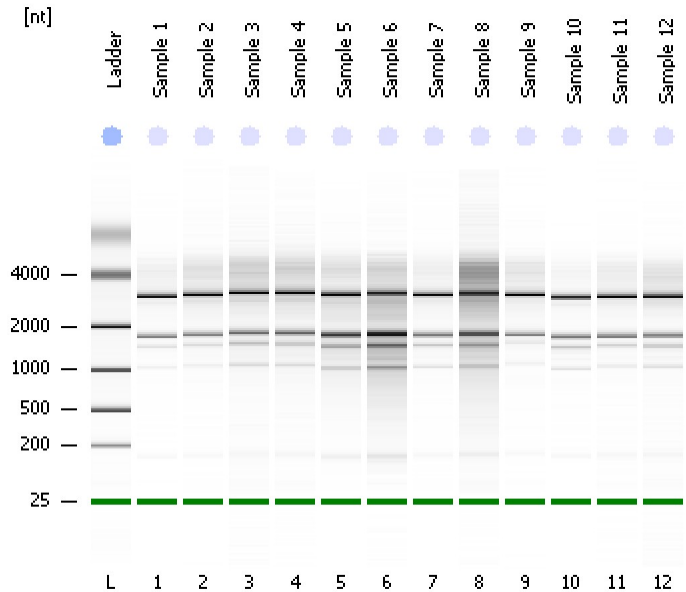


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

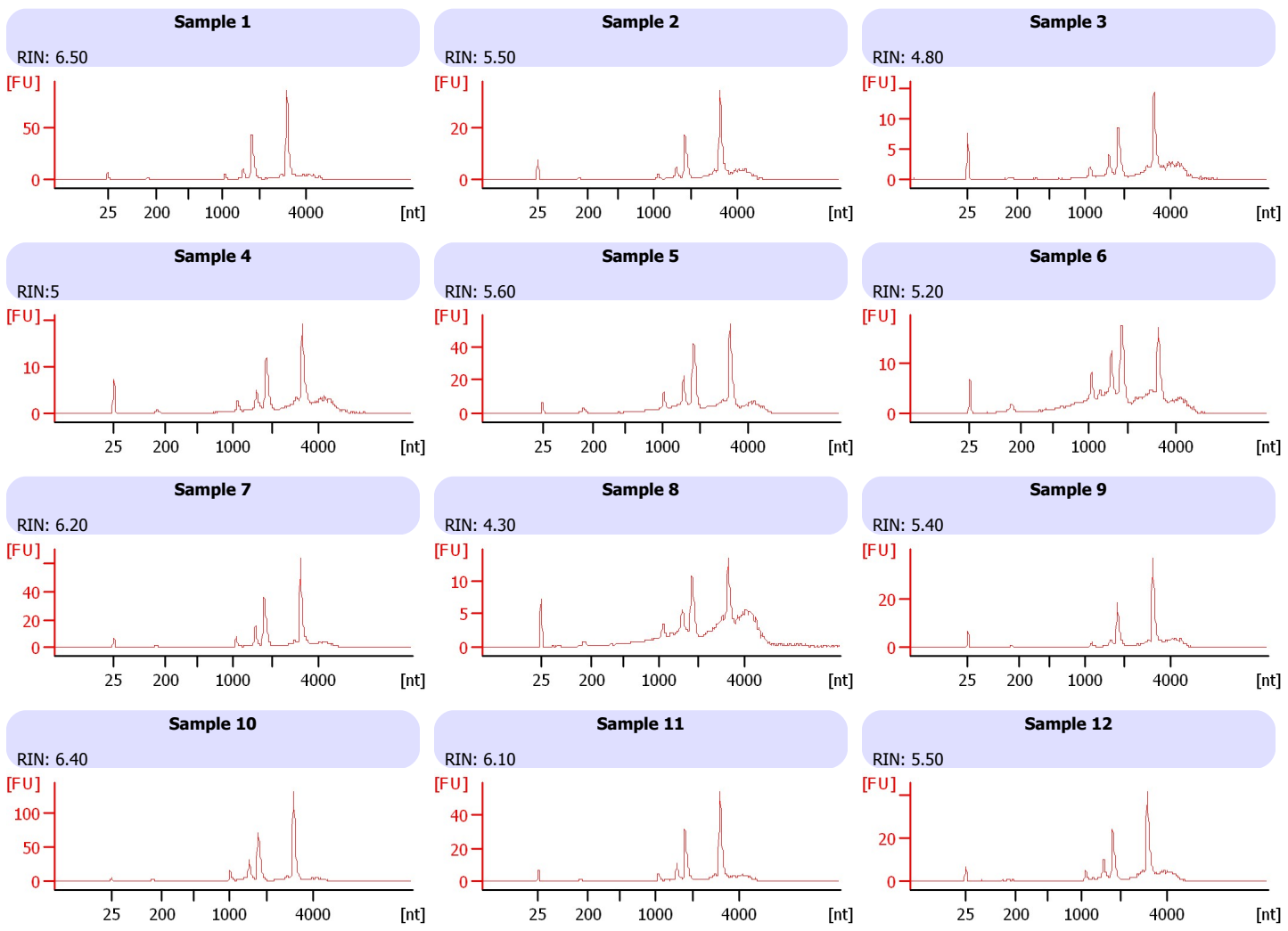
Electrophoresis File Run Summary



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)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
 Modified: 1/26/2015 2:53:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 6.50	
Sample 2		✓	RIN: 5.50	
Sample 3		✓	RIN: 4.80	
Sample 4		✓	RIN:5	
Sample 5		✓	RIN: 5.60	
Sample 6		✓	RIN: 5.20	
Sample 7		✓	RIN: 6.20	
Sample 8		✓	RIN: 4.30	
Sample 9		✓	RIN: 5.40	
Sample 10		✓	RIN: 6.40	
Sample 11		✓	RIN: 6.10	
Sample 12		✓	RIN: 5.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 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

