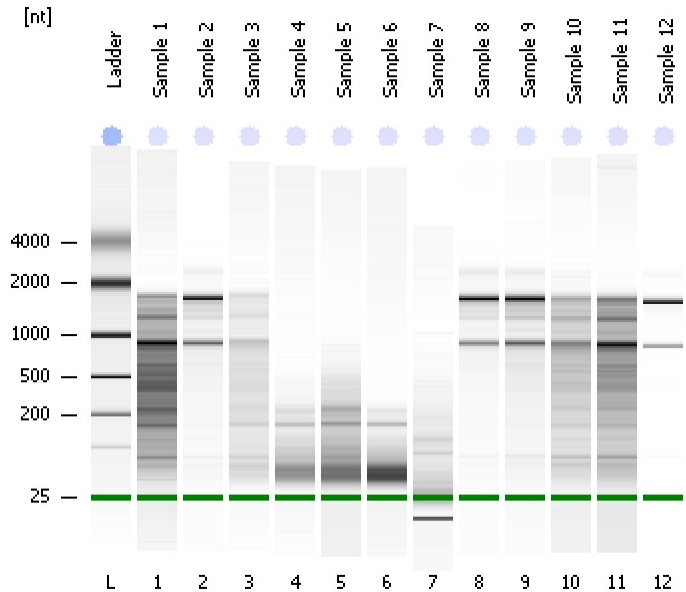


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electrophoresis File Run Summary



Instrument Information:

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

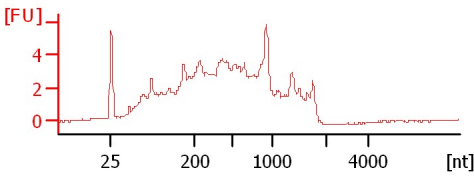
Assay Information:

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.

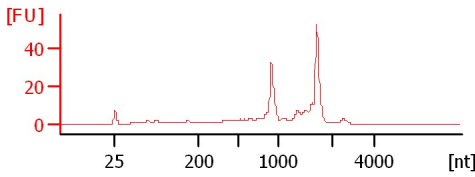
Chip Information:

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

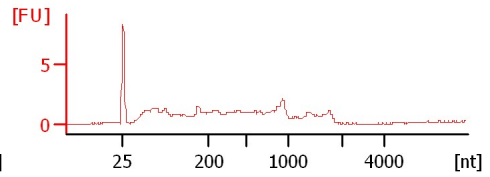
Sample 1
RIN: 4.10



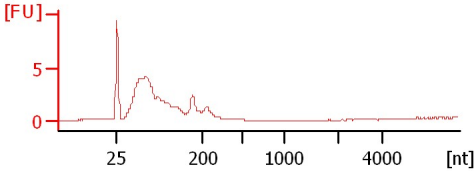
Sample 2
RIN: 8.30



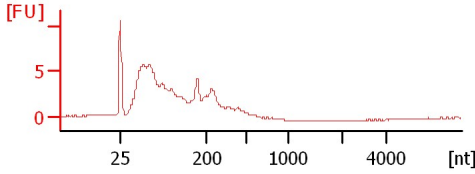
Sample 3
RIN: 4.50



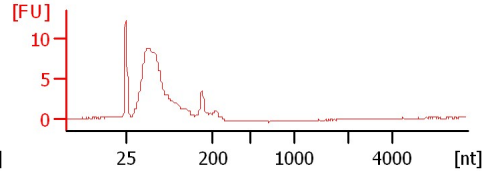
Sample 4
RIN: 2.50



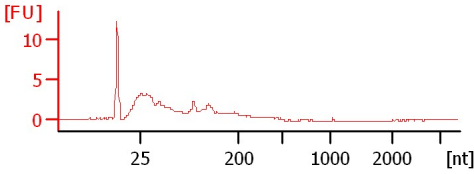
Sample 5
RIN: 2.40



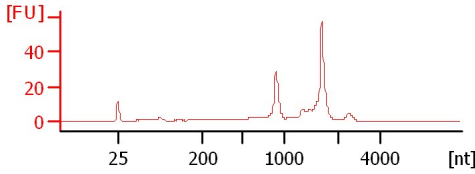
Sample 6
RIN: 2.60



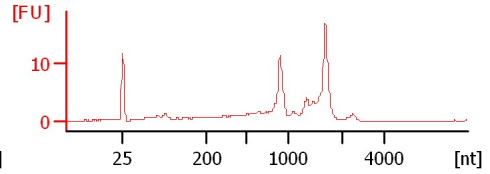
Sample 7
RIN: 2.60



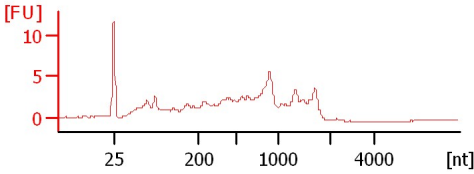
Sample 8
RIN: 8.90



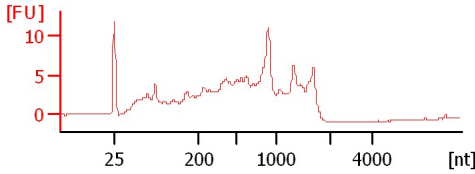
Sample 9
RIN: 8.20



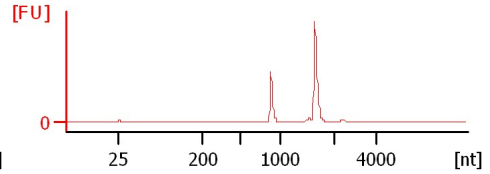
Sample 10
RIN: 5.40



Sample 11
RIN: 5.40



Sample 12
RIN: 10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
 Modified: 4/11/2014 1:50:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 4.10	
Sample 2		✓	RIN: 8.30	
Sample 3		✓	RIN: 4.50	
Sample 4		✓	RIN: 2.50	
Sample 5		✓	RIN: 2.40	
Sample 6		✓	RIN: 2.60	
Sample 7		✓	RIN: 2.60	
Sample 8		✓	RIN: 8.90	
Sample 9		✓	RIN: 8.20	
Sample 10		✓	RIN: 5.40	
Sample 11		✓	RIN: 5.40	
Sample 12		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 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

