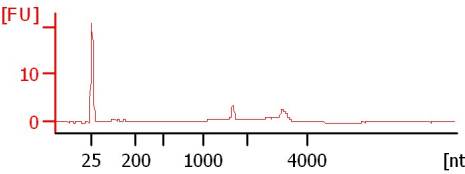
FMW0002
RIN: 6.90



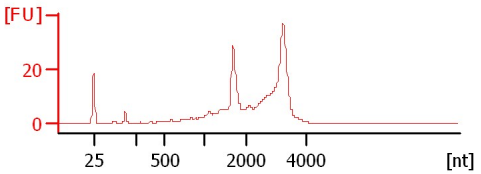
FMW0003
RIN: 5.60



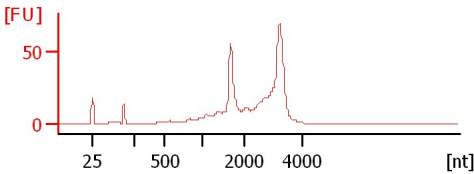
FMW0004
RIN: 6.70



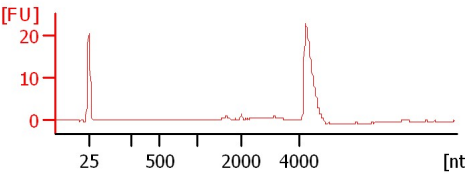
FFD0001
RIN: 9.20



FFD0002
RIN: 8.30



FFD0003
RIN: 3



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
 Modified: 9/16/2019 2:33:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
FMD0001		✓	RIN: 7.80	
FMD0002		✓	RIN: 6.40	
FMD0003		✓	RIN:8	
FMD0004		✓	RIN: 5.50	
FMW0001		✓	RIN: 7.80	
FMW0002		✓	RIN: 6.90	
FMW0003		✓	RIN: 5.60	
FMW0004		✓	RIN: 6.70	
FFD0001		✓	RIN: 9.20	
FFD0002		✓	RIN: 8.30	
FFD0003		✓	RIN:3	
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_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 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/ 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

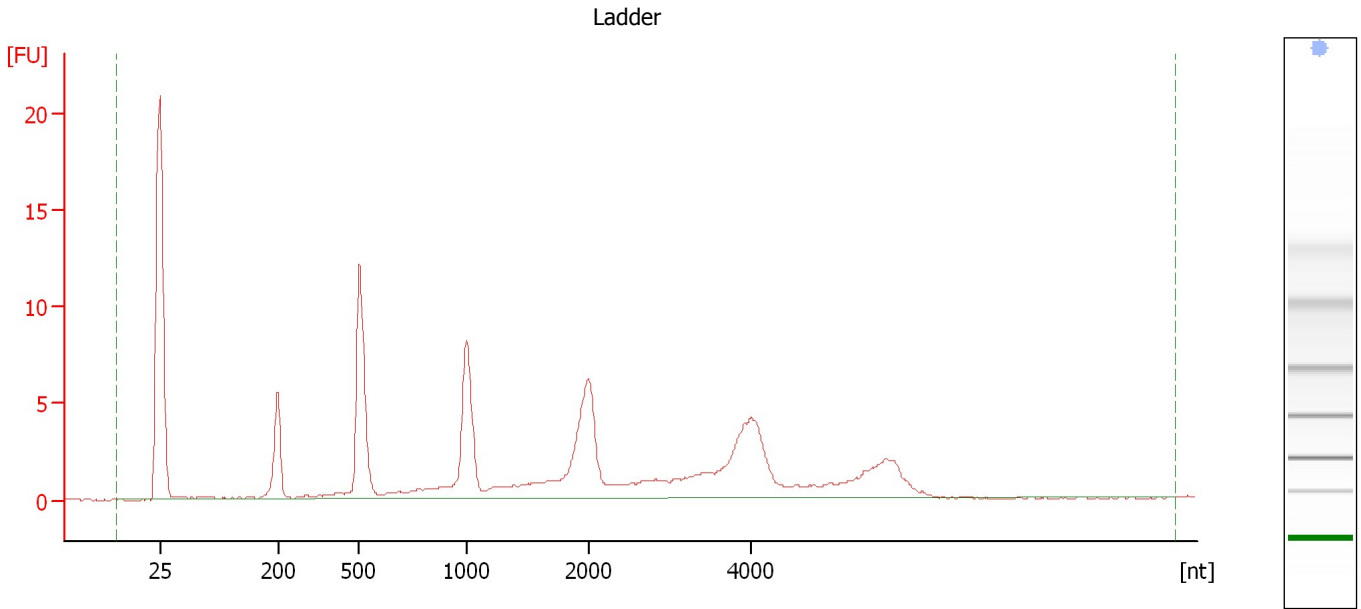
Ladder

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_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary