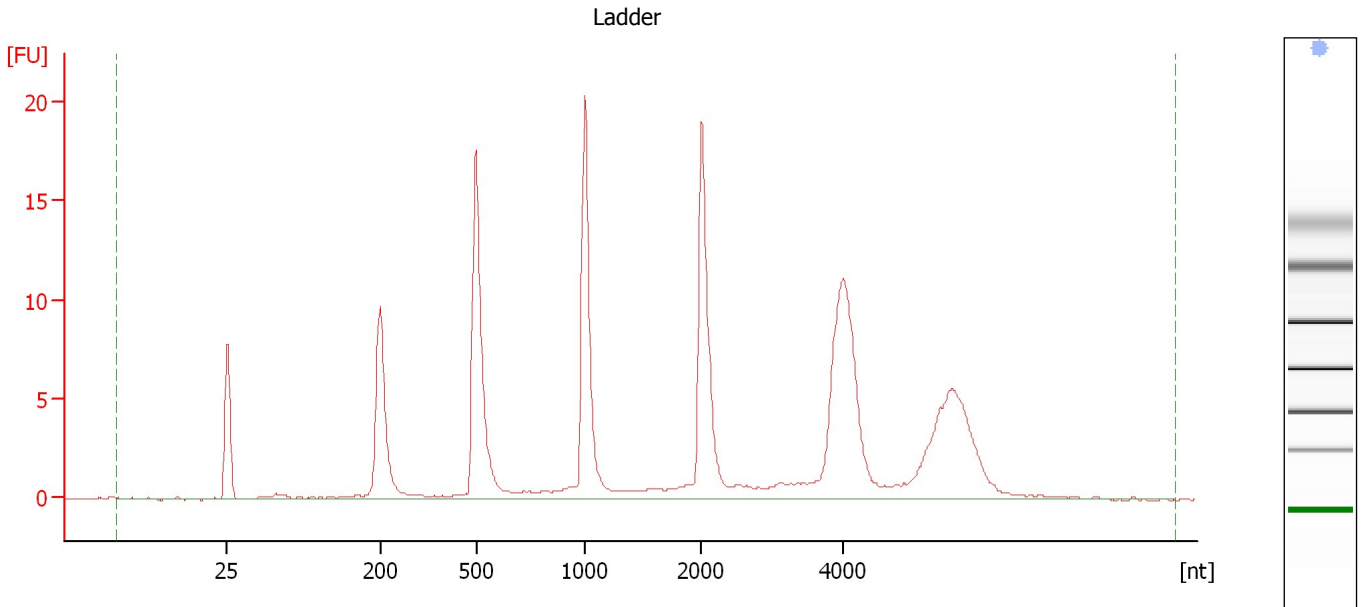
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary



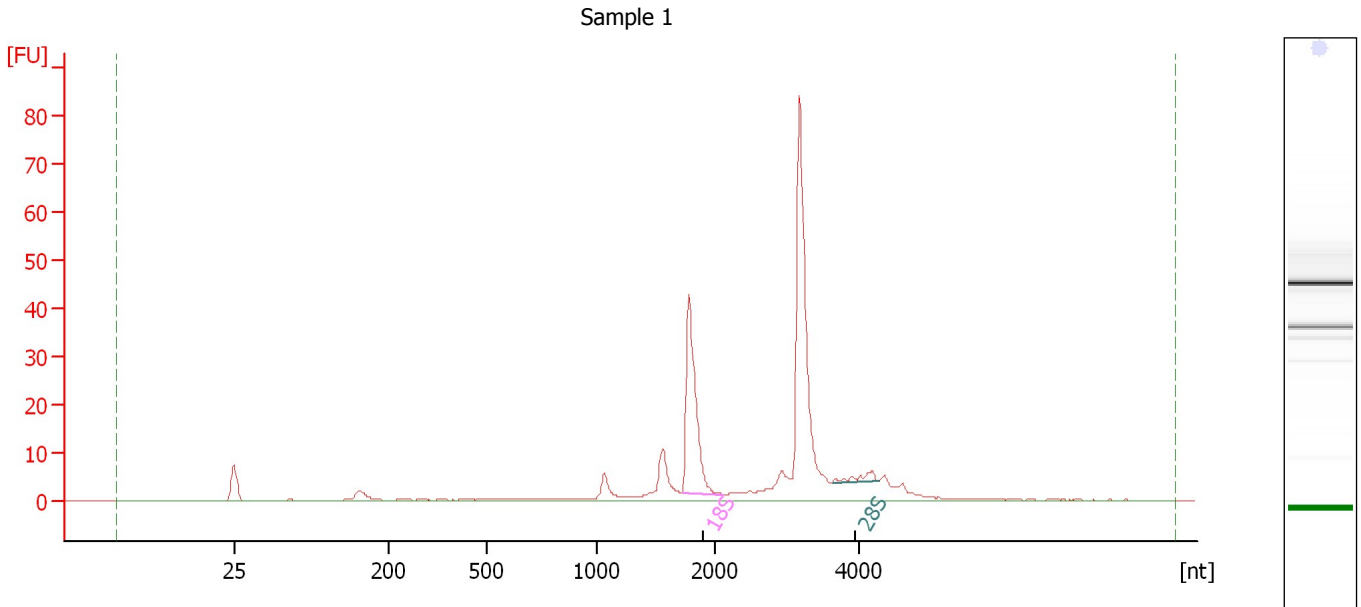
Overall Results for Ladder

RNA Area:	147.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
 Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	217.9	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	221 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 6.50

