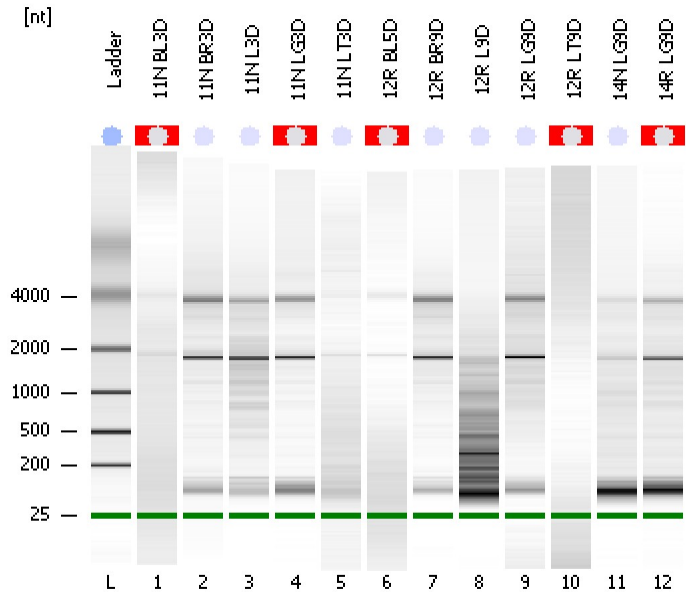


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 PM

Electrophoresis File Run Summary



Instrument Information:

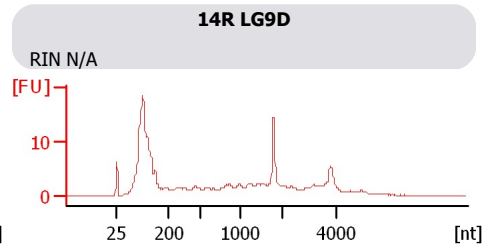
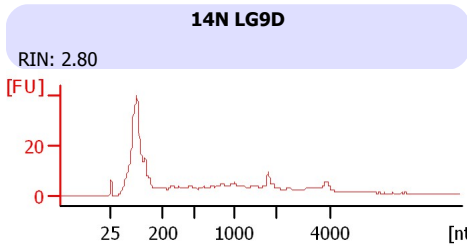
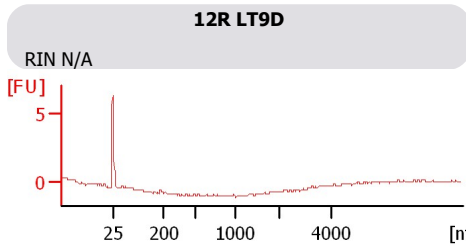
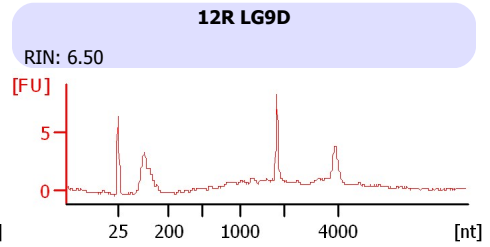
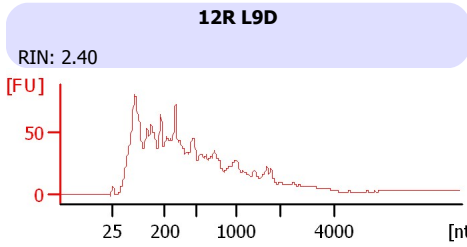
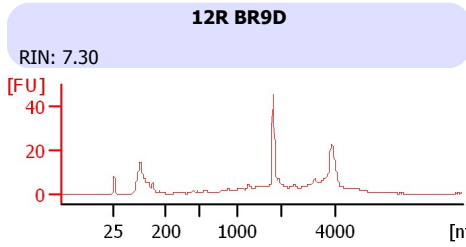
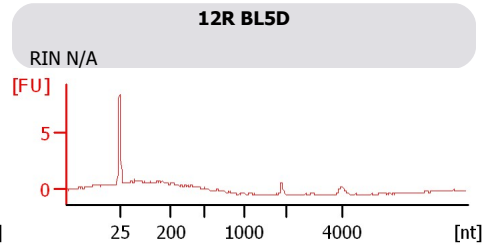
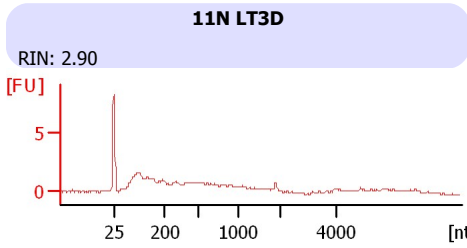
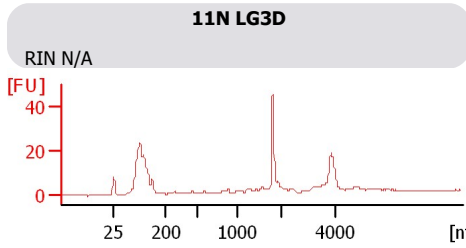
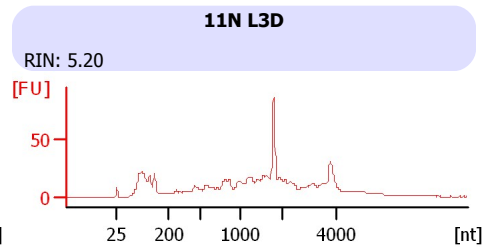
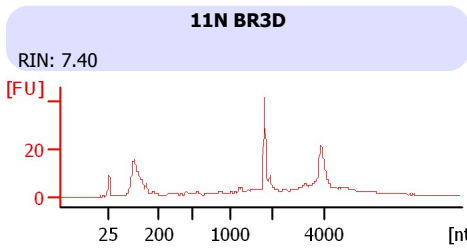
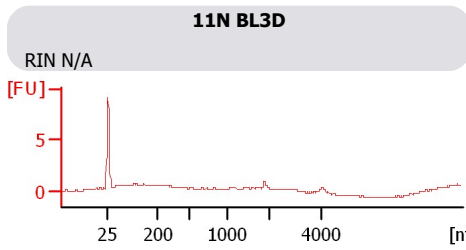
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
11N BL3D		✓	RIN N/A	
11N BR3D		✓	RIN: 7.40	
11N L3D		✓	RIN: 5.20	
11N LG3D		✓	RIN N/A	
11N LT3D		✓	RIN: 2.90	
12R BL5D		✓	RIN N/A	
12R BR9D		✓	RIN: 7.30	
12R L9D		✓	RIN: 2.40	
12R LG9D		✓	RIN: 6.50	
12R LT9D		✓	RIN N/A	
14N LG9D		✓	RIN: 2.80	
14R LG9D		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 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/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

