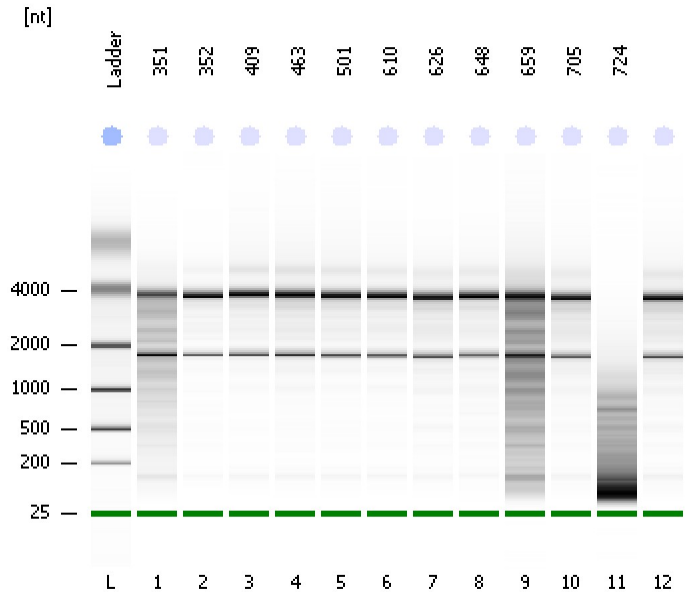


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electrophoresis File Run Summary



Instrument Information:

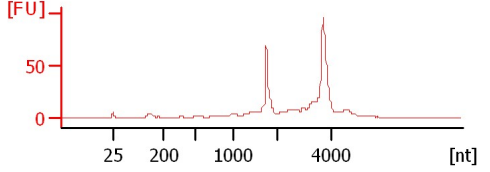
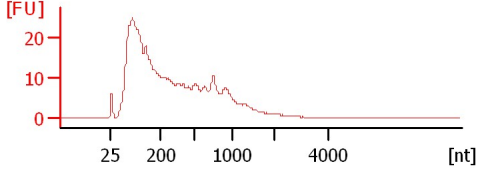
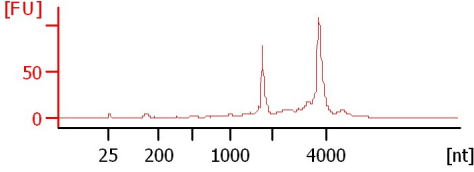
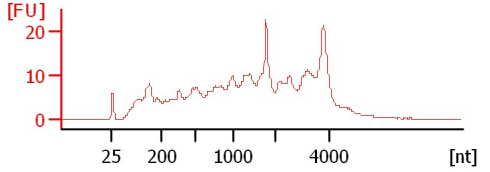
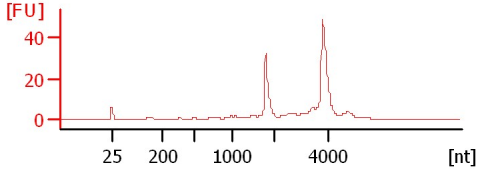
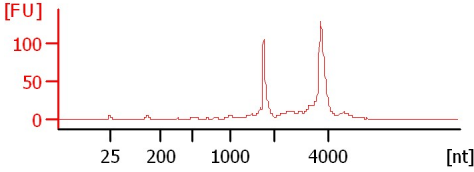
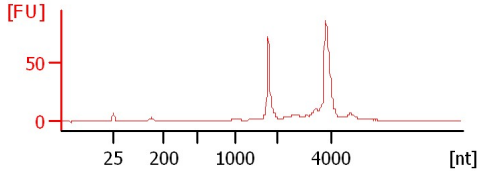
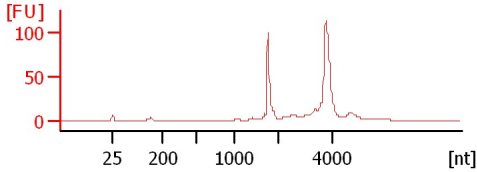
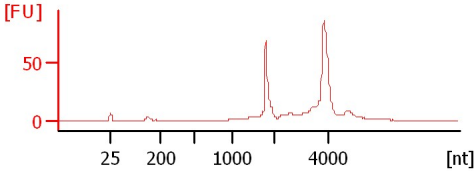
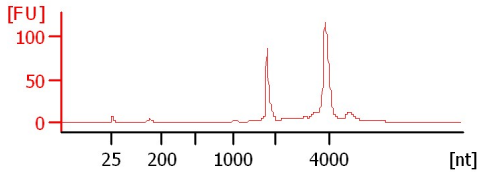
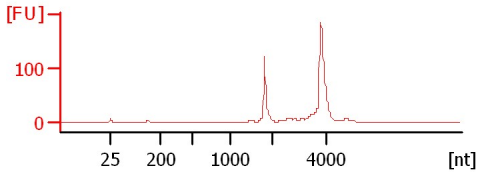
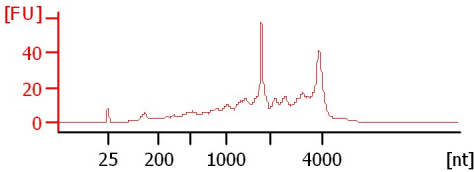
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
351		✓	RIN: 6.20	
352		✓	RIN: 9.50	
409		✓	RIN: 9.80	
463		✓	RIN: 9.40	
501		✓	RIN: 9.60	
610		✓	RIN: 9.60	
626		✓	RIN:9	
648		✓	RIN:9	
659		✓	RIN: 4.70	
705		✓	RIN: 8.90	
724		✓	RIN: 2.10	
		✓	RIN: 8.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 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