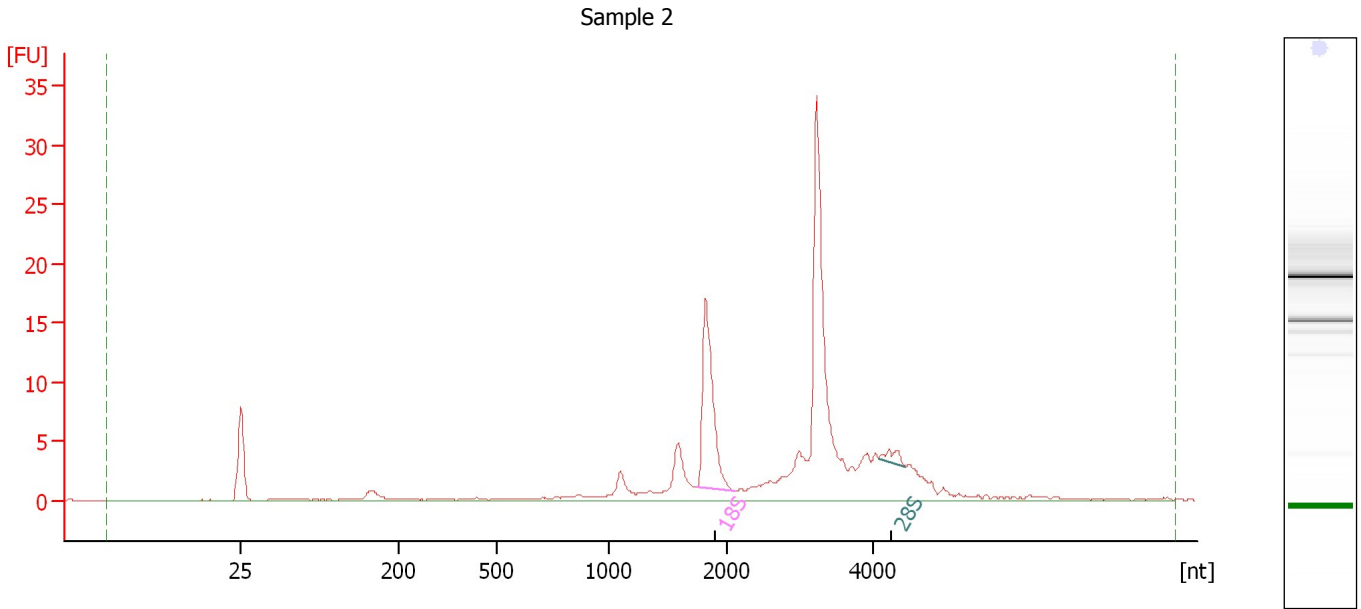
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,716	2,114	44.1	20.2
28S	3,626	4,264	3.3	1.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	120.9	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	123 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.50

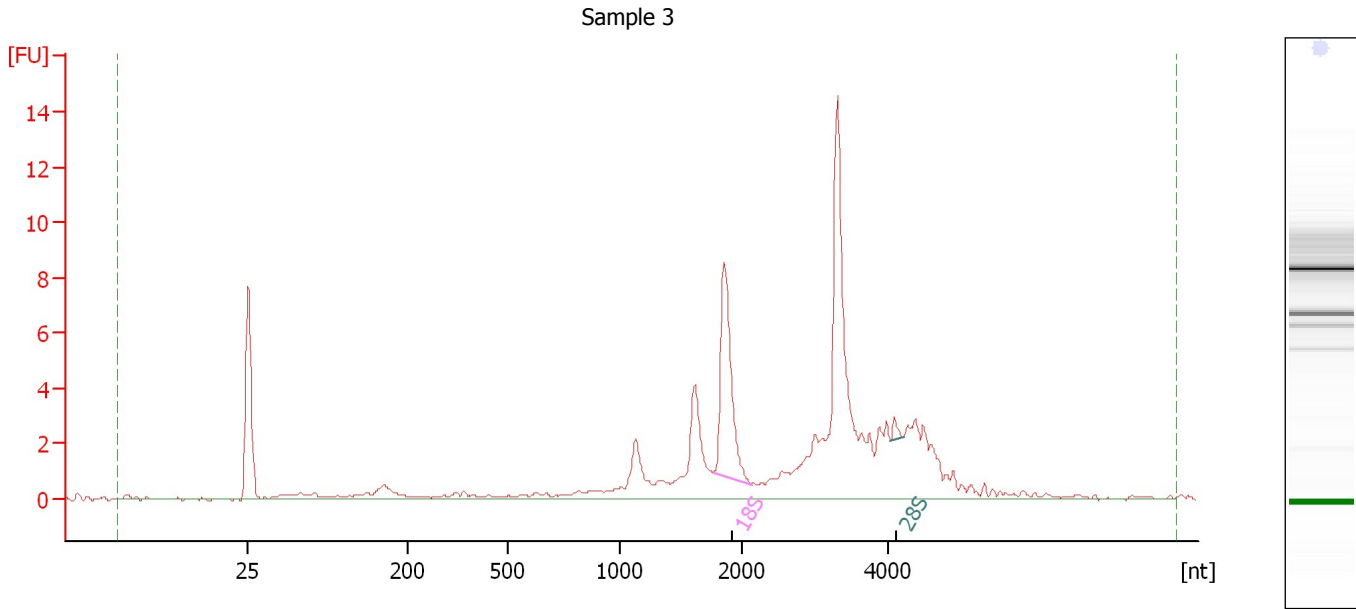
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	2,106	18.3	15.2
28S	4,070	4,436	1.5	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	73.0	RNA Integrity Number (RIN):	4.8 (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.80

