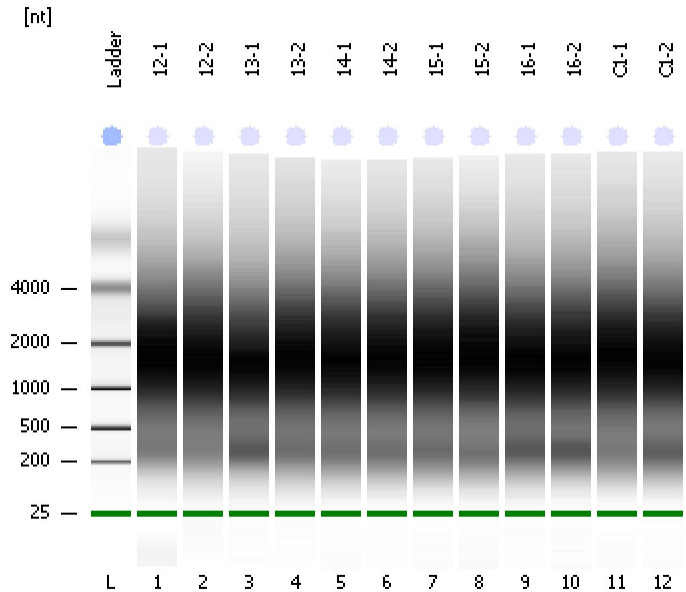


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electrophoresis File Run Summary



Instrument Information:

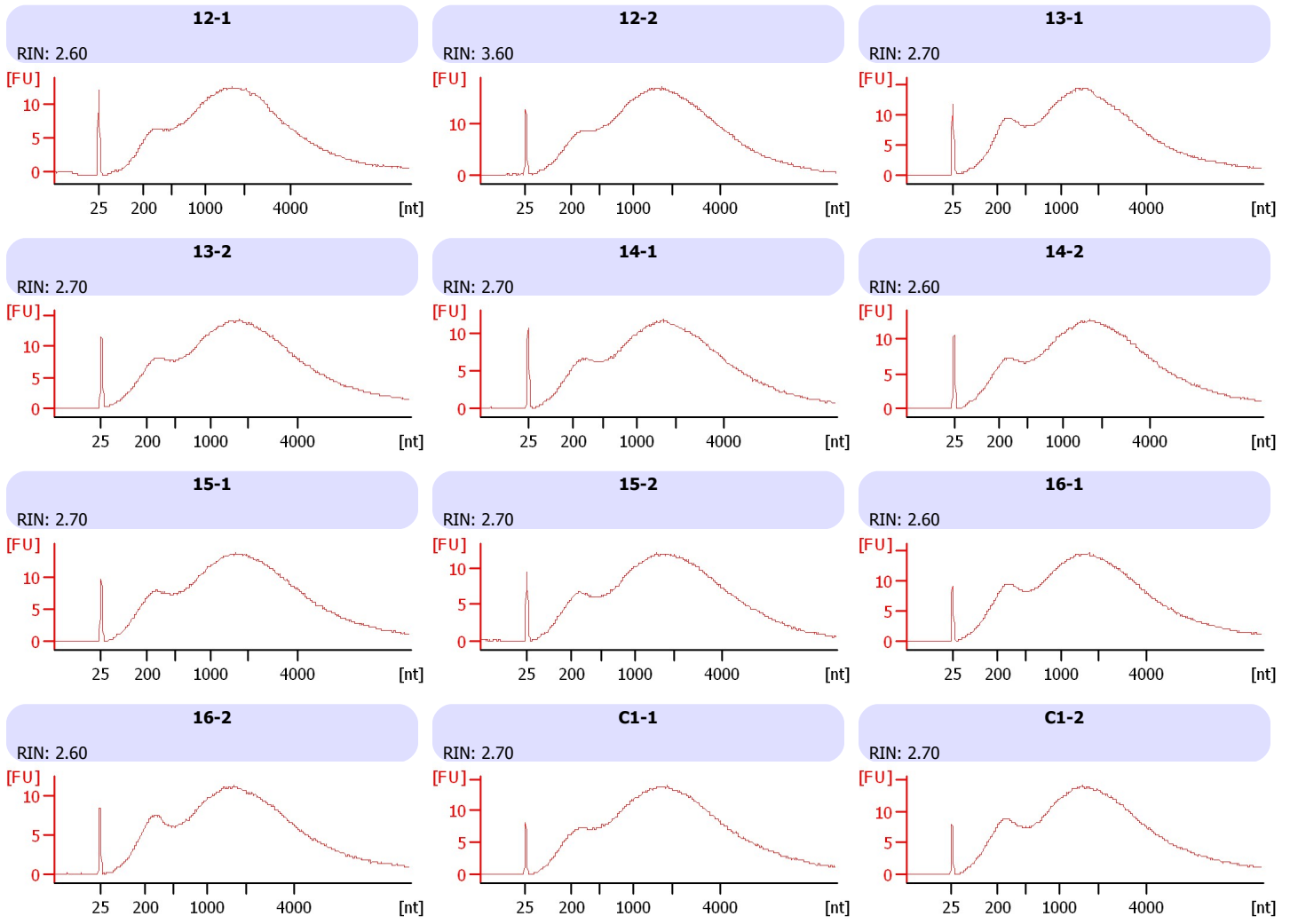
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
12-1		✓	RIN: 2.60	
12-2		✓	RIN: 3.60	
13-1		✓	RIN: 2.70	
13-2		✓	RIN: 2.70	
14-1		✓	RIN: 2.70	
14-2		✓	RIN: 2.60	
15-1		✓	RIN: 2.70	
15-2		✓	RIN: 2.70	
16-1		✓	RIN: 2.60	
16-2		✓	RIN: 2.60	
C1-1		✓	RIN: 2.70	
C1-2		✓	RIN: 2.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

