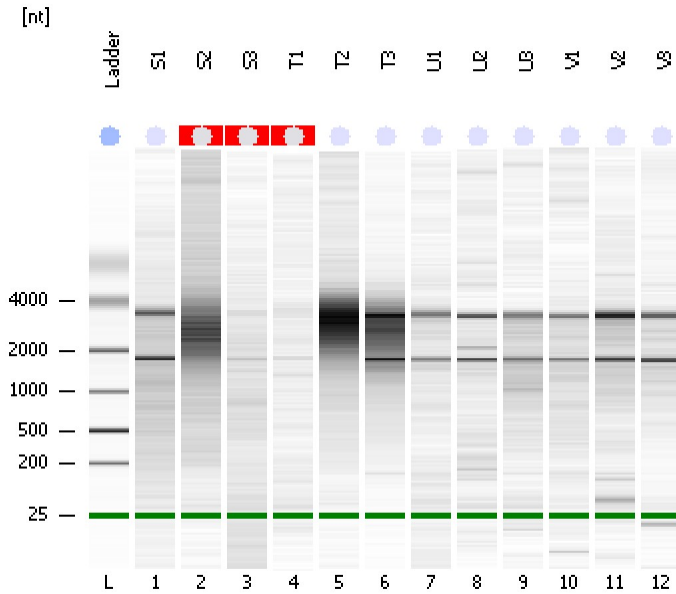


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electrophoresis File Run Summary



Instrument Information:

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

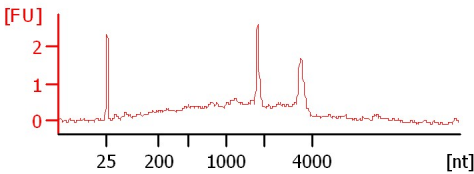
Assay Information:

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.

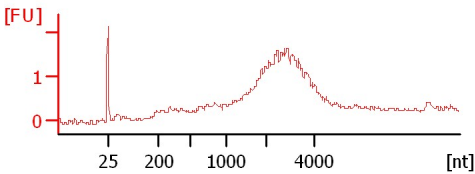
Chip Information:

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

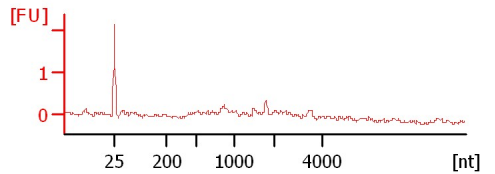
S1
RIN: 5.90



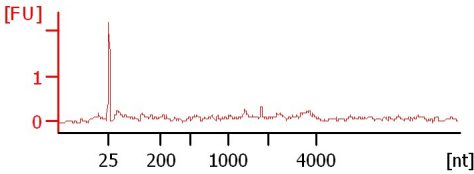
S2
RIN N/A



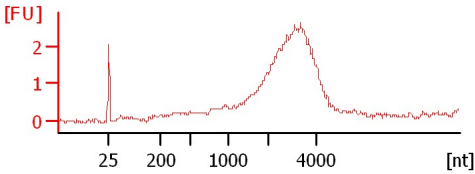
S3
RIN N/A



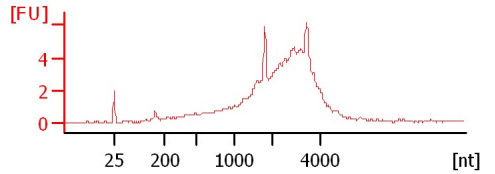
T1
RIN N/A



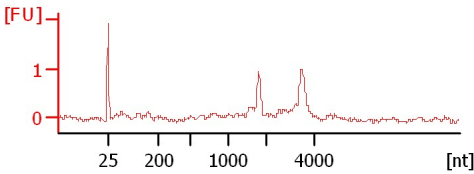
T2
RIN: 2.60



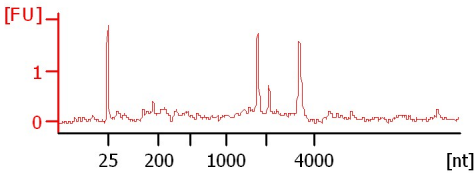
T3
RIN: 3.70



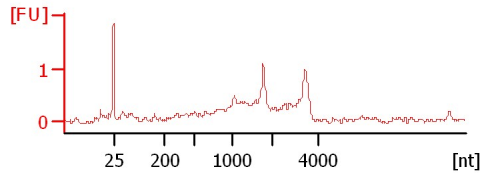
U1
RIN: 7.40



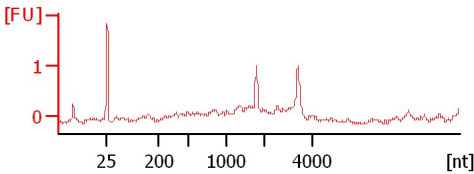
U2
RIN: 7.20



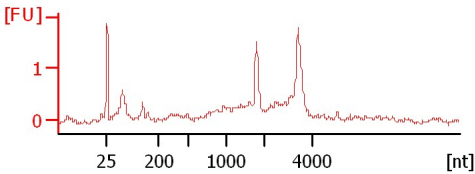
U3
RIN: 5.90



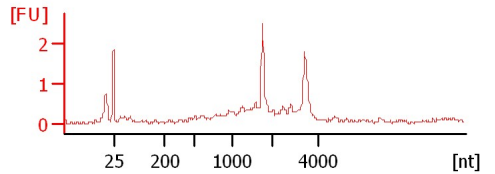
V1
RIN: 6.20



V2
RIN: 6.70



V3
RIN: 7



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
S1		✓	RIN: 5.90	
S2		✓	RIN N/A	
S3		✓	RIN N/A	
T1		✓	RIN N/A	
T2		✓	RIN: 2.60	
T3		✓	RIN: 3.70	
U1		✓	RIN: 7.40	
U2		✓	RIN: 7.20	
U3		✓	RIN: 5.90	
V1		✓	RIN: 6.20	
V2		✓	RIN: 6.70	
V3		✓	RIN:7	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 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