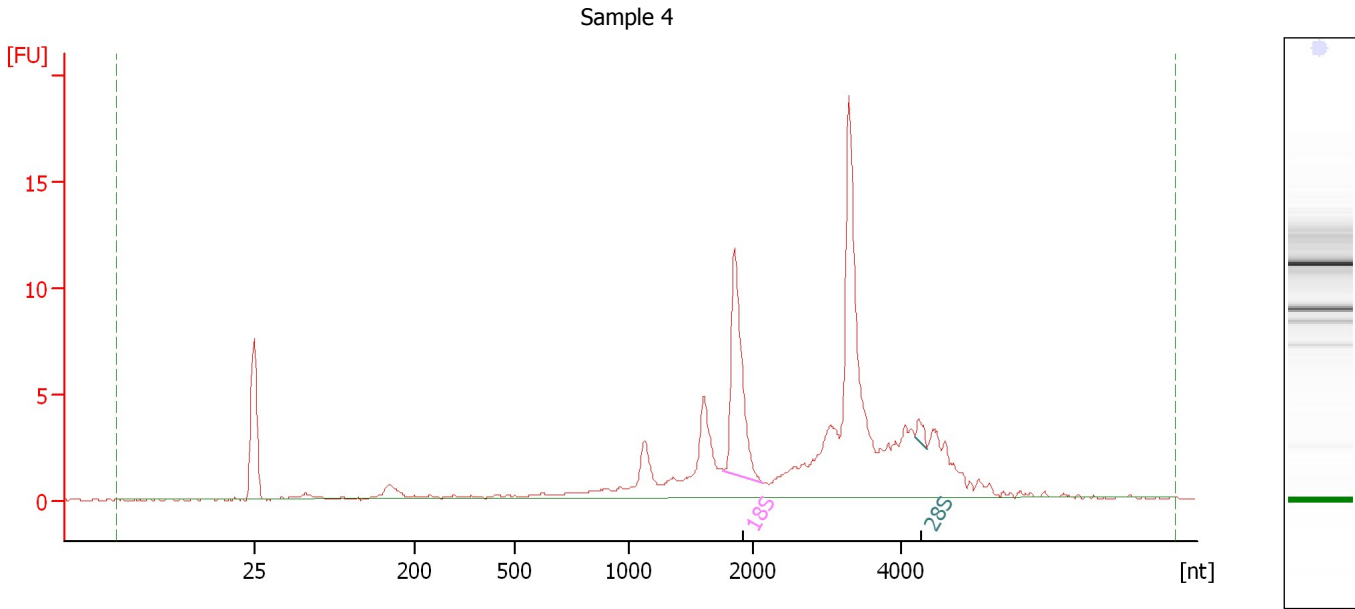
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,769	2,143	8.9	12.2
28S	4,025	4,213	0.4	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area: 93.6 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 95 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN:5

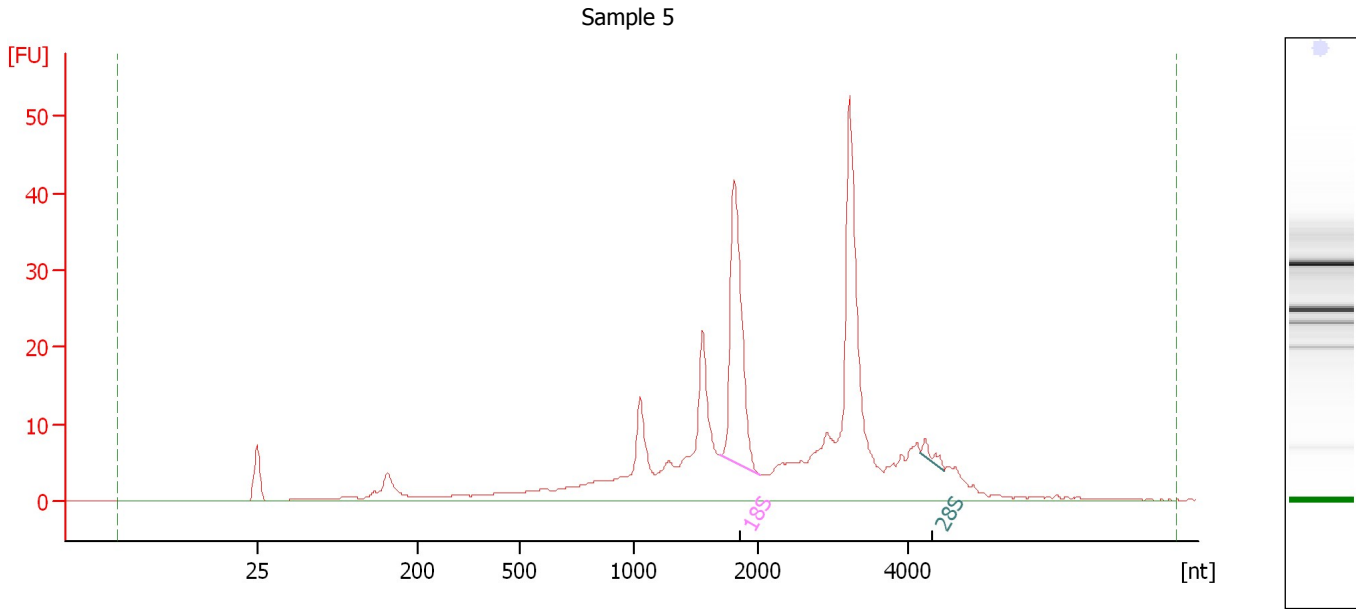
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,768	2,150	12.7	13.5
28S	4,182	4,339	0.7	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	329.7	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	335 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.60