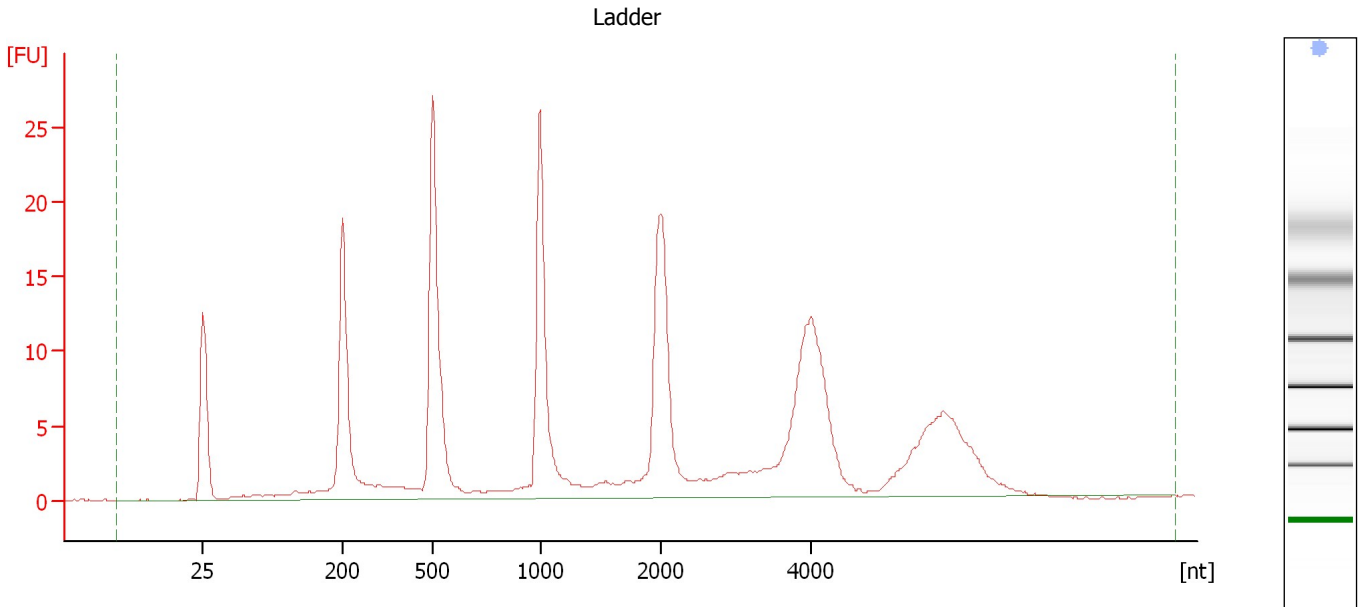
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary



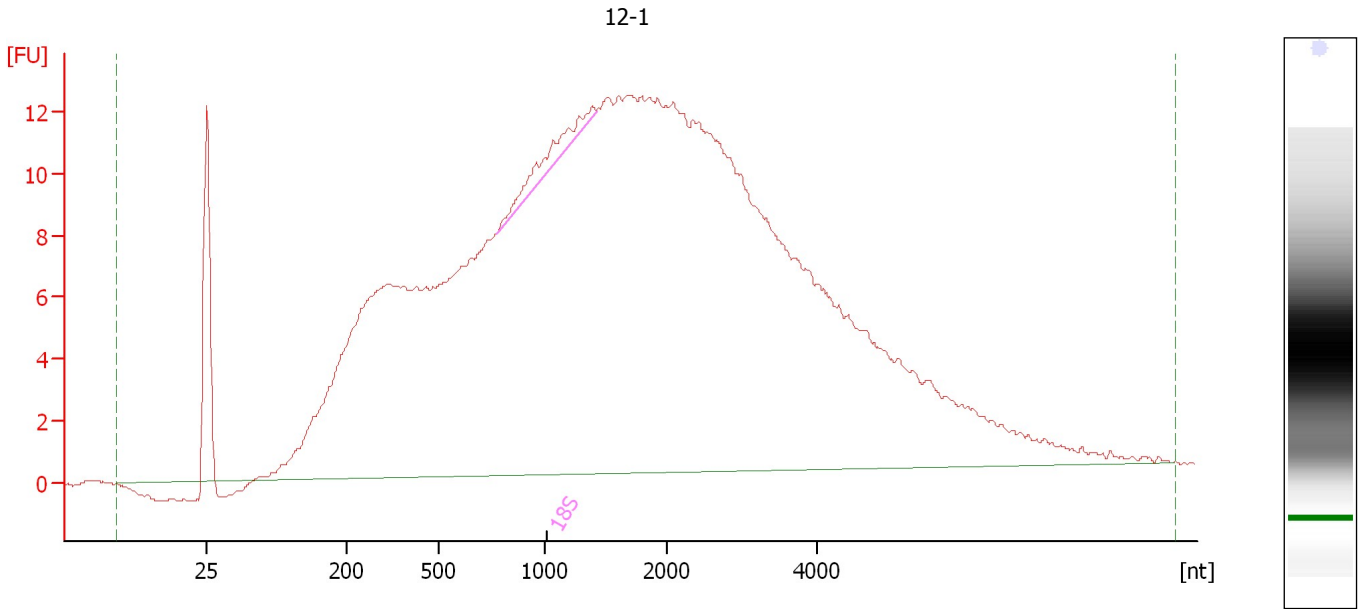
Overall Results for Ladder

RNA Area:	248.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12-1

RNA Area:	556.2	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	335 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.60