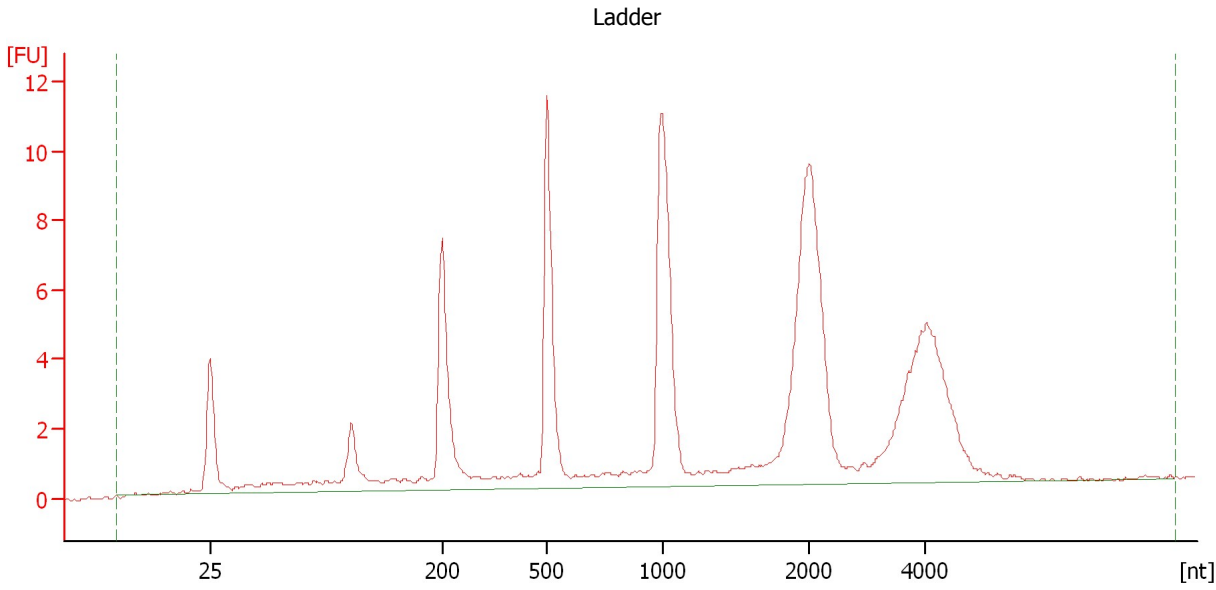
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary



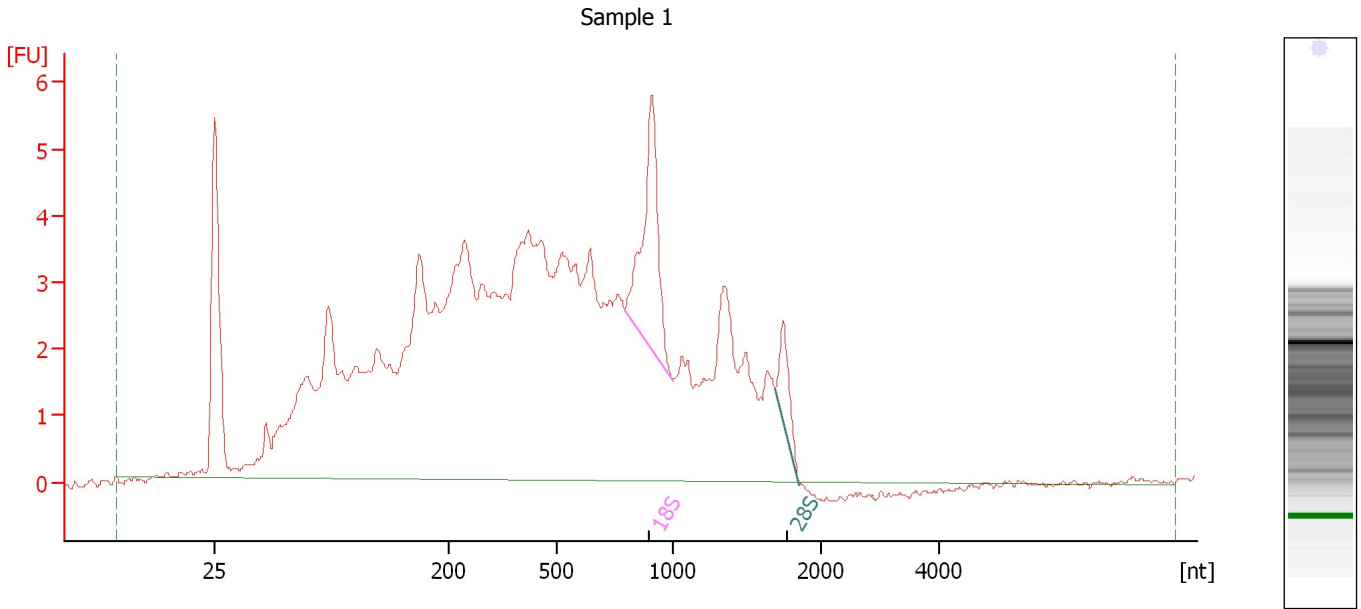
Overall Results for Ladder

RNA Area:	107.6	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\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	153.0	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	213 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 4.10

