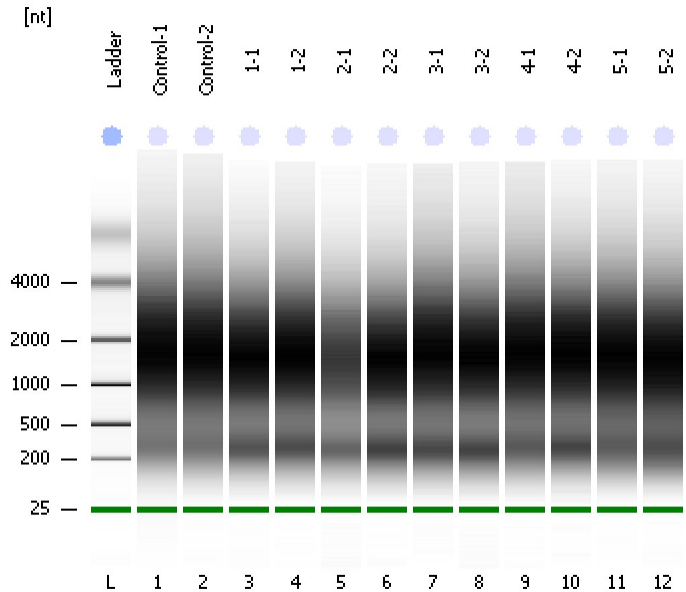


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electrophoresis File Run Summary



Instrument Information:

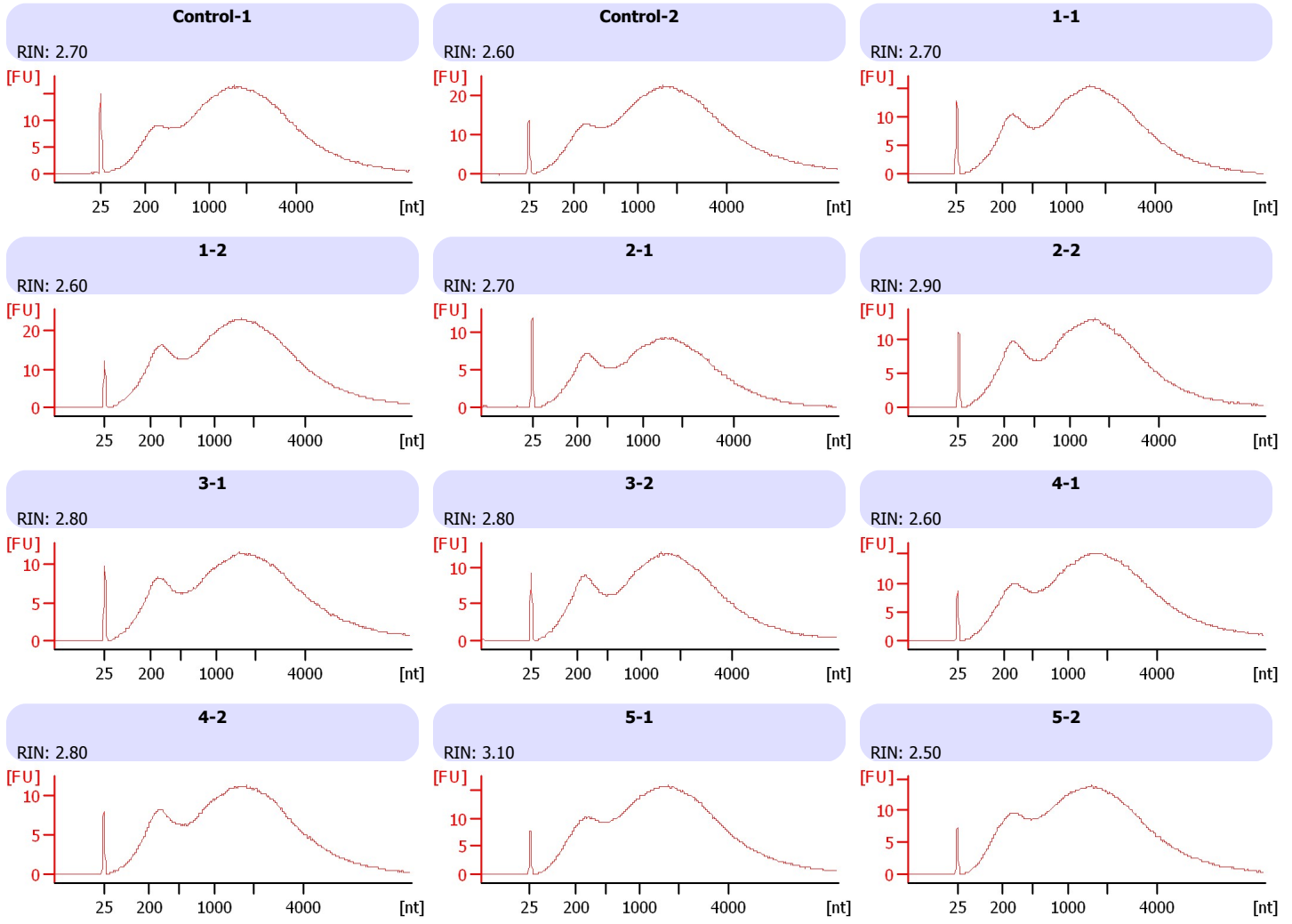
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Control-1		✓	RIN: 2.70	
Control-2		✓	RIN: 2.60	
1-1		✓	RIN: 2.70	
1-2		✓	RIN: 2.60	
2-1		✓	RIN: 2.70	
2-2		✓	RIN: 2.90	
3-1		✓	RIN: 2.80	
3-2		✓	RIN: 2.80	
4-1		✓	RIN: 2.60	
4-2		✓	RIN: 2.80	
5-1		✓	RIN: 3.10	
5-2		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