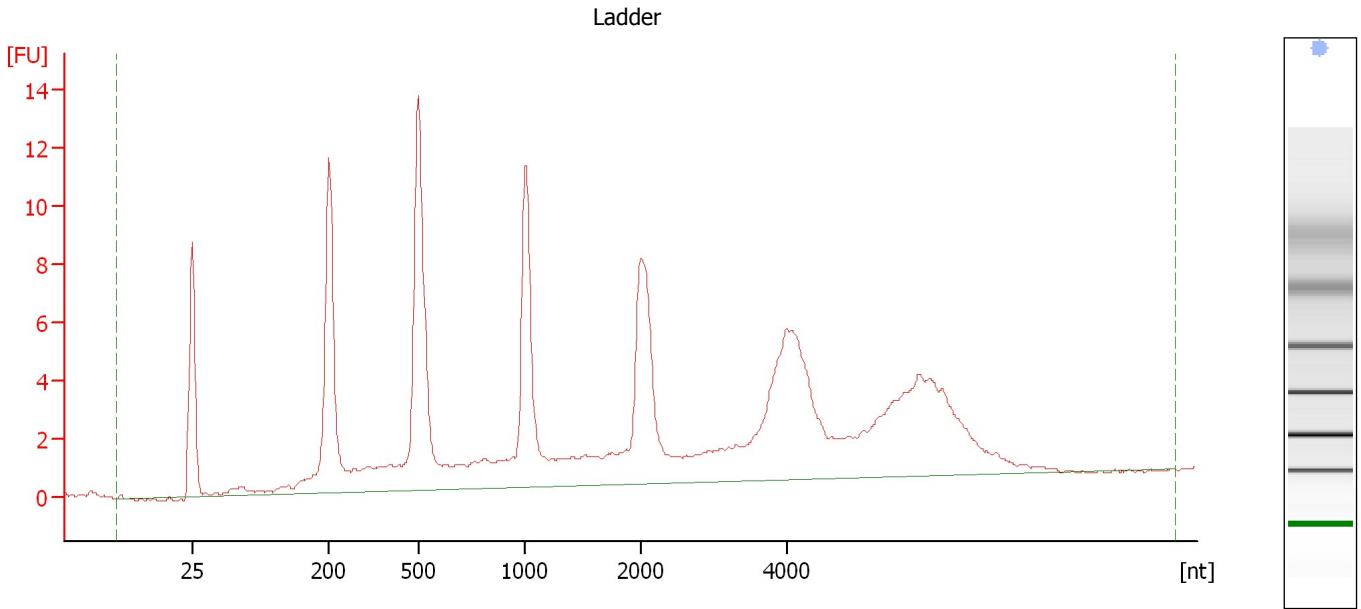
Ladder

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\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary



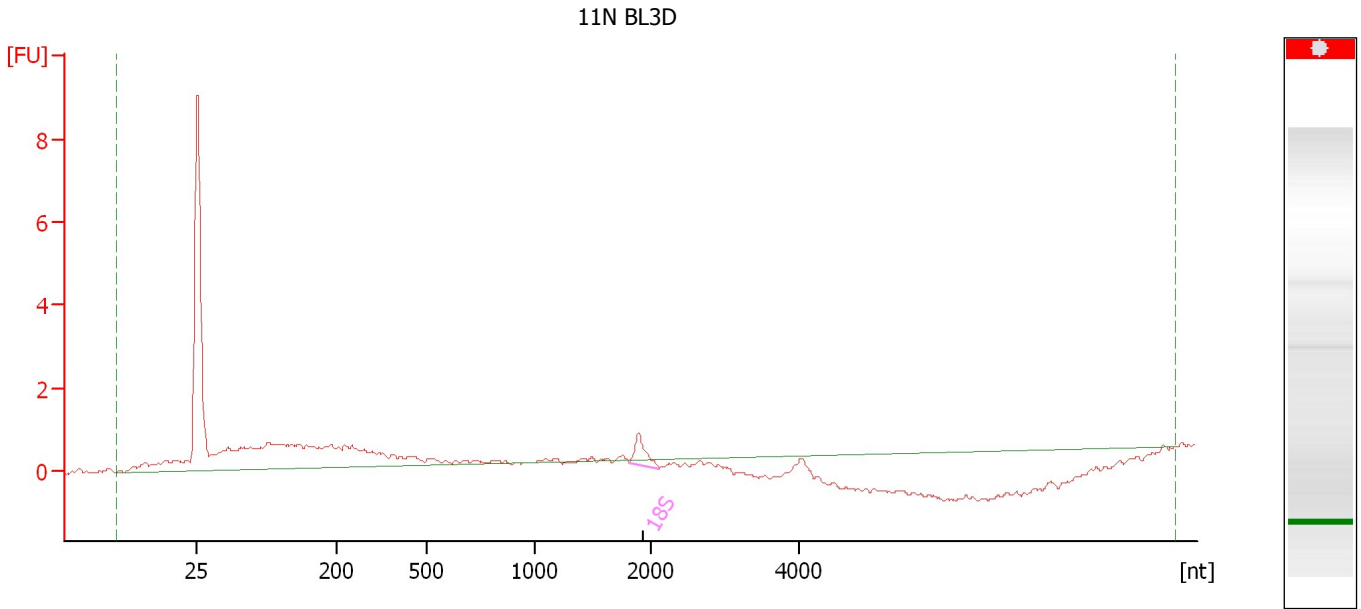
Overall Results for Ladder

RNA Area:	165.8	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\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 11N BL3D

