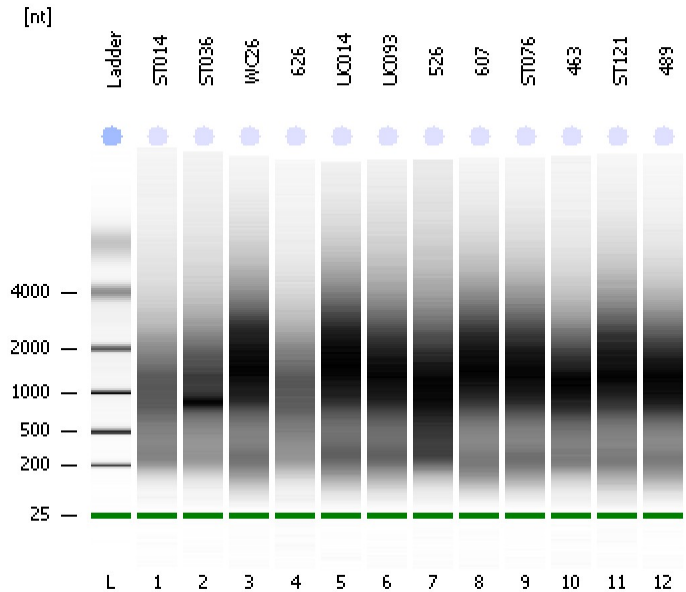


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electrophoresis File Run Summary



Instrument Information:

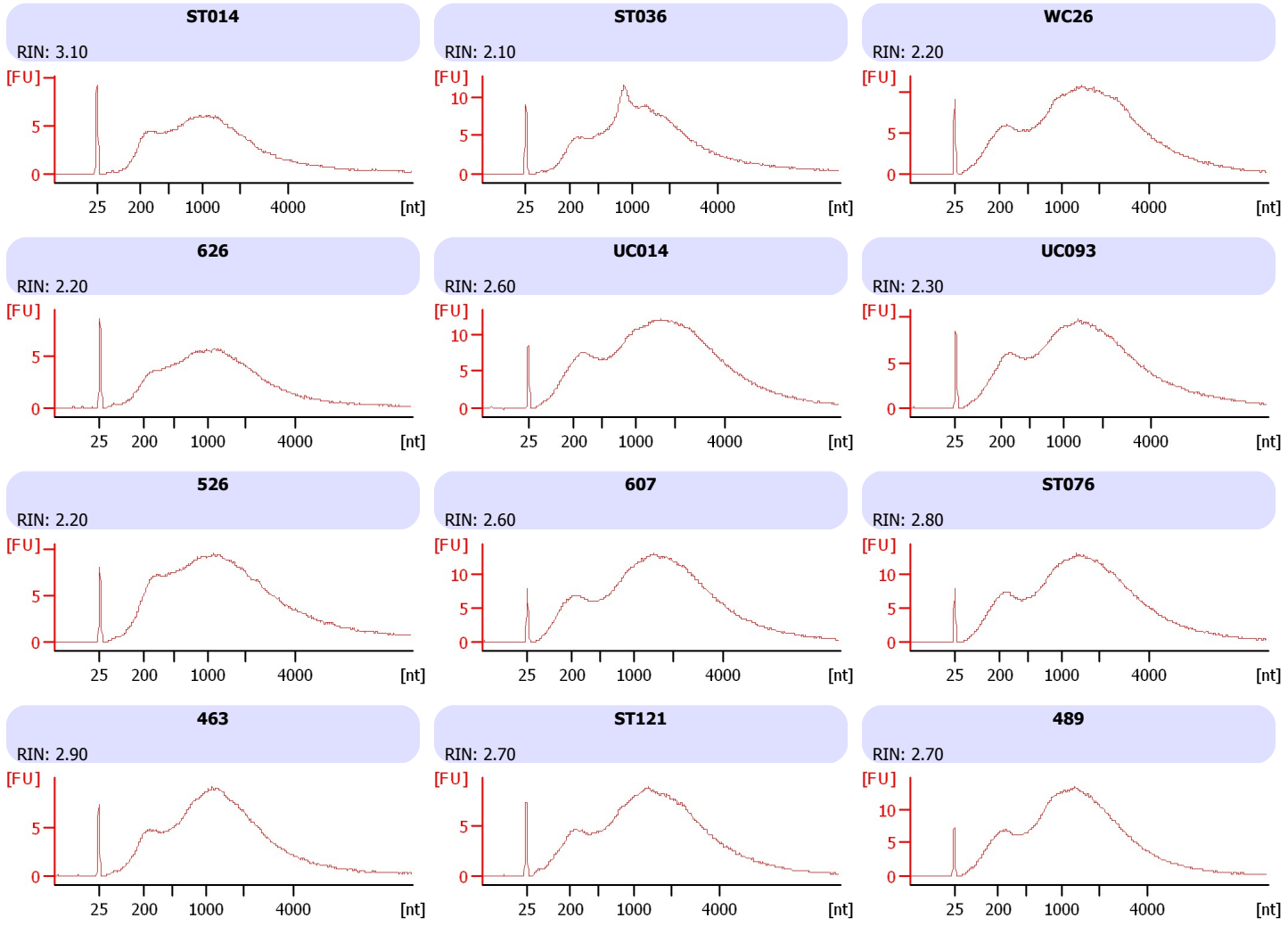
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST014		✓	RIN: 3.10	
ST036		✓	RIN: 2.10	
WC26		✓	RIN: 2.20	
626		✓	RIN: 2.20	
UC014		✓	RIN: 2.60	
UC093		✓	RIN: 2.30	
526		✓	RIN: 2.20	
607		✓	RIN: 2.60	
ST076		✓	RIN: 2.80	
463		✓	RIN: 2.90	
ST121		✓	RIN: 2.70	
489		✓	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\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 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