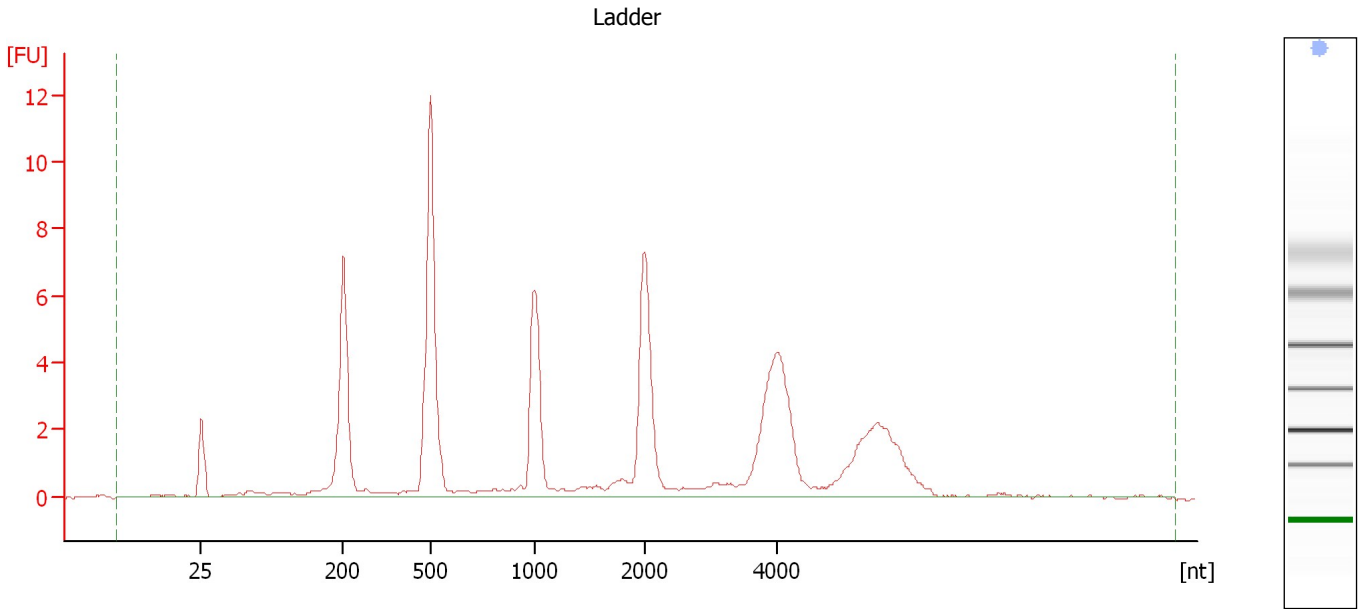
Ladder

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\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary



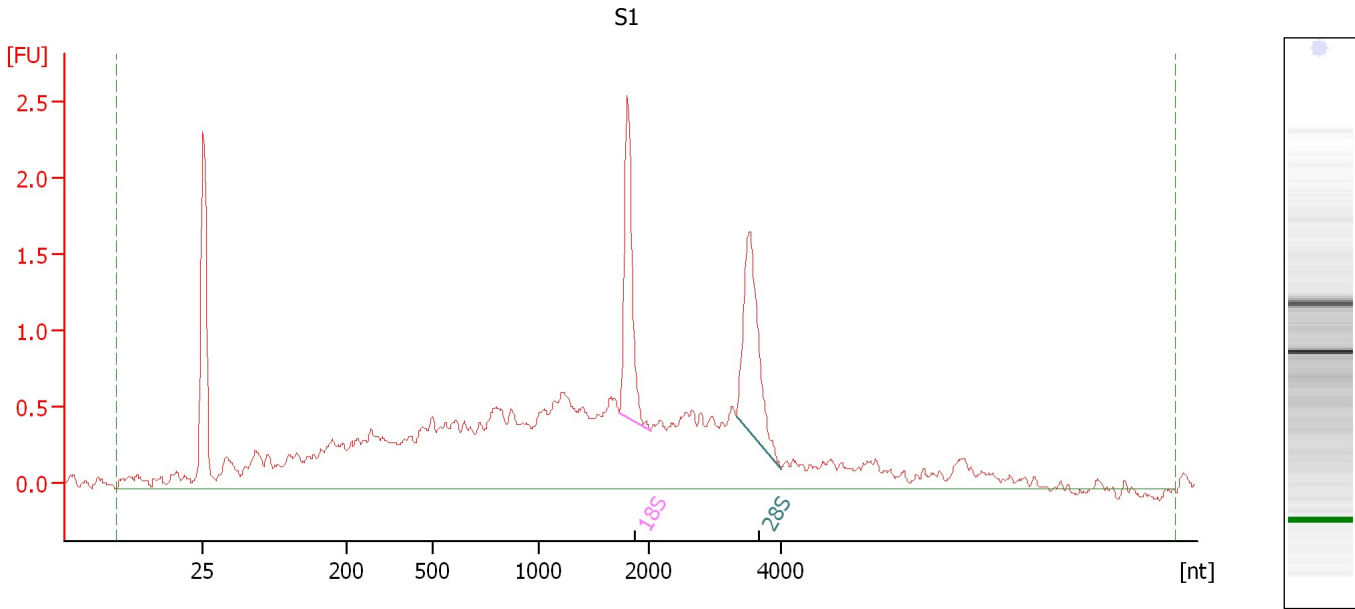
Overall Results for Ladder

RNA Area:	81.9	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\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : S1

RNA Area:	33.7	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	62 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 5.90