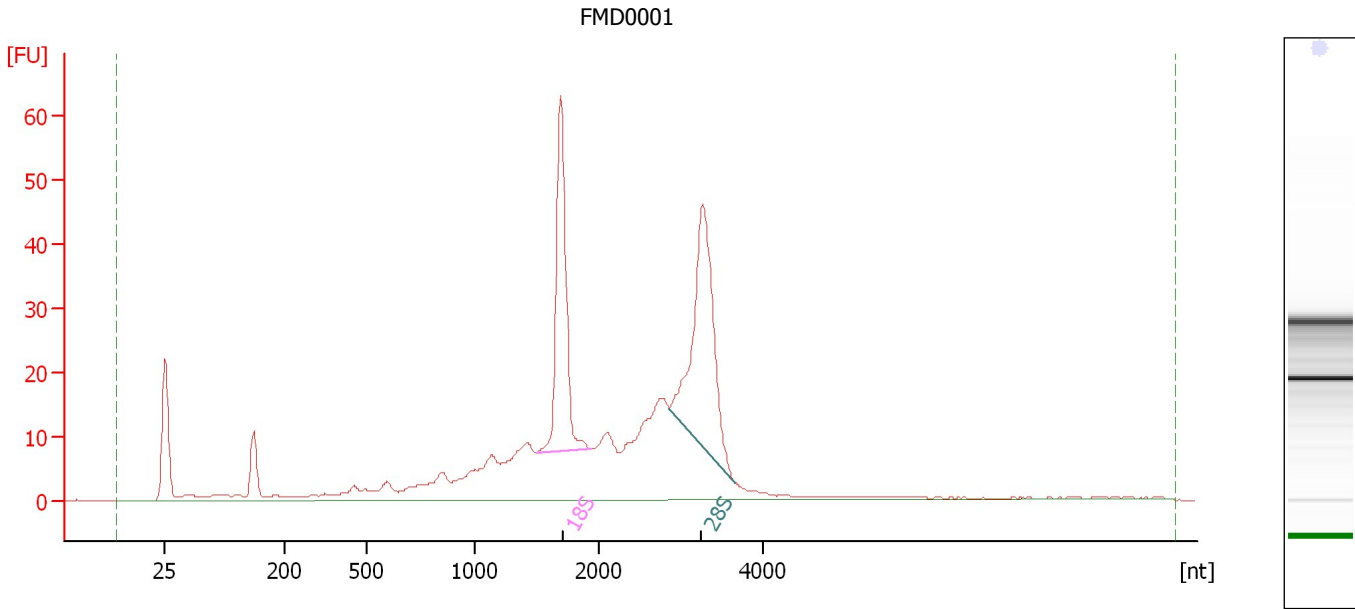
Overall Results for Ladder

RNA Area:	105.3	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_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : FMD0001

RNA Area: 505.7 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 4,802 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.80

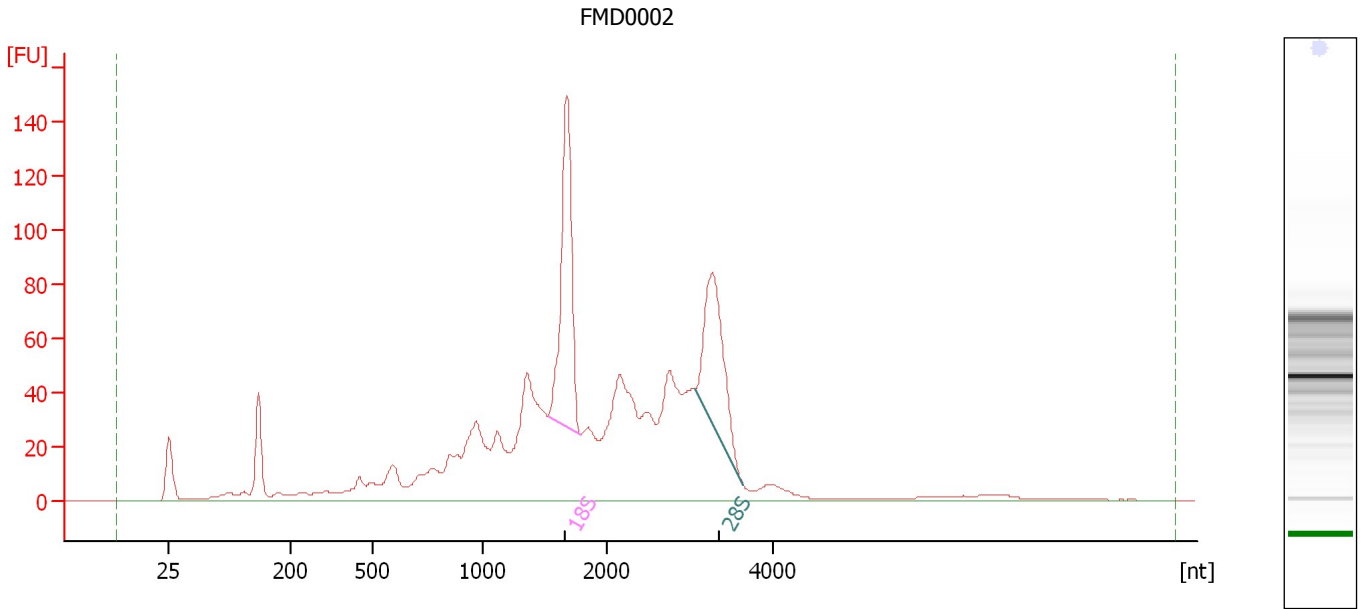
Fragment table for sample 1 : FMD0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,942	73.8	14.6
28S	2,857	3,645	88.3	17.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : FMD0002

RNA Area: 1,524.8 RNA Integrity Number (RIN): 6.4 (B.02.08)
RNA Concentration: 14,478 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.40