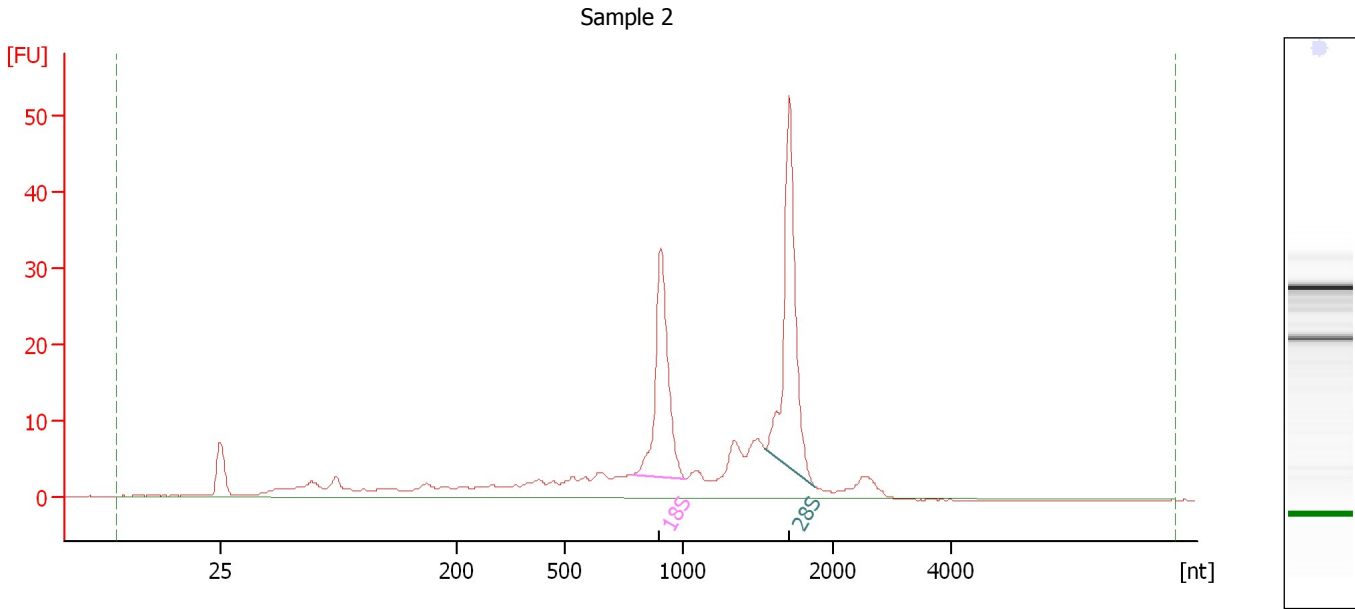
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	794	1,004	6.9	4.5
28S	1,685	1,857	1.5	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	261.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	364 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.30

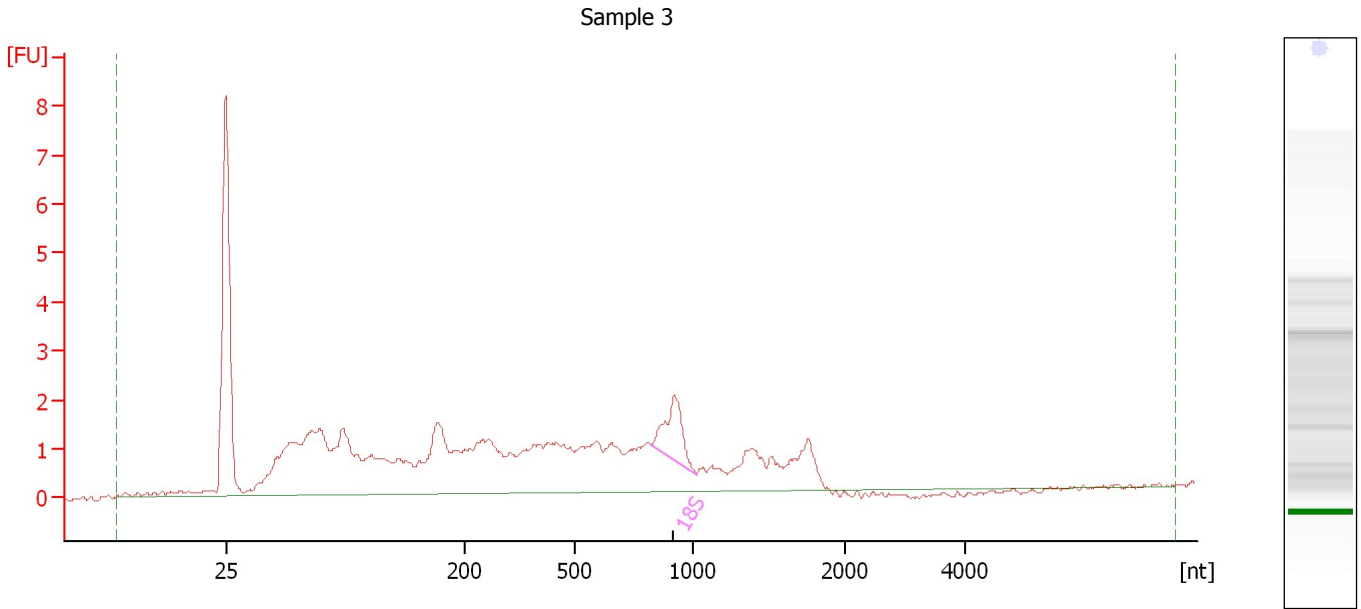
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	785	1,022	44.2	16.9
28S	1,554	1,881	57.0	21.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	60.6	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.50