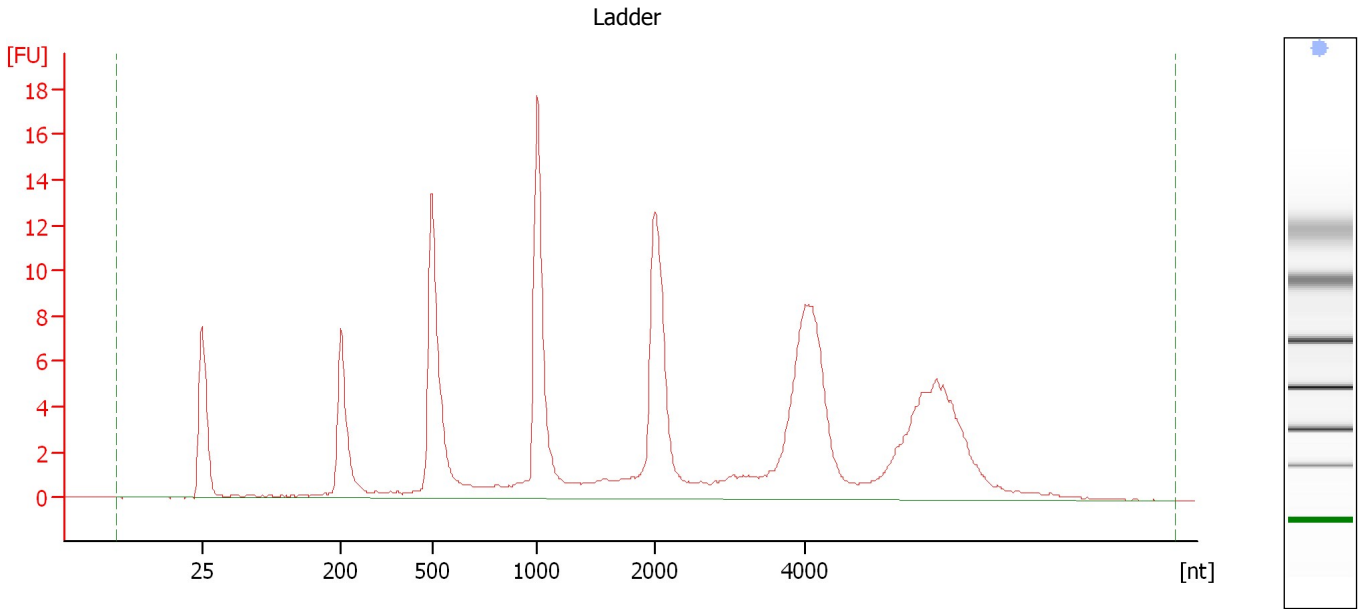
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary



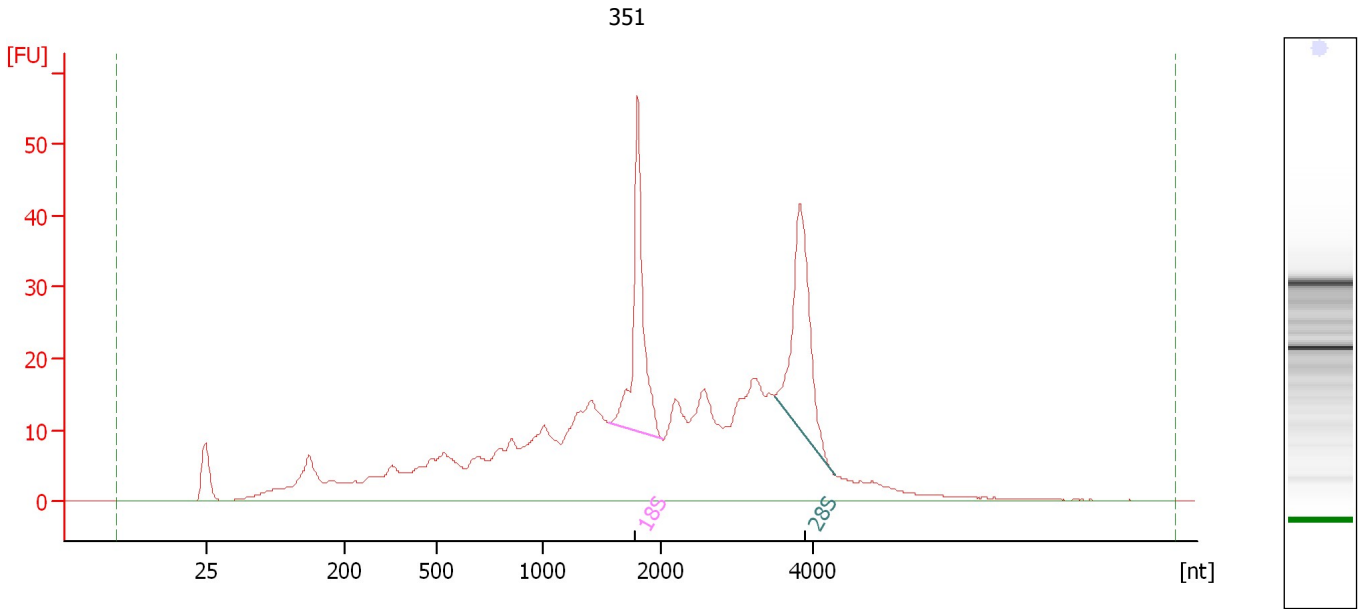
Overall Results for Ladder

RNA Area:	163.5	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
 Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 351

RNA Area:	646.3	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	593 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.20