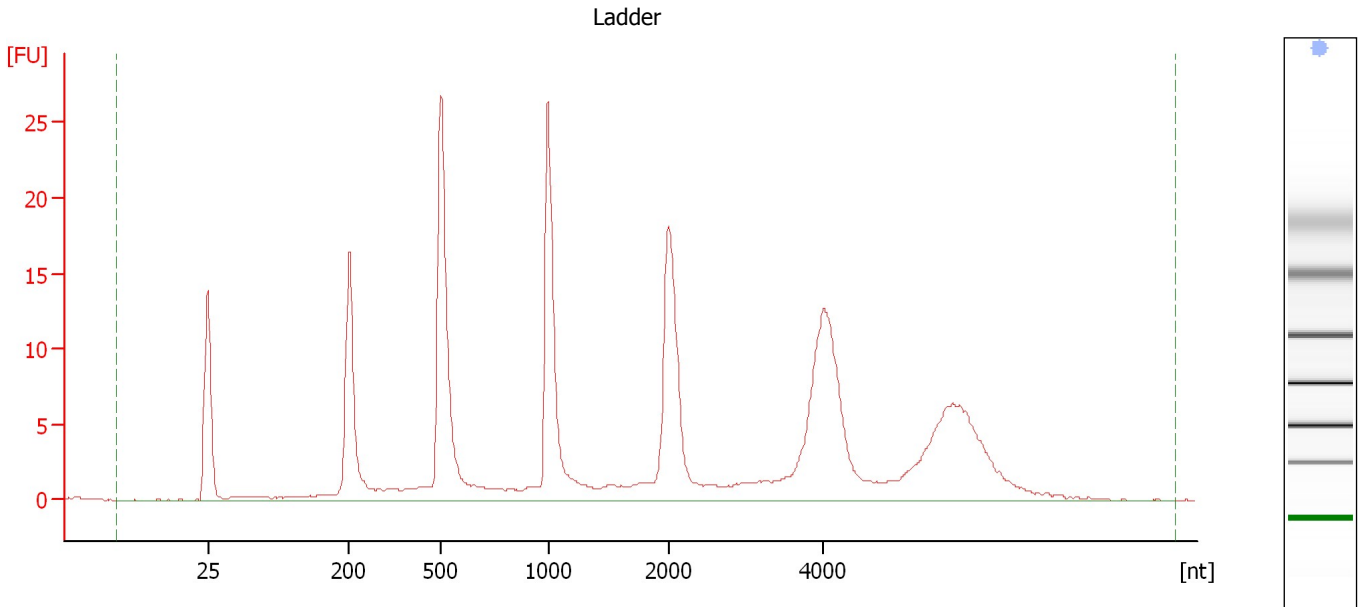
Ladder

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\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary



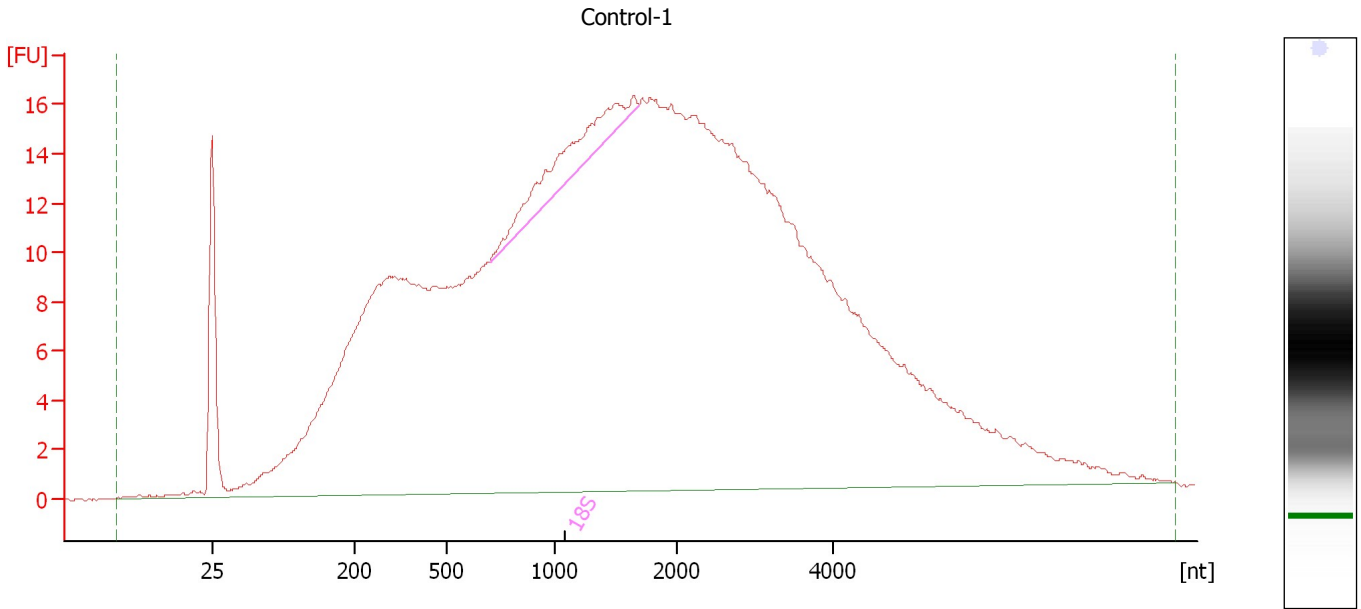
Overall Results for Ladder

RNA Area:	246.0	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\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Control-1

RNA Area:	762.8	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	465 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