Fragment table for sample 3 : Sample 3

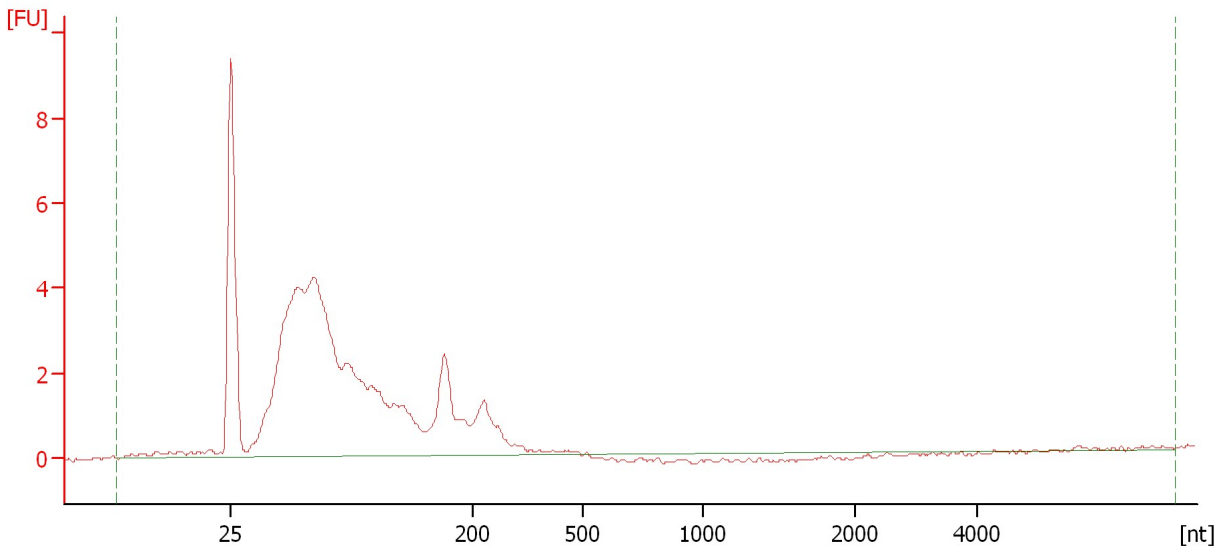
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	826	1,025	2.6	4.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...

Sample 4



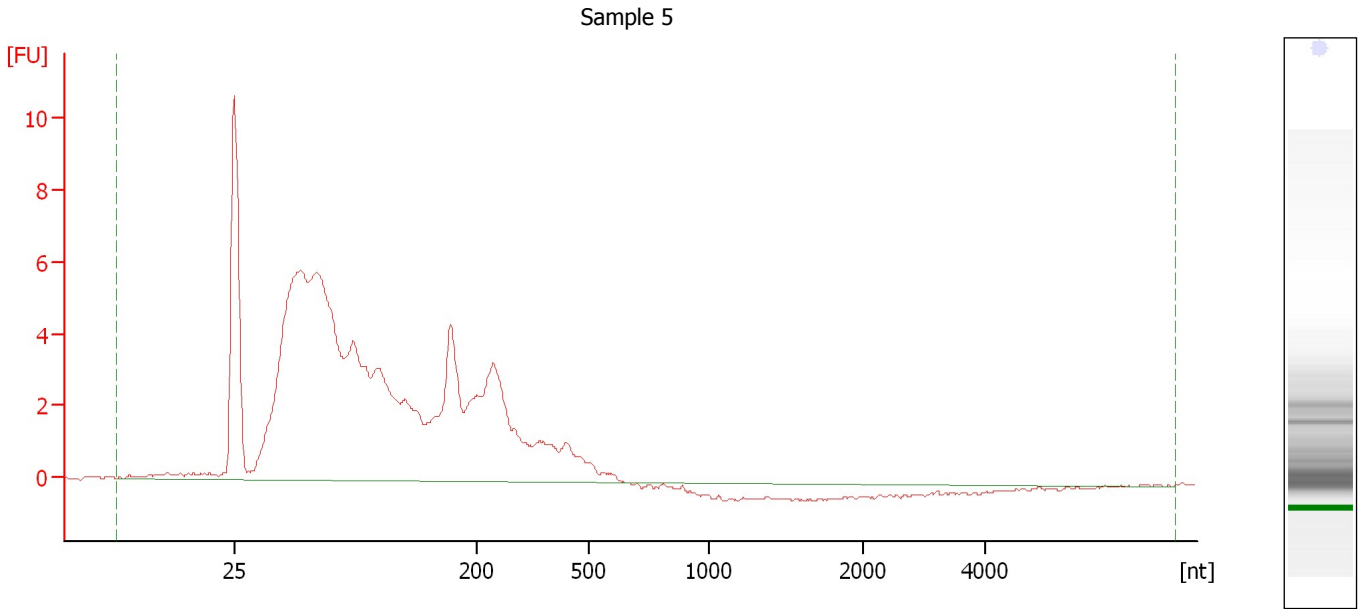
Overall Results for sample 4 : Sample 4

RNA Area:	71.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	100 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