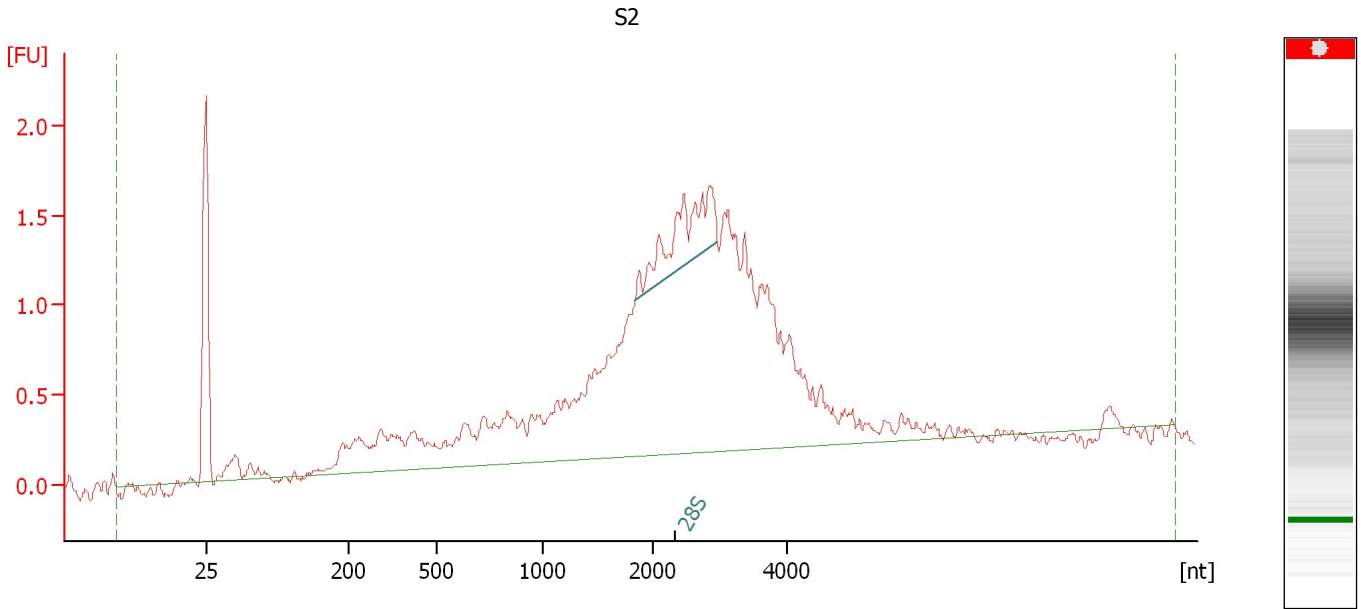
Fragment table for sample 1 : S1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	2,019	1.9	5.7
28S	3,320	3,979	2.2	6.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : S2

RNA Area:	30.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

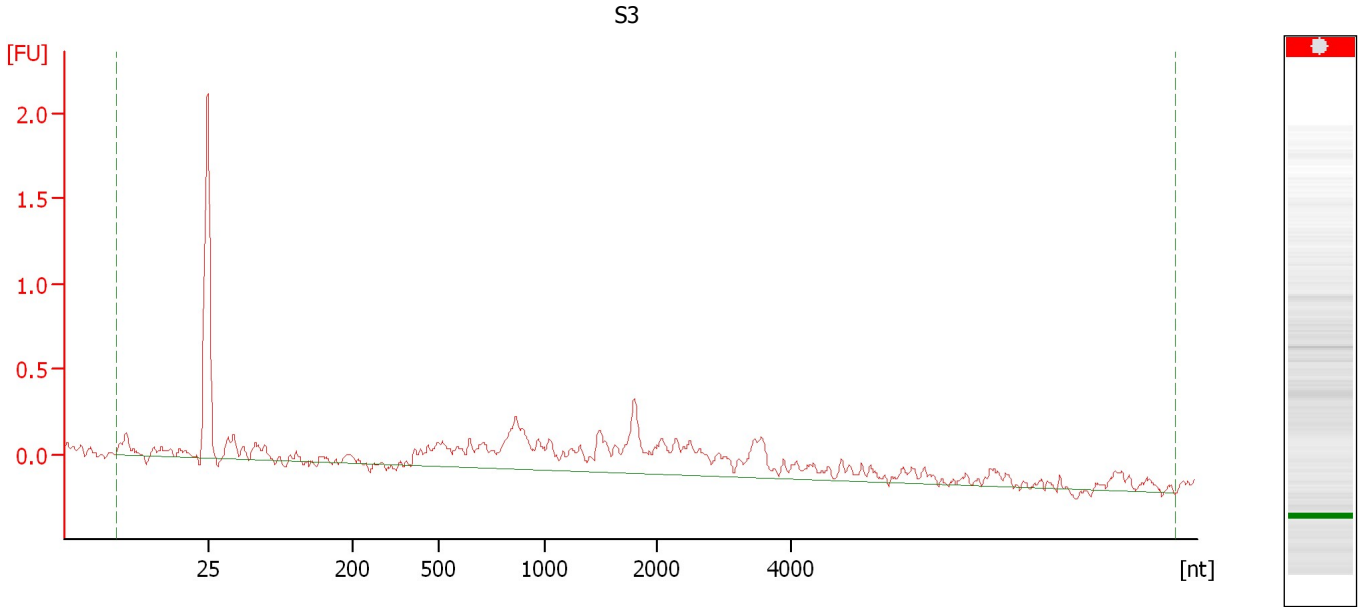
Fragment table for sample 2 : S2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,840	2,966	1.7	5.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