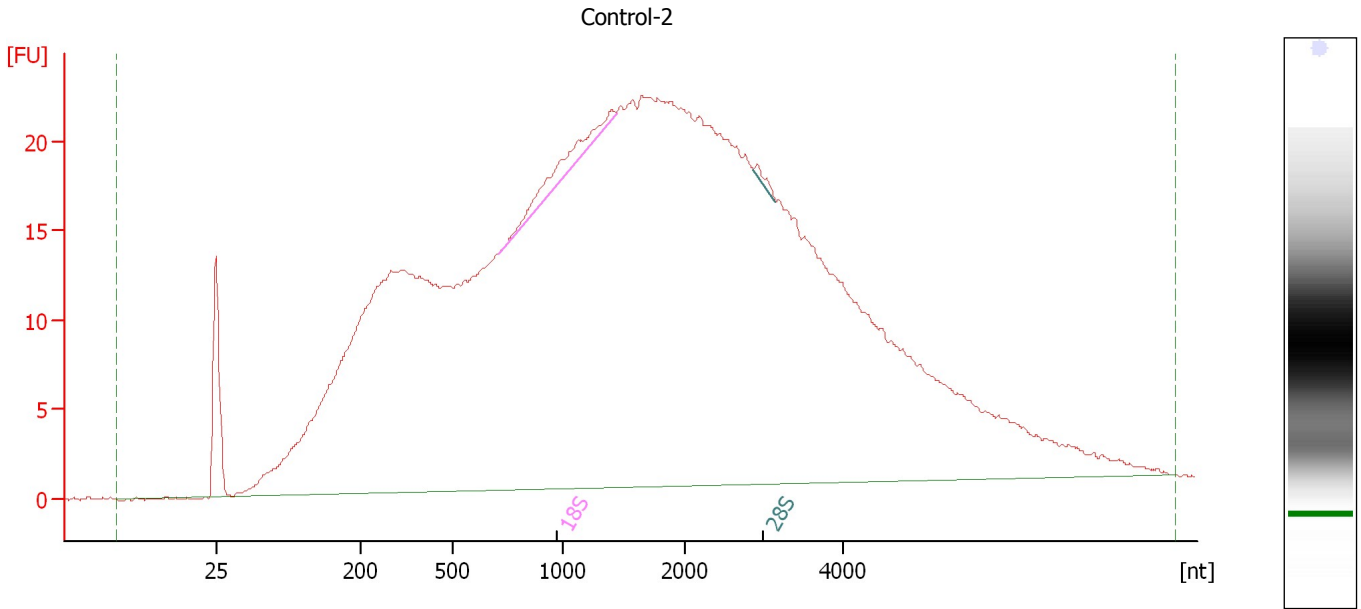
Fragment table for sample 1 : Control-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	697	1,693	15.5	2.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Control-2

RNA Area:	1,046.4	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	638 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.60

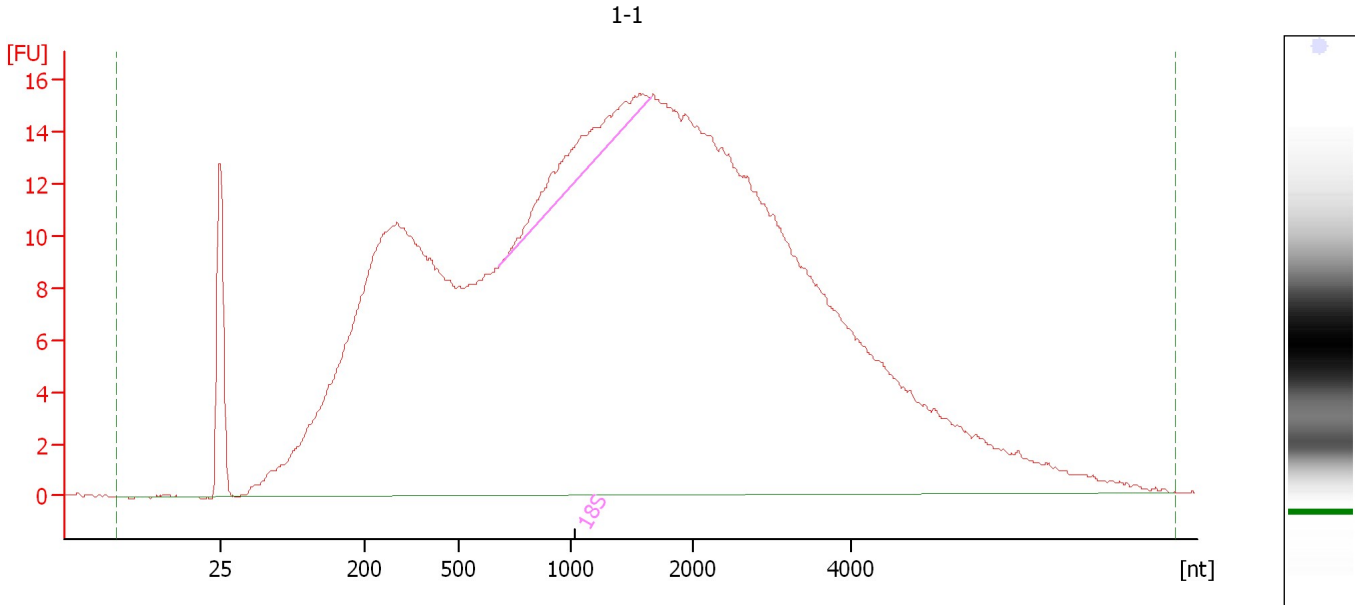
Fragment table for sample 2 : Control-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	706	1,435	7.8	0.7
28S	2,878	3,149	0.7	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1-1

RNA Area:	718.0	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	438 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