RNA Area:	19.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	18 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

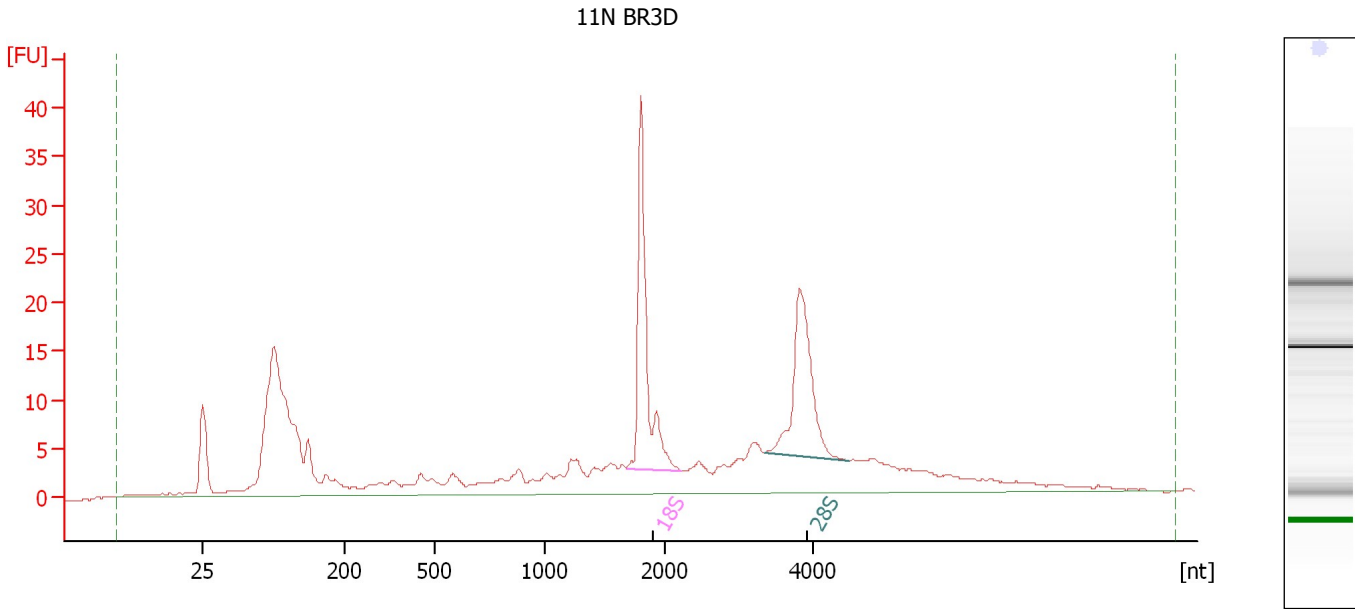
Fragment table for sample 1 : 11N BL3D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,804	2,108	1.0	4.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 11N BR3D

RNA Area: 324.3 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 293 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.40

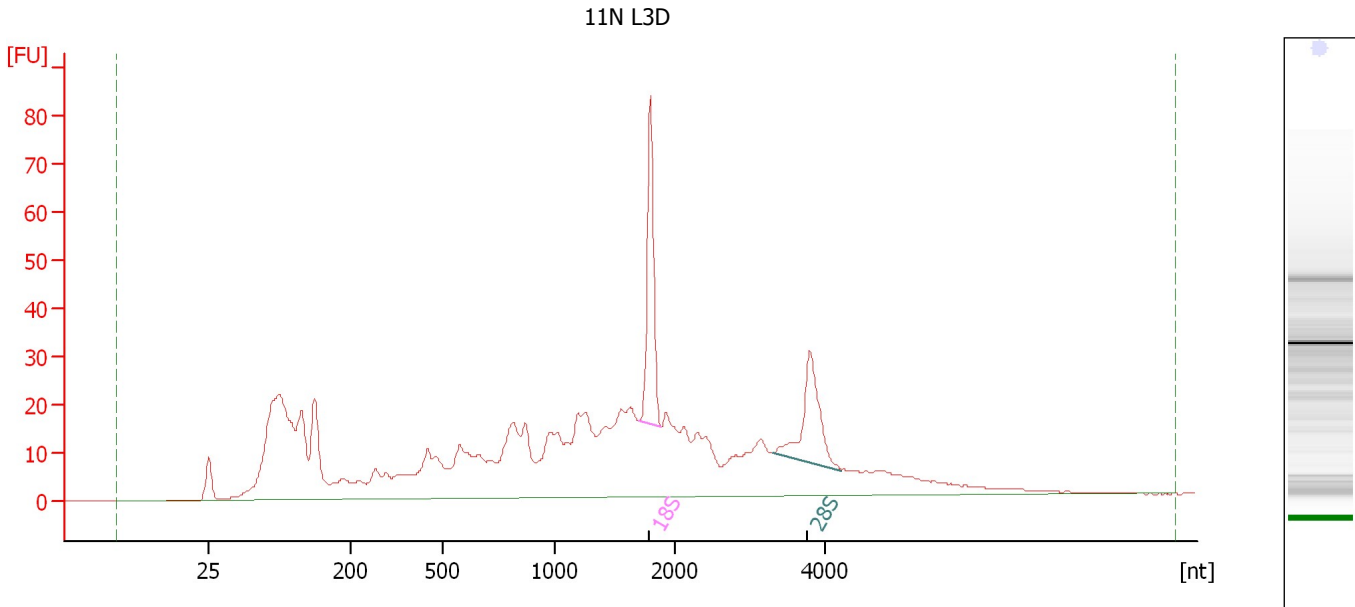
Fragment table for sample 2 : 11N BR3D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	2,228	39.1	12.1
28S	3,349	4,483	32.7	10.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 11N L3D