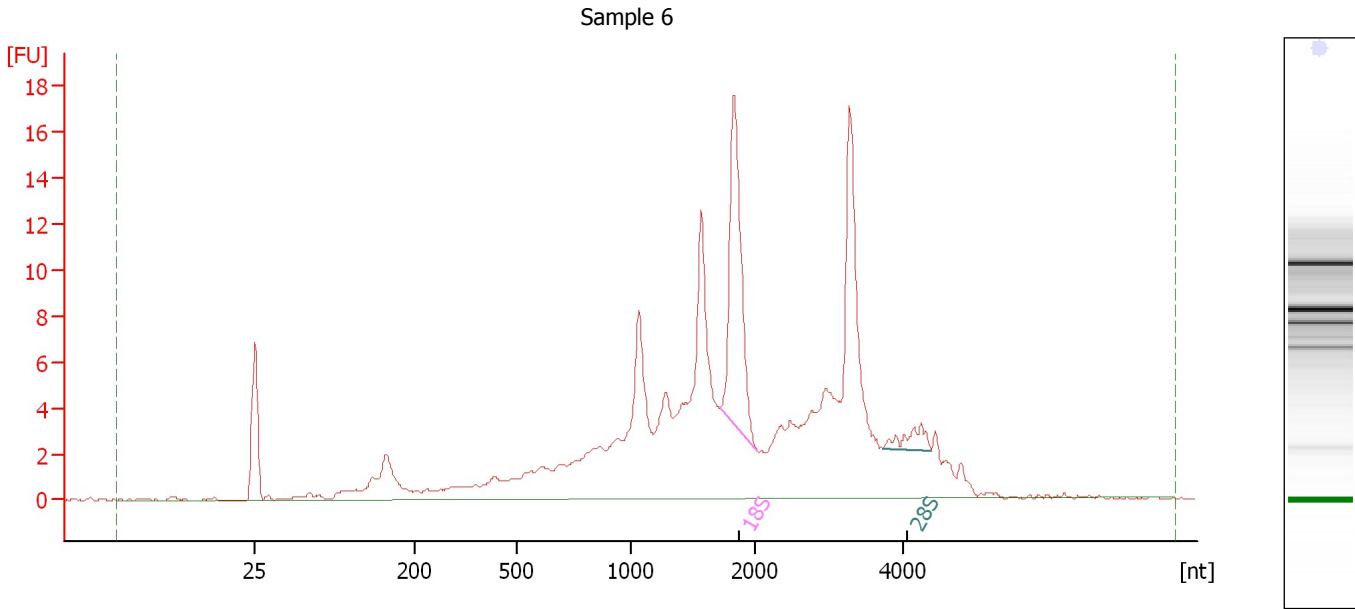
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	2,024	47.6	14.4
28S	4,176	4,504	2.1	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	180.9	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	184 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.20

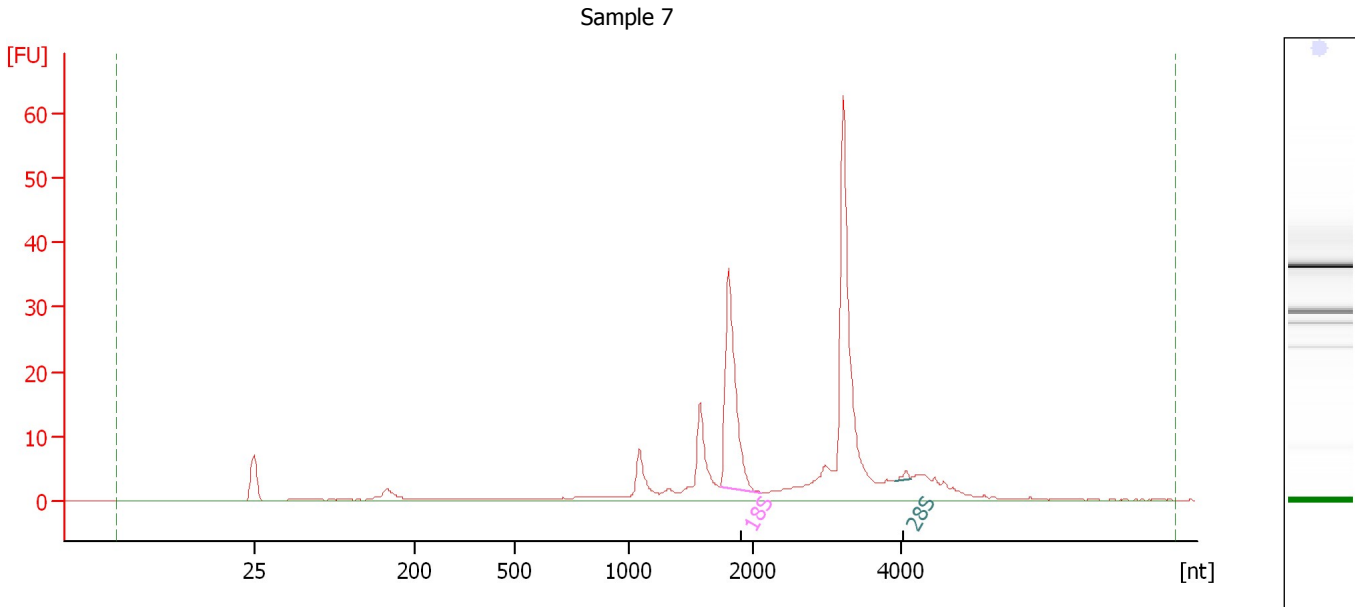
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	2,036	18.6	10.3
28S	3,722	4,365	2.1	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area: 196.1 RNA Integrity Number (RIN): 6.2 (B.02.08)
RNA Concentration: 199 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 6.20