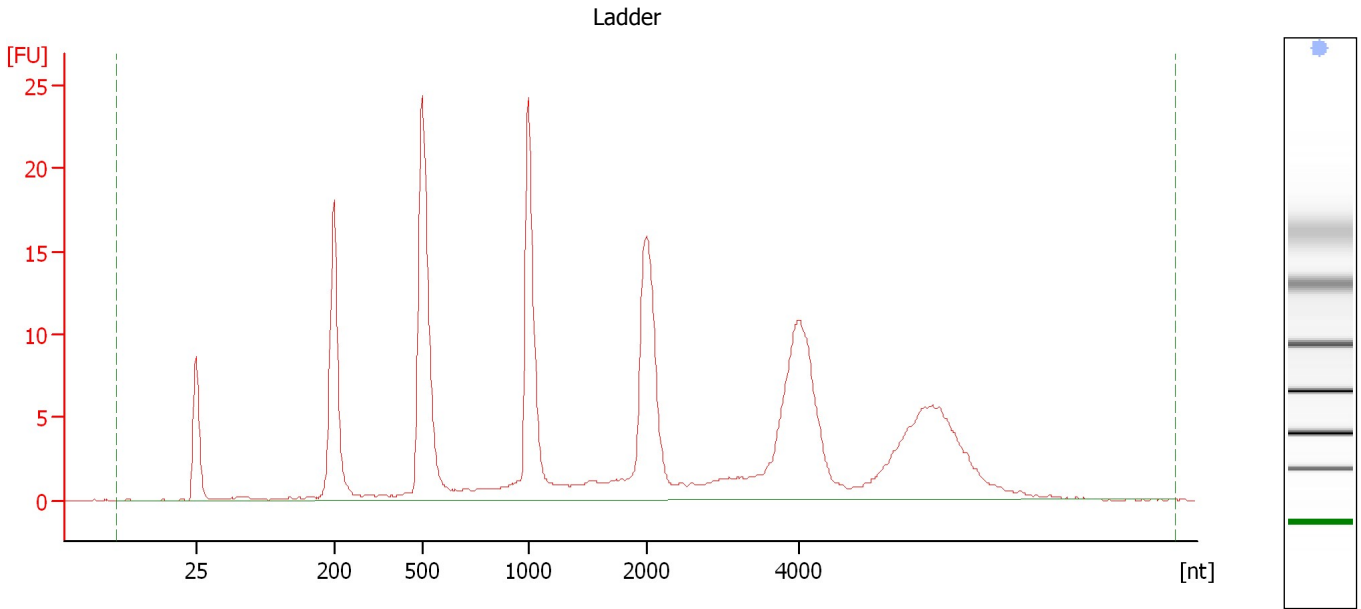
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary