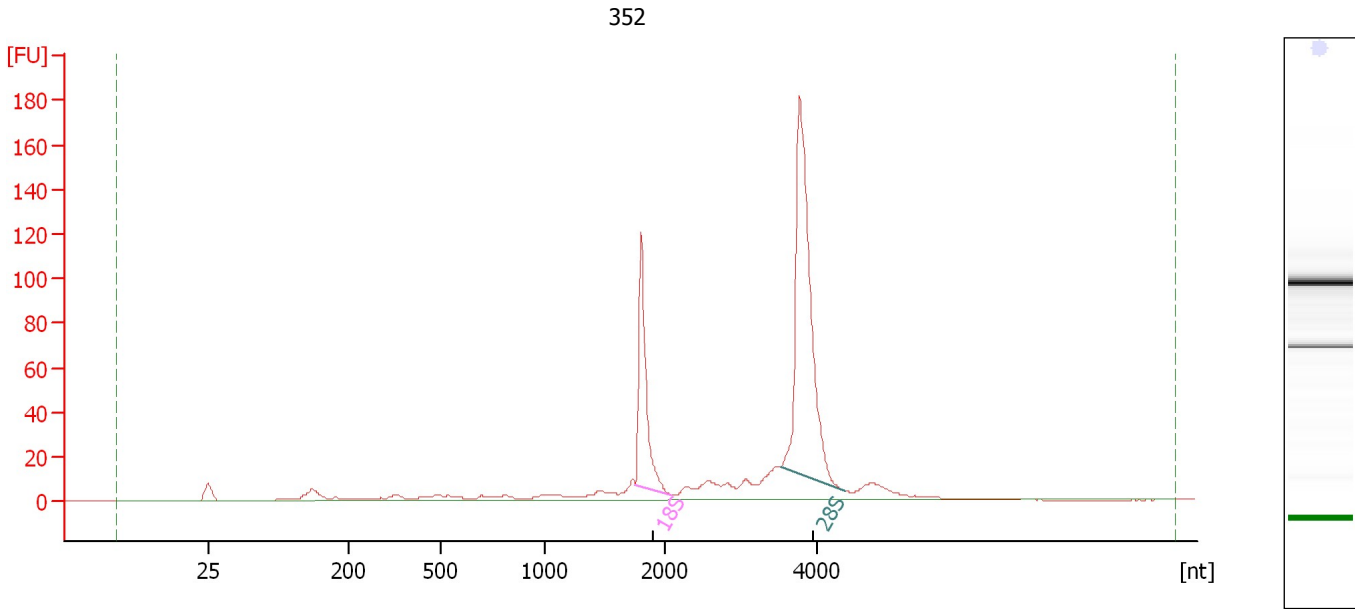
Fragment table for sample 1 : 351

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	2,004	55.4	8.6
28S	3,494	4,303	56.3	8.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 352

RNA Area: 626.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 575 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 9.50

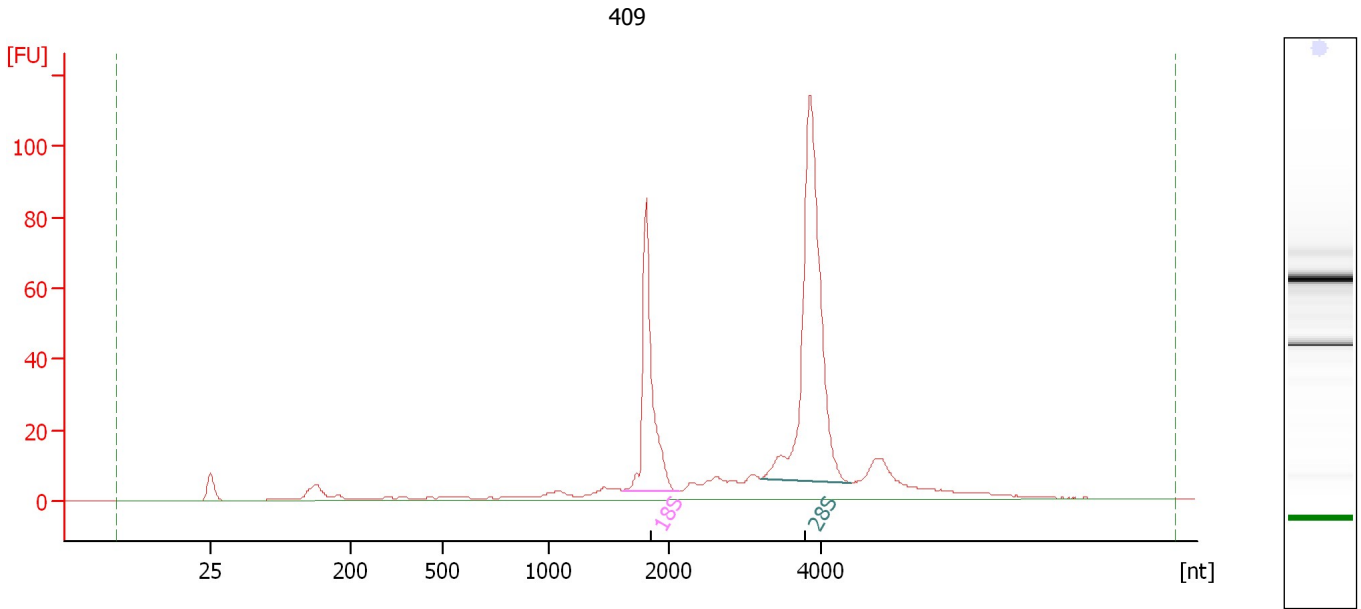
Fragment table for sample 2 : 352

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	2,077	97.5	15.6
28S	3,519	4,367	256.4	40.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 409

RNA Area:	502.3	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	461 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.80