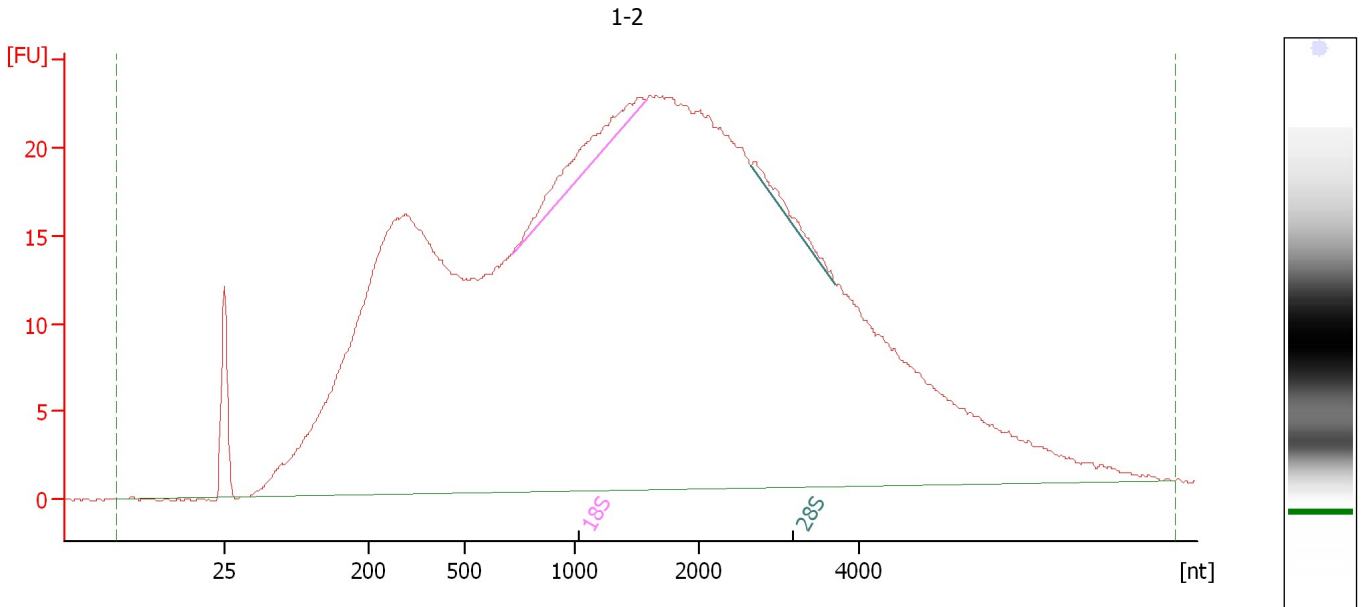
Fragment table for sample 3 : 1-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	681	1,652	14.9	2.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1-2

RNA Area:	1,083.9	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	661 ng/μl		
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.60

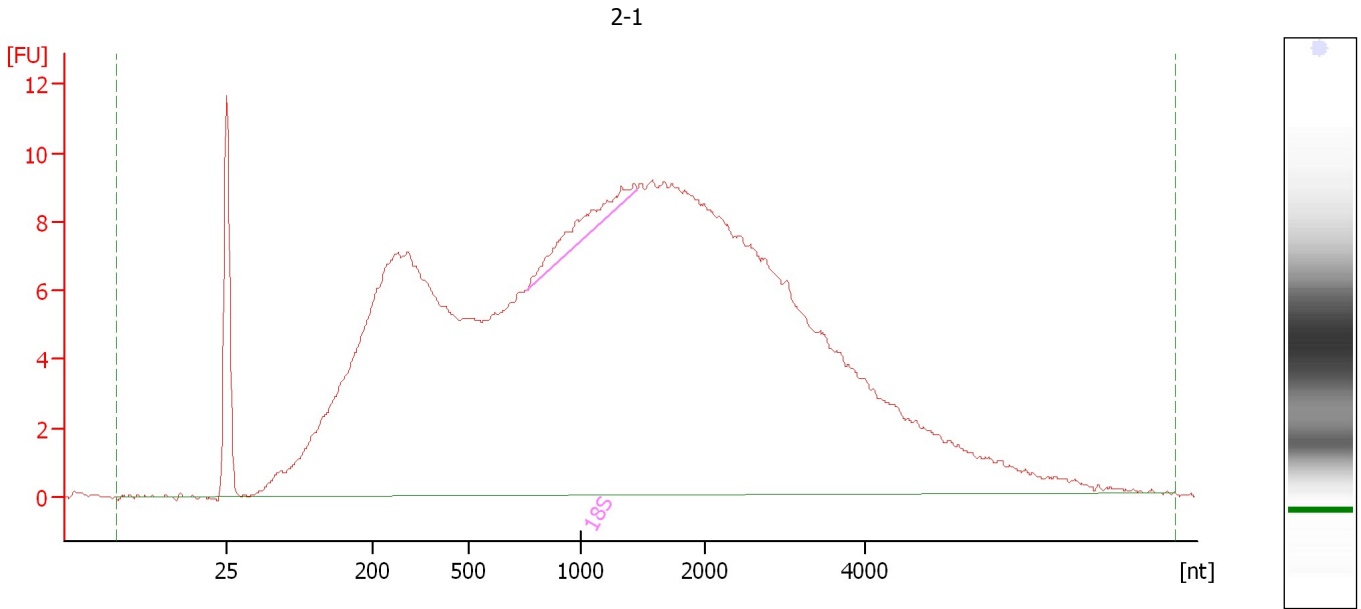
Fragment table for sample 4 : 1-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	716	1,570	14.4	1.3
28S	2,647	3,703	3.6	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2-1

RNA Area:	434.0	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	265 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