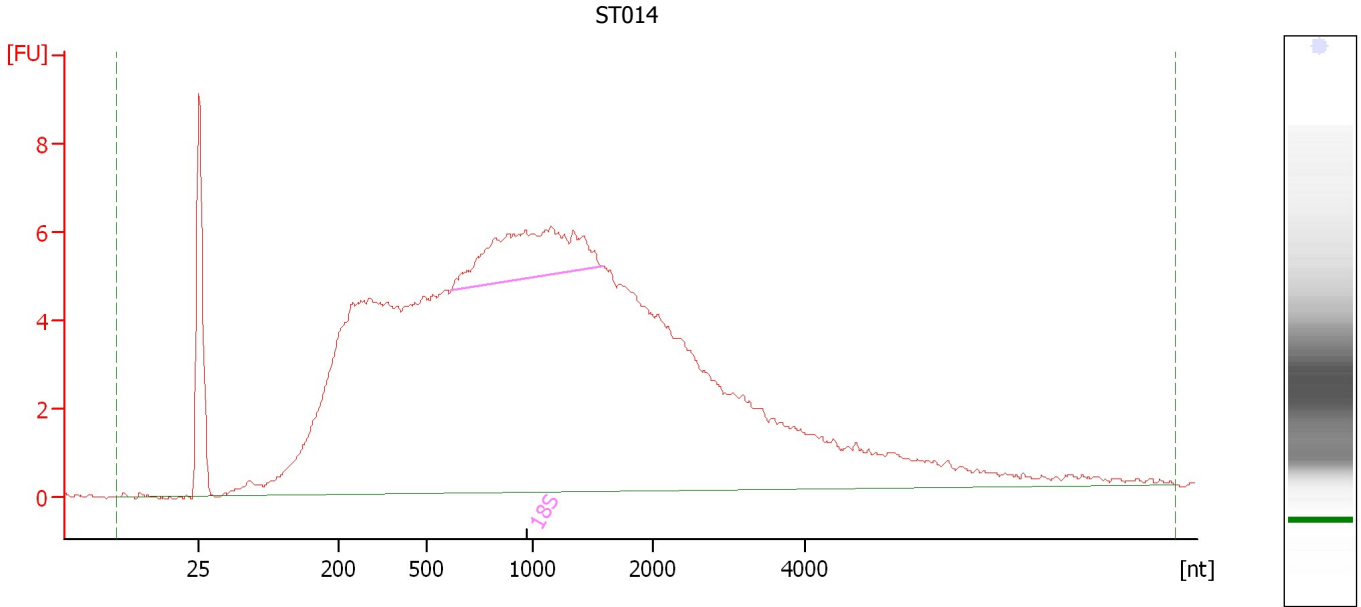
Overall Results for Ladder

RNA Area:	231.5	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\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST014

RNA Area:	264.2	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	171 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.10

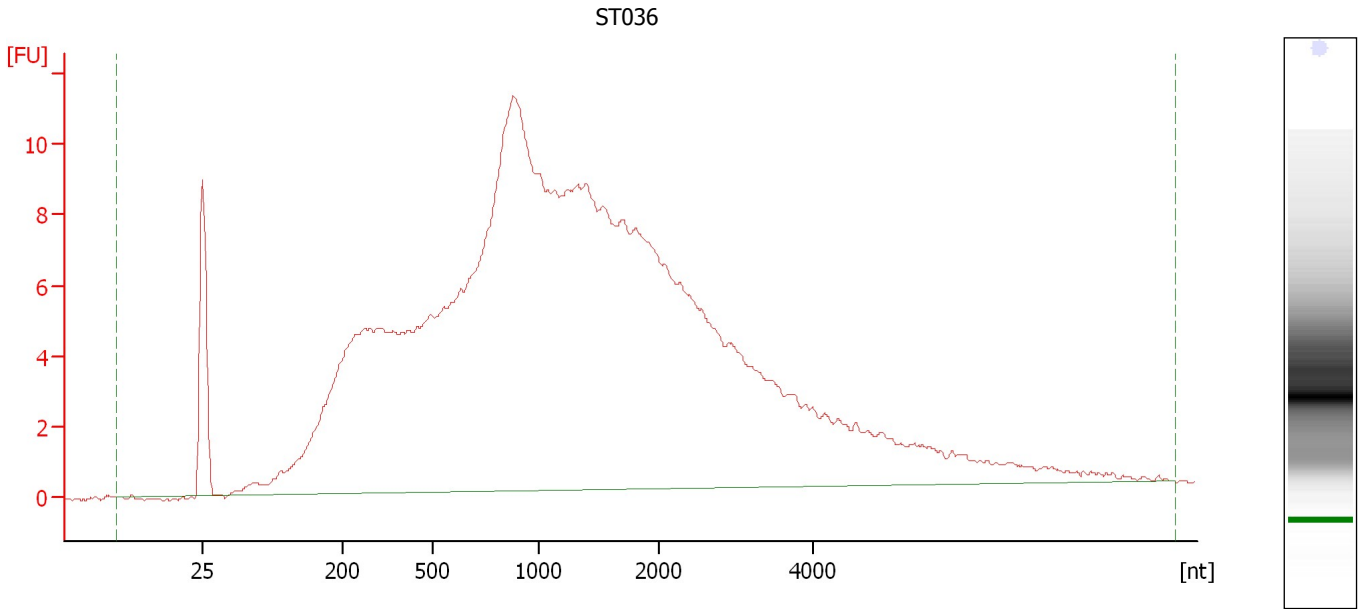
Fragment table for sample 1 : ST014

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	613	1,577	13.7	5.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