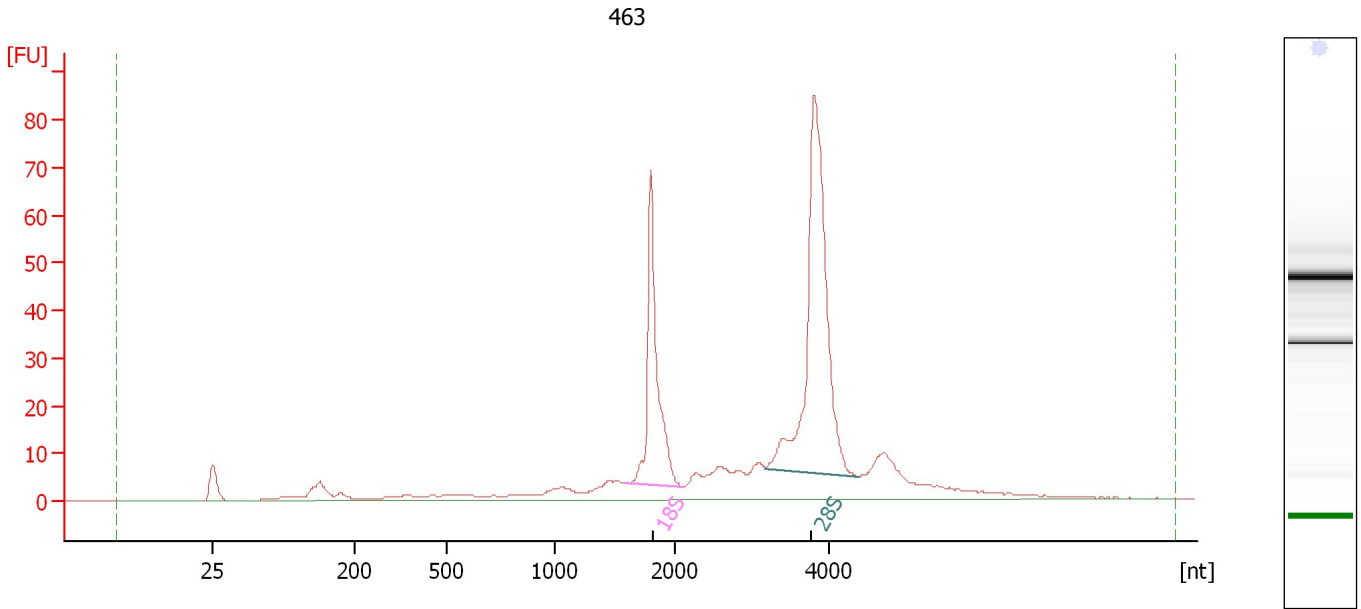
Fragment table for sample 3 : 409

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	2,122	89.5	17.8
28S	3,206	4,388	200.4	39.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
 Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 463

RNA Area:	455.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	418 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.40

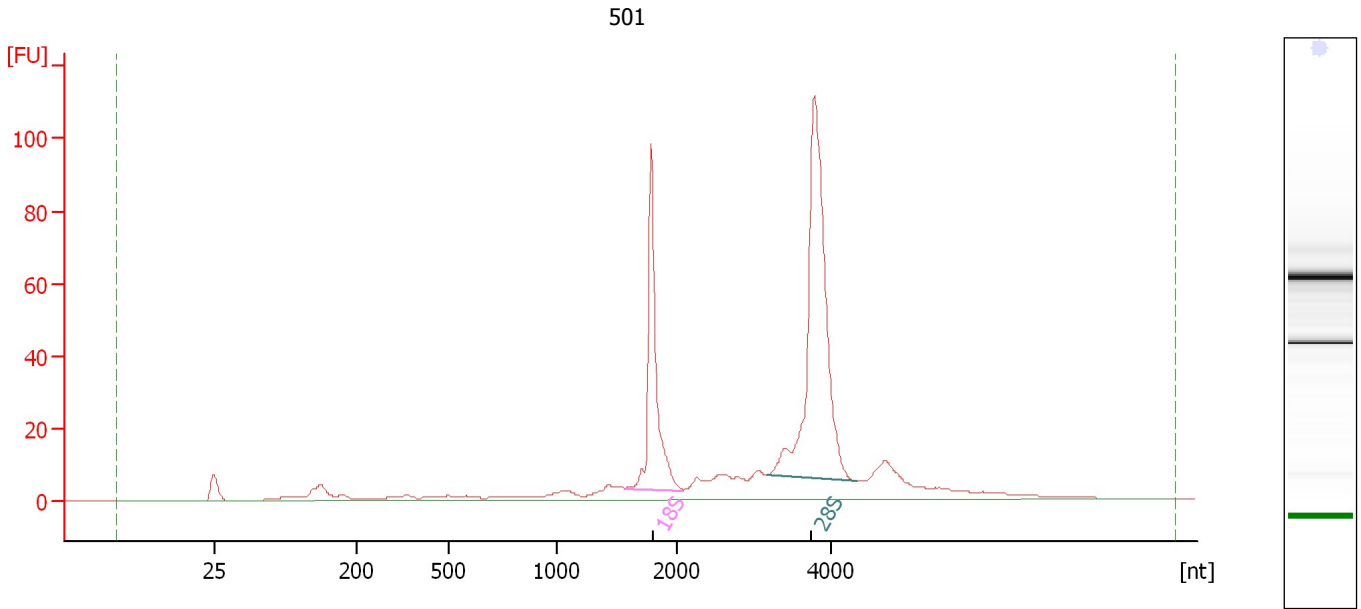
Fragment table for sample 4 : 463

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	2,083	76.9	16.9
28S	3,174	4,391	156.0	34.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 501

RNA Area:	517.4	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	475 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.60