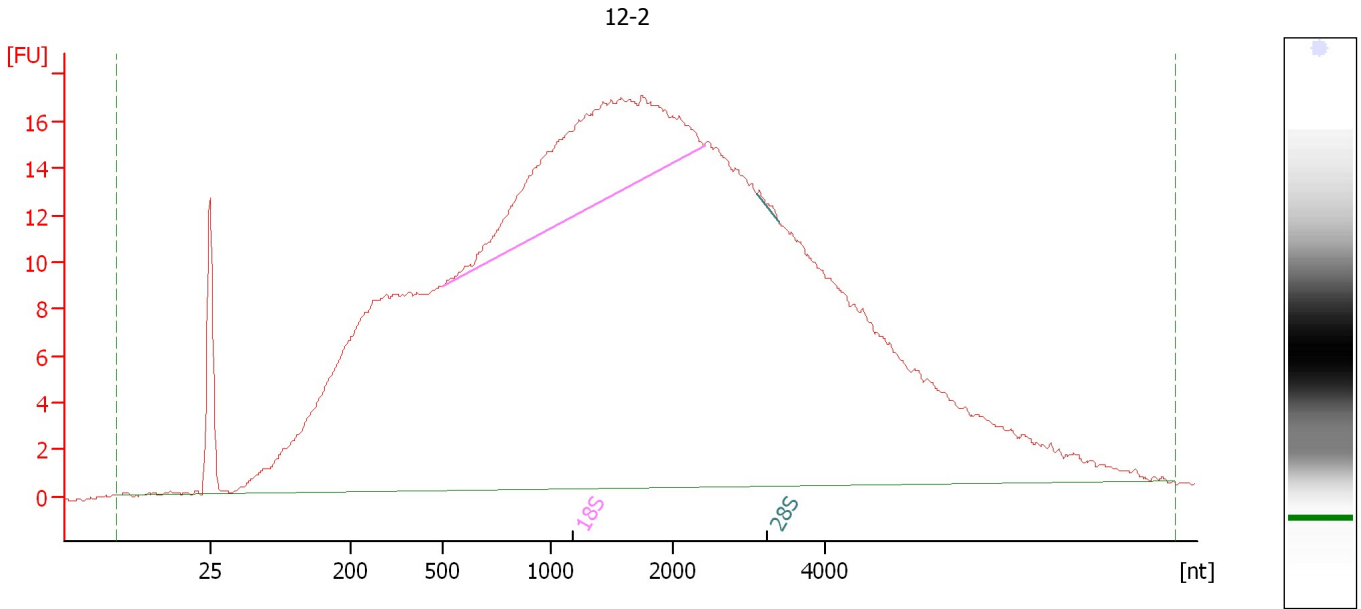
Fragment table for sample 1 : 12-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	776	1,422	5.0	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 12-2

RNA Area:	801.6	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	483 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.60

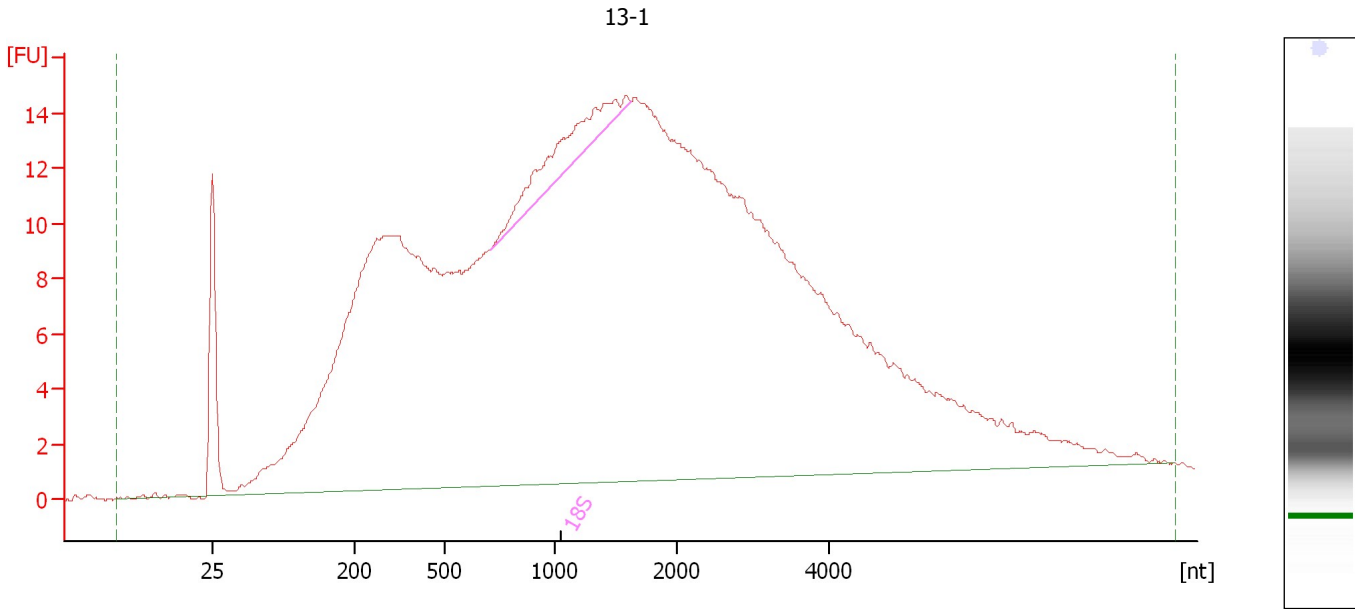
Fragment table for sample 2 : 12-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	501	2,416	69.2	8.6
28S	3,107	3,390	0.4	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 13-1

RNA Area:	657.3	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	396 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

