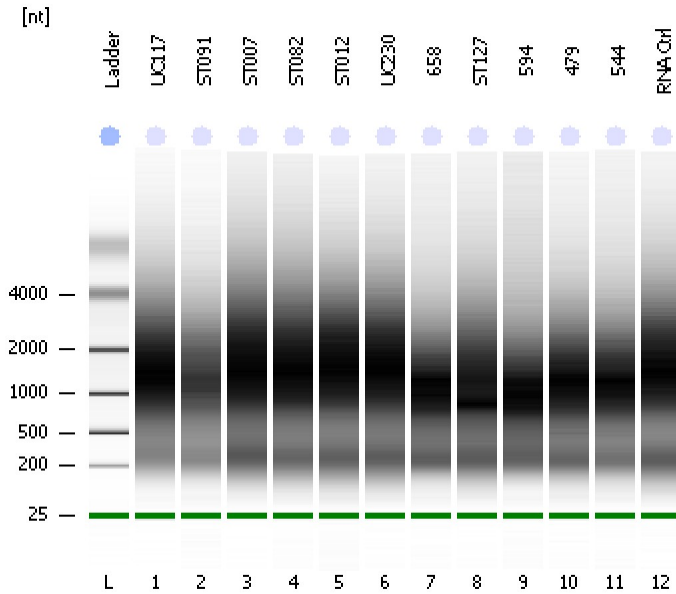


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electrophoresis File Run Summary



Instrument Information:

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

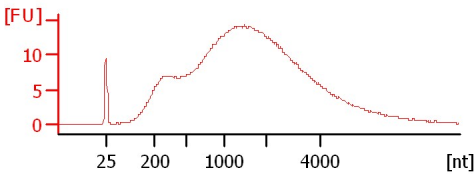
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

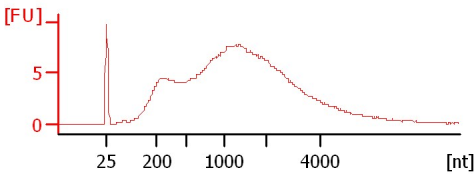
Chip Information:

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

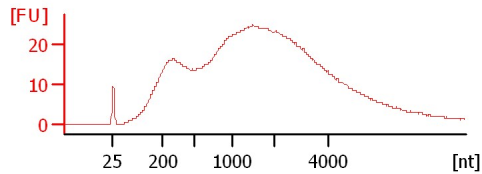
UC117
RIN: 2.80



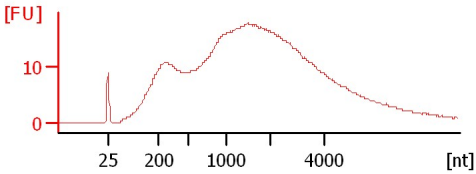
ST091
RIN: 2.80



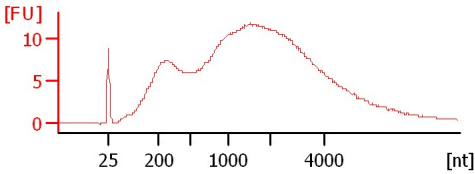
ST007
RIN: 2.80



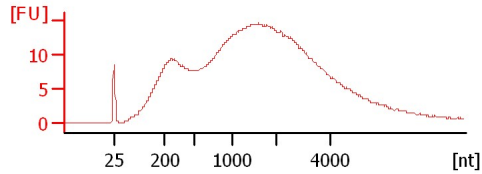
ST082
RIN: 2.80



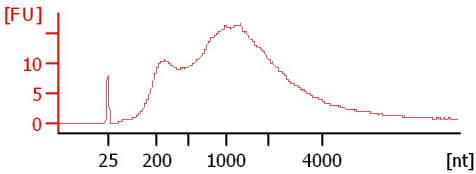
ST012
RIN: 2.70



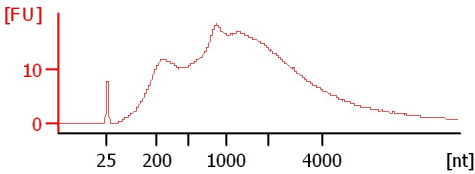
UC230
RIN: 3.20



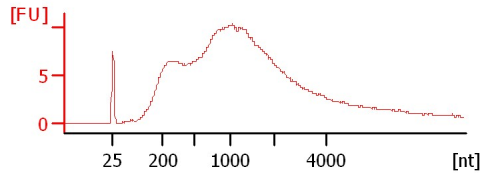
658
RIN: 2.60



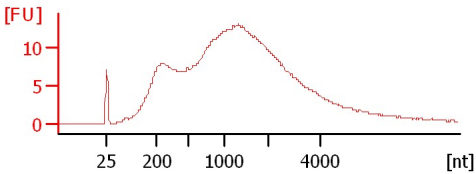
ST127
RIN: 2.20



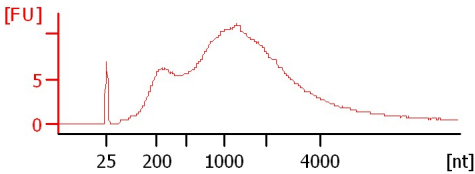
594
RIN: 2.80



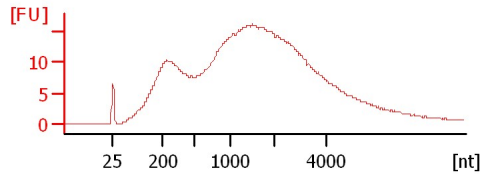
479
RIN: 2.60



544
RIN: 3.80



RNA Ctrl
RIN: 2.70



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
UC117		✓	RIN: 2.80	
ST091		✓	RIN: 2.80	
ST007		✓	RIN: 2.80	
ST082		✓	RIN: 2.80	
ST012		✓	RIN: 2.70	
UC230		✓	RIN: 3.20	
658		✓	RIN: 2.60	
ST127		✓	RIN: 2.20	
594		✓	RIN: 2.80	
479		✓	RIN: 2.60	
544		✓	RIN: 3.80	
RNA Ctrl		✓	RIN: 2.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 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