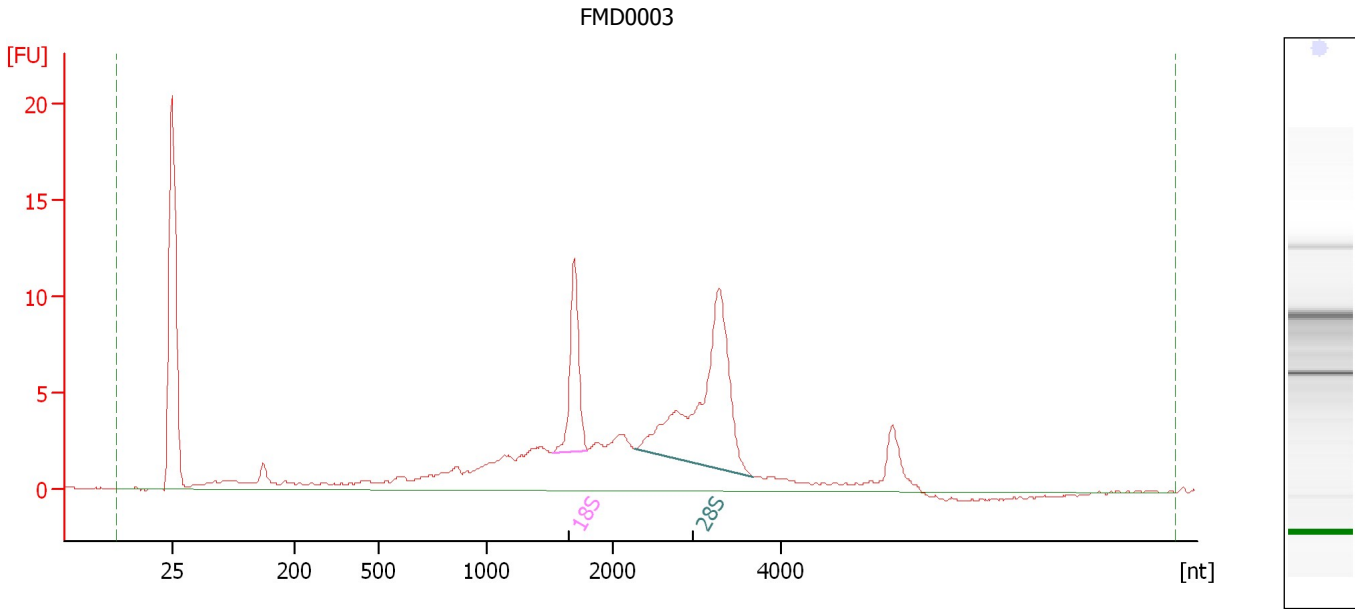
Fragment table for sample 2 : FMD0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,790	167.3	11.0
28S	3,057	3,633	121.5	8.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : FMD0003

RNA Area: 130.3 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 1,237 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.8 Result Flagging Label: RIN:8

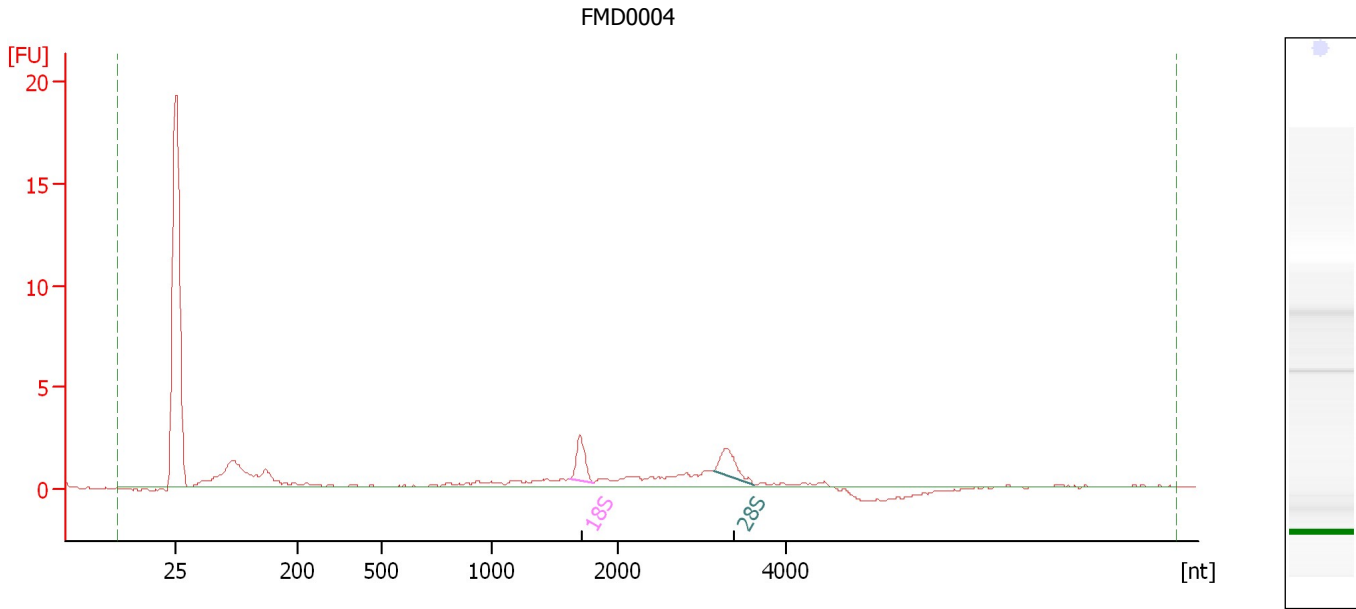
Fragment table for sample 3 : FMD0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,511	1,793	11.8	9.1
28S	2,251	3,676	32.8	25.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : FMD0004

RNA Area: 32.4 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 307 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 5.50