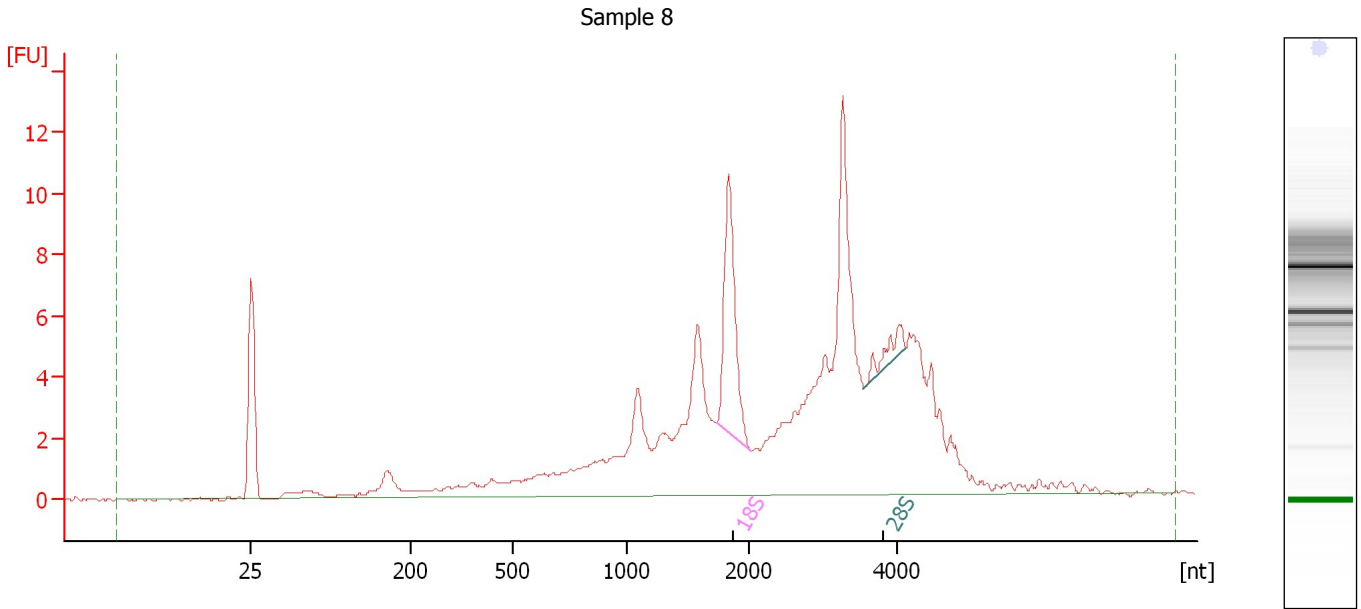
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,107	37.9	19.3
28S	3,910	4,125	0.8	0.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	132.2	RNA Integrity Number (RIN):	4.3 (B.02.08)
RNA Concentration:	134 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 4.30

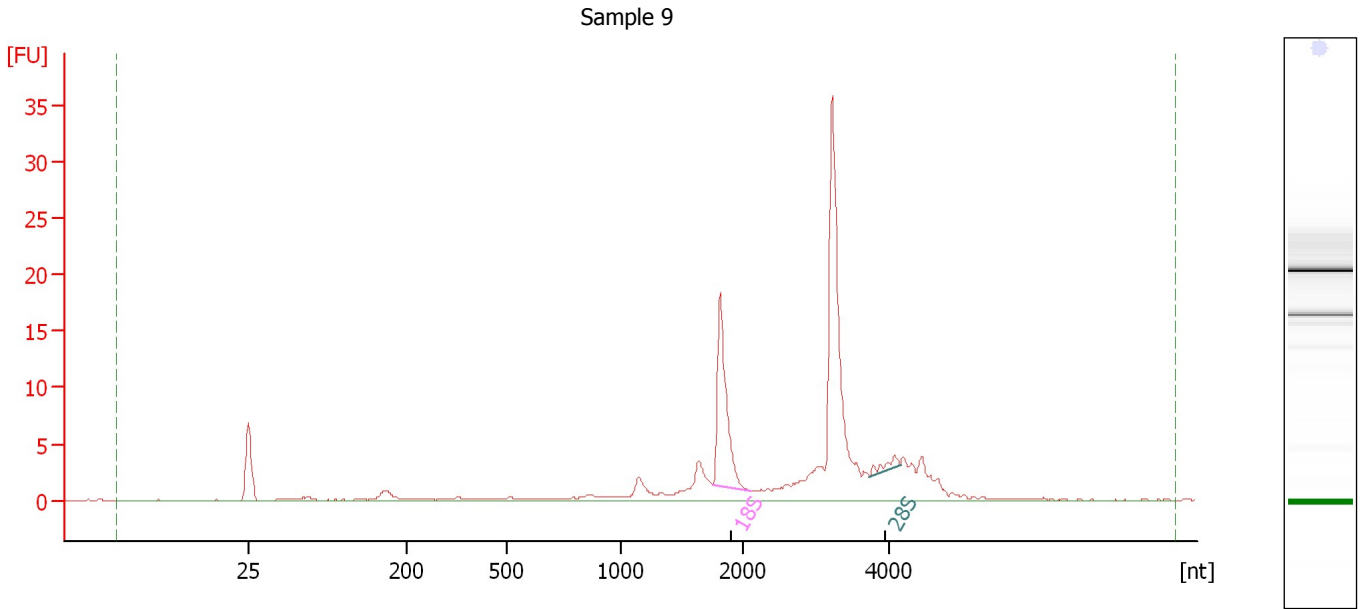
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	2,047	10.2	7.7
28S	3,555	4,101	1.6	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area: 104.9 RNA Integrity Number (RIN): 5.4 (B.02.08)
RNA Concentration: 106 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 5.40