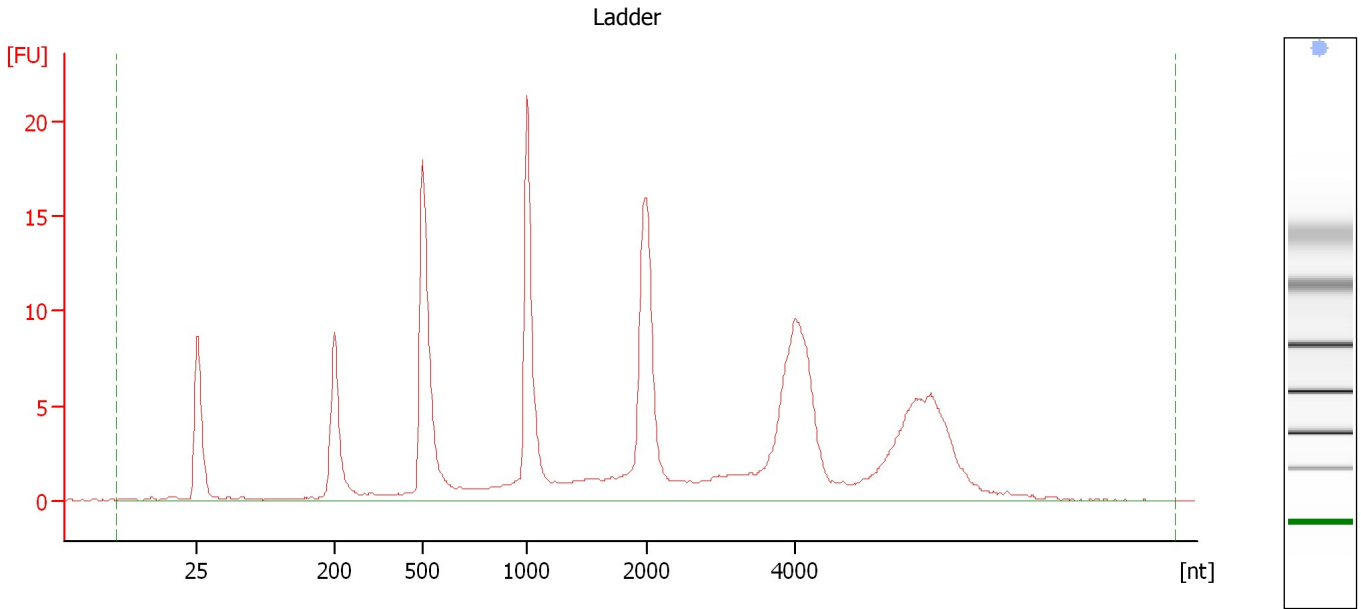
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary



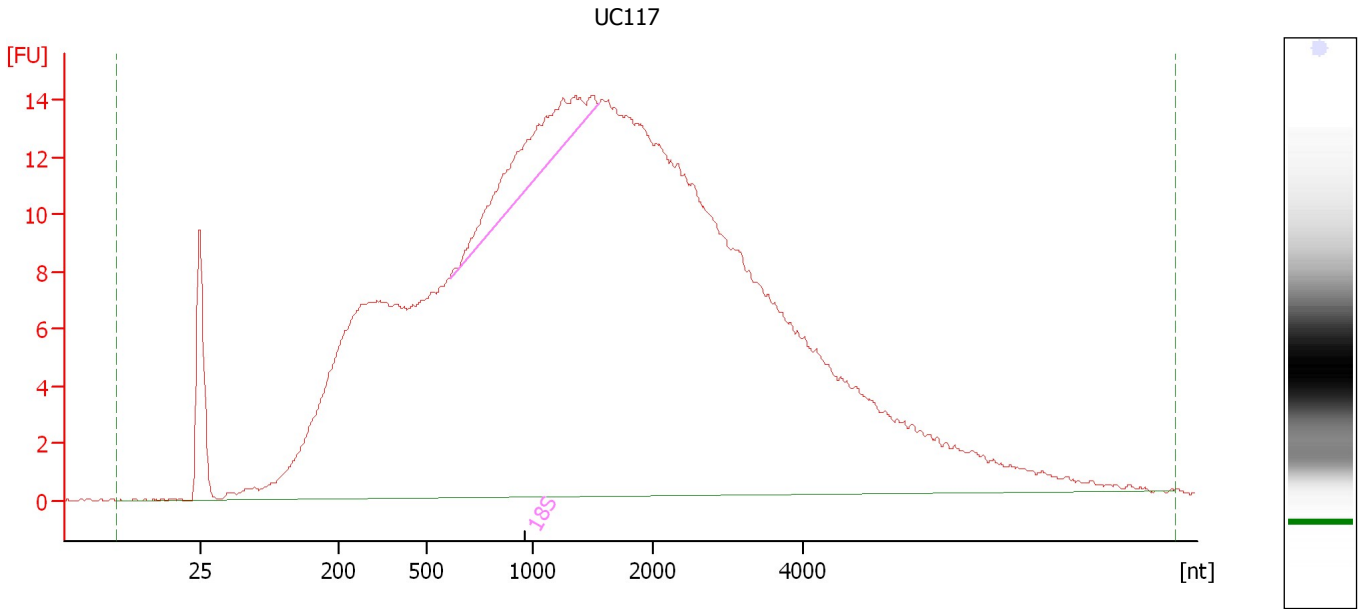
Overall Results for Ladder

RNA Area:	191.7	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\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : UC117

RNA Area:	608.8	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	476 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