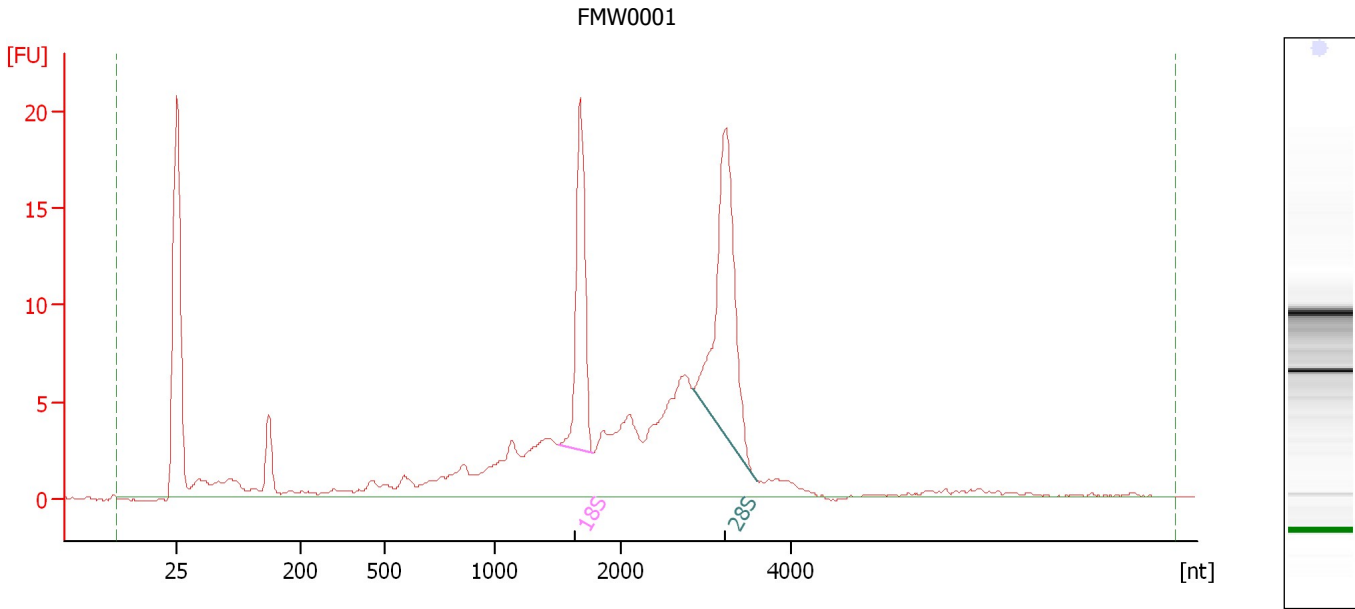
Fragment table for sample 4 : FMD0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	1,804	2.5	7.6
28S	3,126	3,619	2.3	7.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : FMW0001

RNA Area: 186.2 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 1,768 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.80

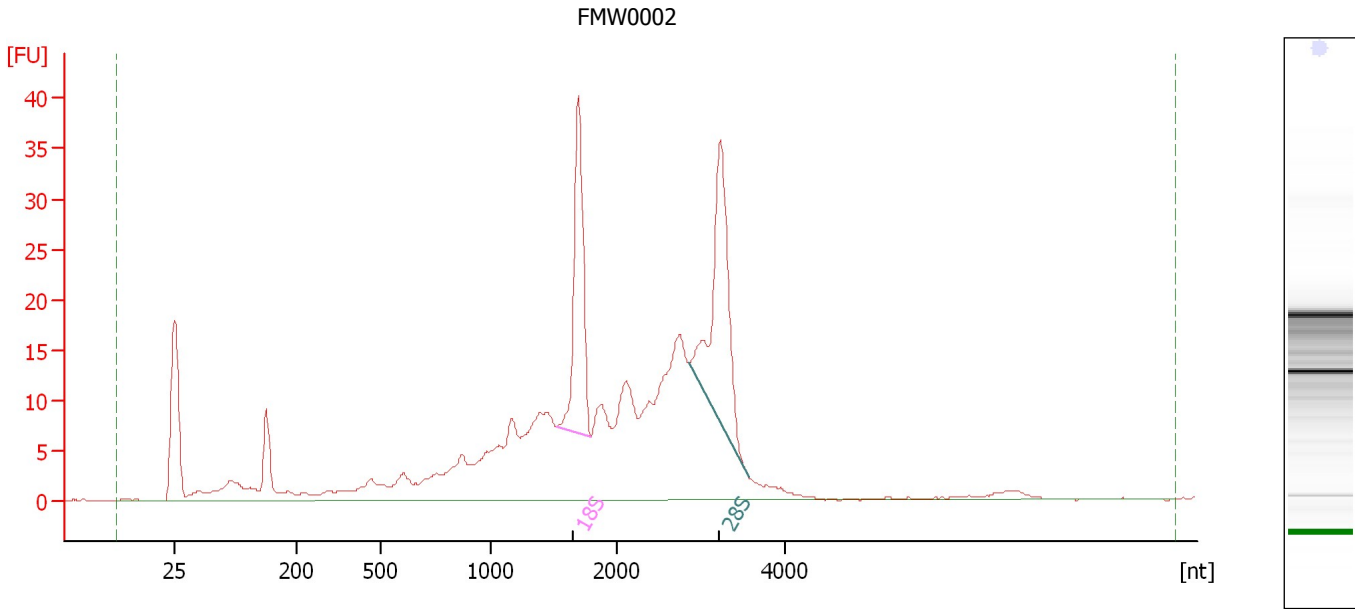
Fragment table for sample 5 : FMW0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,501	1,772	20.4	11.0
28S	2,845	3,588	32.6	17.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : FMW0002