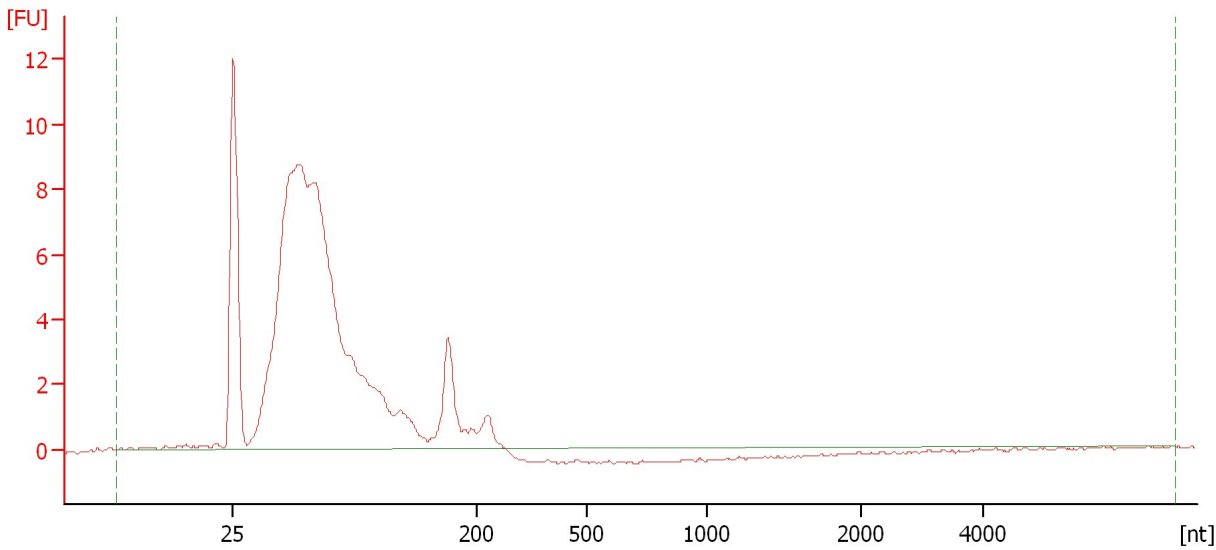
RNA Area:	131.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	183 ng/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

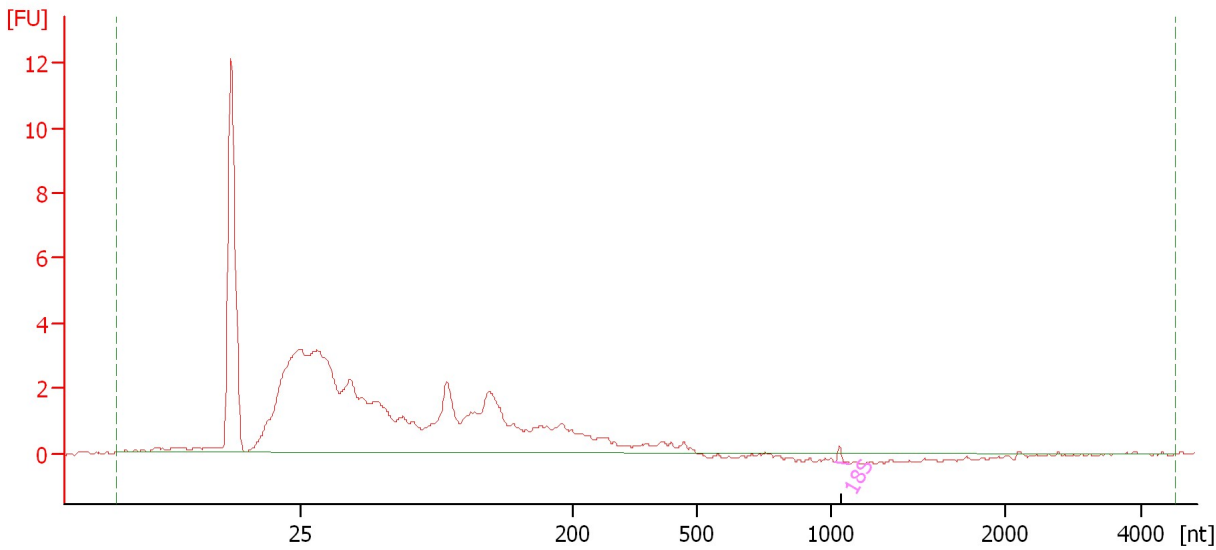
RNA Area:	115.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	162 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