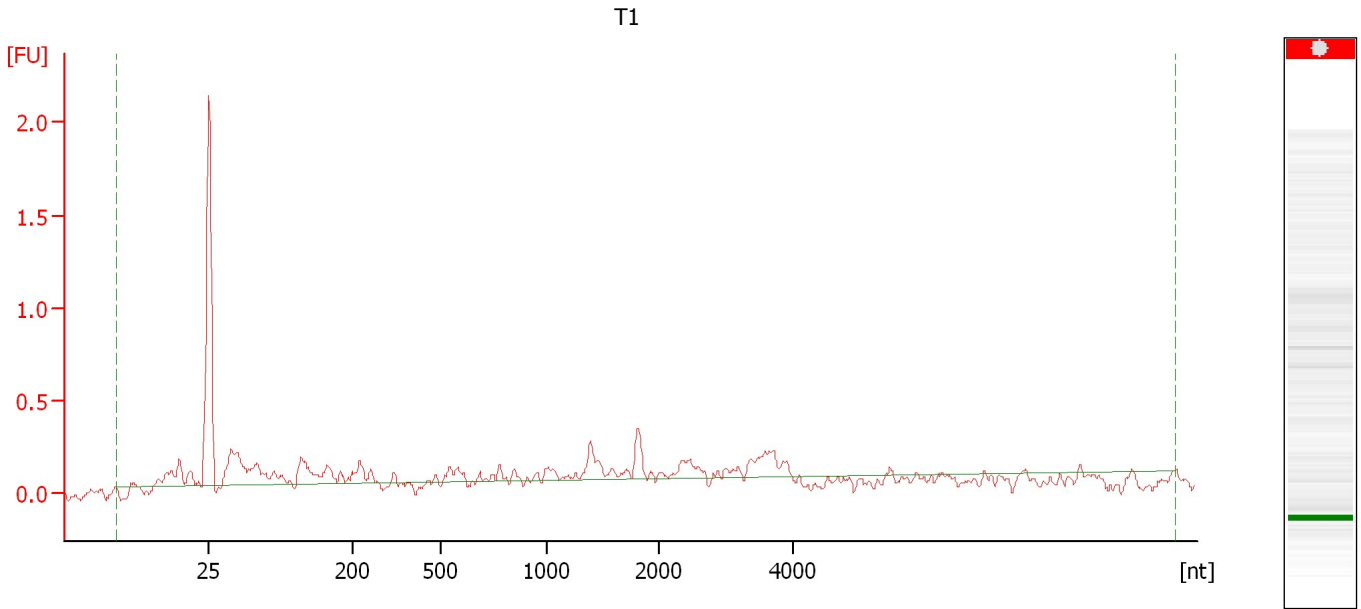
Overall Results for sample 3 : S3

RNA Area:	8.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	16 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:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



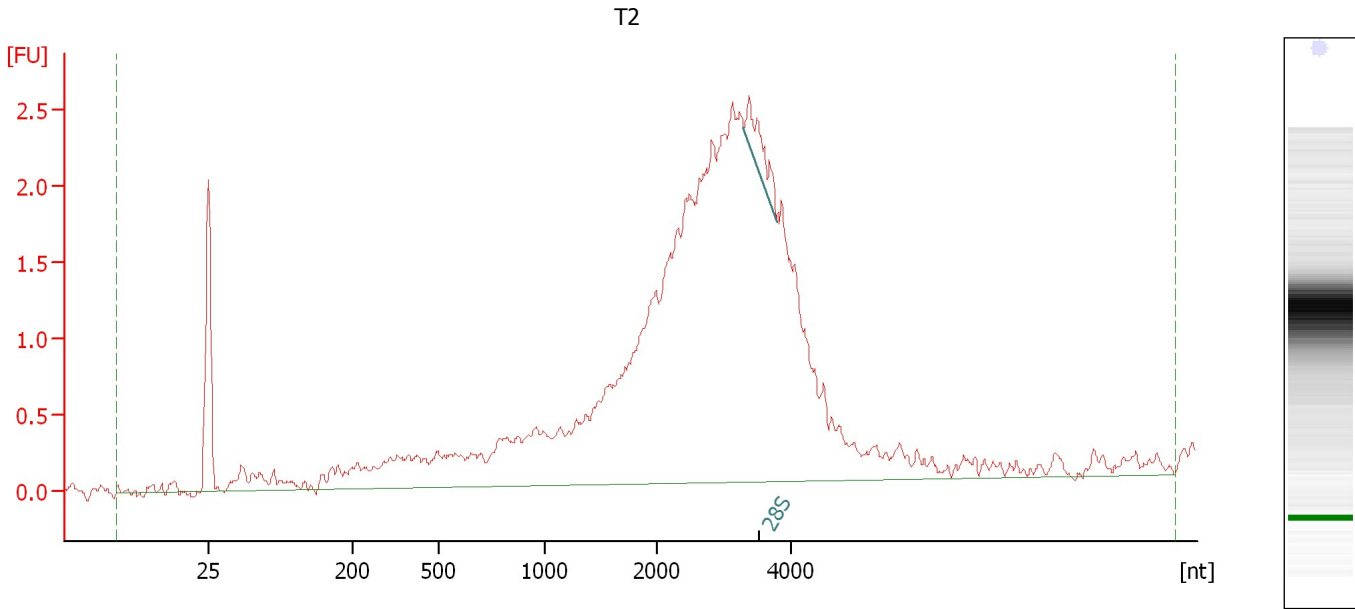
Overall Results for sample 4 : T1

RNA Area:	3.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 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:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : T2