RNA Area: 428.6 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 4,070 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 6.90

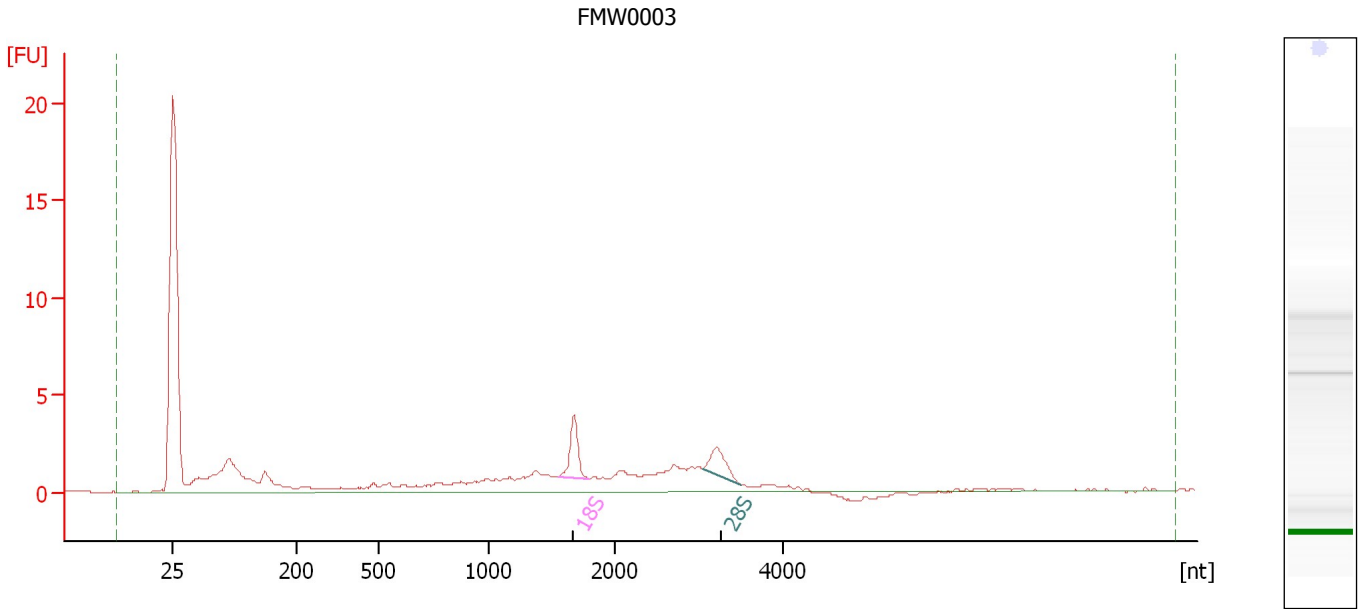
Fragment table for sample 6 : FMW0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,515	1,795	40.1	9.4
28S	2,847	3,556	50.9	11.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FMW0003

RNA Area: 57.2 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 543 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 5.60

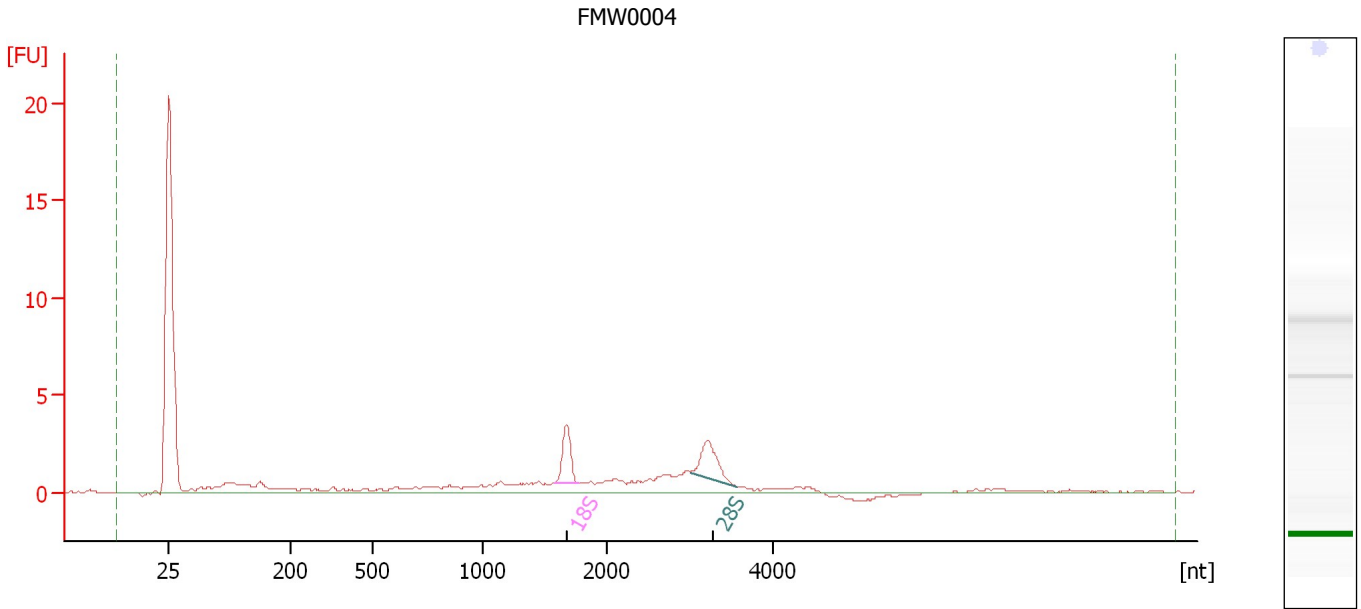
Fragment table for sample 7 : FMW0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,794	3.6	6.2
28S	3,038	3,495	2.5	4.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : FMW0004