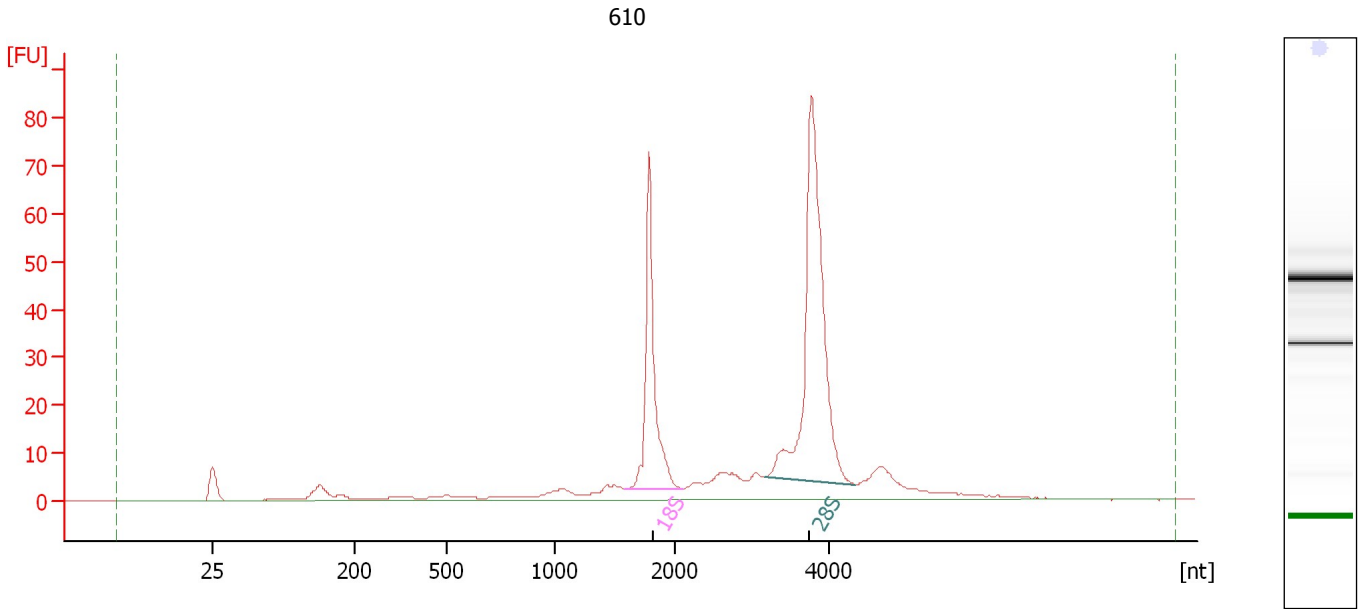
Fragment table for sample 5 : 501

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	2,070	92.2	17.8
28S	3,159	4,332	195.4	37.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 610

RNA Area:	381.5	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	350 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.60

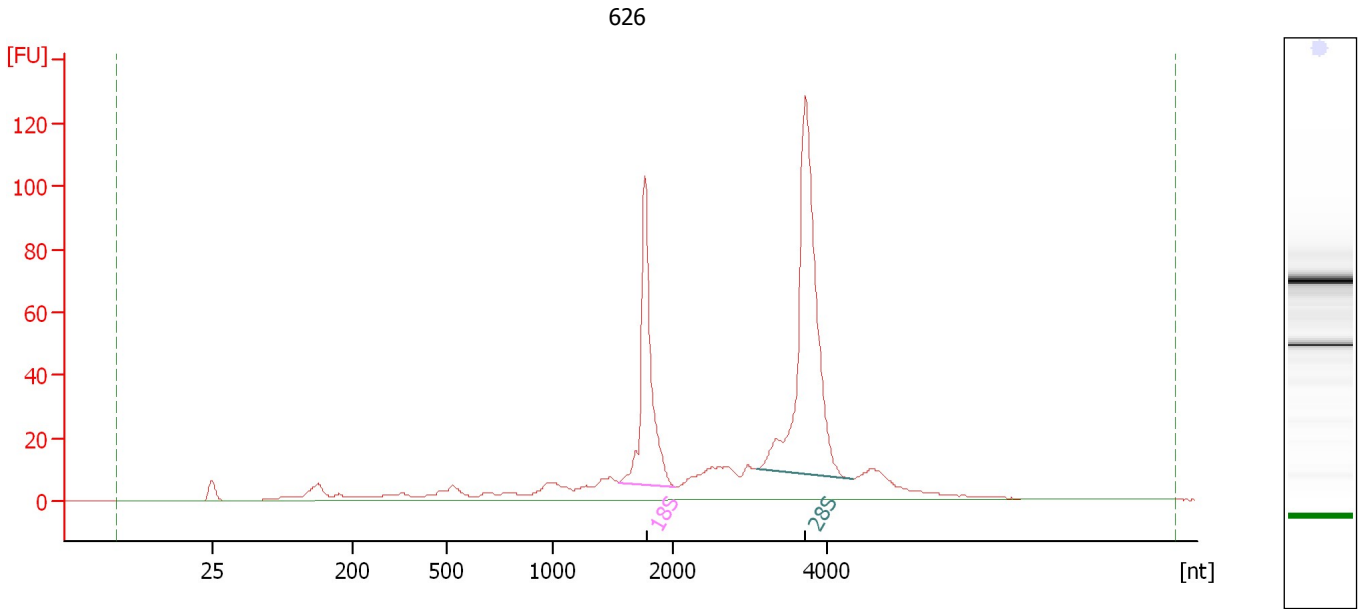
Fragment table for sample 6 : 610

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	2,083	71.4	18.7
28S	3,160	4,335	146.9	38.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 626

RNA Area: 673.5 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 618 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:9