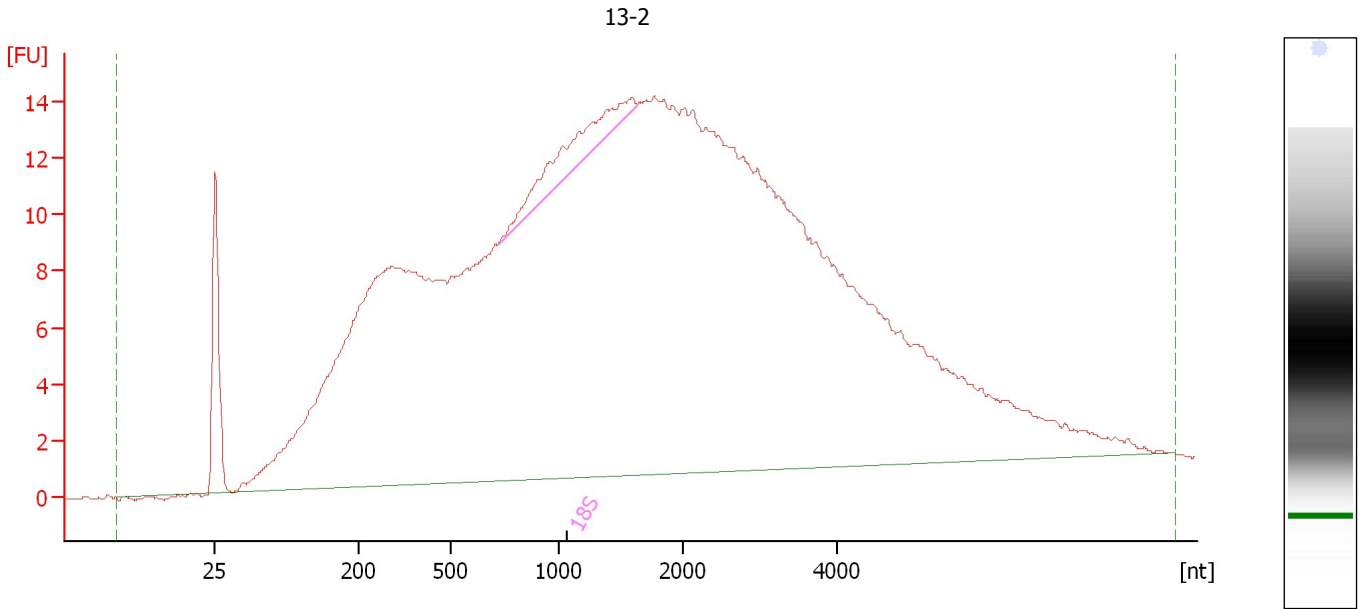
Fragment table for sample 3 : 13-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	708	1,623	13.3	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 13-2

RNA Area:	654.7	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	395 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

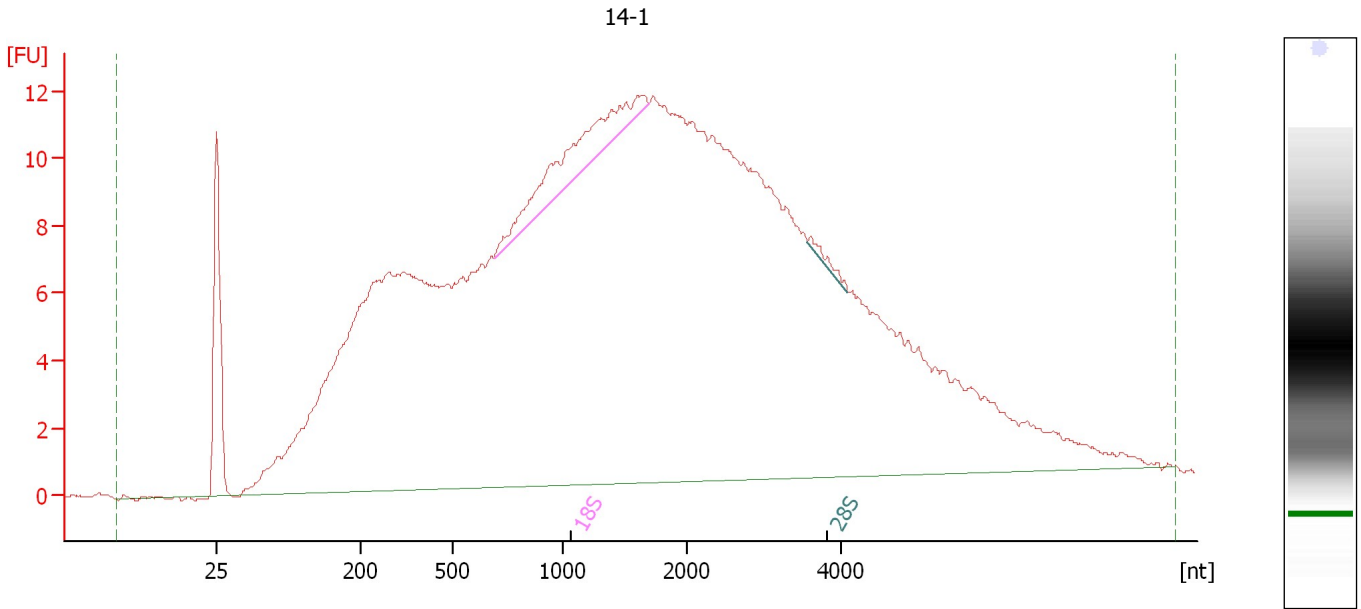
Fragment table for sample 4 : 13-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	719	1,628	11.5	1.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 14-1

RNA Area:	557.6	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	336 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.70