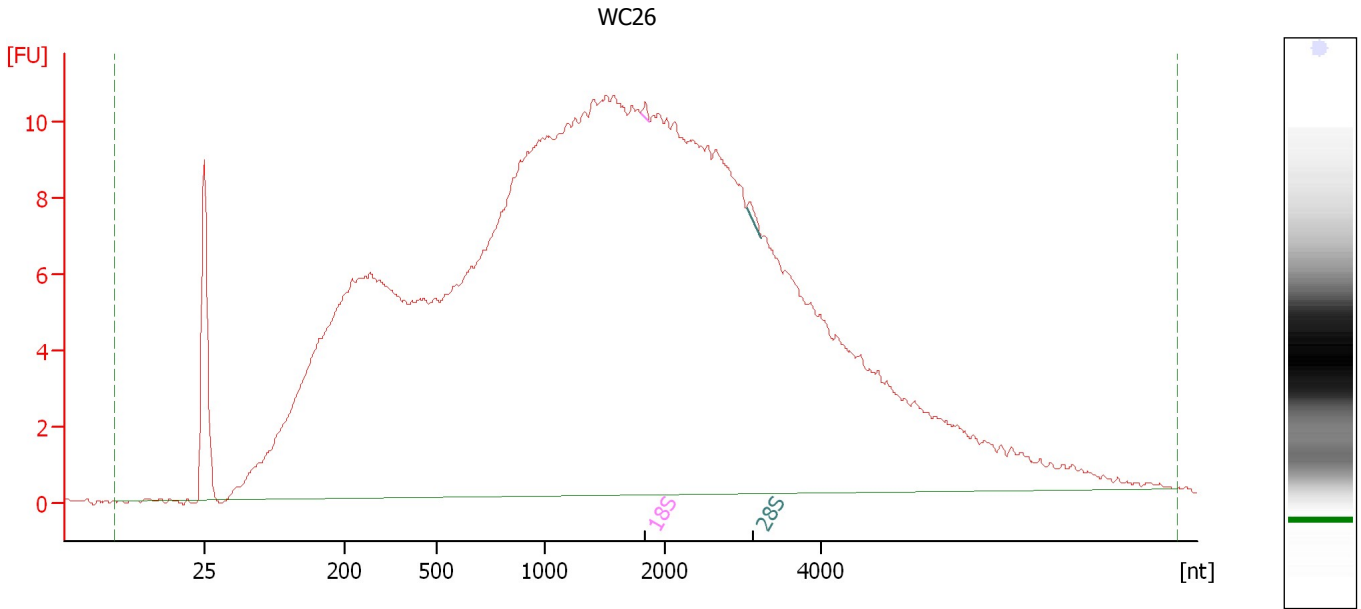
Overall Results for sample 2 : ST036

RNA Area:	370.4	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	240 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:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WC26

RNA Area:	506.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	328 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 2.20

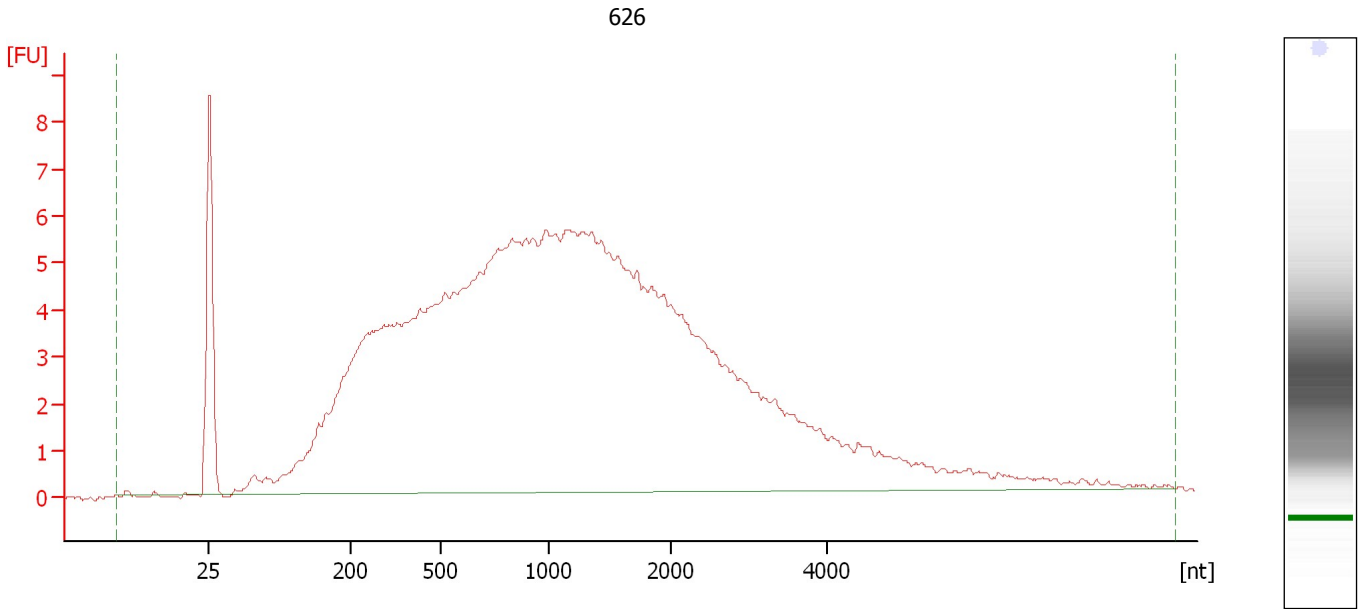
Fragment table for sample 3 : WC26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,802	1,873	0.2	0.0
28S	3,054	3,246	0.3	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