RNA Area:	889.8	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	805 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 5.20

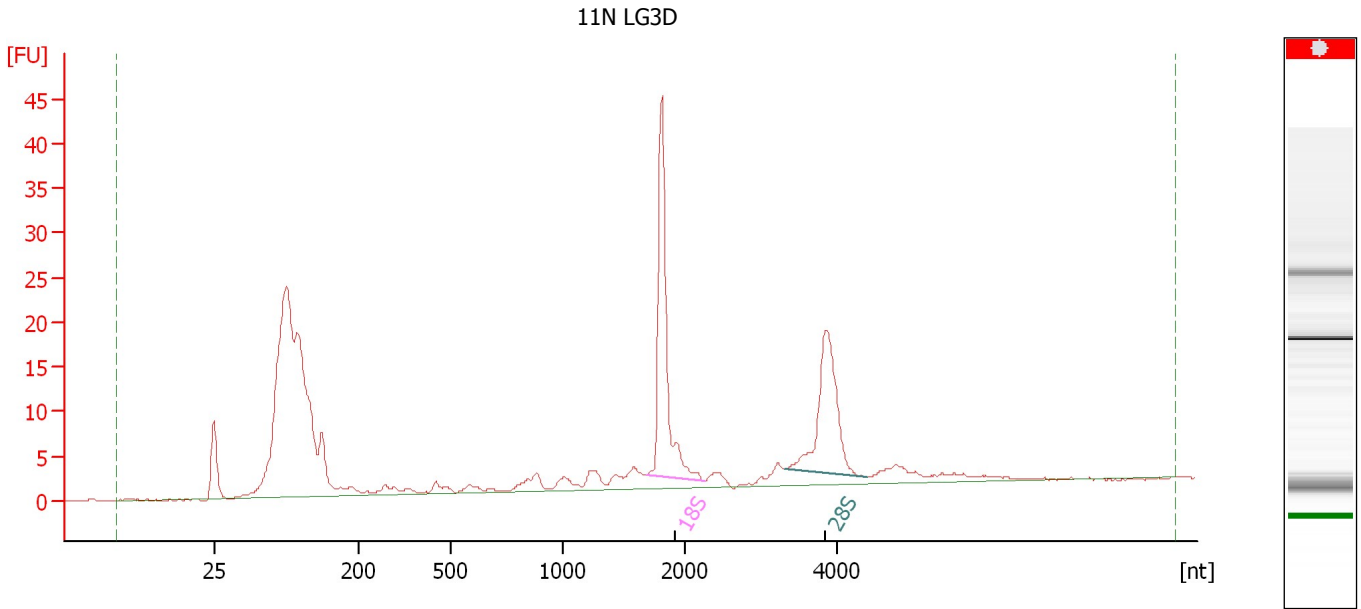
Fragment table for sample 3 : 11N L3D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,710	1,887	54.5	6.1
28S	3,312	4,222	39.6	4.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 11N LG3D

RNA Area:	276.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	251 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN N/A

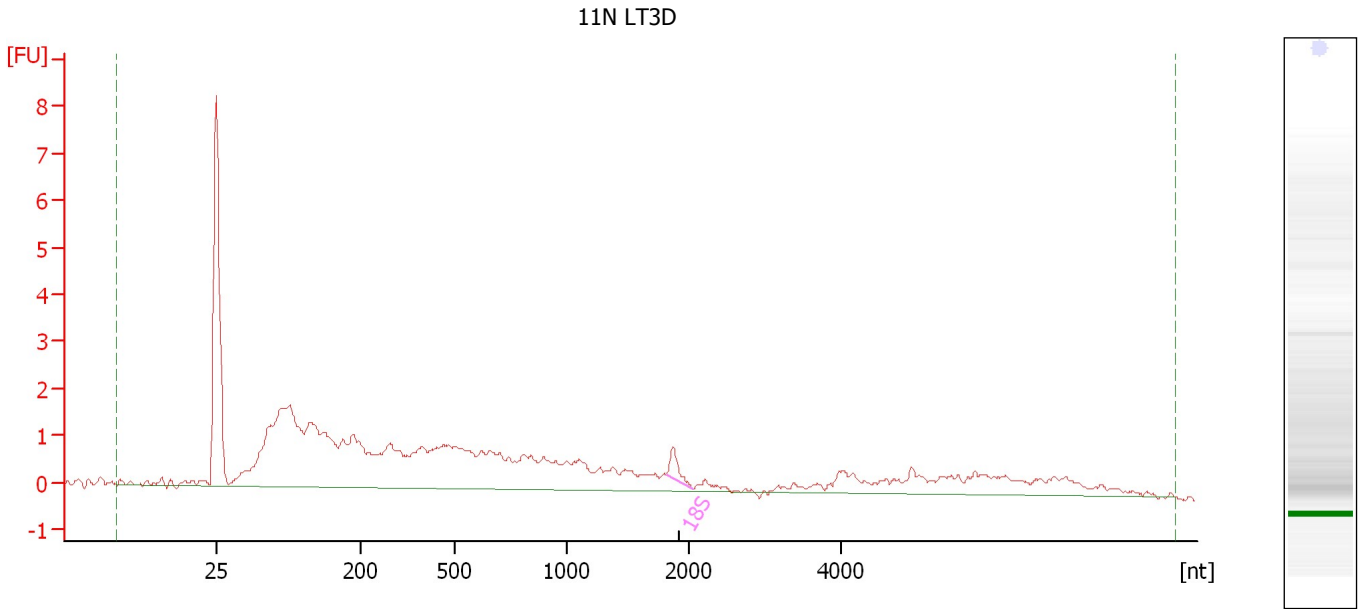
Fragment table for sample 4 : 11N LG3D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	2,264	40.8	14.7
28S	3,318	4,387	30.2	10.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 11N LT3D