RNA Area:	46.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

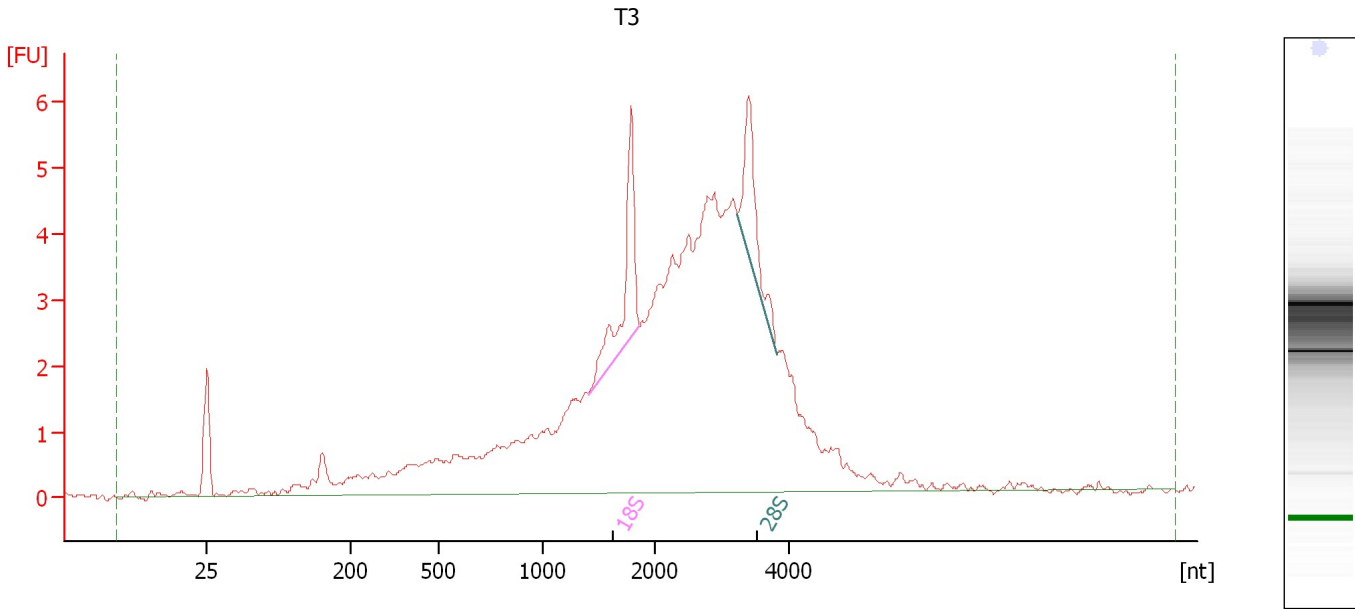
Fragment table for sample 5 : T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,285	3,778	0.7	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : T3

RNA Area: 98.3 RNA Integrity Number (RIN): 3.7 (B.02.08)
RNA Concentration: 180 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 3.70

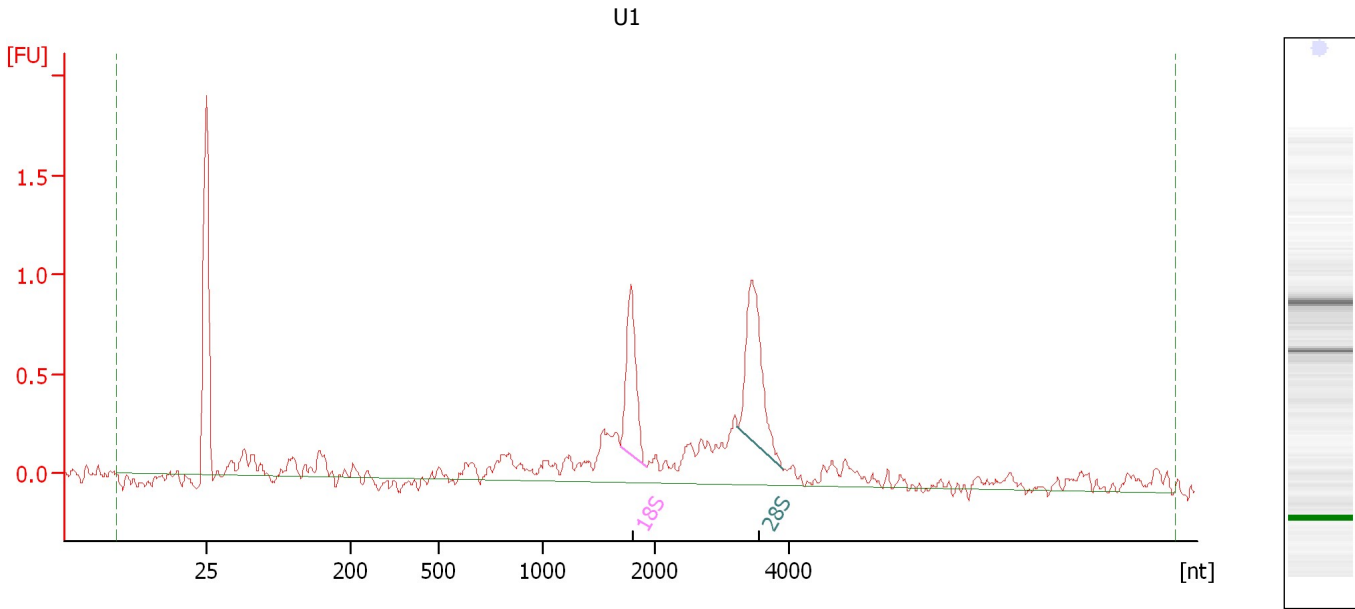
Fragment table for sample 6 : T3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,400	1,861	4.1	4.1
28S	3,238	3,812	3.0	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : U1

RNA Area:	9.7	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	18 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.40