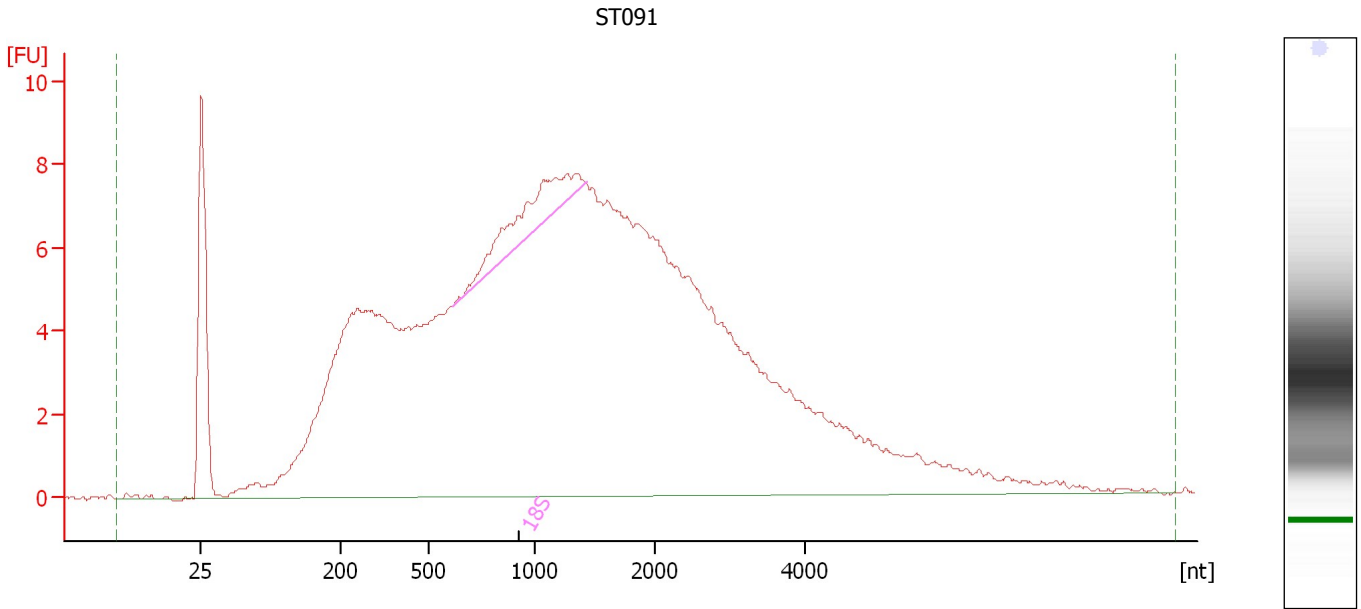
Fragment table for sample 1 : UC117

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	609	1,555	19.3	3.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ST091

RNA Area:	324.8	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	254 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

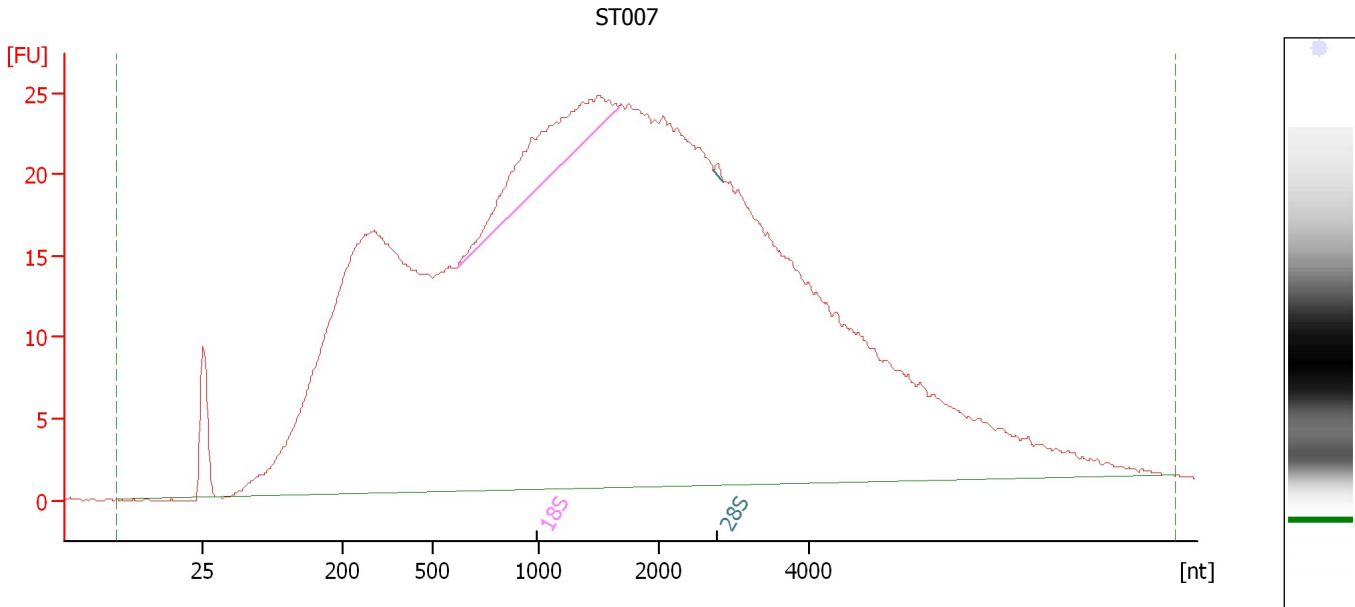
Fragment table for sample 2 : ST091

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	617	1,431	8.2	2.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ST007

RNA Area:	1,202.4	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	941 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