RNA Area:	64.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

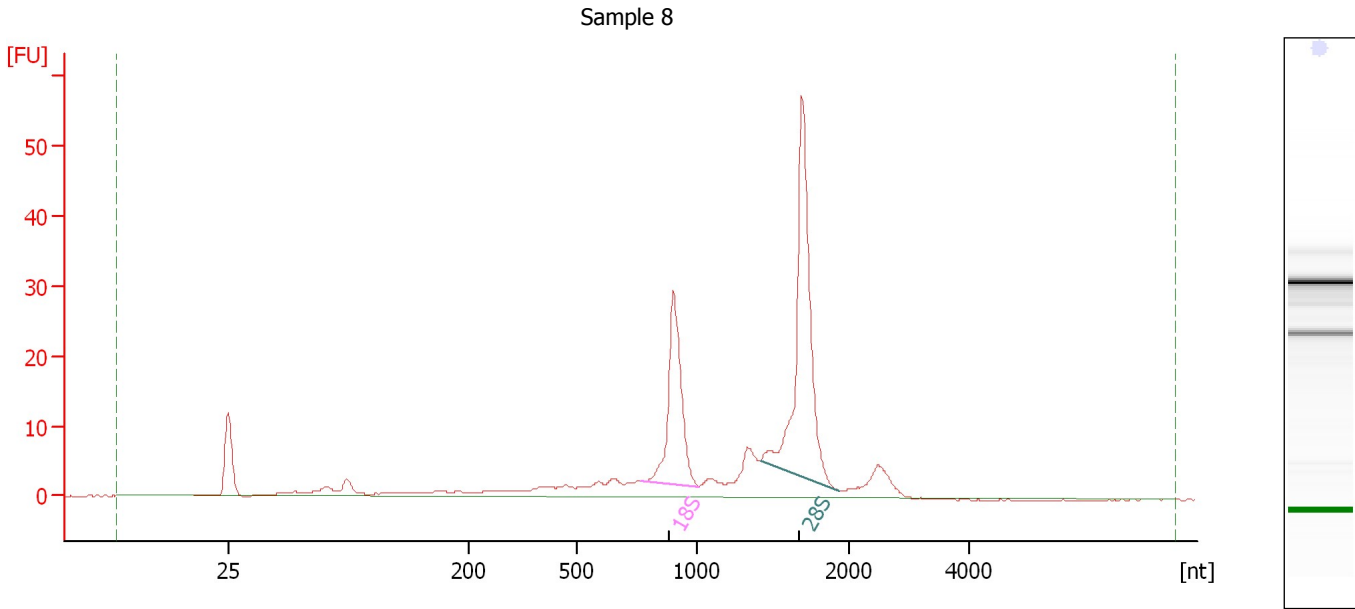
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,021	1,107	0.2	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	235.8	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	329 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.90

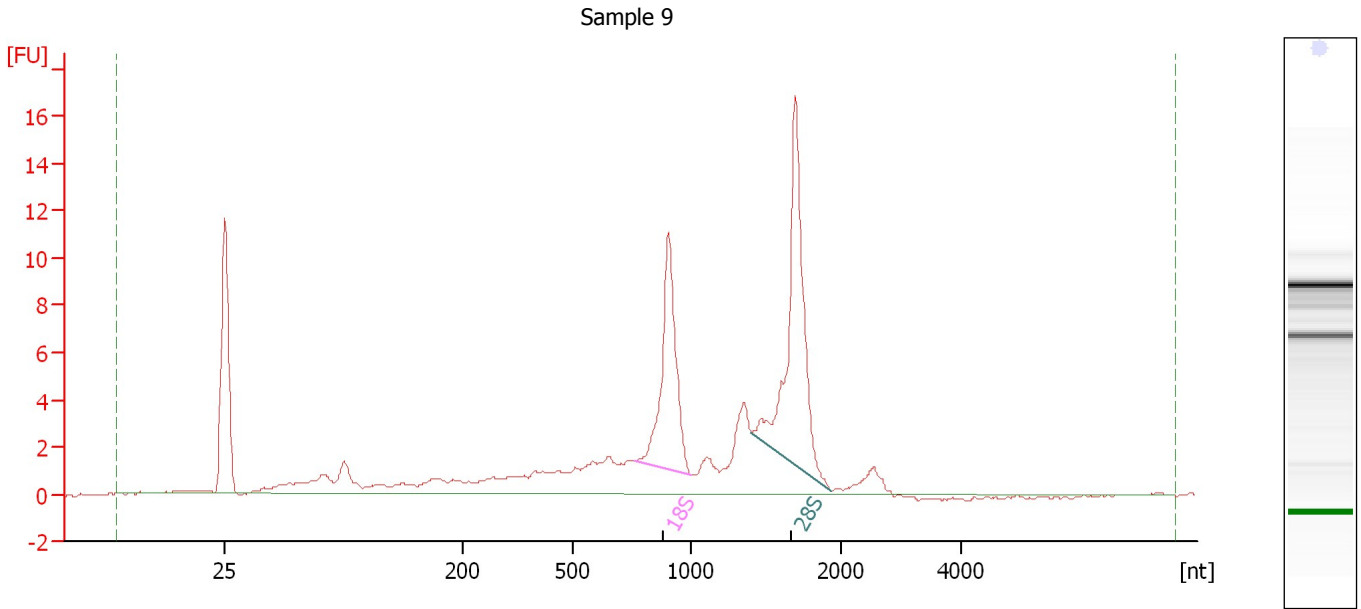
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	765	1,020	41.3	17.5
28S	1,419	1,930	75.0	31.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
 Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	106.4	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	148 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