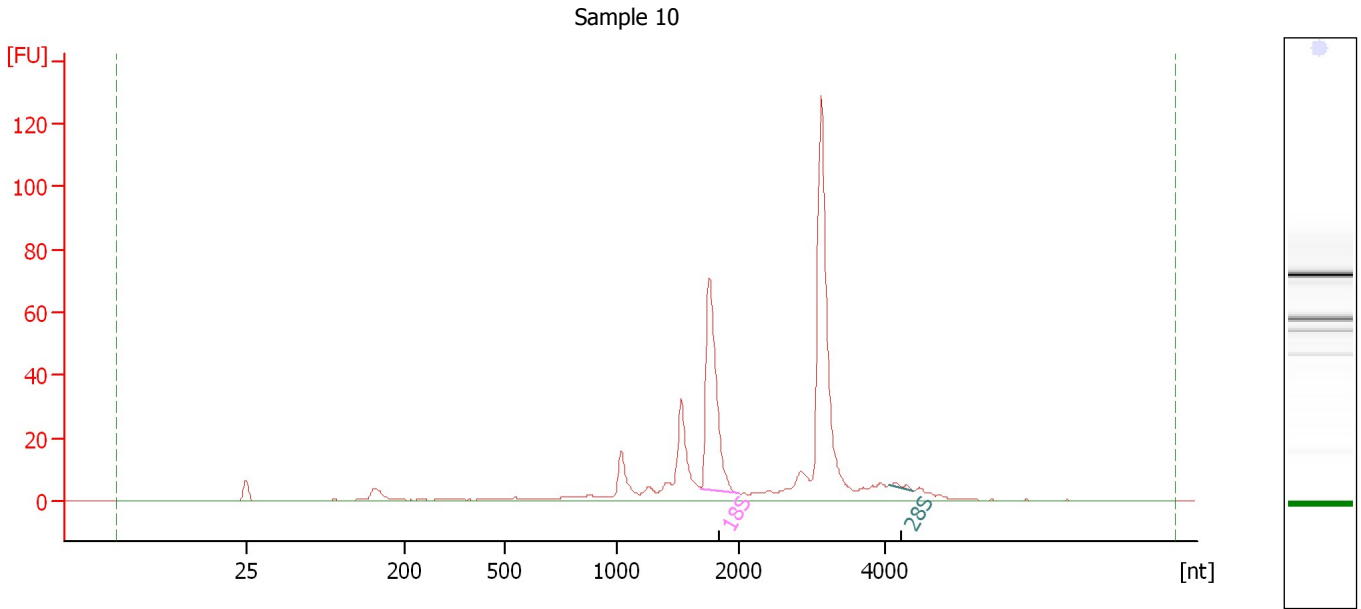
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,753	2,129	16.9	16.1
28S	3,719	4,138	1.3	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area: 376.9 RNA Integrity Number (RIN): 6.4 (B.02.08)
RNA Concentration: 383 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 6.40

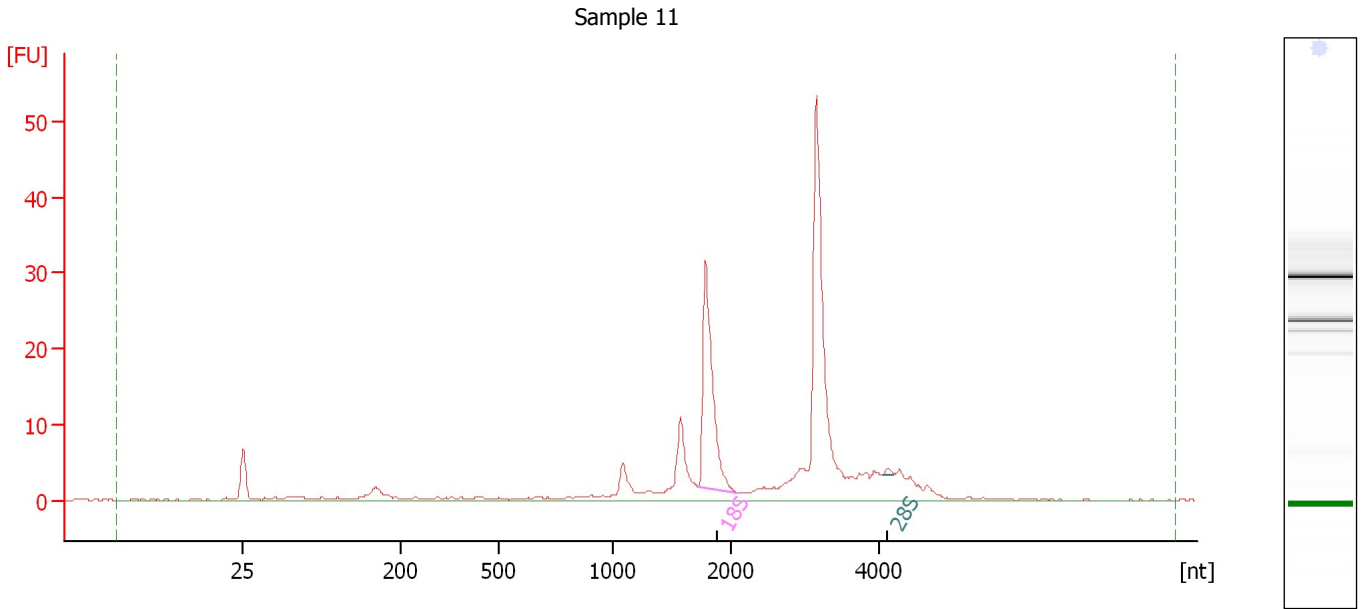
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,025	76.9	20.4
28S	4,042	4,376	1.8	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	177.2	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	180 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.10