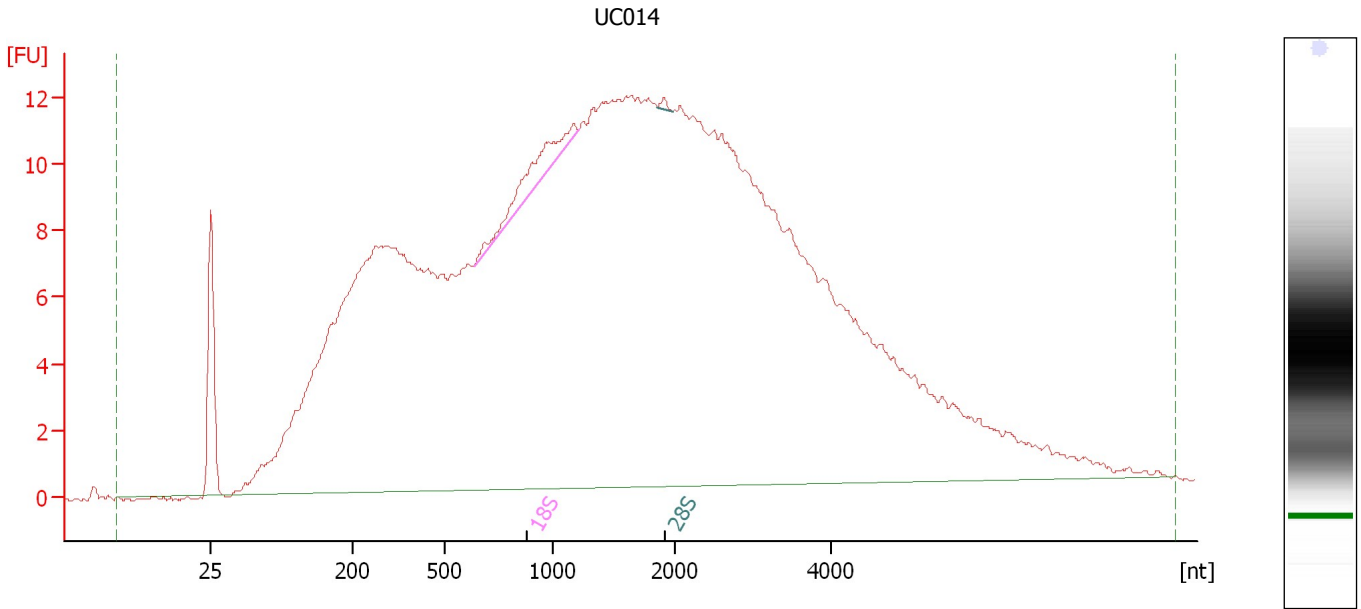
Overall Results for sample 4 : 626

RNA Area:	242.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	157 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : UC014

RNA Area:	588.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	381 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

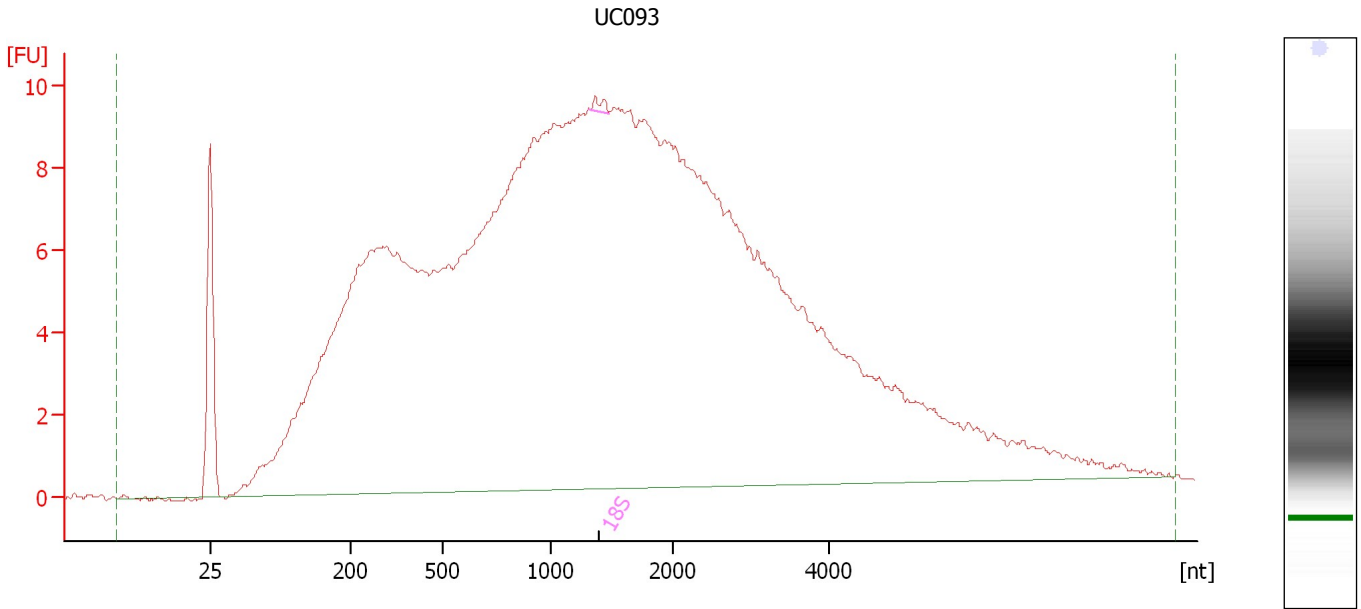
Fragment table for sample 5 : UC014

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	635	1,208	5.2	0.9
28S	1,861	1,984	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : UC093