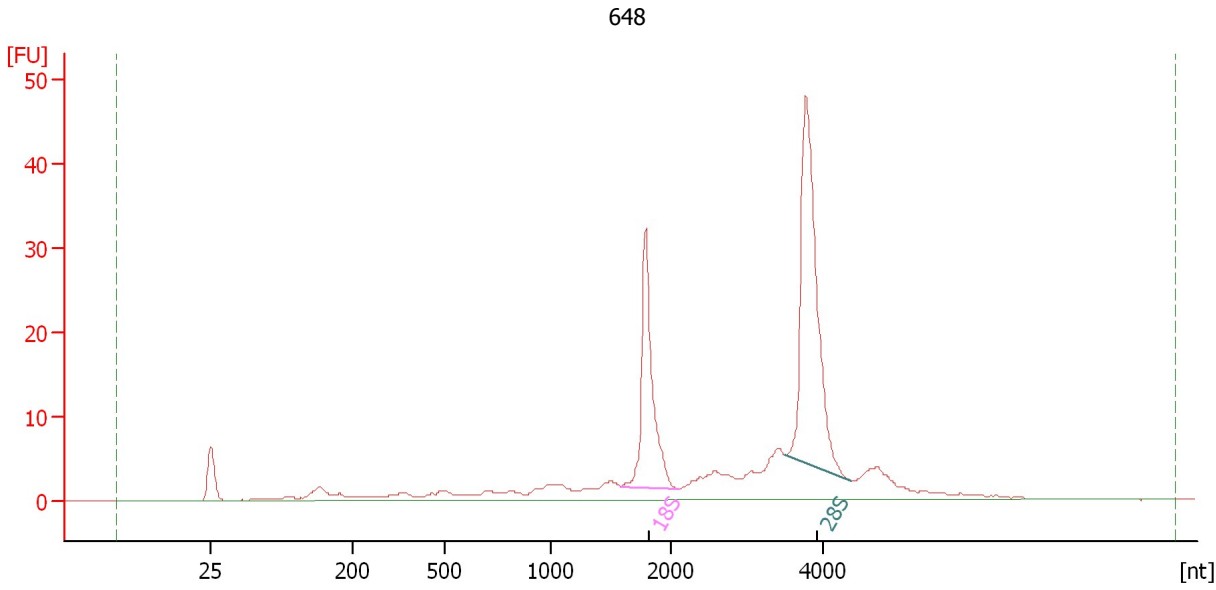
Fragment table for sample 7 : 626

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	2,026	112.2	16.7
28S	3,091	4,339	224.2	33.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 648

RNA Area:	231.6	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	213 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:9

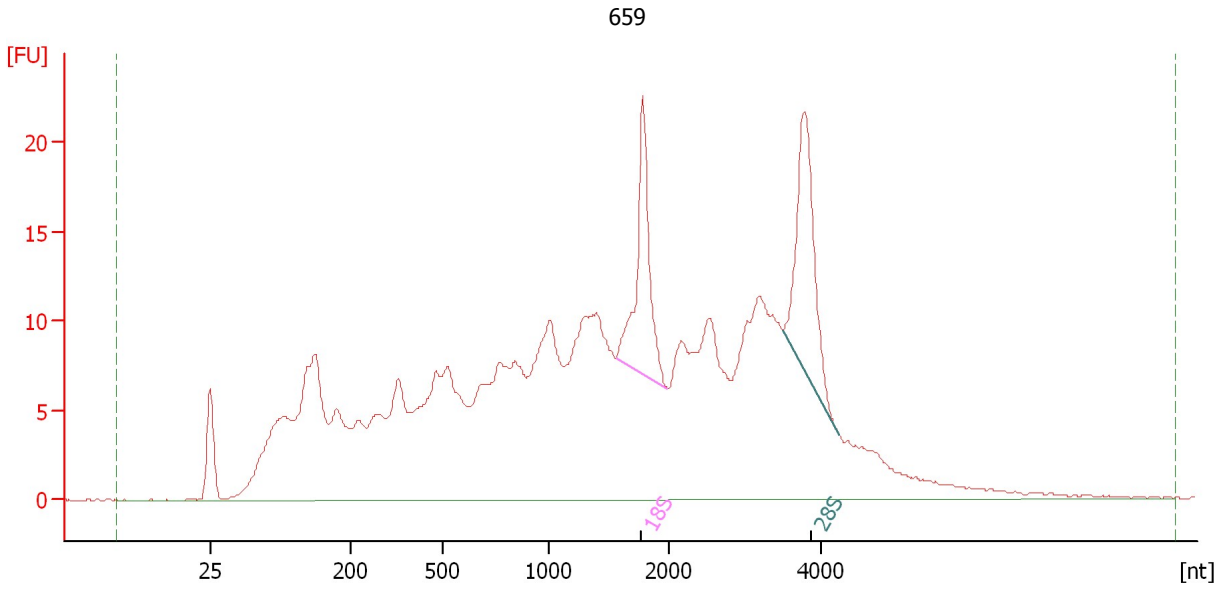
Fragment table for sample 8 : 648

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	2,081	37.9	16.4
28S	3,485	4,356	70.6	30.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 659

RNA Area:	548.2	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	503 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 4.70