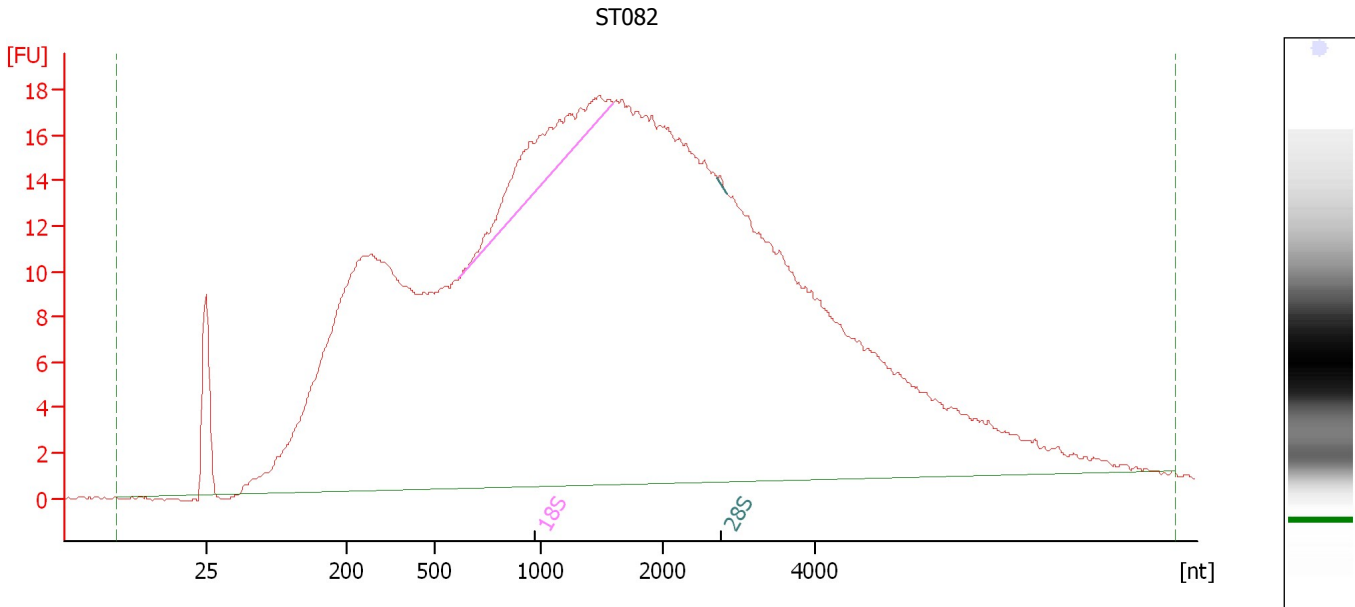
Fragment table for sample 3 : ST007

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	617	1,667	35.8	3.0
28S	2,727	2,868	0.4	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST082

RNA Area:	818.6	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	641 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

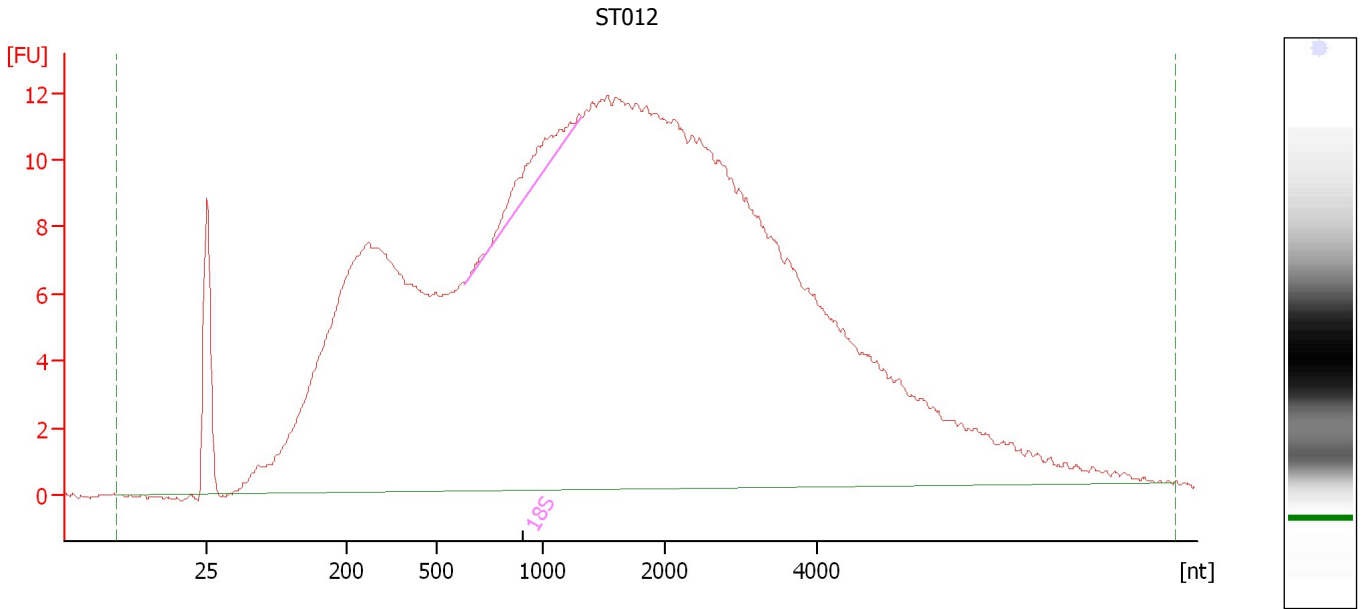
Fragment table for sample 4 : ST082

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	612	1,599	23.9	2.9
28S	2,727	2,839	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ST012

RNA Area:	564.0	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	441 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