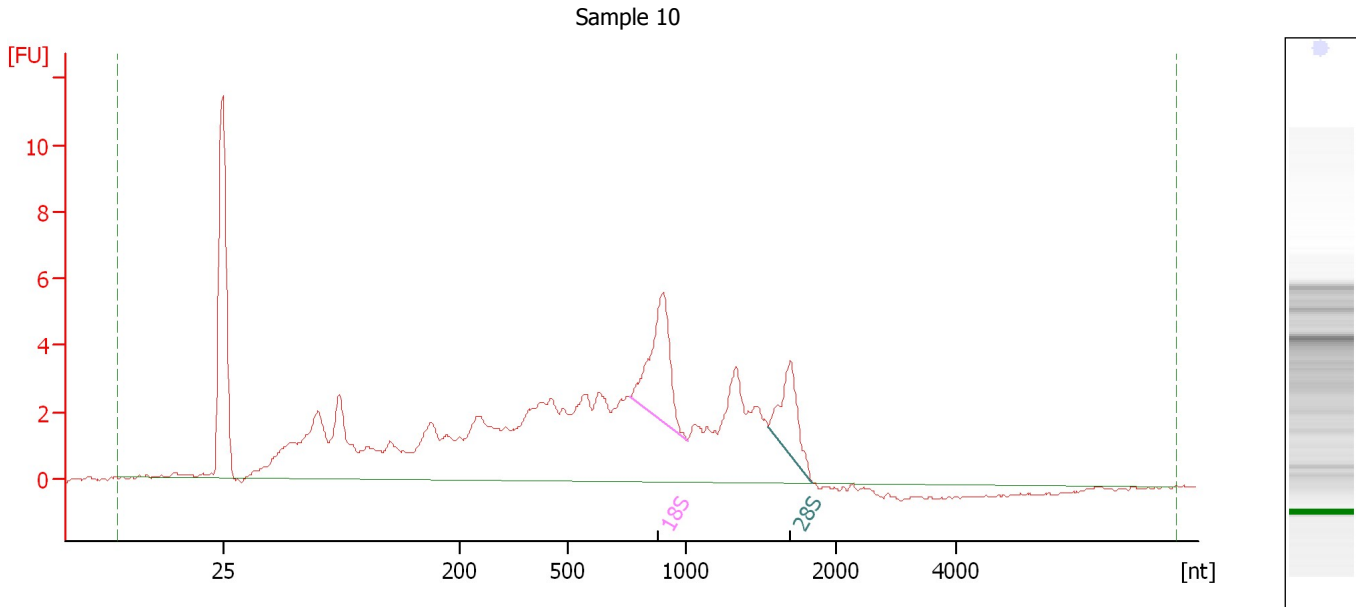
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	766	1,011	16.7	15.7
28S	1,405	1,926	24.7	23.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
 Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	120.9	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	169 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.40

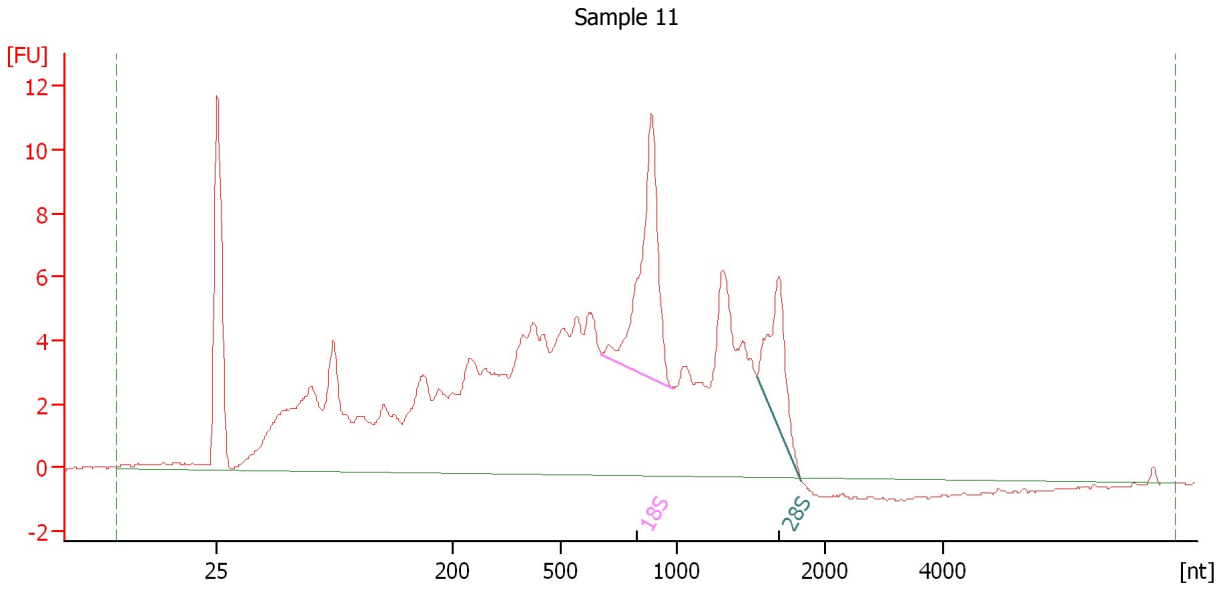
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	768	1,015	8.7	7.2
28S	1,554	1,844	4.7	3.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
 Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	222.0	RNA Integrity Number (RIN):	5.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	309 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.40

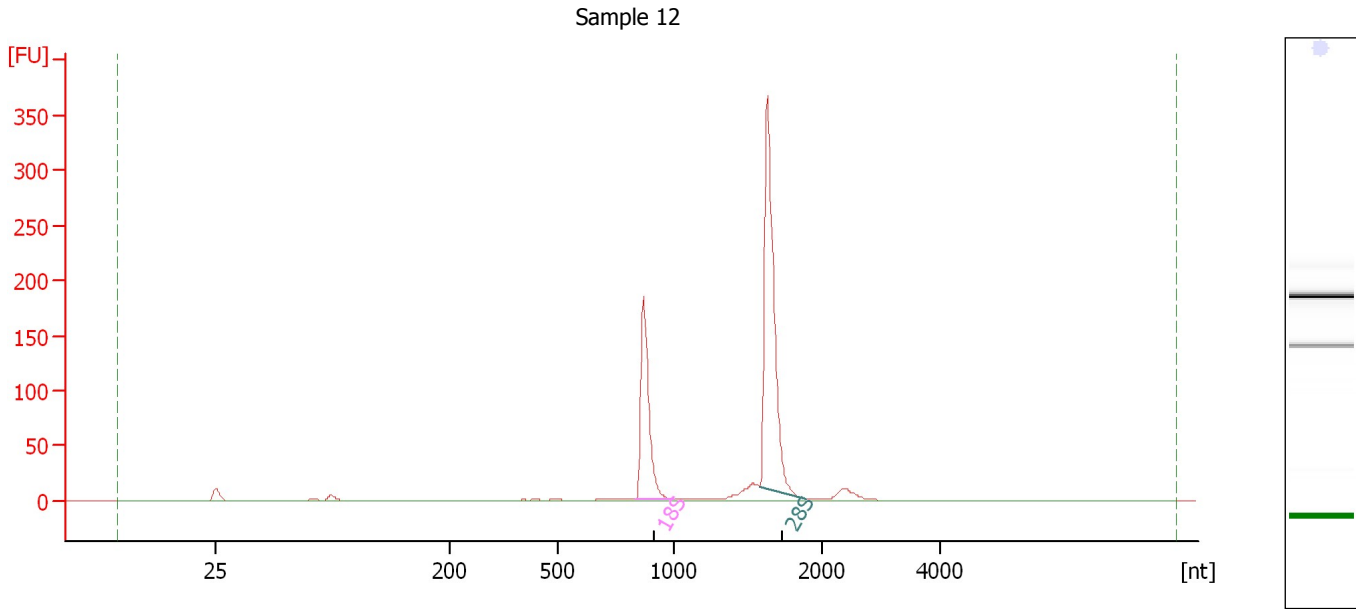
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	676	985	17.5	7.9
28S	1,541	1,841	8.0	3.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area: 673.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 939 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