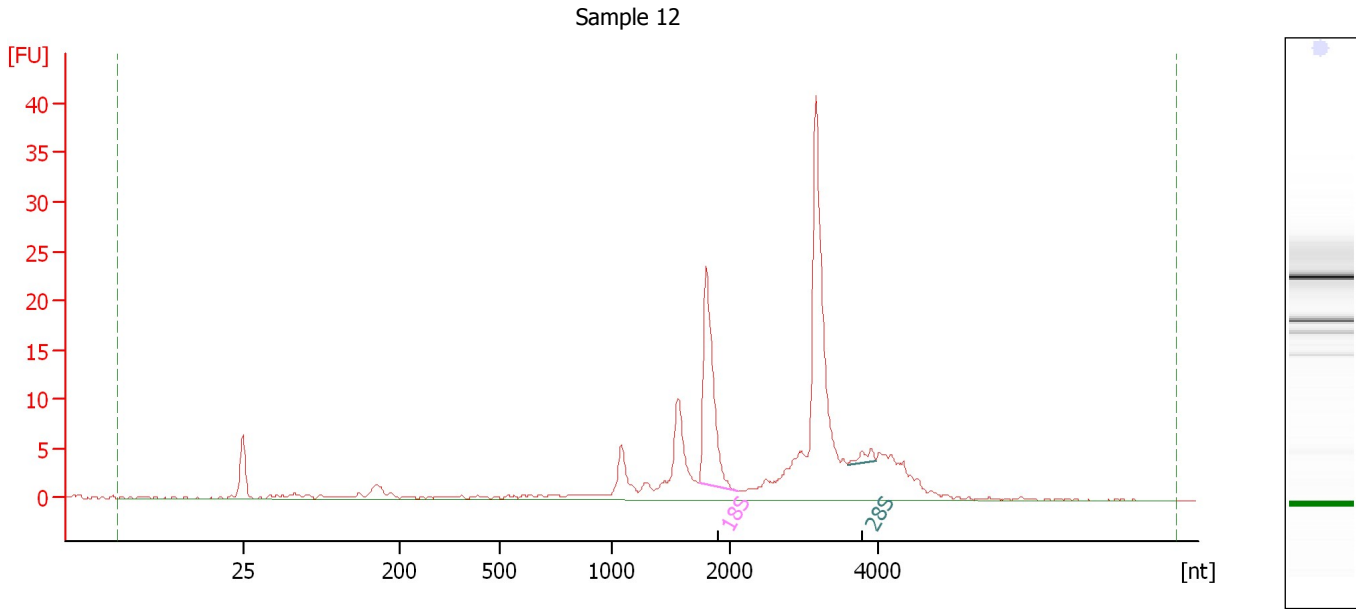
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,080	32.1	18.1
28S	4,064	4,210	0.5	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
 Modified: 1/26/2015 2:53:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	163.7	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	166 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.50

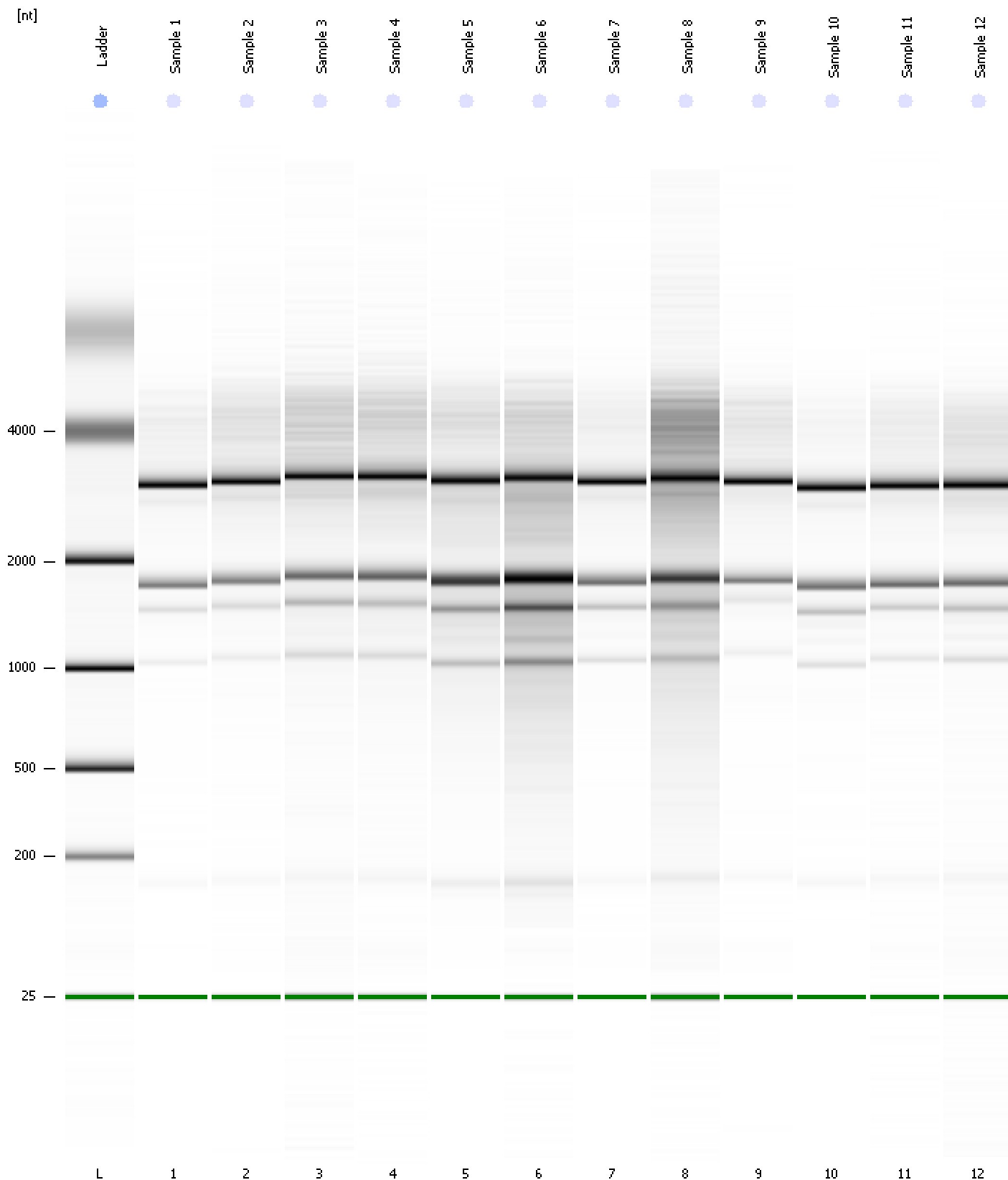
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,735	2,108	24.5	14.9
28S	3,599	3,979	1.5	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
Modified: 1/26/2015 2:53:00 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad

Created: 1/26/2015 2:29:10 PM
 Modified: 1/26/2015 2:53:00 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		1/26/2015 2:52:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-26\2015-01-26_001.xad)		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/26/2015 2:29:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1