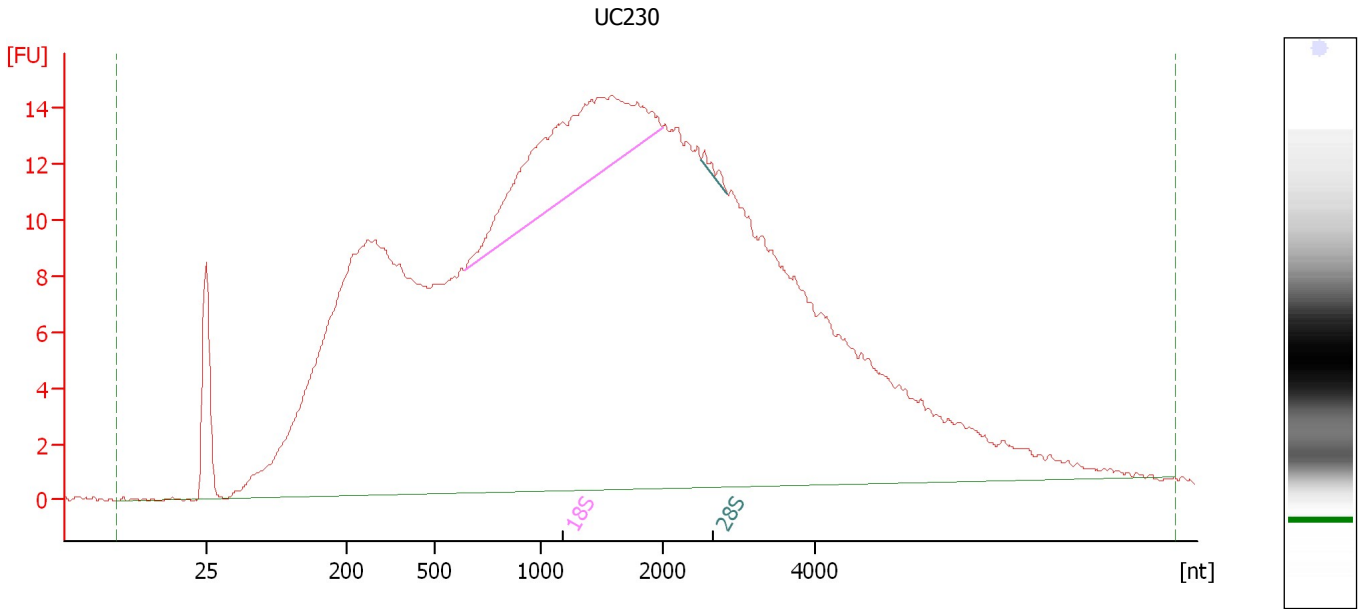
Fragment table for sample 5 : ST012

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	634	1,318	6.9	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : UC230

RNA Area:	679.0	RNA Integrity Number (RIN):	3.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	531 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 3.20

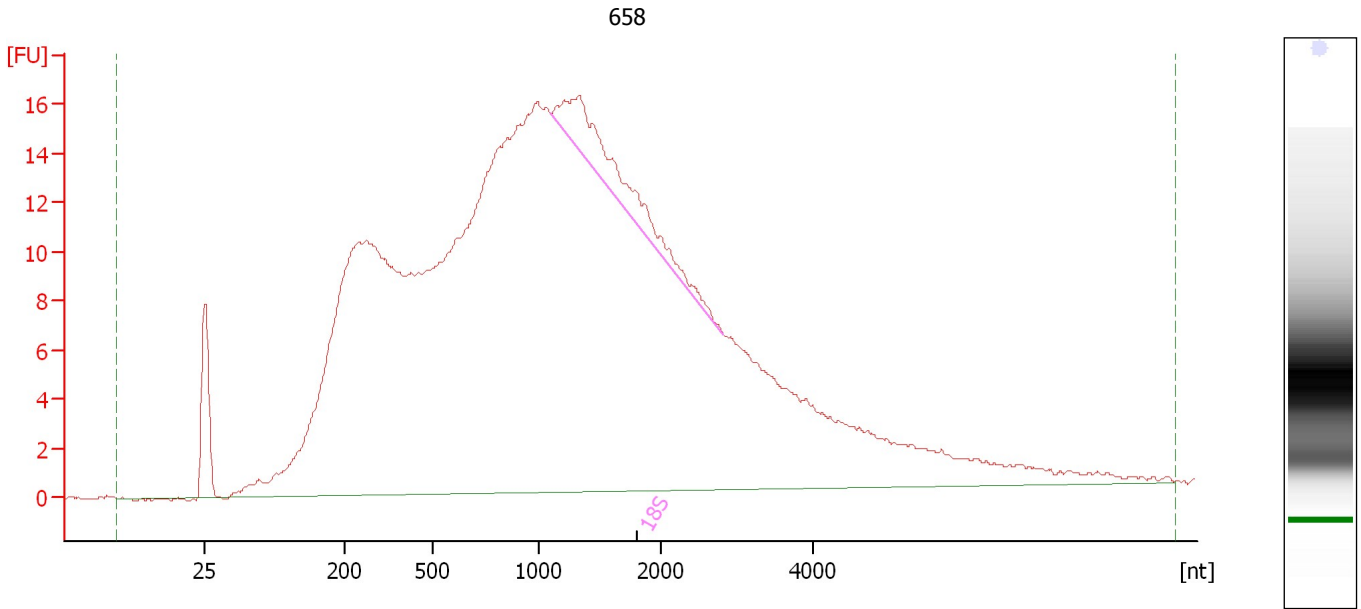
Fragment table for sample 6 : UC230

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	642	1,998	41.5	6.1
28S	2,502	2,853	0.8	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 658

RNA Area:	650.1	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	509 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