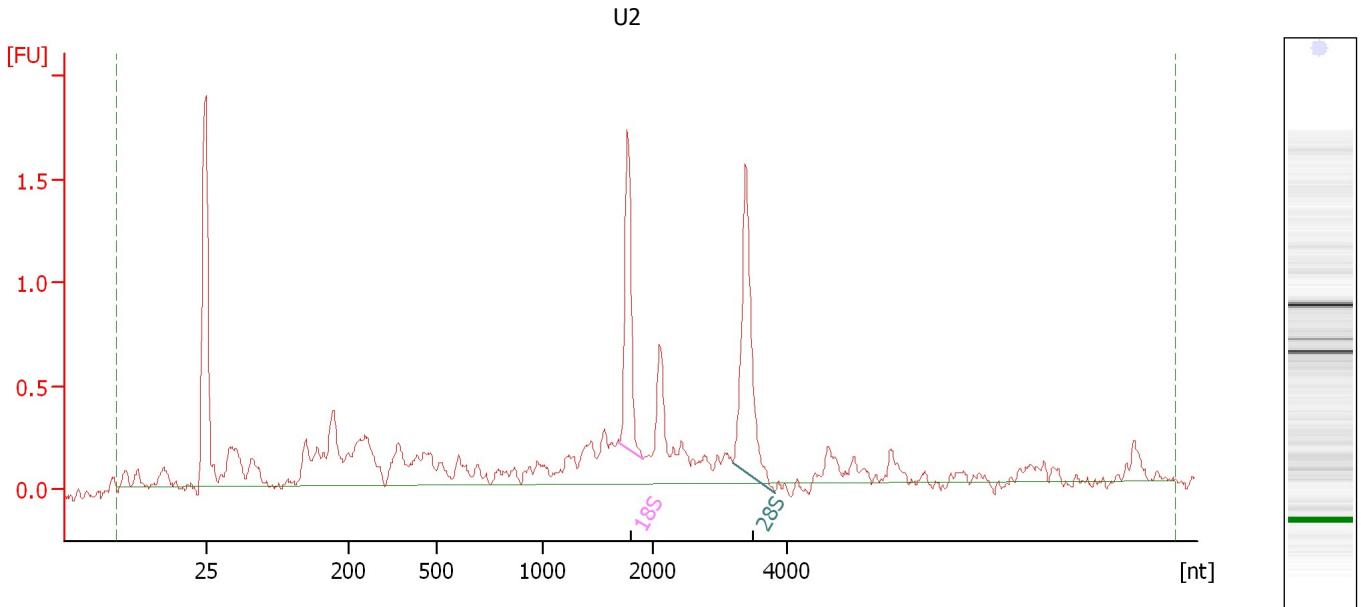
Fragment table for sample 7 : U1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,919	1.0	10.2
28S	3,238	3,908	1.4	14.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : U2

RNA Area:	12.1	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.20

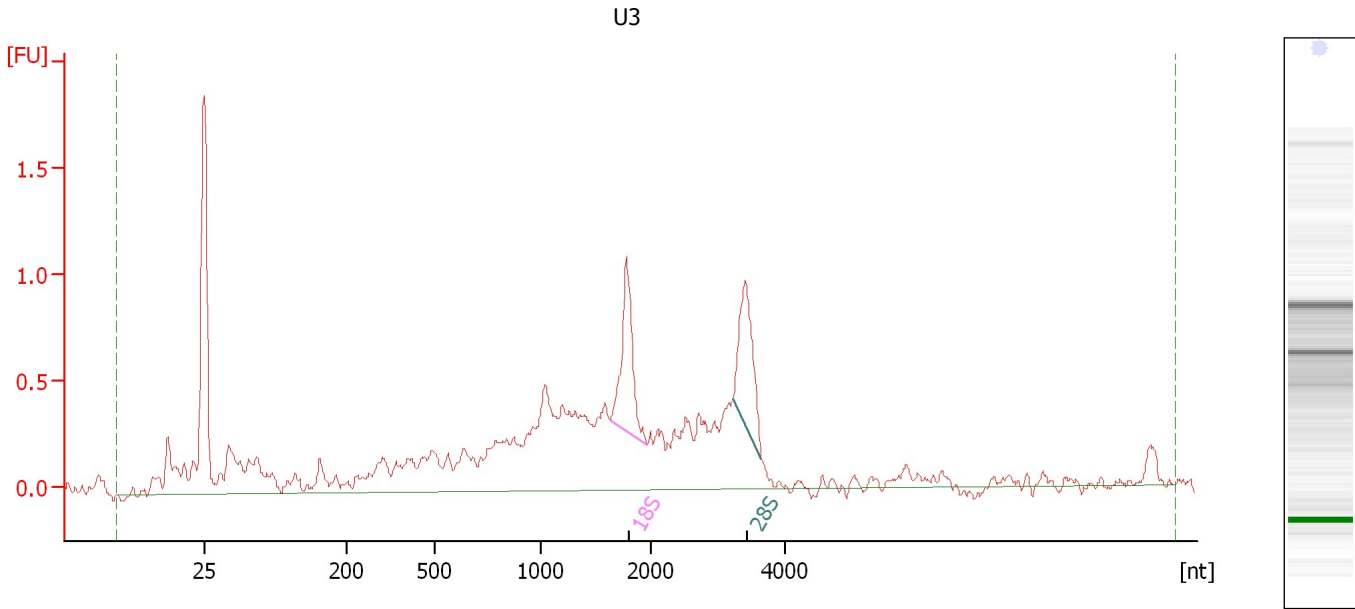
Fragment table for sample 8 : U2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,917	1.1	9.3
28S	3,190	3,814	1.6	13.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : U3