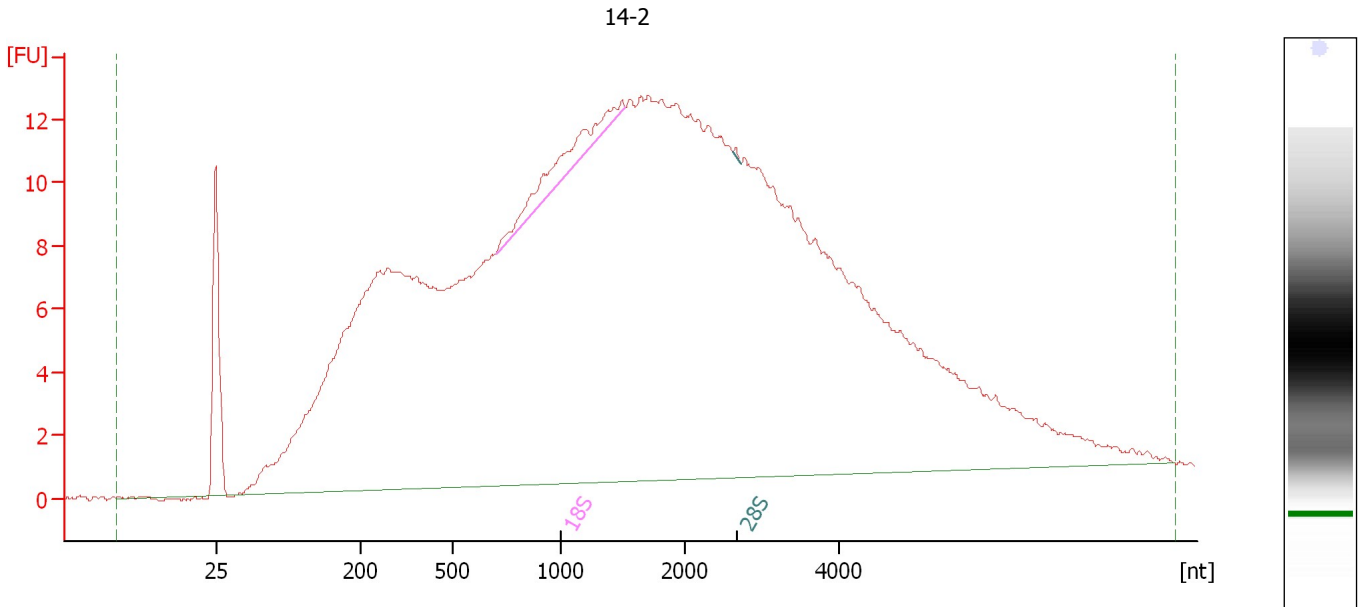
Fragment table for sample 5 : 14-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	685	1,682	12.1	2.2
28S	3,559	4,087	0.7	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 14-2

RNA Area:	597.9	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	361 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

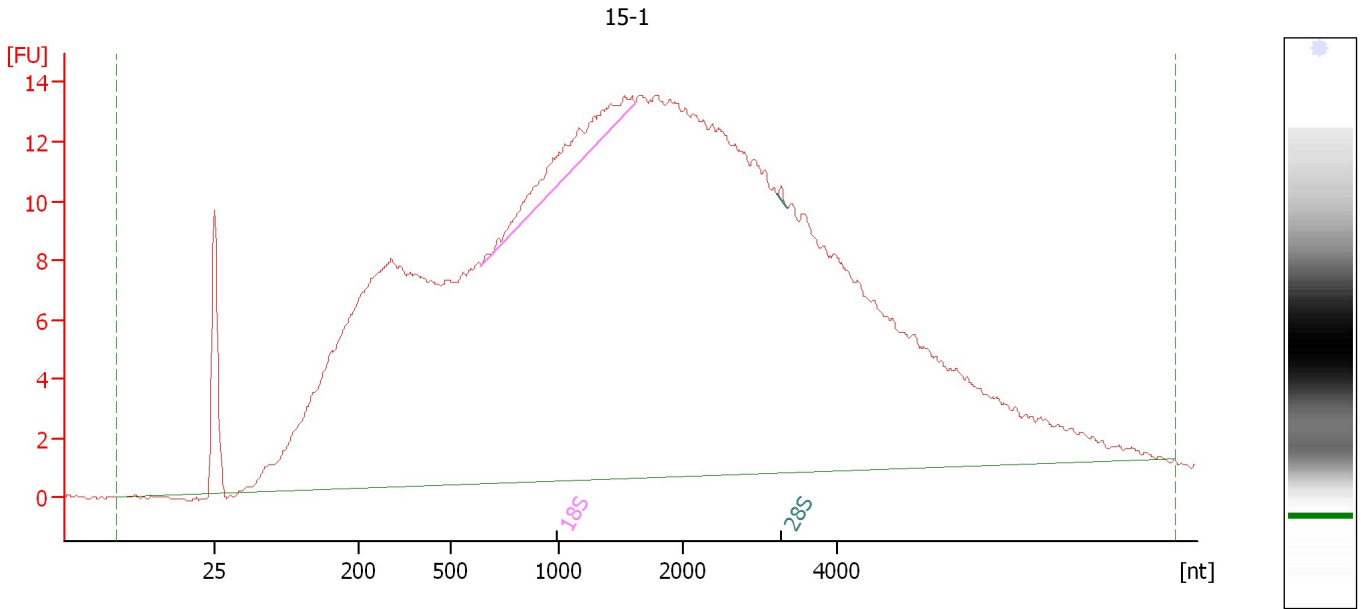
Fragment table for sample 6 : 14-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	702	1,517	7.8	1.3
28S	2,628	2,725	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 15-1

RNA Area:	642.6	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	388 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