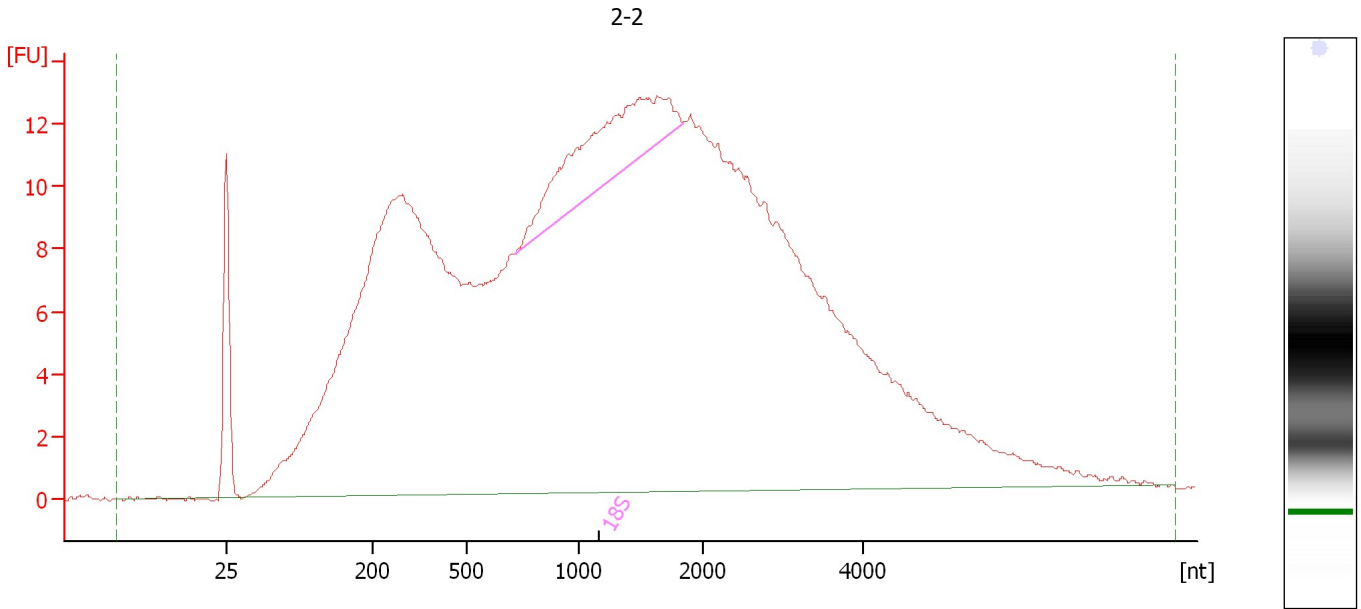
Fragment table for sample 5 : 2-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	761	1,455	5.8	1.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2-2

RNA Area:	594.2	RNA Integrity Number (RIN):	2.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	362 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

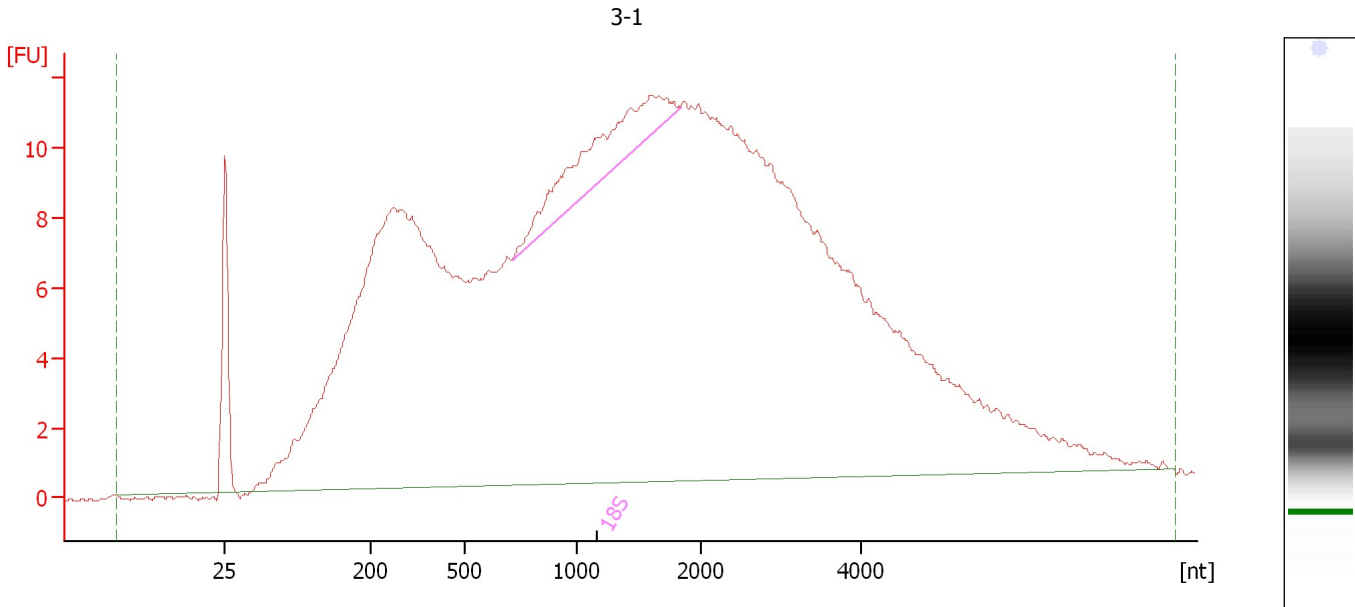
Fragment table for sample 6 : 2-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	716	1,832	25.9	4.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 3-1

RNA Area:	543.6	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	332 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