RNA Area:	17.1	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 5.90

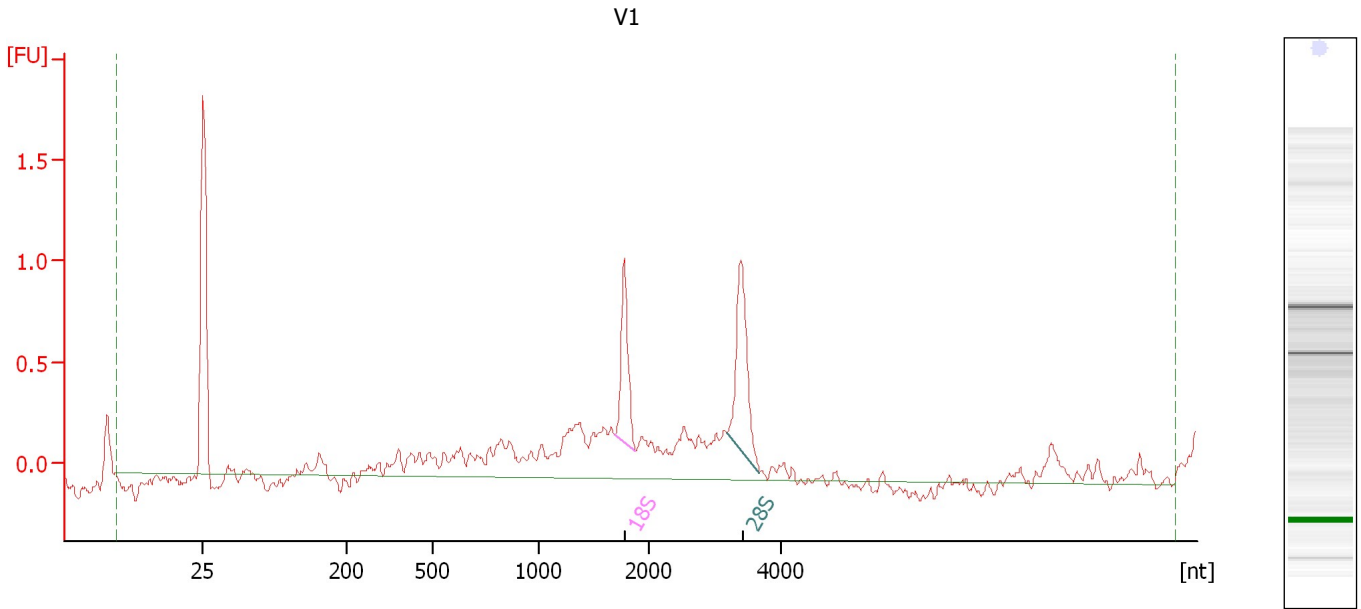
Fragment table for sample 9 : U3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,955	1.0	6.1
28S	3,239	3,656	1.0	5.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : V1

RNA Area:	9.1	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.20

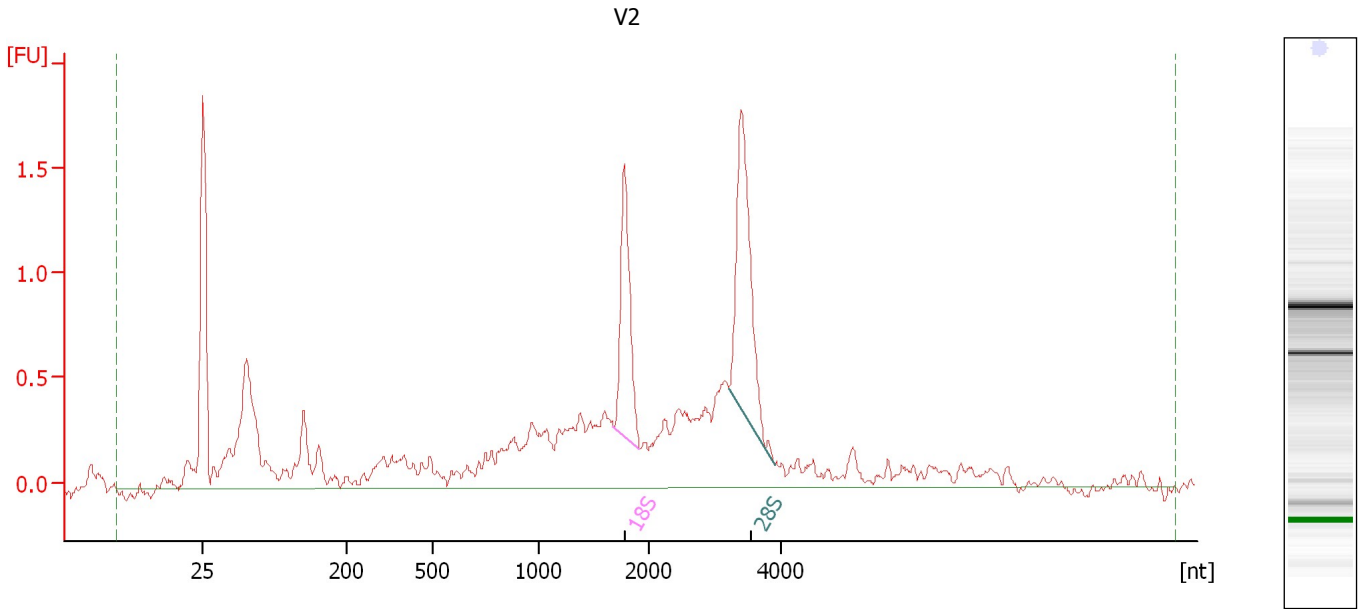
Fragment table for sample 10 : V1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,692	1,876	0.8	8.3
28S	3,160	3,657	1.1	12.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : V2