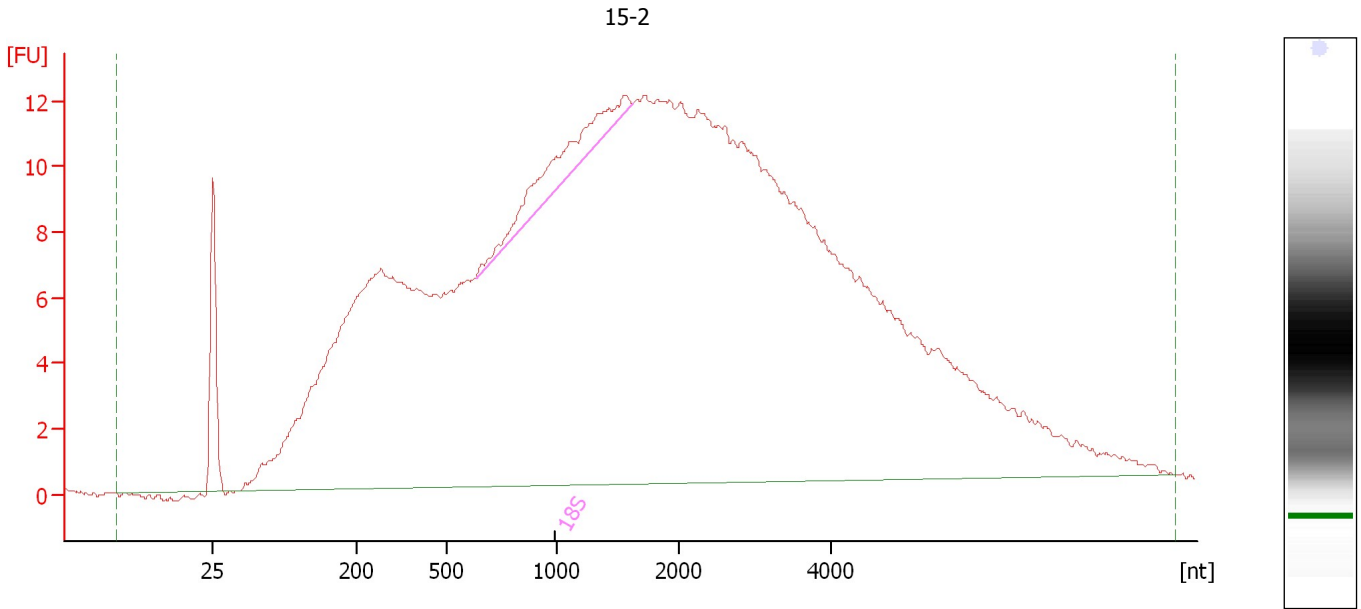
Fragment table for sample 7 : 15-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	641	1,610	11.5	1.8
28S	3,214	3,354	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 15-2

RNA Area:	597.0	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	360 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

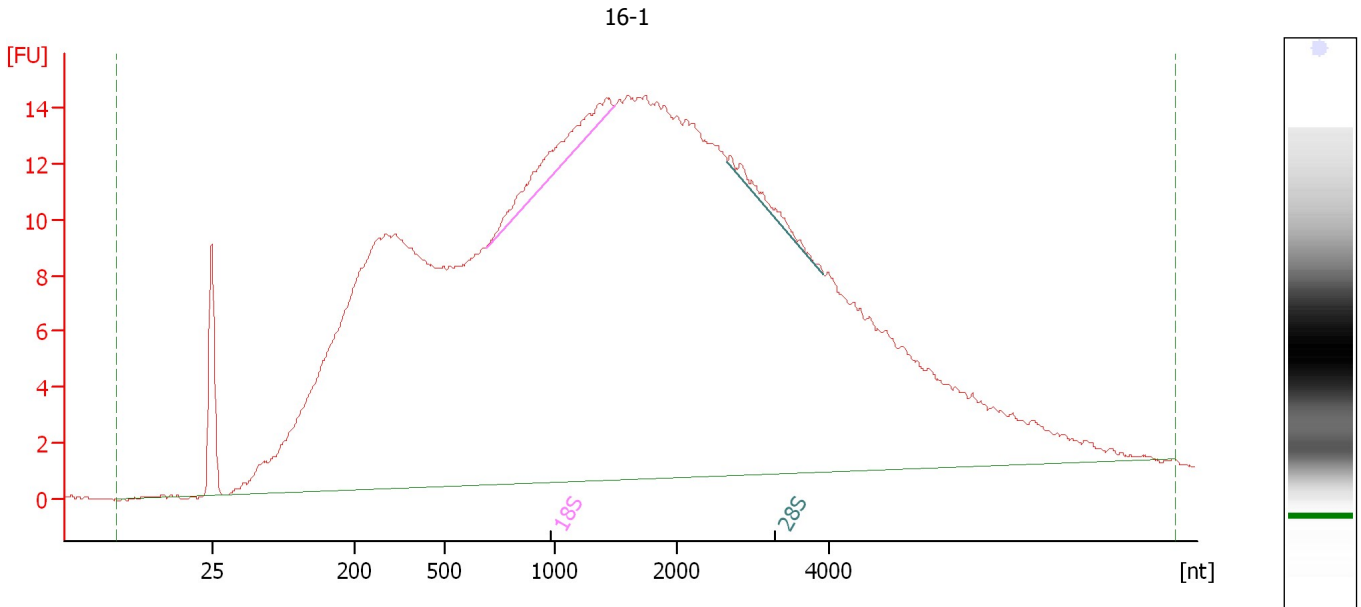
Fragment table for sample 8 : 15-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	631	1,616	11.0	1.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 16-1

RNA Area:	689.2	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	416 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.60