RNA Area:	450.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	292 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

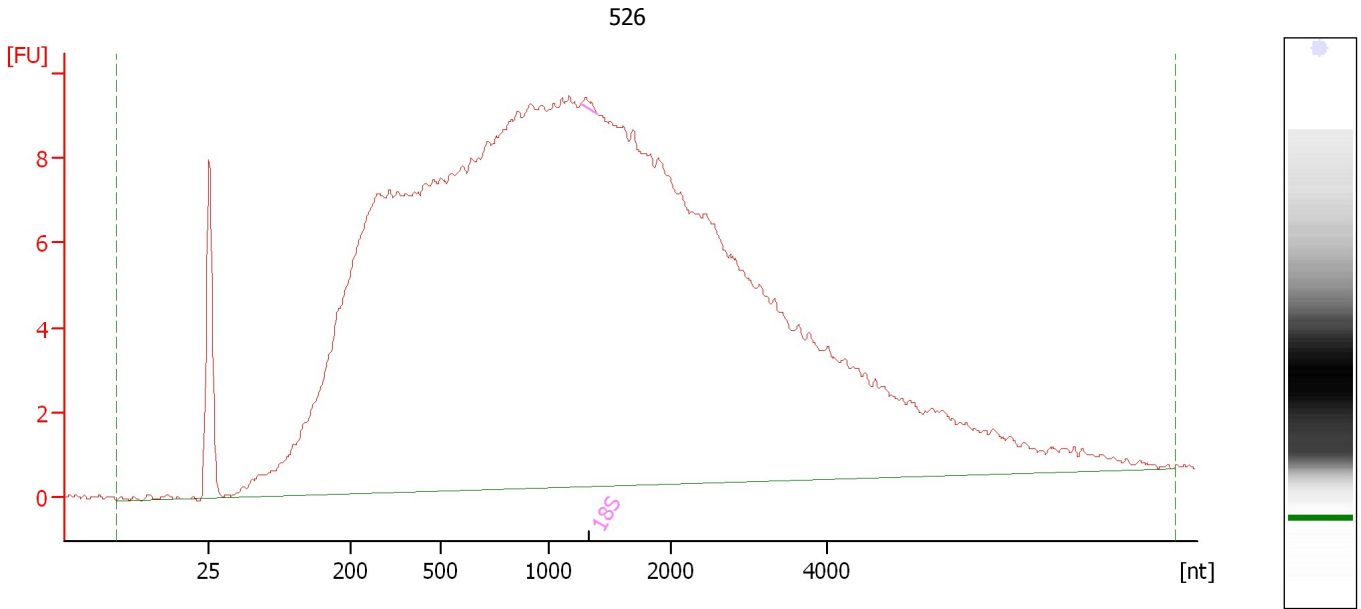
Fragment table for sample 6 : UC093

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,312	1,471	0.4	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 526

RNA Area:	449.2	RNA Integrity Number (RIN):	2.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	291 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