RNA Area: 39.7 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 377 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 6.70

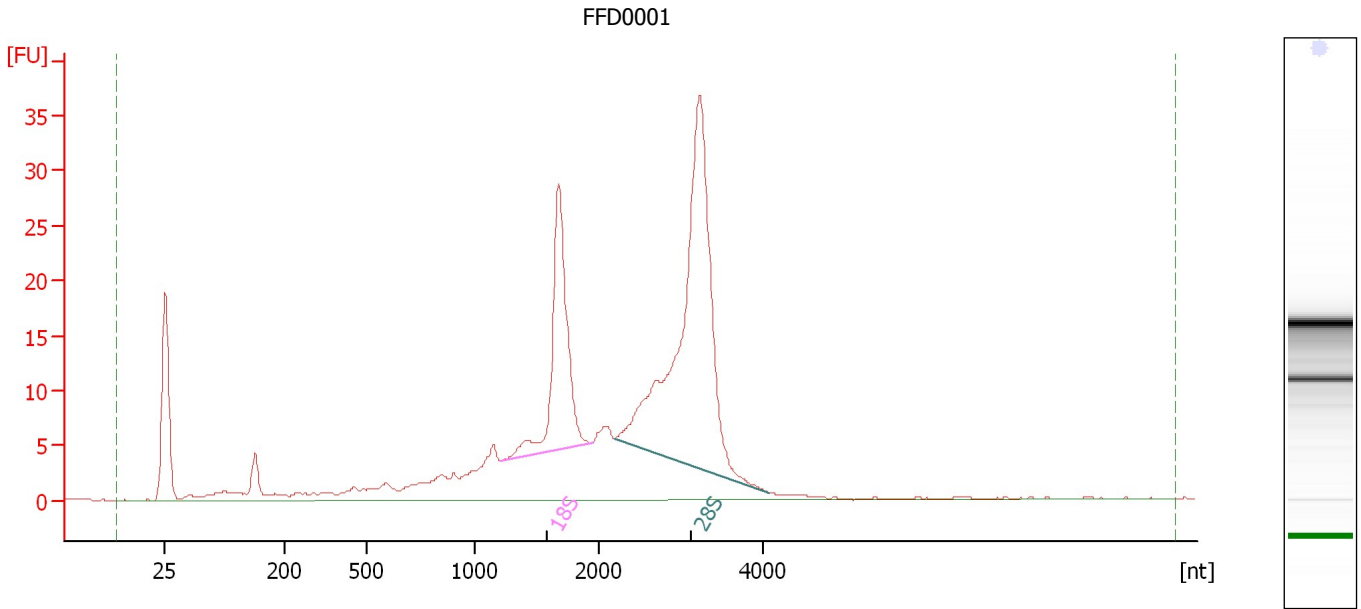
Fragment table for sample 8 : FMW0004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,773	3.2	8.0
28S	3,006	3,569	3.6	9.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : FFD0001

RNA Area:	343.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	3,265 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.20

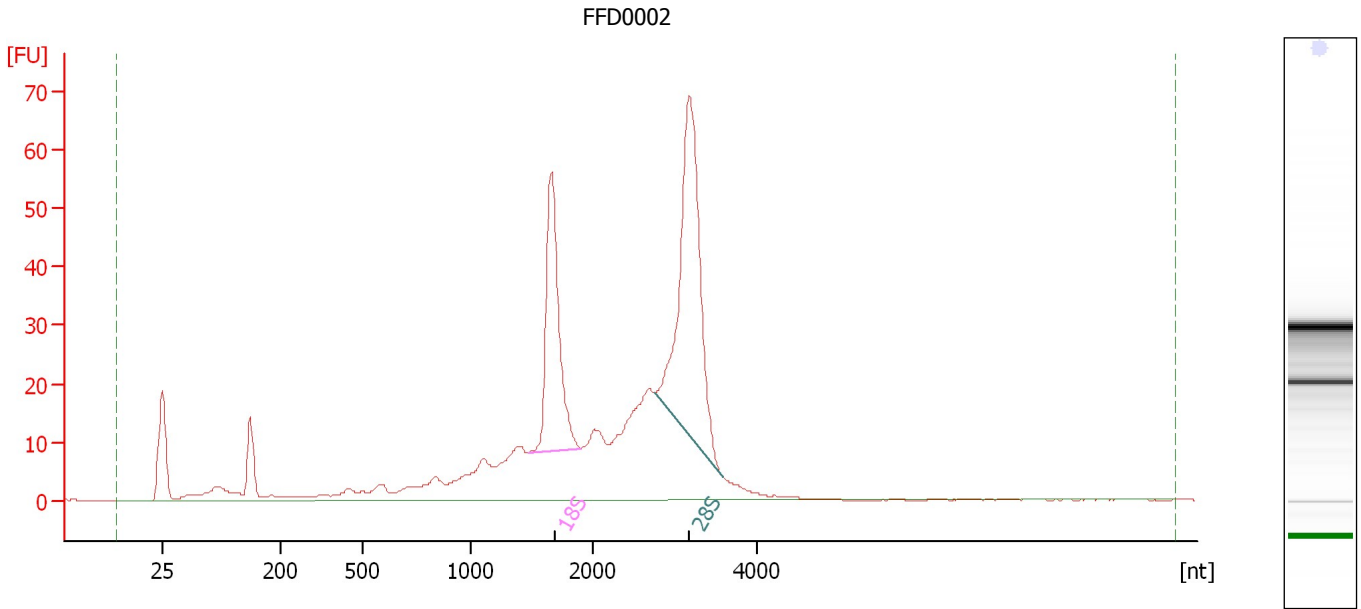
Fragment table for sample 9 : FFD0001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,205	1,950	48.0	14.0
28S	2,198	4,058	118.0	34.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : FFD0002