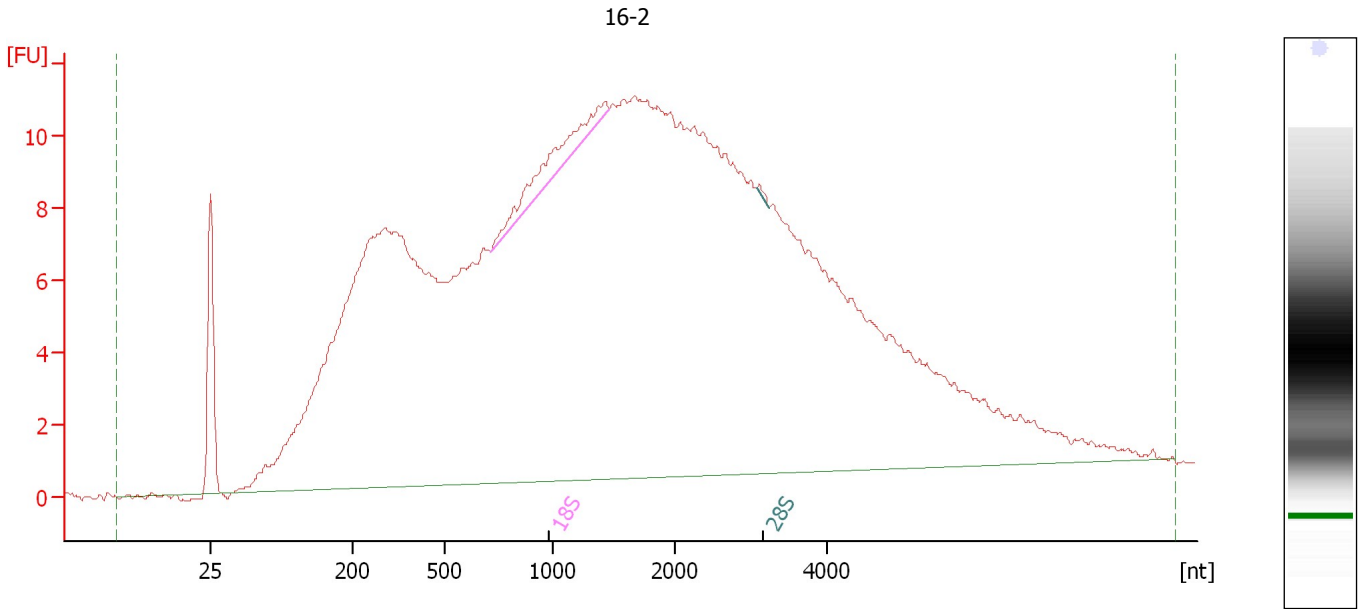
Fragment table for sample 9 : 16-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	688	1,492	9.1	1.3
28S	2,656	3,920	2.1	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 16-2

RNA Area:	524.9	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	317 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

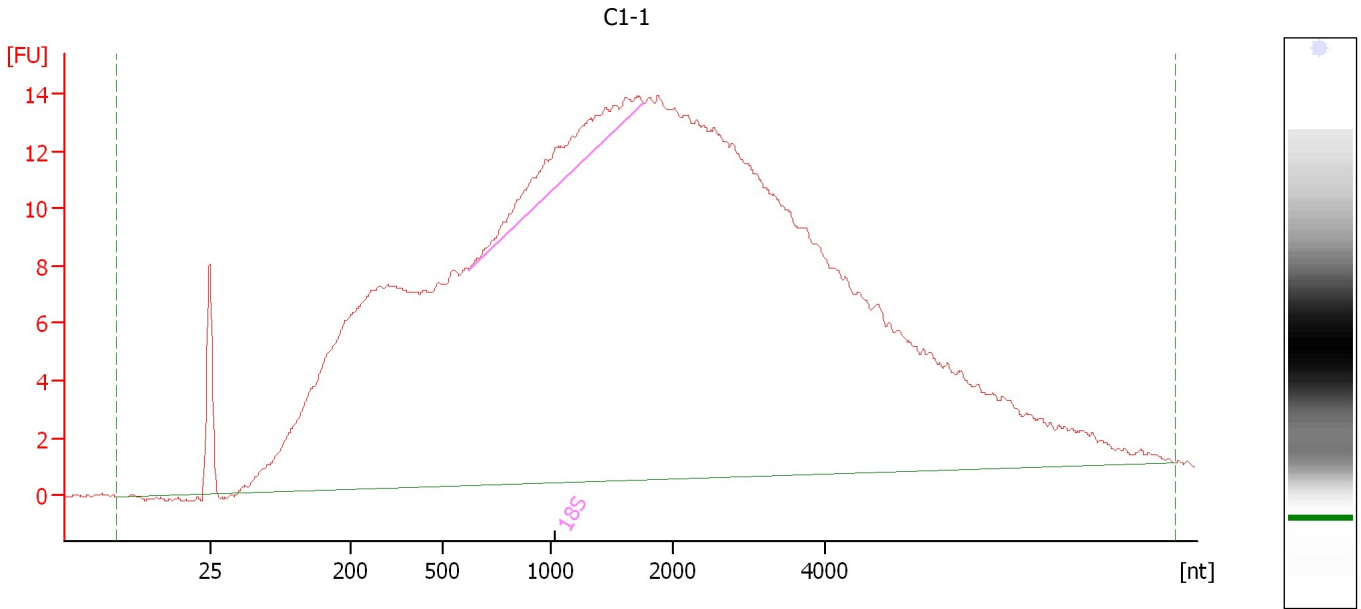
Fragment table for sample 10 : 16-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	715	1,462	6.2	1.2
28S	3,064	3,233	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C1-1

RNA Area:	665.5	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	401 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