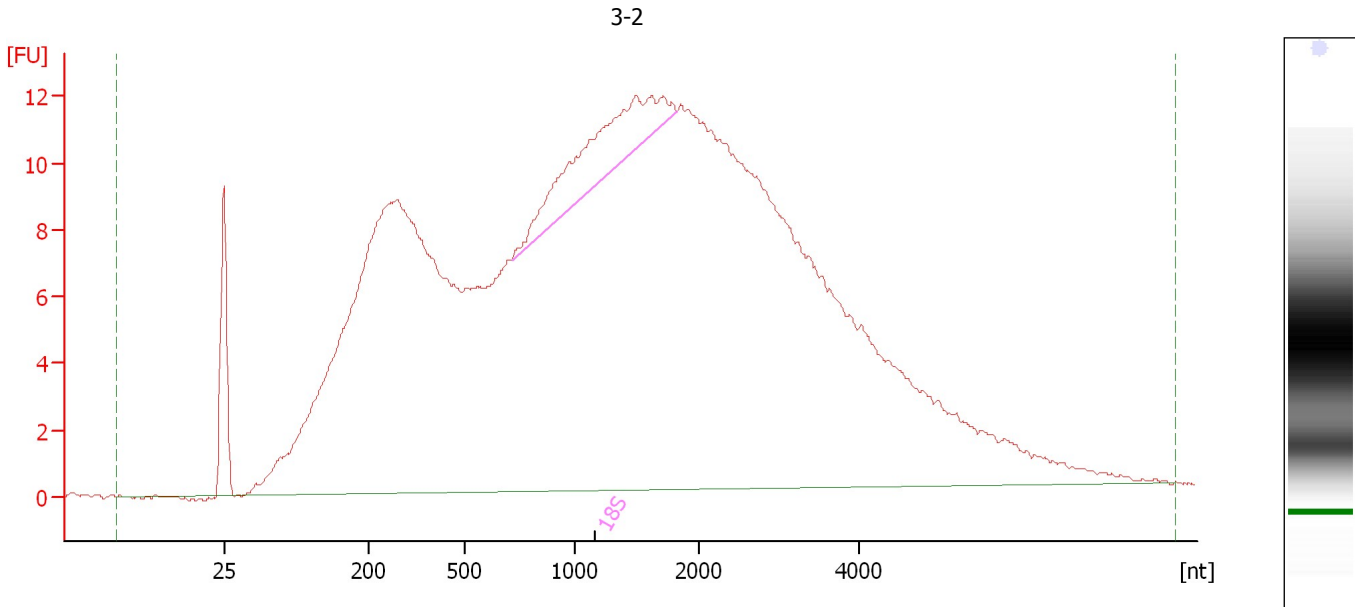
Fragment table for sample 7 : 3-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	709	1,831	16.7	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3-2

RNA Area:	566.7	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	346 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

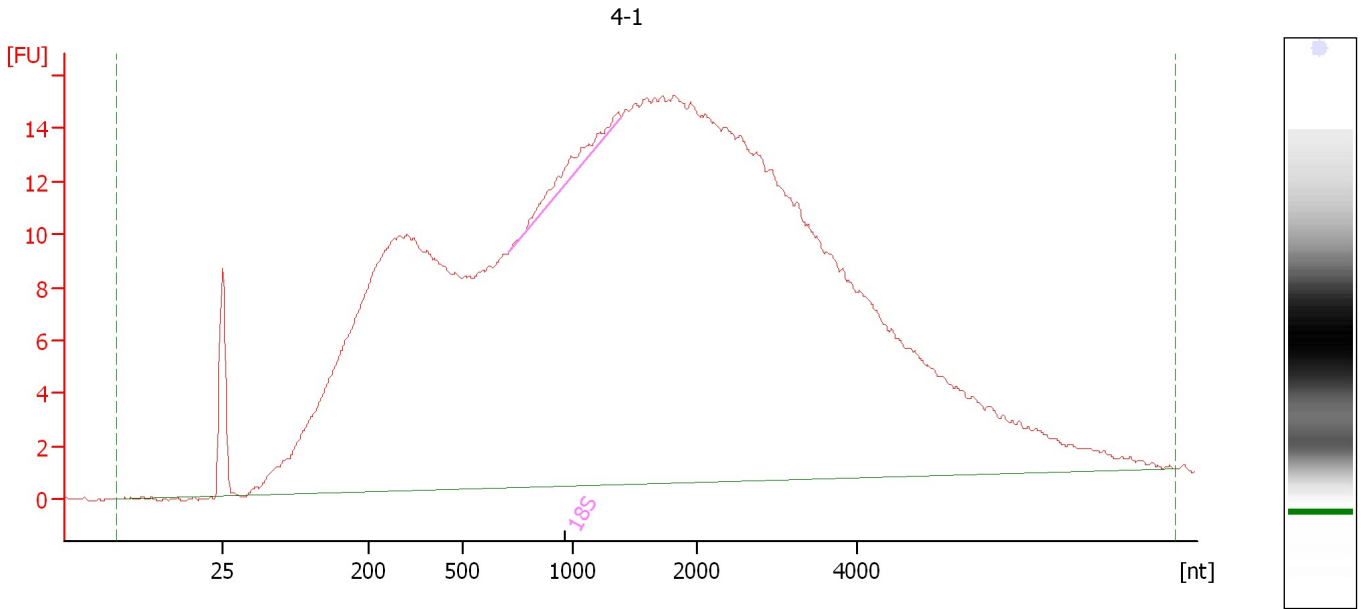
Fragment table for sample 8 : 3-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	716	1,821	18.9	3.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 4-1

RNA Area:	716.7	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	437 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