RNA Area:	19.6	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.70

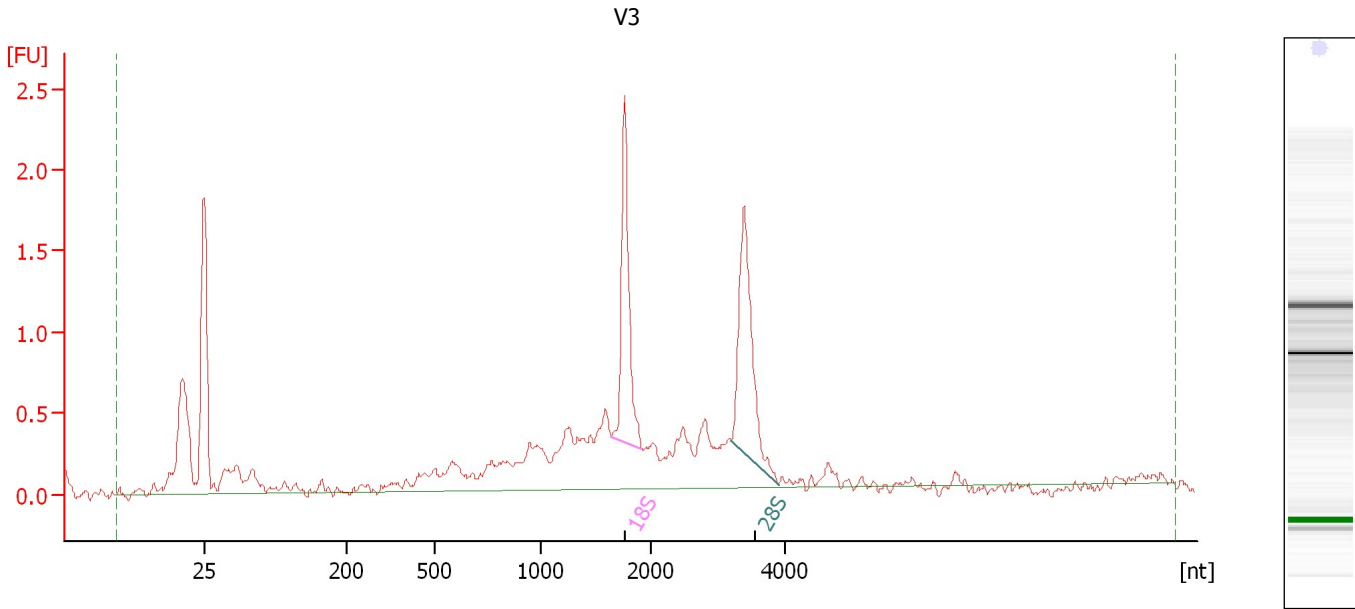
Fragment table for sample 11 : V2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	1,915	1.5	7.5
28S	3,192	3,882	2.2	11.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : V3

RNA Area:	17.3	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN:7

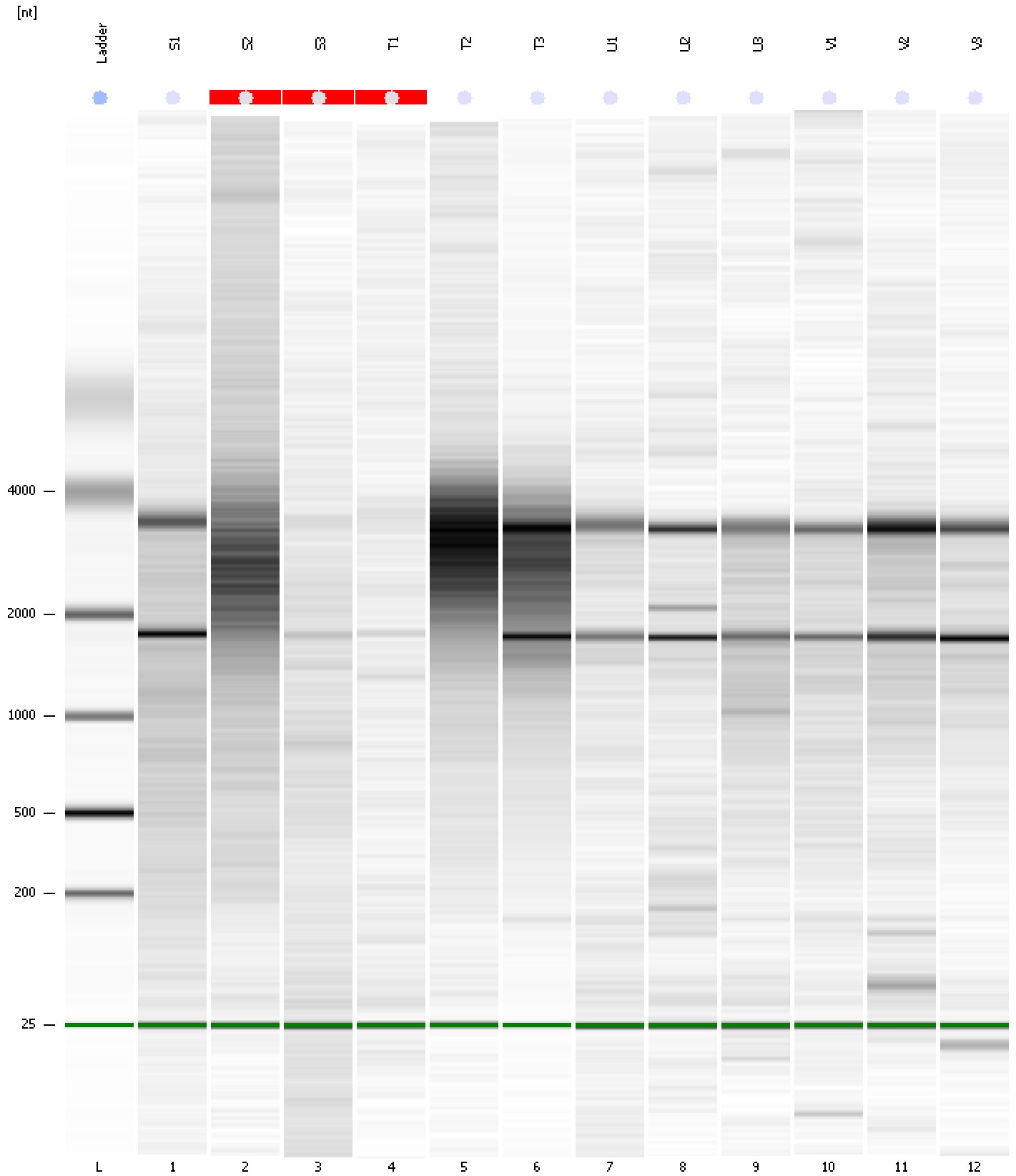
Fragment table for sample 12 : V3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,916	1.9	11.2
28S	3,207	3,912	2.1	12.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
Modified: 12/11/2014 2:36:45 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad

Created: 12/11/2014 2:12:50 PM
 Modified: 12/11/2014 2:36:45 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		12/11/2014 2:36:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-11\2014-12-11_002.xad)		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/11/2014 2:12:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1