RNA Area:	57.1	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

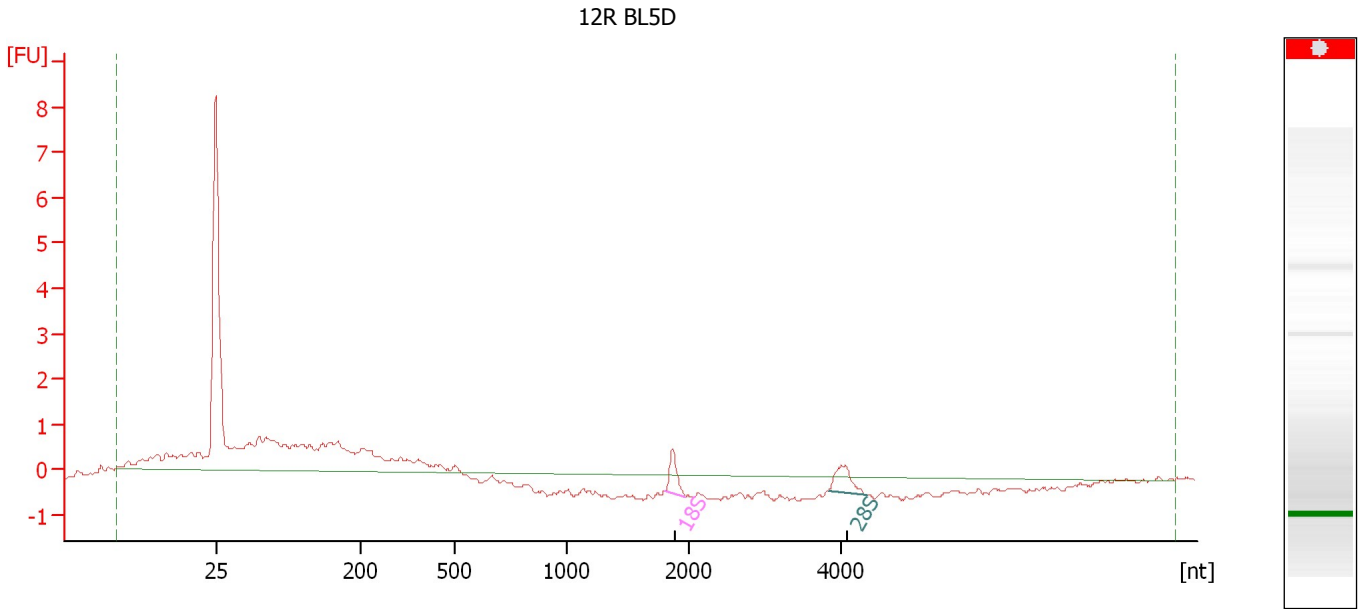
Fragment table for sample 5 : 11N LT3D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,816	2,055	0.7	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 12R BL5D

RNA Area:	20.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN N/A

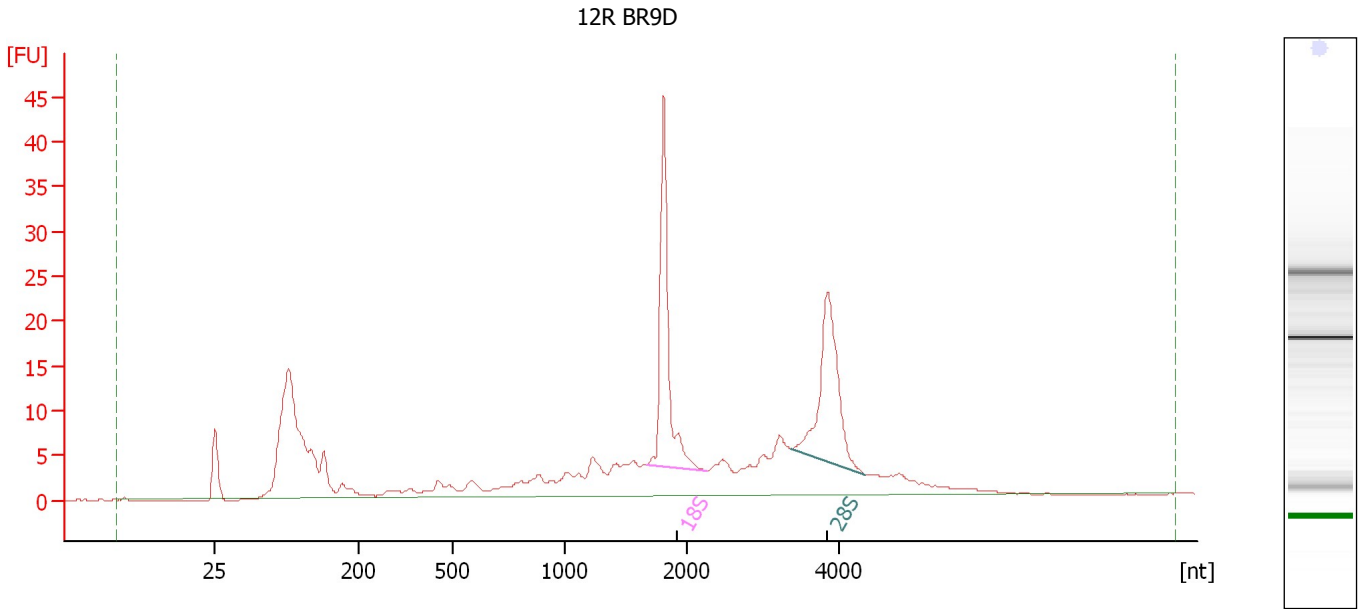
Fragment table for sample 6 : 12R BL5D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,807	1,973	0.8	4.0
28S	3,834	4,324	1.0	4.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12R BR9D

RNA Area: 297.7 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 269 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.30