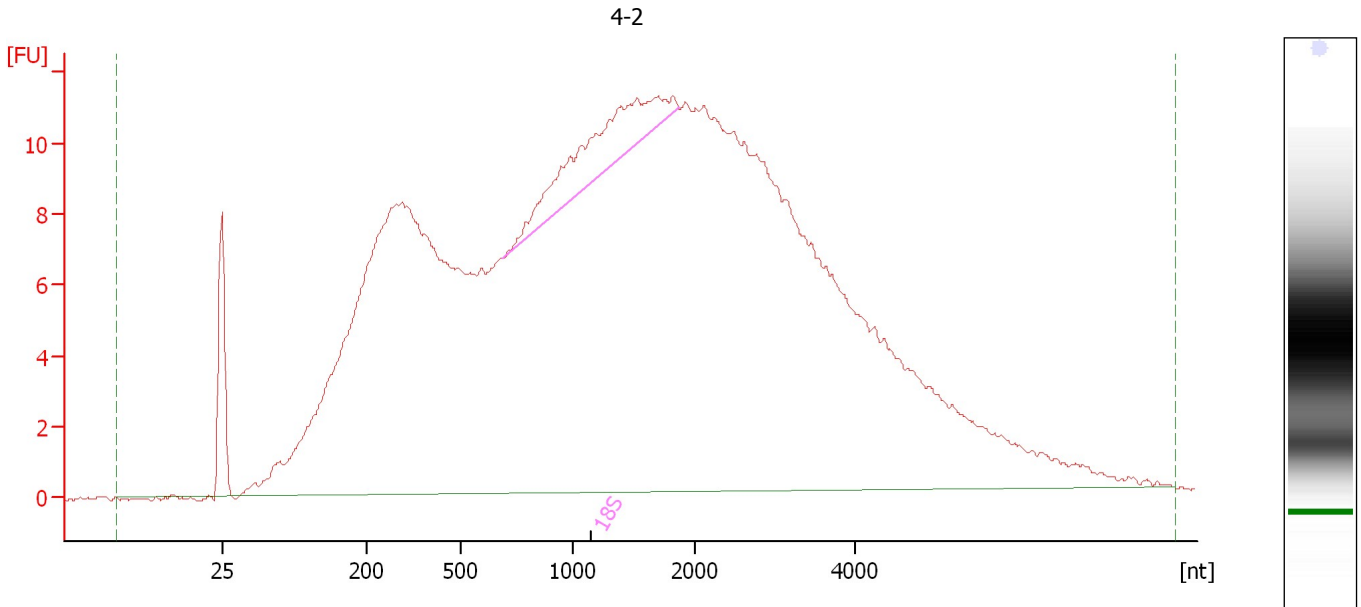
Fragment table for sample 9 : 4-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	709	1,386	4.8	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 4-2

RNA Area:	547.9	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	334 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

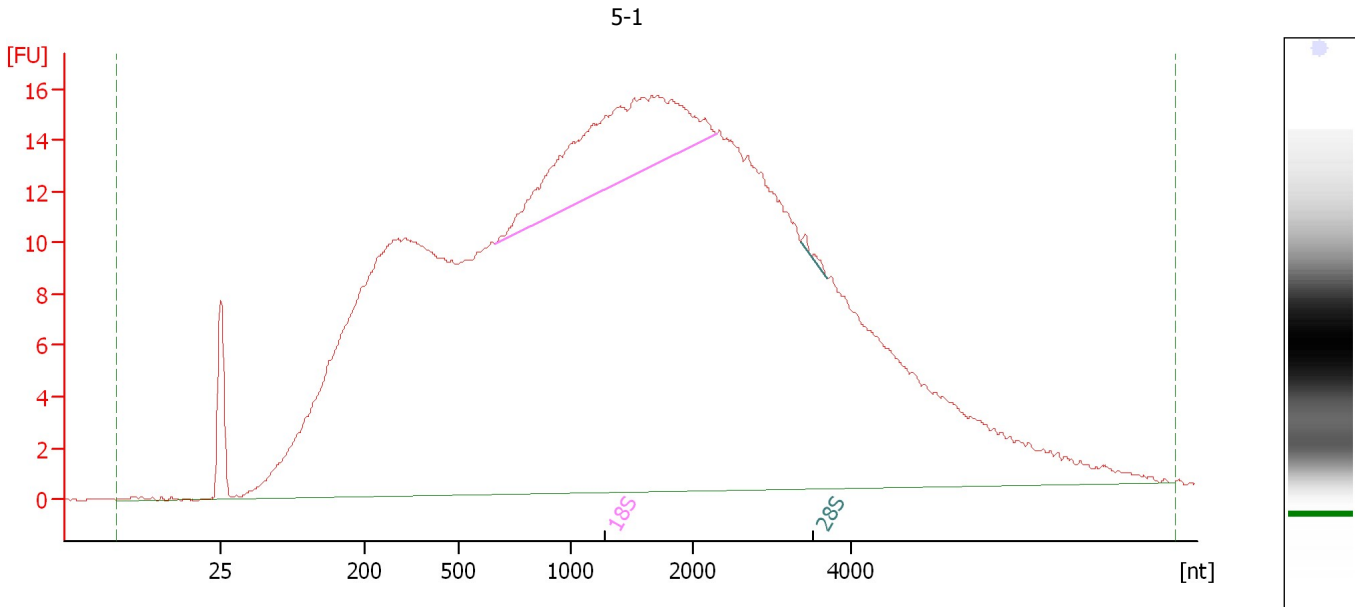
Fragment table for sample 10 : 4-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	692	1,862	17.4	3.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 5-1

RNA Area:	764.9	RNA Integrity Number (RIN):	3.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	466 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.10