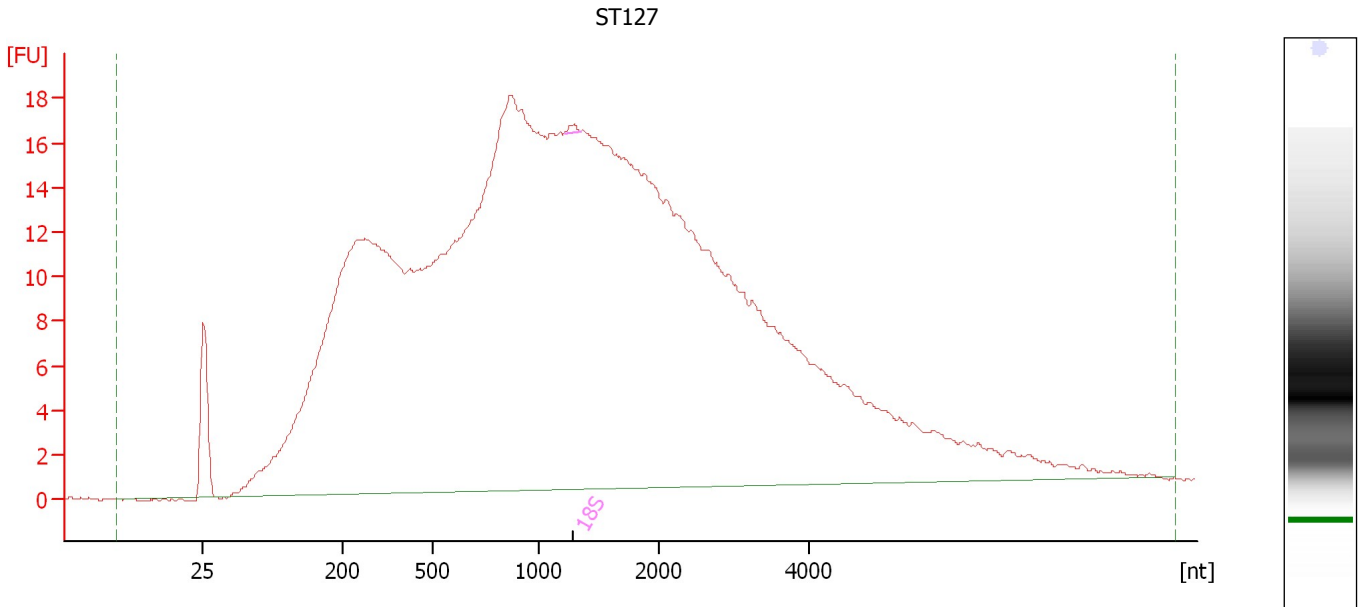
Fragment table for sample 7 : 658

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,091	2,839	17.2	2.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST127

RNA Area:	788.6	RNA Integrity Number (RIN):	2.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	617 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

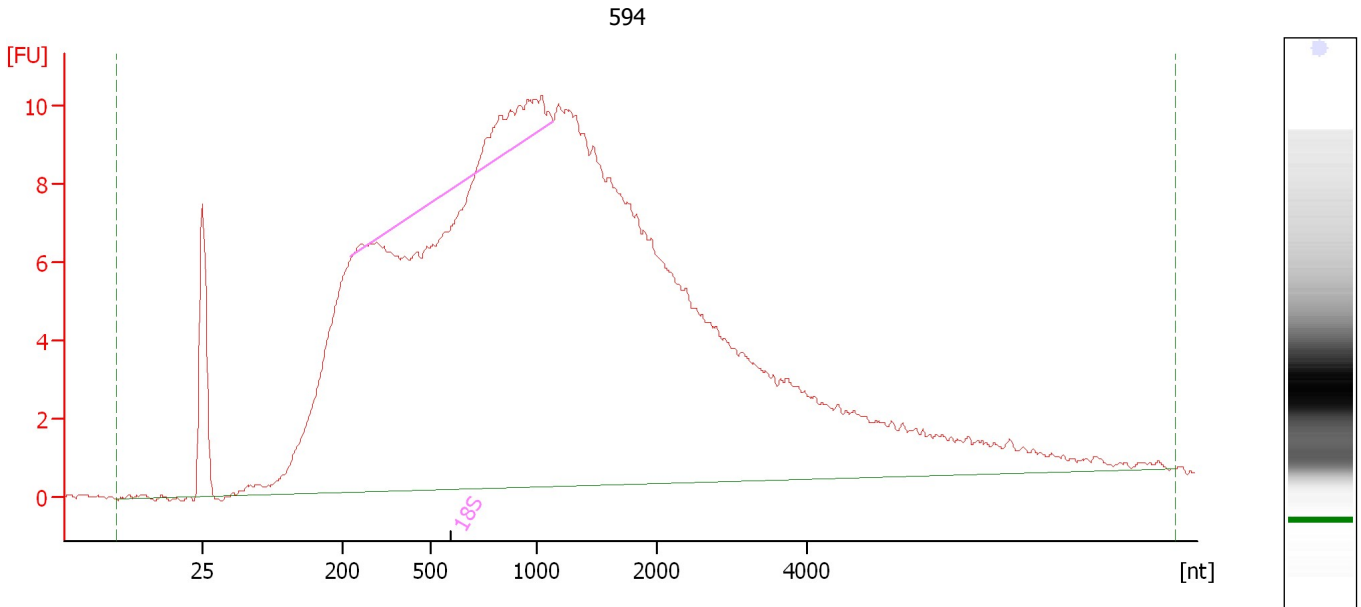
Fragment table for sample 8 : ST127

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,222	1,355	0.4	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 594

RNA Area:	408.1	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	319 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