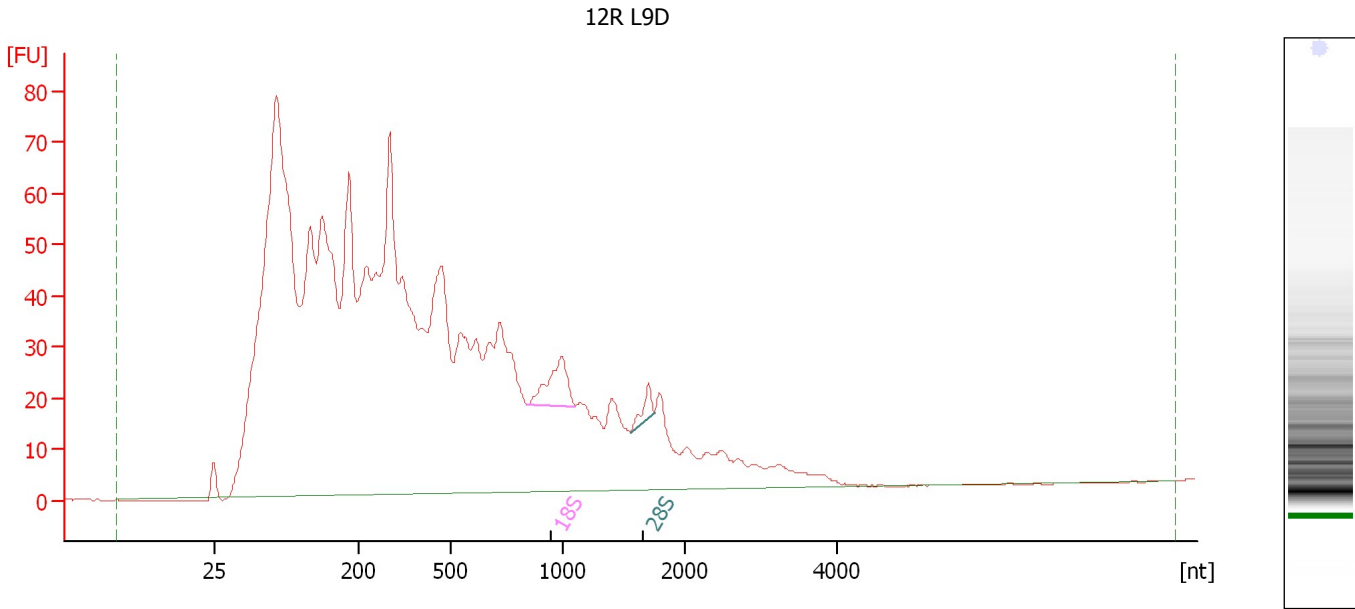
Fragment table for sample 7 : 12R BR9D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	2,264	38.7	13.0
28S	3,373	4,341	34.9	11.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 12R L9D

RNA Area: 2,075.6 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 1,878 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 2.40

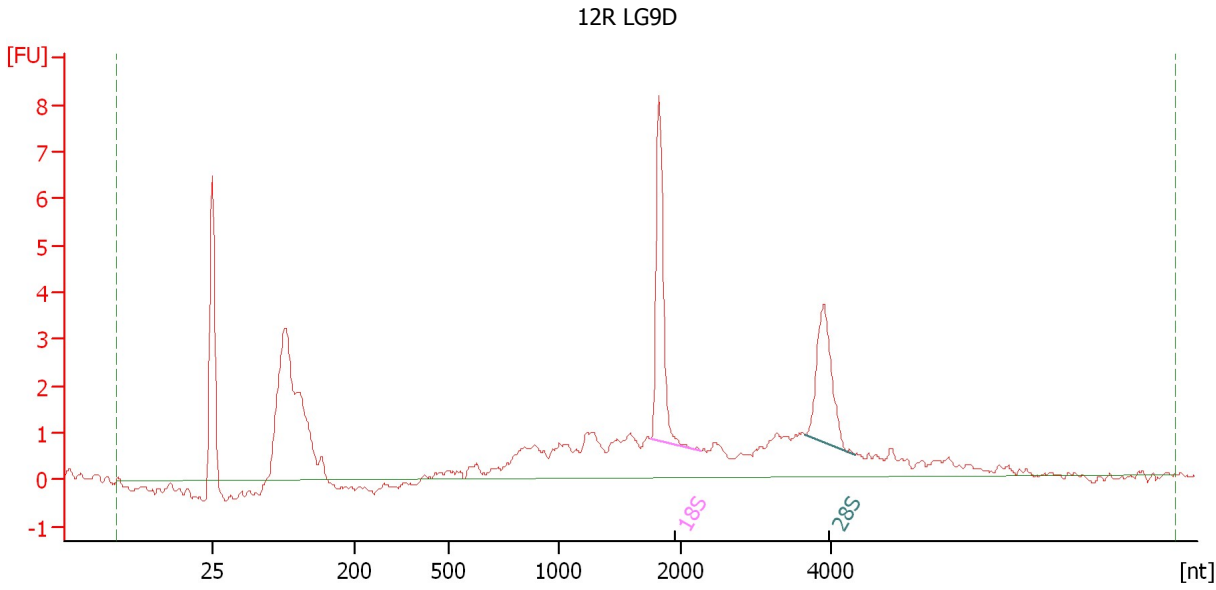
Fragment table for sample 8 : 12R L9D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	1,103	24.3	1.2
28S	1,550	1,752	6.4	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 12R LG9D

RNA Area: 55.9 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 51 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.50