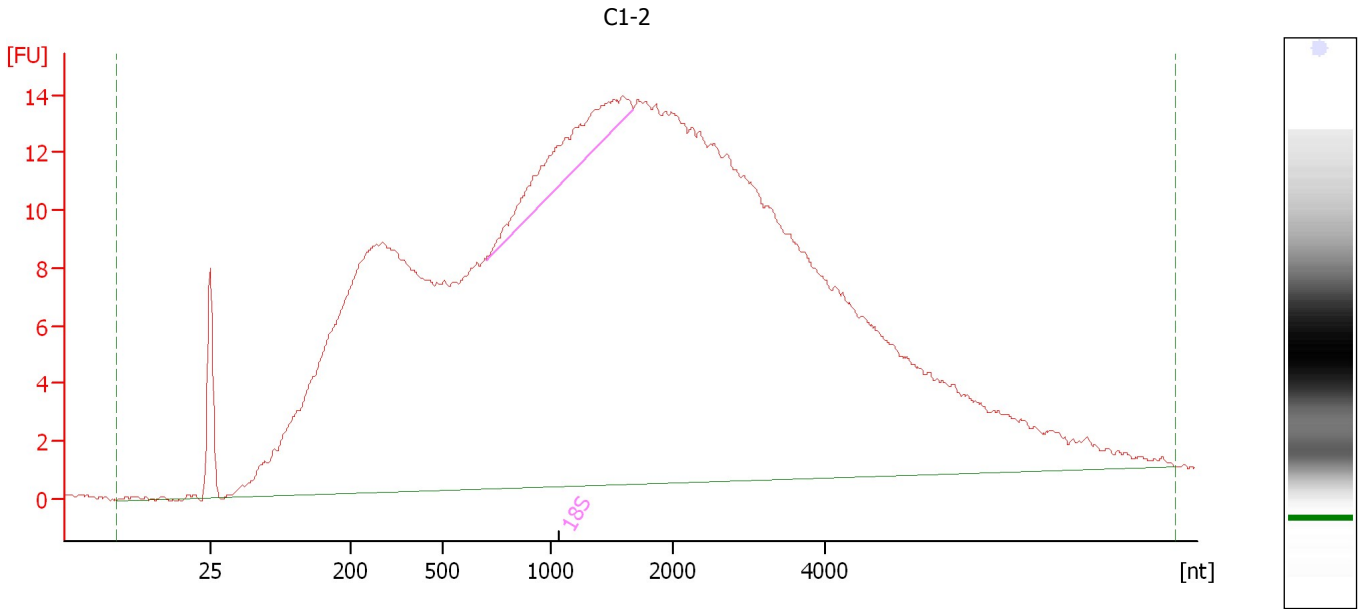
Fragment table for sample 11 : C1-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	624	1,760	15.8	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : C1-2

RNA Area:	671.1	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	405 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

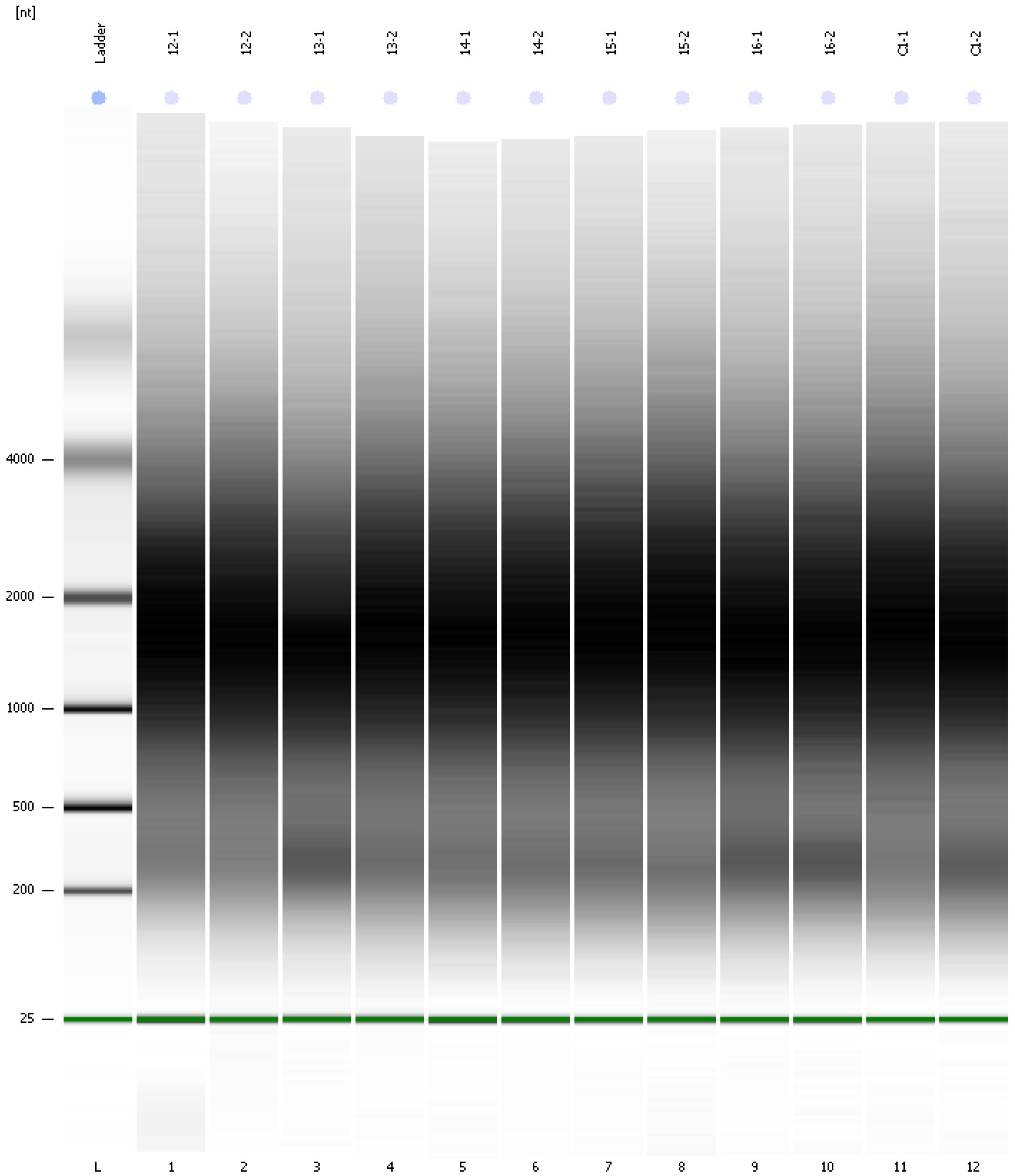
Fragment table for sample 12 : C1-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	703	1,672	16.1	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
Modified: 11/3/2016 11:31:11 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad

Created: 11/3/2016 11:06:20 AM
 Modified: 11/3/2016 11:31:11 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		11/3/2016 11:30:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_001.xad)		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/3/2016 11:06:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1