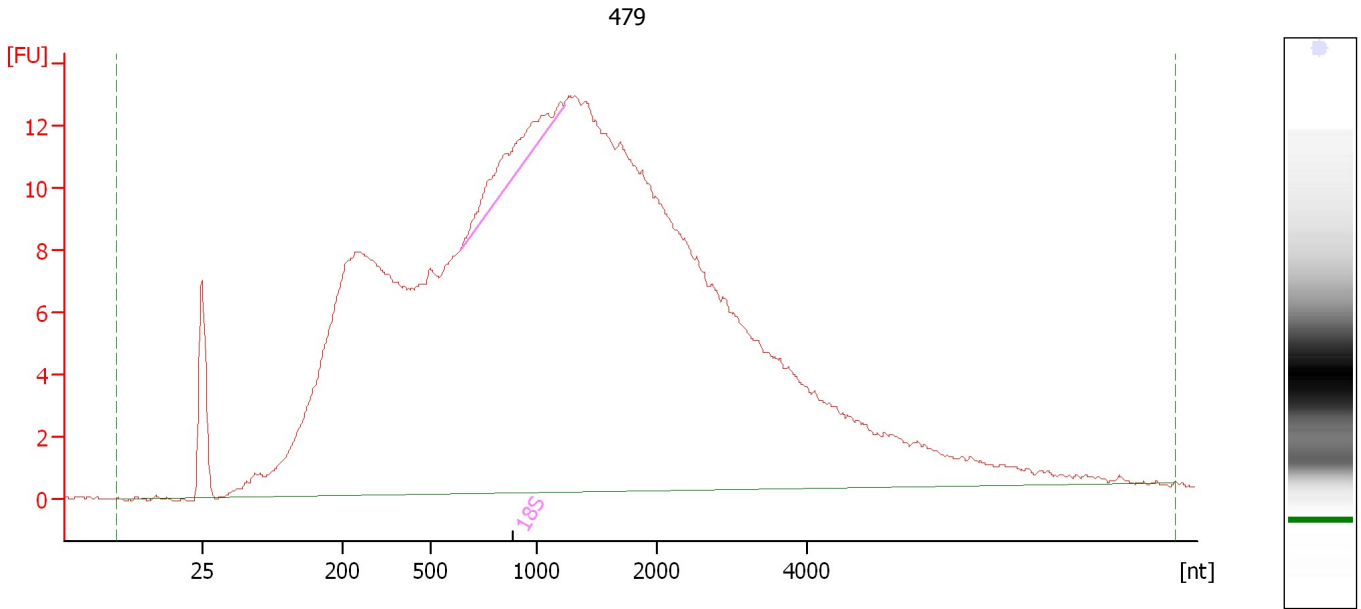
Fragment table for sample 9 : 594

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	233	1,139	7.2	1.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 479

RNA Area:	532.1	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	416 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

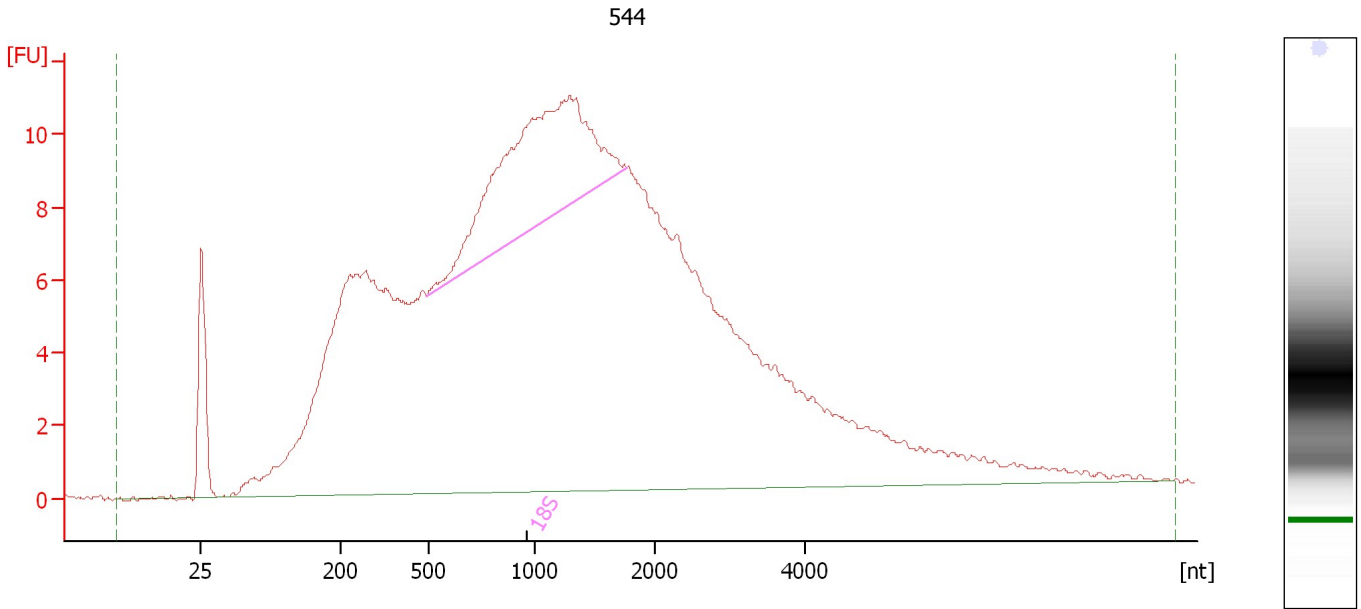
Fragment table for sample 10 : 479

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	639	1,237	8.4	1.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 544

RNA Area:	434.7	RNA Integrity Number (RIN):	3.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	340 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