Fragment table for sample 9 : 12R LG9D

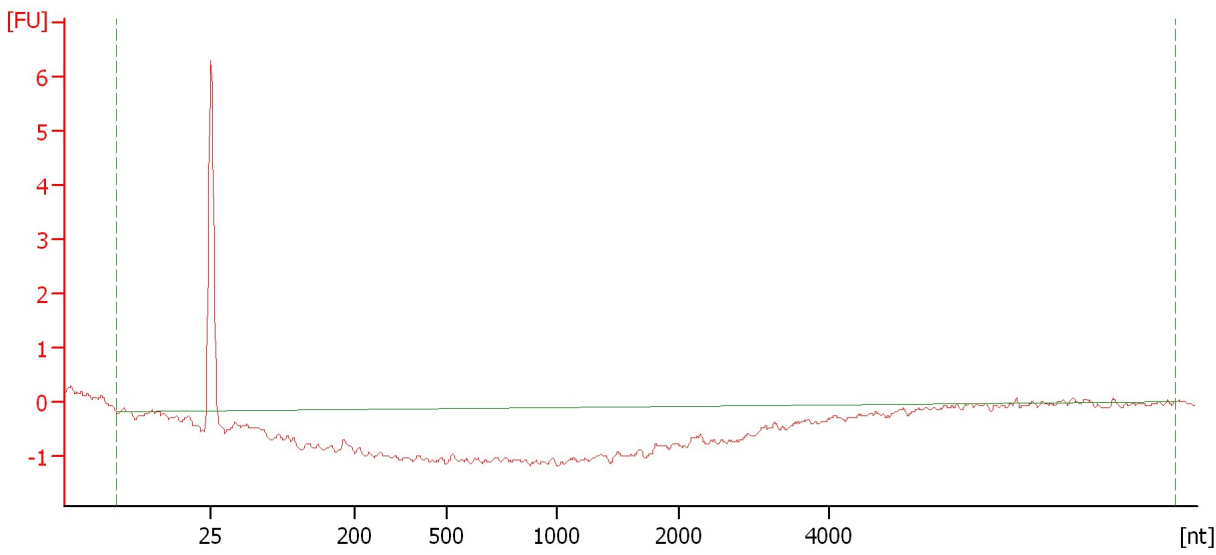
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	2,276	6.1	10.9
28S	3,632	4,296	4.6	8.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...

12R LT9D



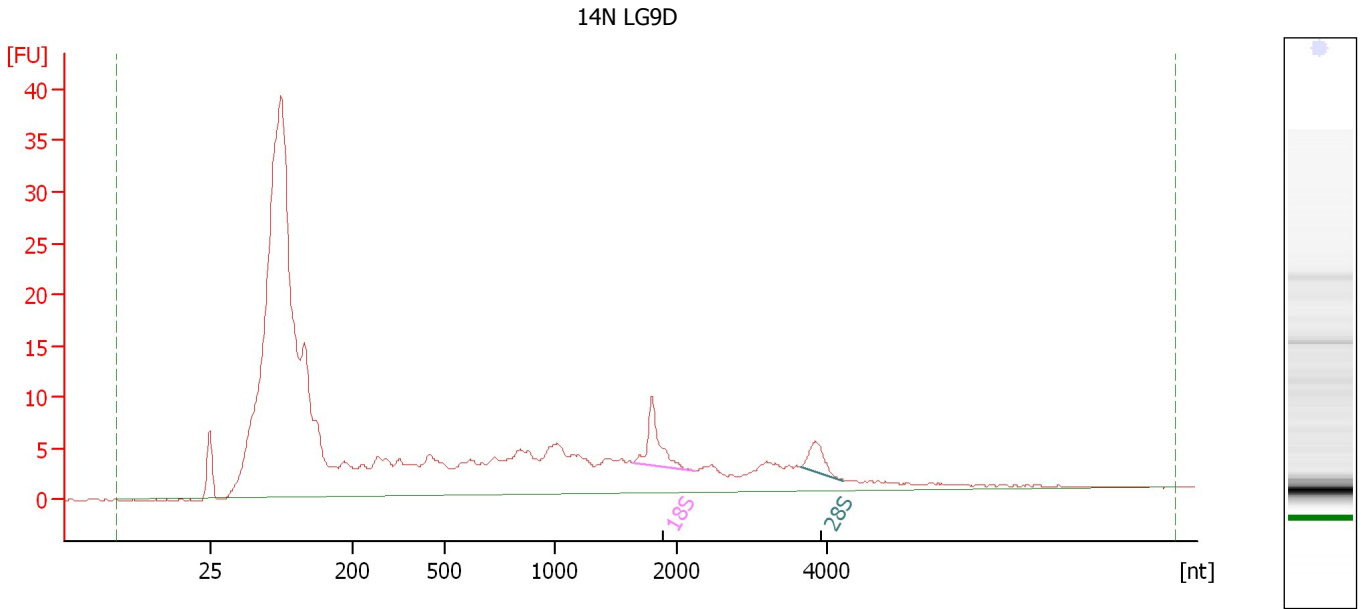
Overall Results for sample 10 : 12R LT9D

RNA Area:	0.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 14N LG9D

RNA Area:	437.6	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	396 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 2.80