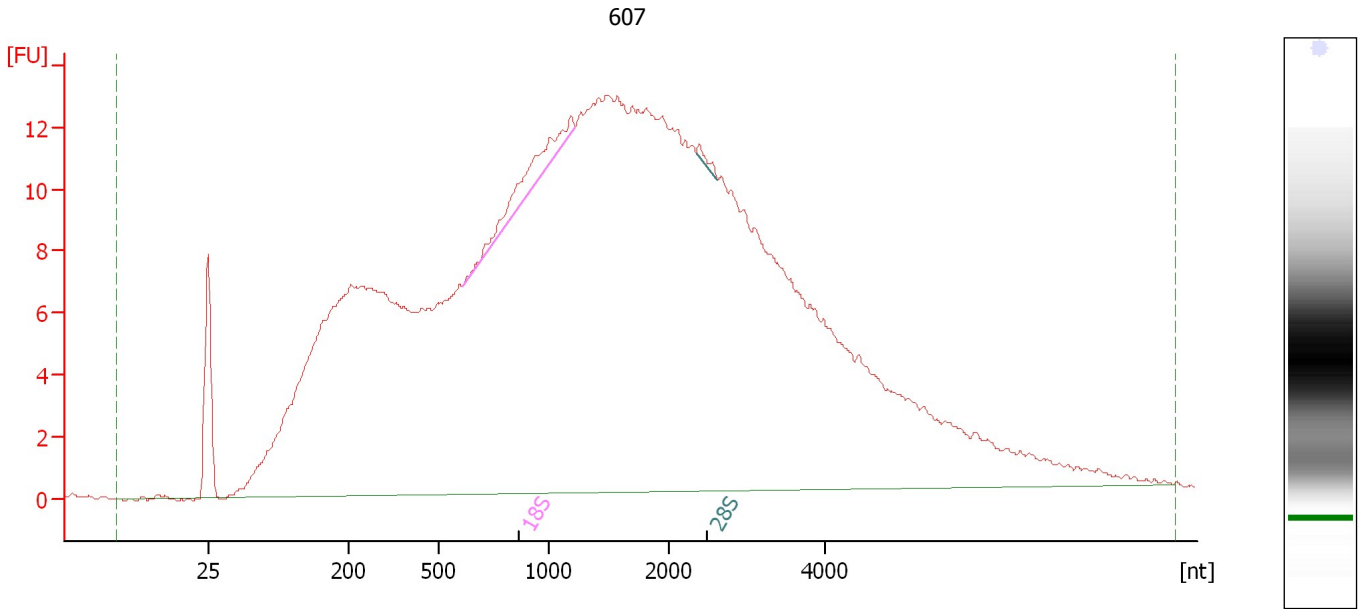
Fragment table for sample 7 : 526

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,265	1,398	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
 Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 607

RNA Area:	604.0	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	391 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.60

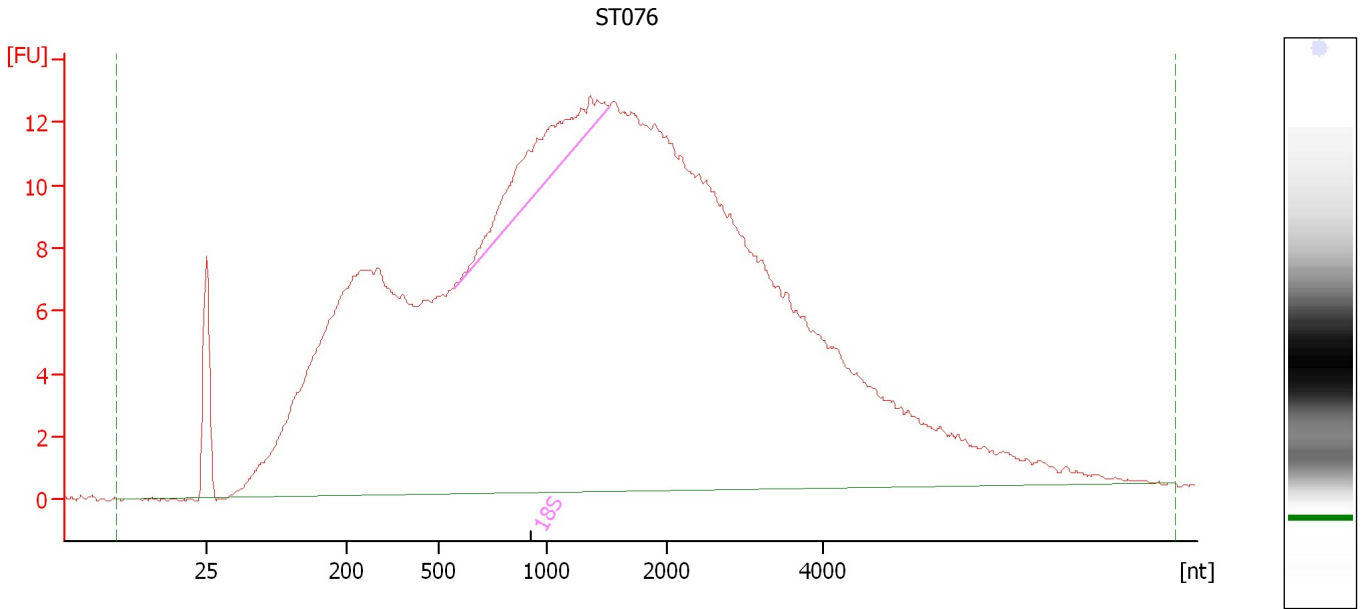
Fragment table for sample 8 : 607

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	608	1,227	6.8	1.1
28S	2,355	2,628	0.5	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : ST076

RNA Area:	578.2	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	375 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