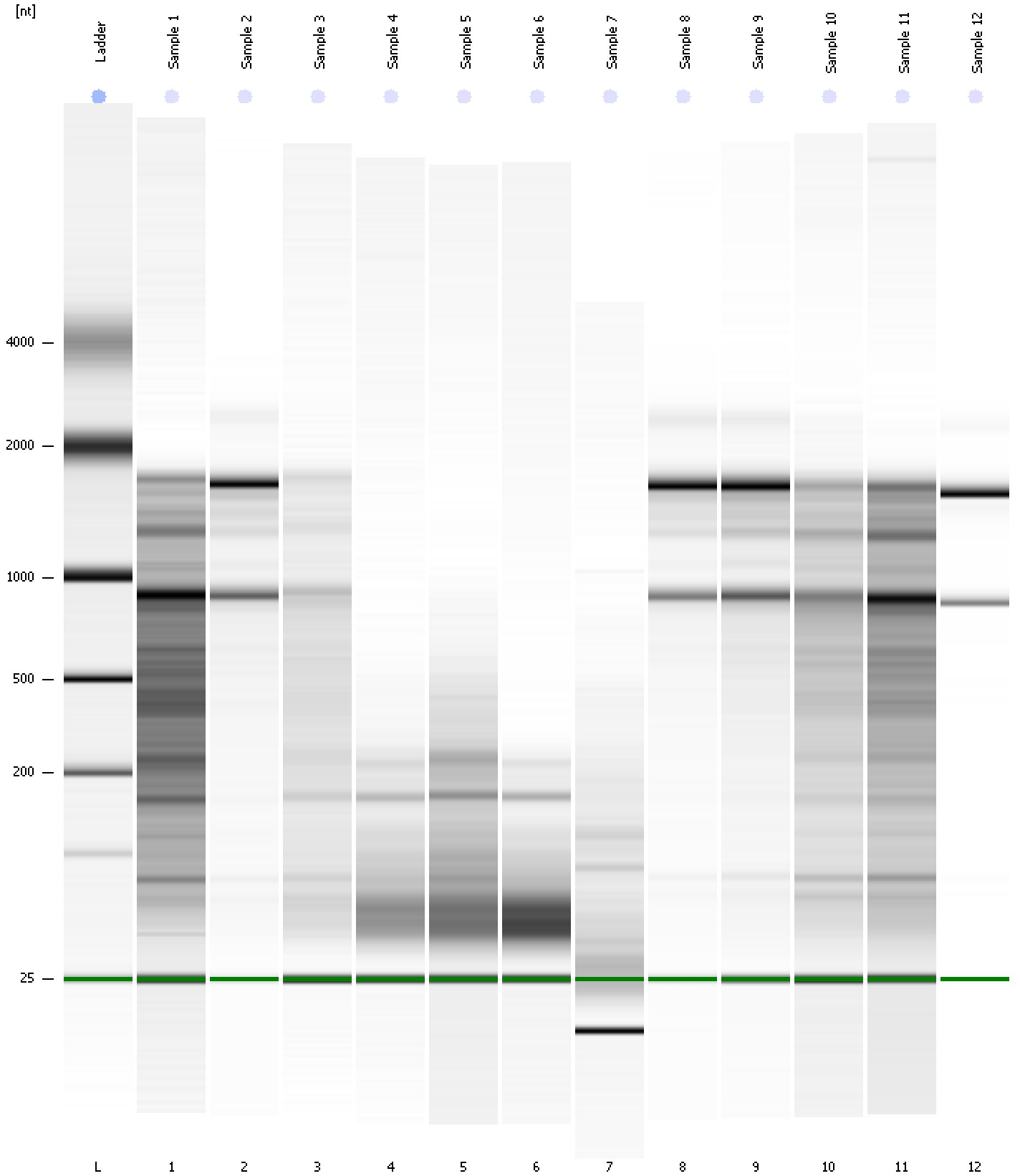
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	840	1,004	171.8	25.5
28S	1,584	1,893	357.5	53.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
Modified: 4/11/2014 1:50:49 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad

Created: 4/4/2014 4:32:21 PM
 Modified: 4/11/2014 1:50:49 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		4/4/2014 4:55:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-04\2014-04-04_007.xad)		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2014 4:32:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1