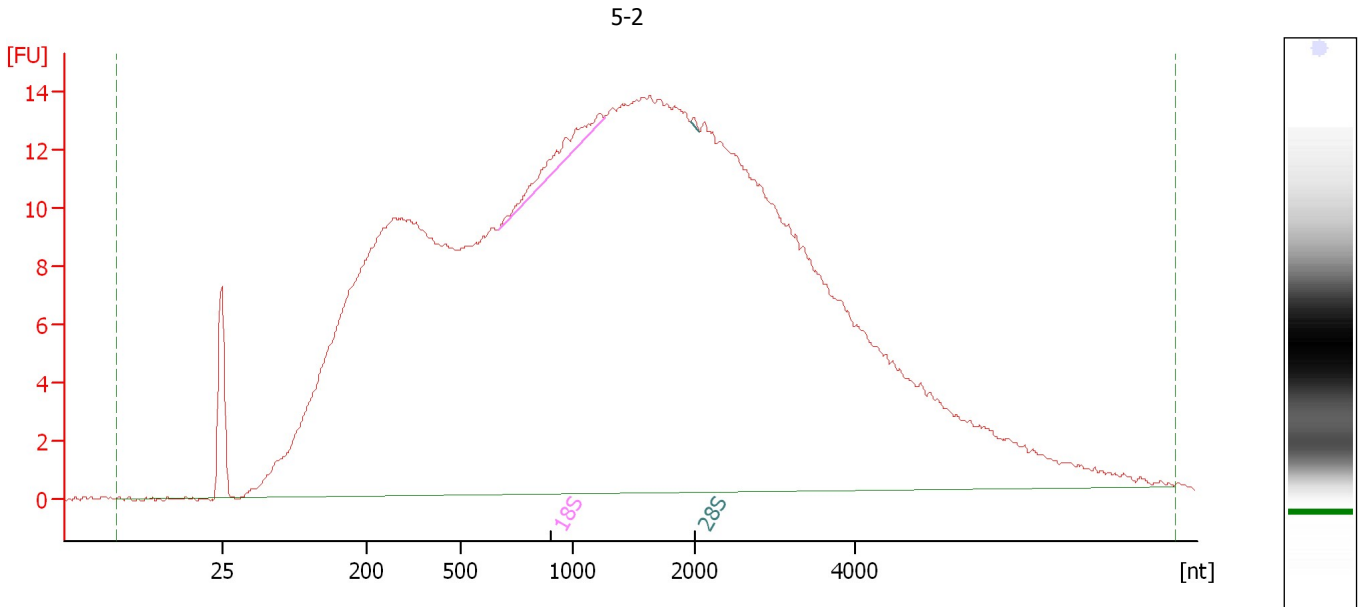
Fragment table for sample 11 : 5-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	656	2,297	45.6	6.0
28S	3,360	3,683	0.5	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 5-2

RNA Area:	690.4	RNA Integrity Number (RIN):	2.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	421 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

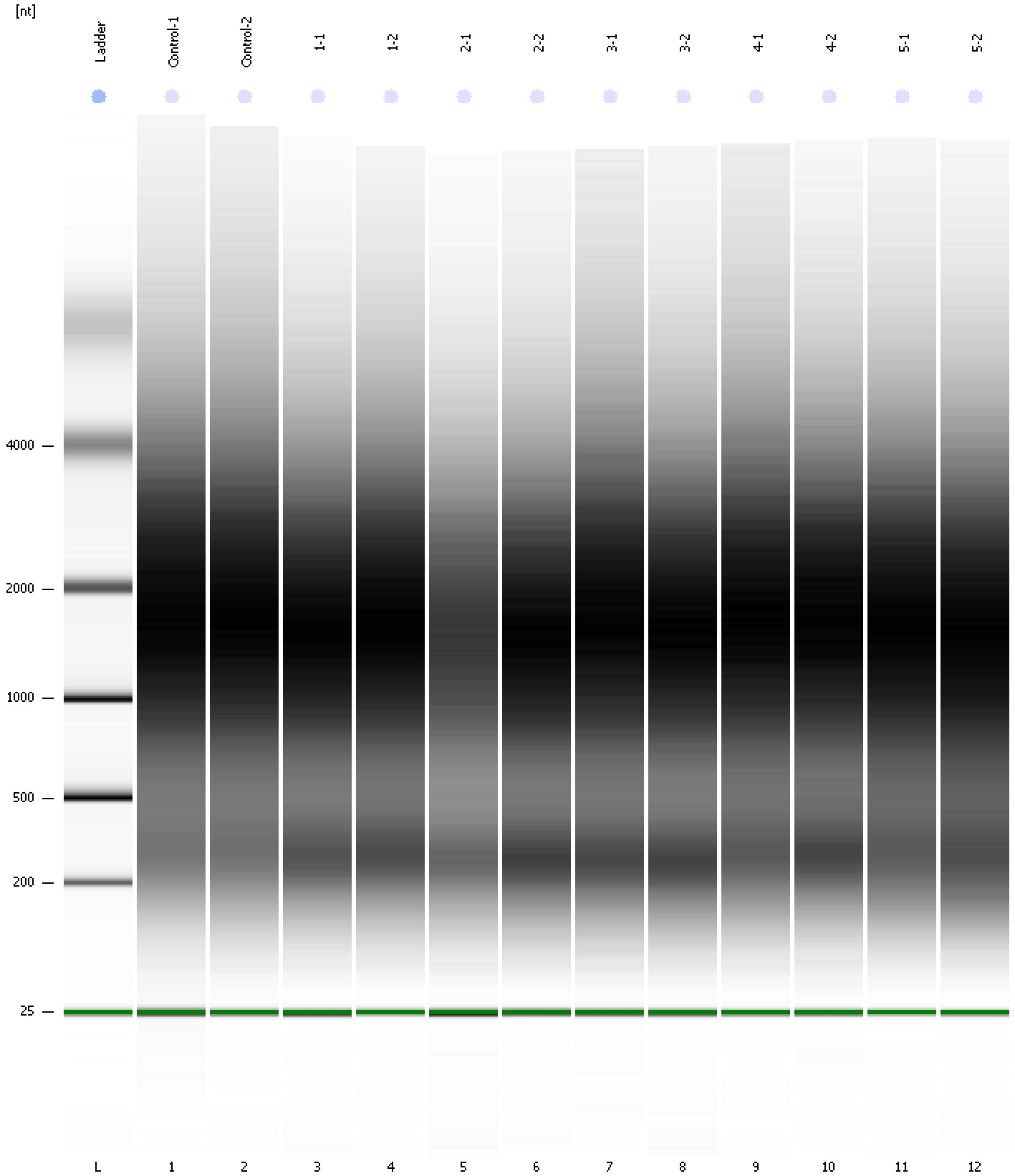
Fragment table for sample 12 : 5-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	673	1,263	4.7	0.7
28S	1,967	2,056	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
Modified: 11/21/2016 12:34:55 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad

Created: 11/21/2016 11:55:26 AM
 Modified: 11/21/2016 12:34:55 PM

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		11/21/2016 12:19:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_002.xad)		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/21/2016 11:55:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1