RNA Area:	604.8	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	5,743 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.30

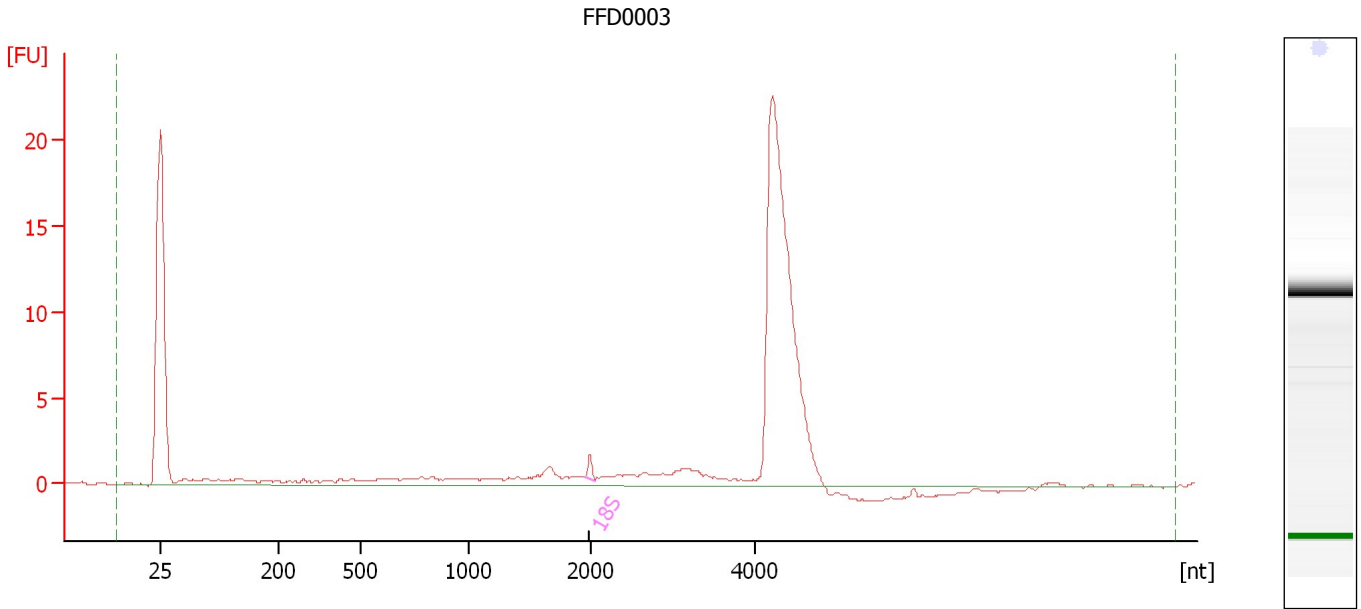
Fragment table for sample 10 : FFD0002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,477	1,913	80.4	13.3
28S	2,756	3,589	136.1	22.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : FFD0003

RNA Area:	86.2	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	818 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:3