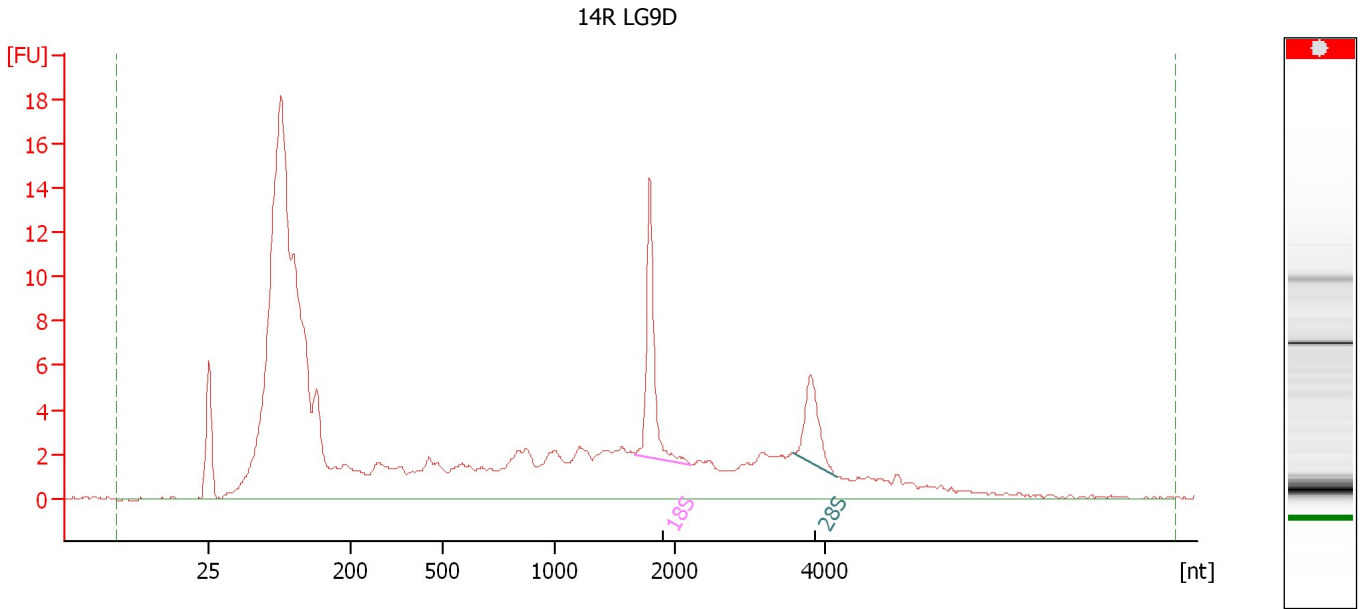
Fragment table for sample 11 : 14N LG9D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	2,233	9.3	2.1
28S	3,651	4,218	4.4	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 14R LG9D

RNA Area:	231.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	209 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN N/A

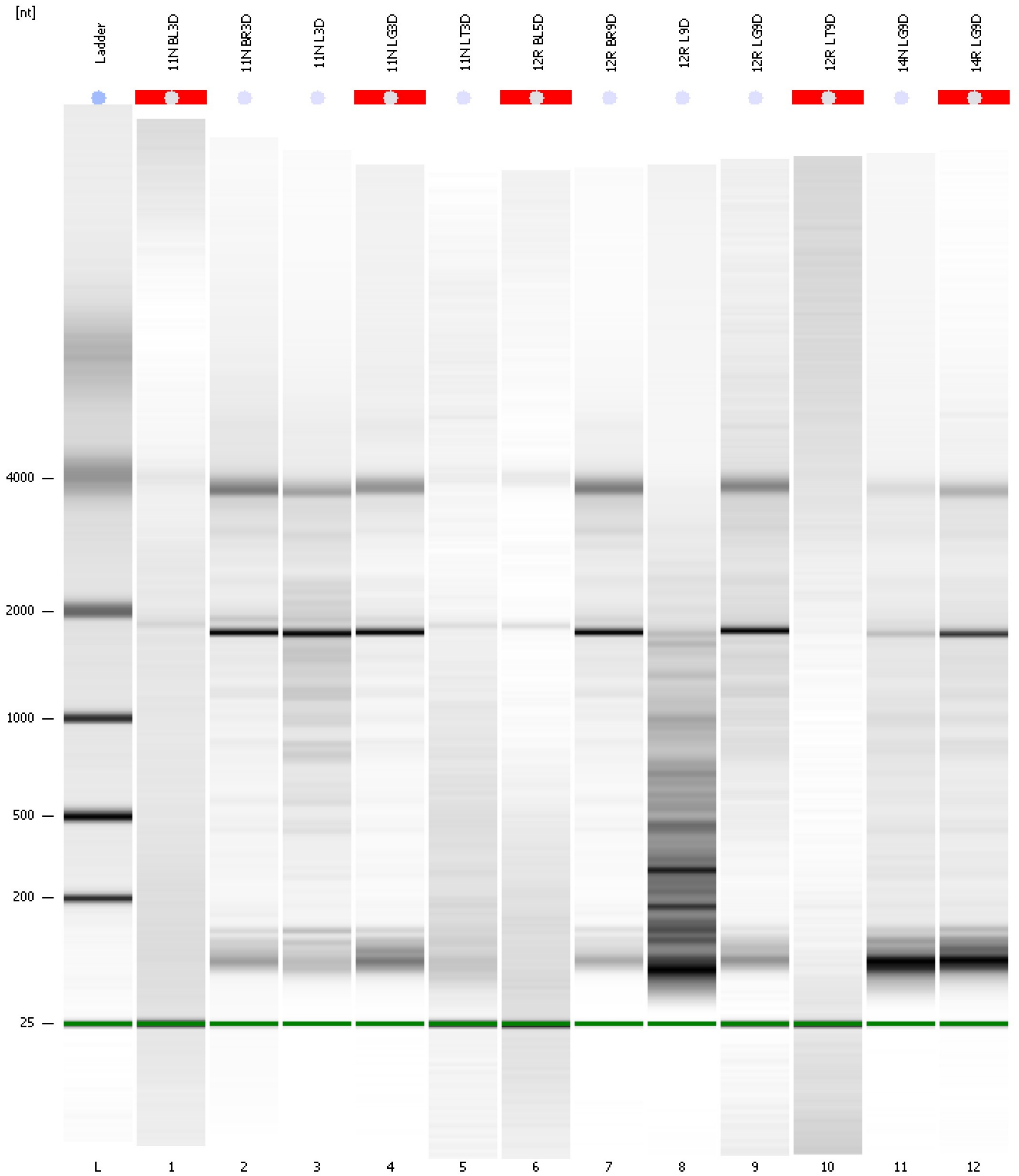
Fragment table for sample 12 : 14R LG9D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	2,232	11.5	5.0
28S	3,582	4,151	5.6	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
Modified: 1/5/2017 12:10:40 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-05\2017-01-05_001.xad

Created: 1/5/2017 11:46:51 AM
 Modified: 1/5/2017 12:10:40 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		1/5/2017 12:10:38 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\2017-01-05\2017-01-05_001.xad)		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/5/2017 11:46:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1