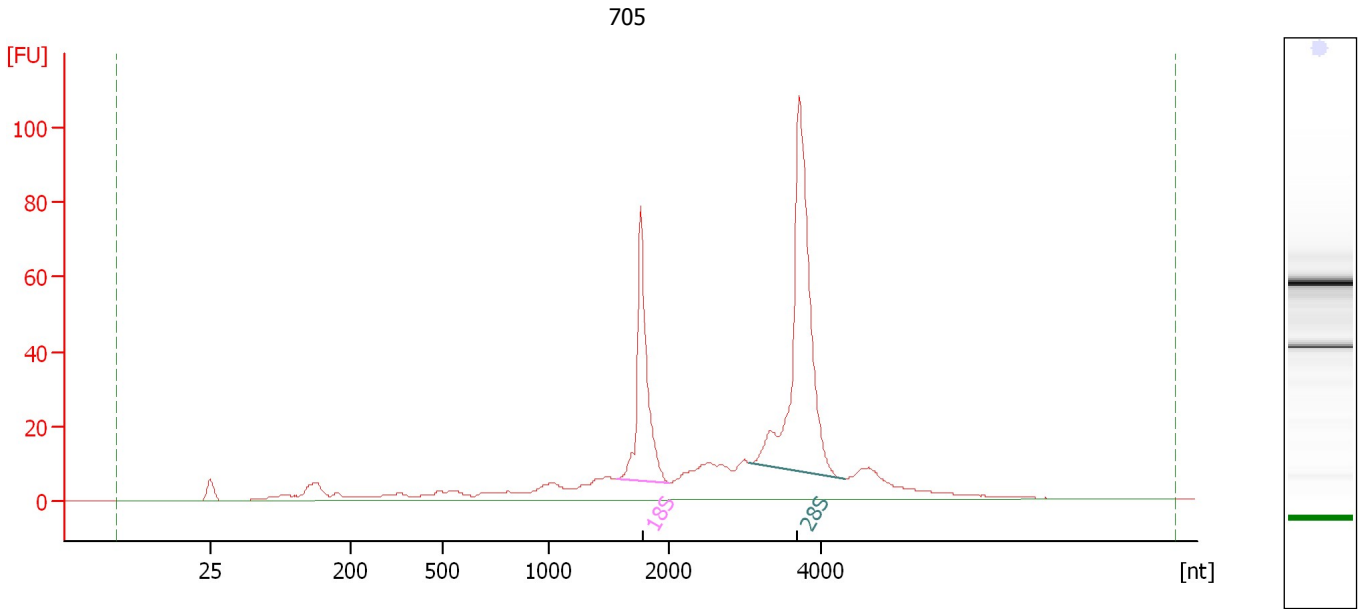
Fragment table for sample 9 : 659

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	1,979	22.7	4.1
28S	3,487	4,233	26.4	4.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 705

RNA Area:	582.2	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	534 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.90

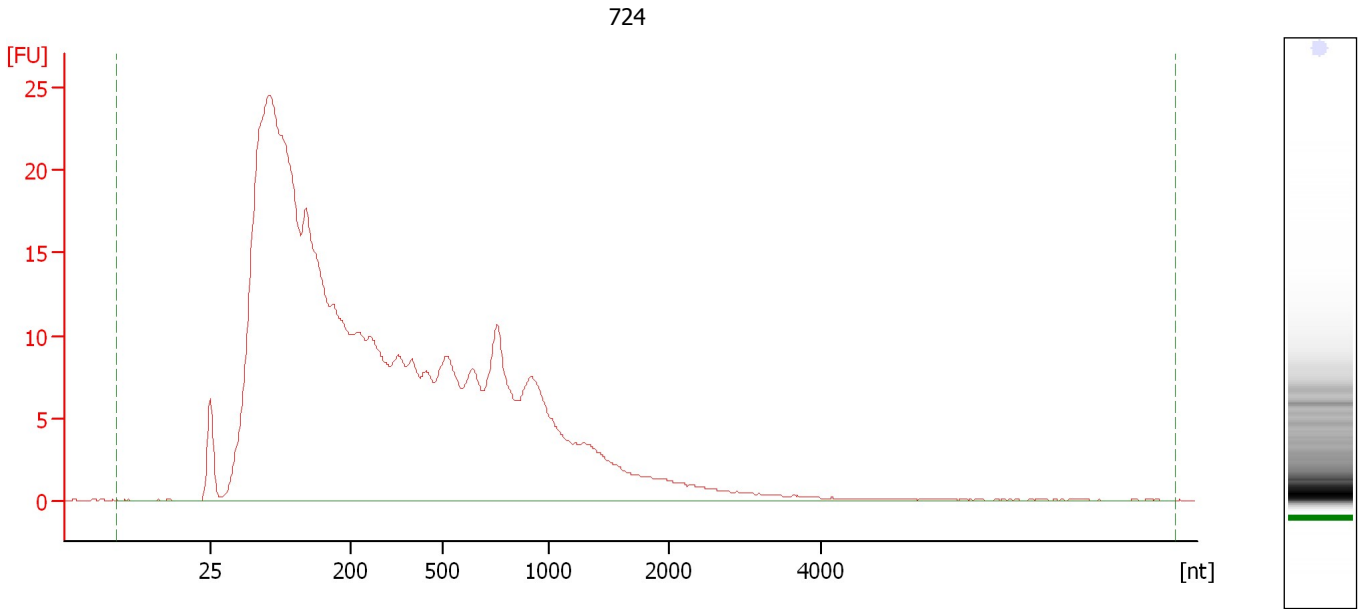
Fragment table for sample 10 : 705

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	1,988	84.0	14.4
28S	3,051	4,304	178.4	30.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