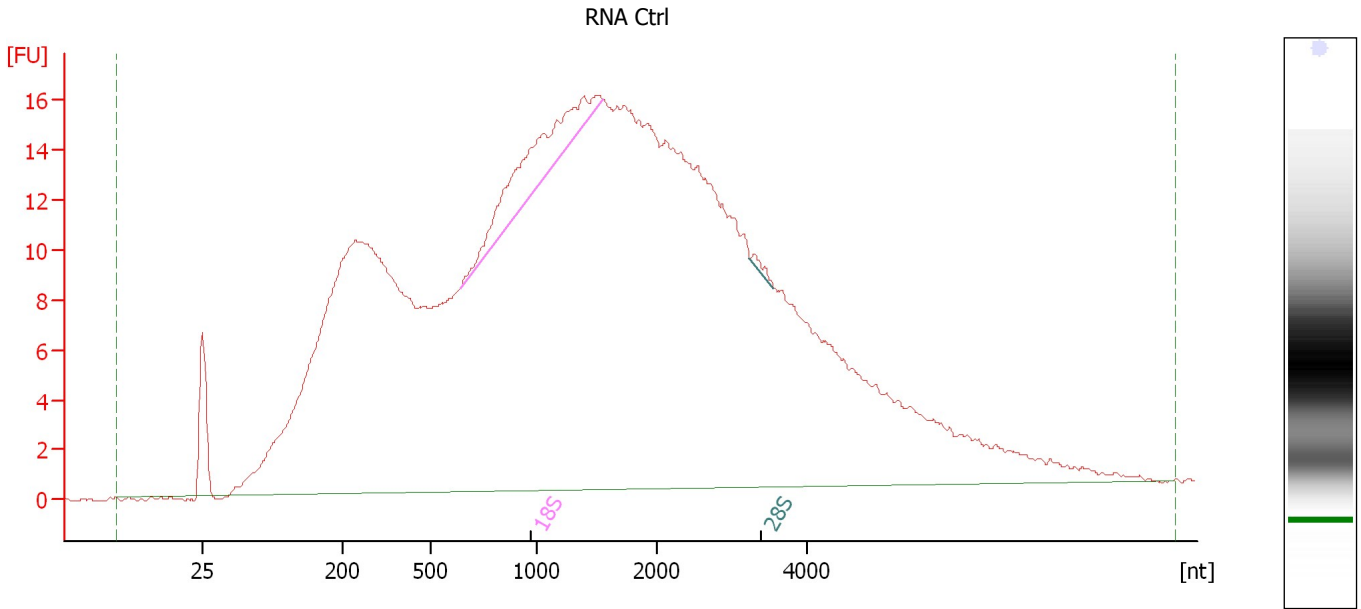
Fragment table for sample 11 : 544

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	493	1,771	40.7	9.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : RNA Ctrl

RNA Area:	733.8	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	574 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

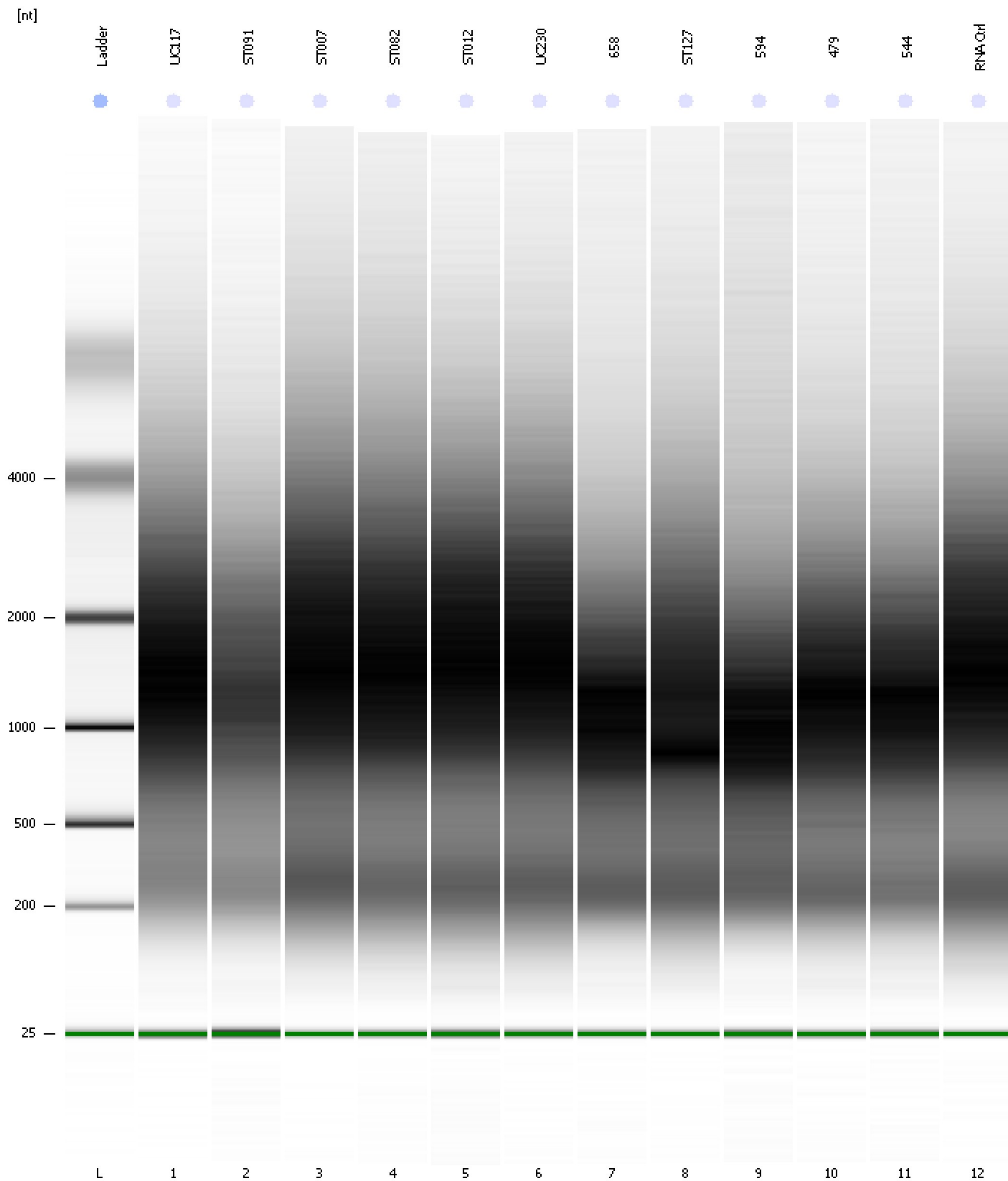
Fragment table for sample 12 : RNA Ctrl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	645	1,549	19.0	2.6
28S	3,236	3,547	0.5	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
Modified: 6/6/2016 10:54:32 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad

Created: 6/6/2016 10:19:40 AM
 Modified: 6/6/2016 10:54:32 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		6/6/2016 10:42:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_003.xad)		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/6/2016 10:19:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1