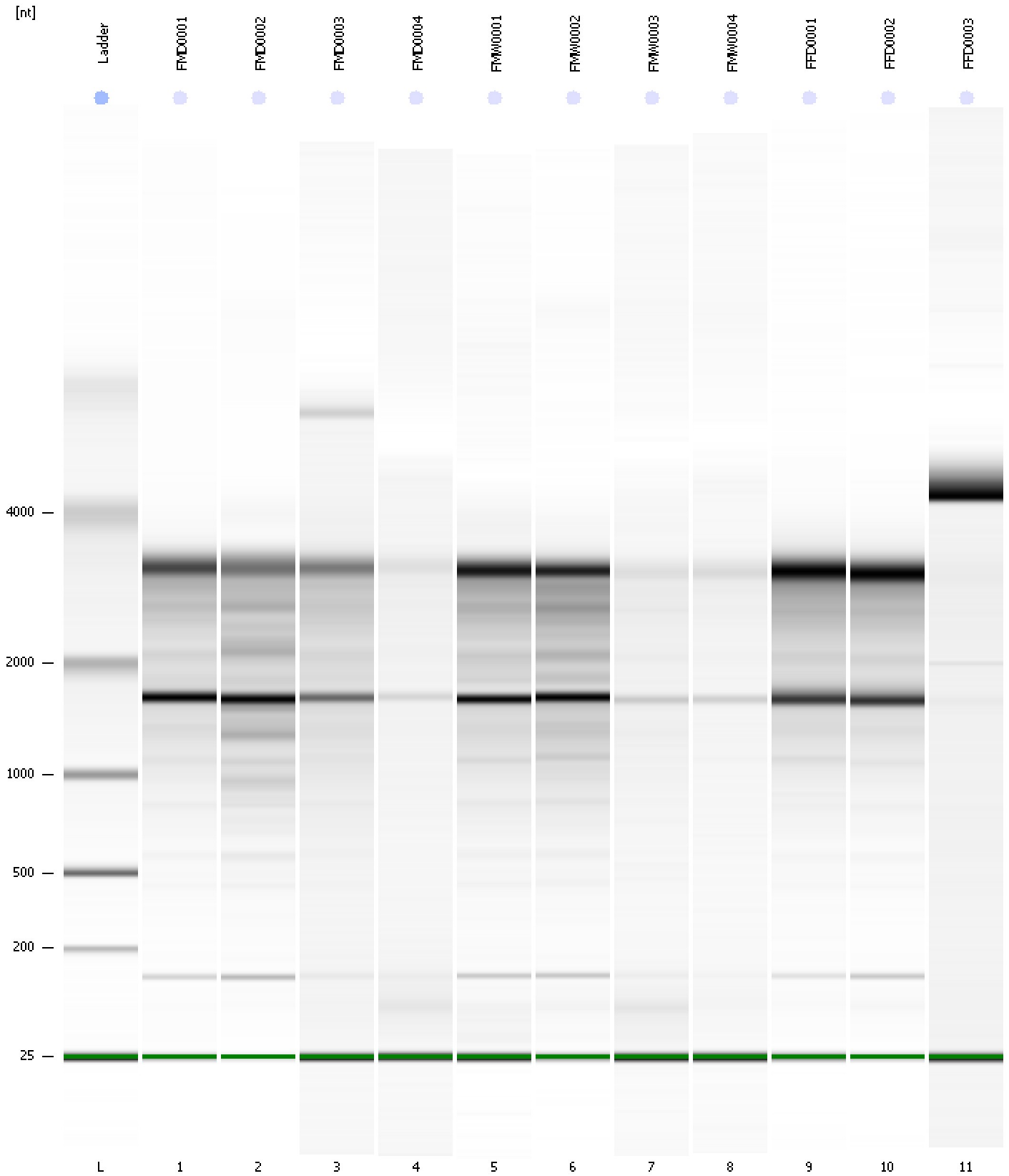
Fragment table for sample 11 : FFD0003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,956	2,066	0.8	0.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Gel Image

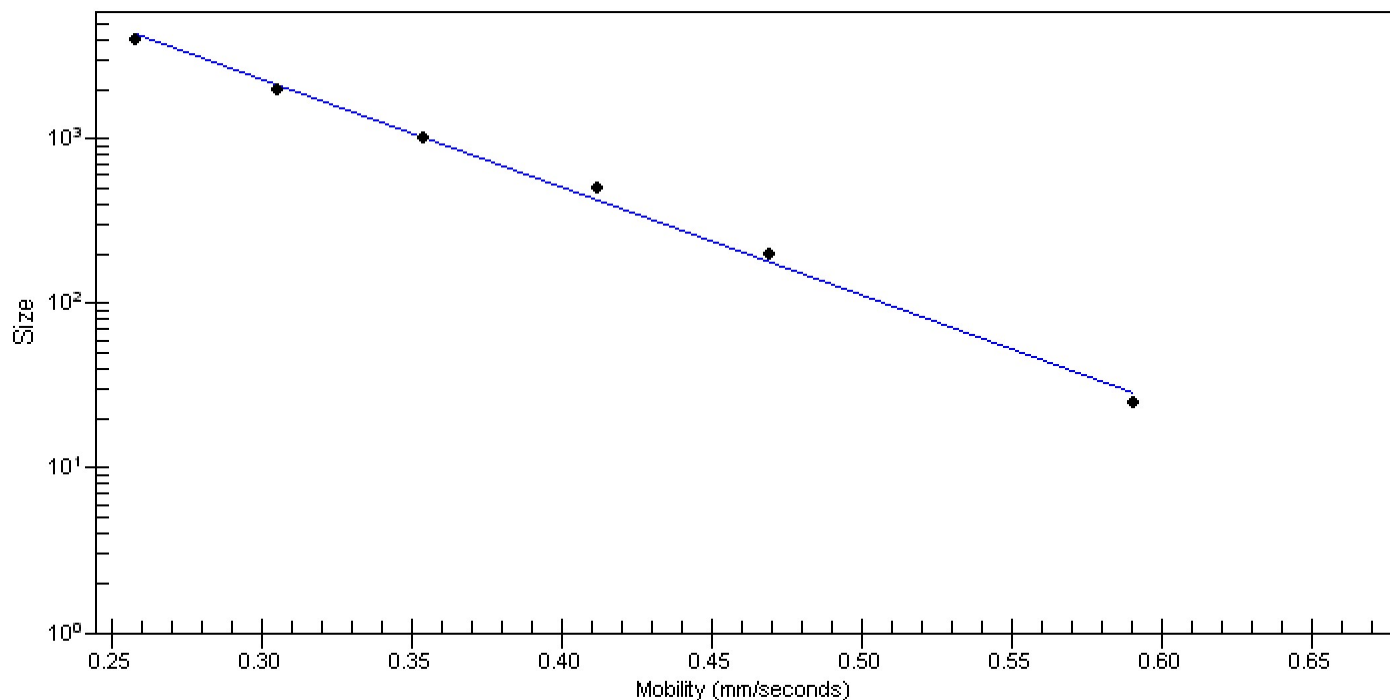


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
Modified: 9/16/2019 2:33:37 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-16\2019-09-16_002.xad

Created: 9/16/2019 2:10:40 PM
 Modified: 9/16/2019 2:33:37 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		9/16/2019 2:33:34 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_002.xad)		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2019 2:10:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1