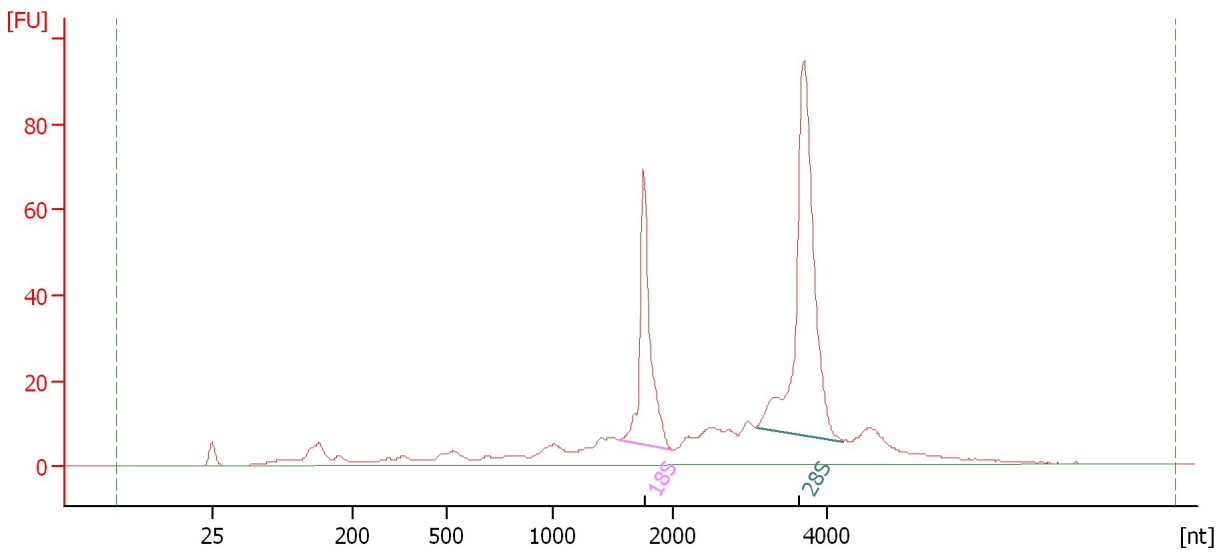
Overall Results for sample 11 : 724

RNA Area:	572.9	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	526 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area:	547.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	502 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.80

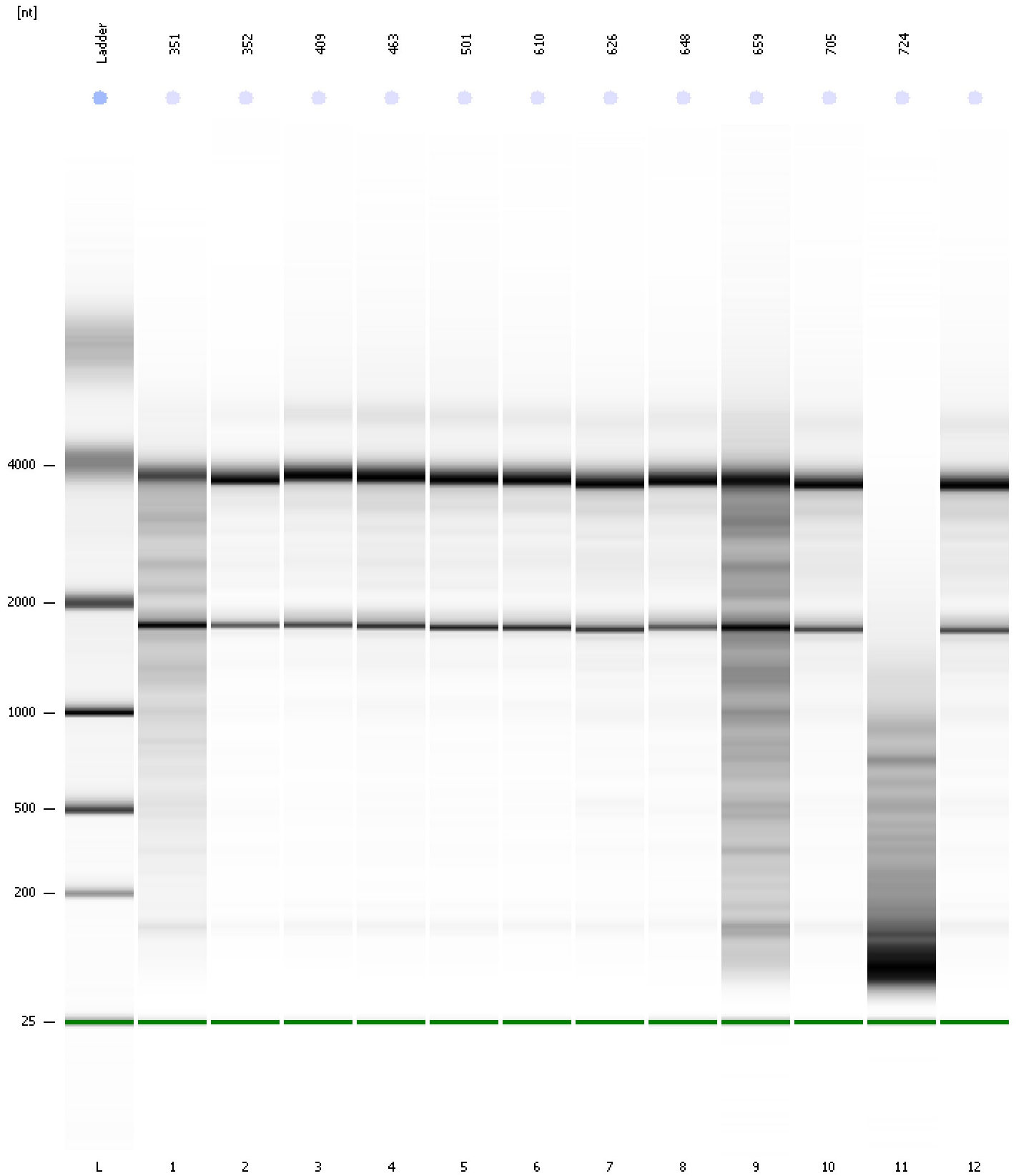
Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,539	1,998	76.4	14.0
28S	3,077	4,227	160.2	29.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
Modified: 12/21/2015 11:53:24 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad

Created: 12/21/2015 11:28:55 AM
 Modified: 12/21/2015 11:53:24 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		12/21/2015 11:52:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-21\2015-12-21_001.xad)		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/21/2015 11:29:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1