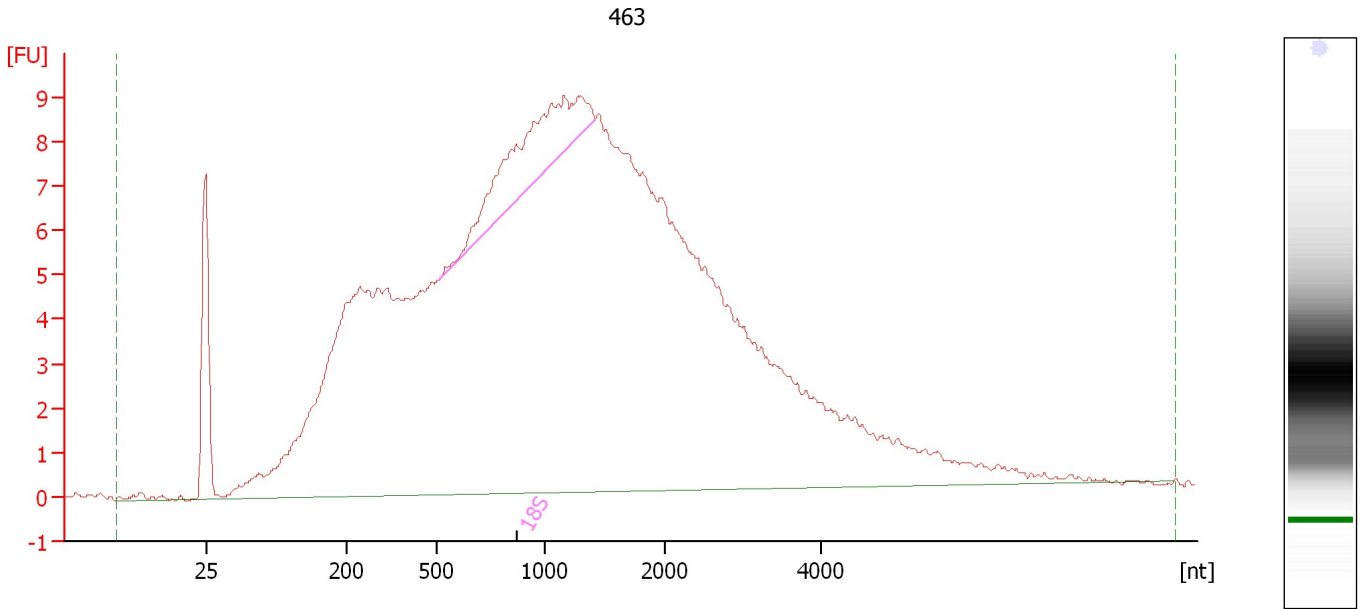
Fragment table for sample 9 : ST076

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	576	1,527	16.8	2.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 463

RNA Area: 357.6 RNA Integrity Number (RIN): 2.9 (B.02.08)
RNA Concentration: 232 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.90

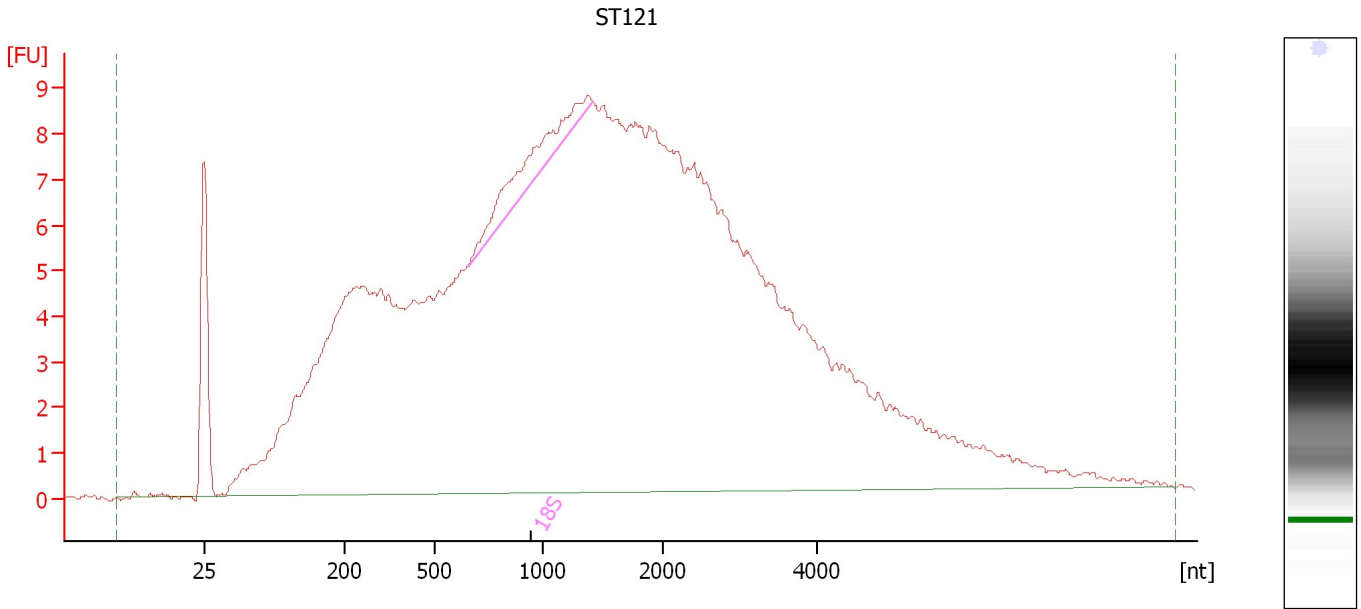
Fragment table for sample 10 : 463

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	514	1,427	15.1	4.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : ST121

RNA Area:	395.5	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	256 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

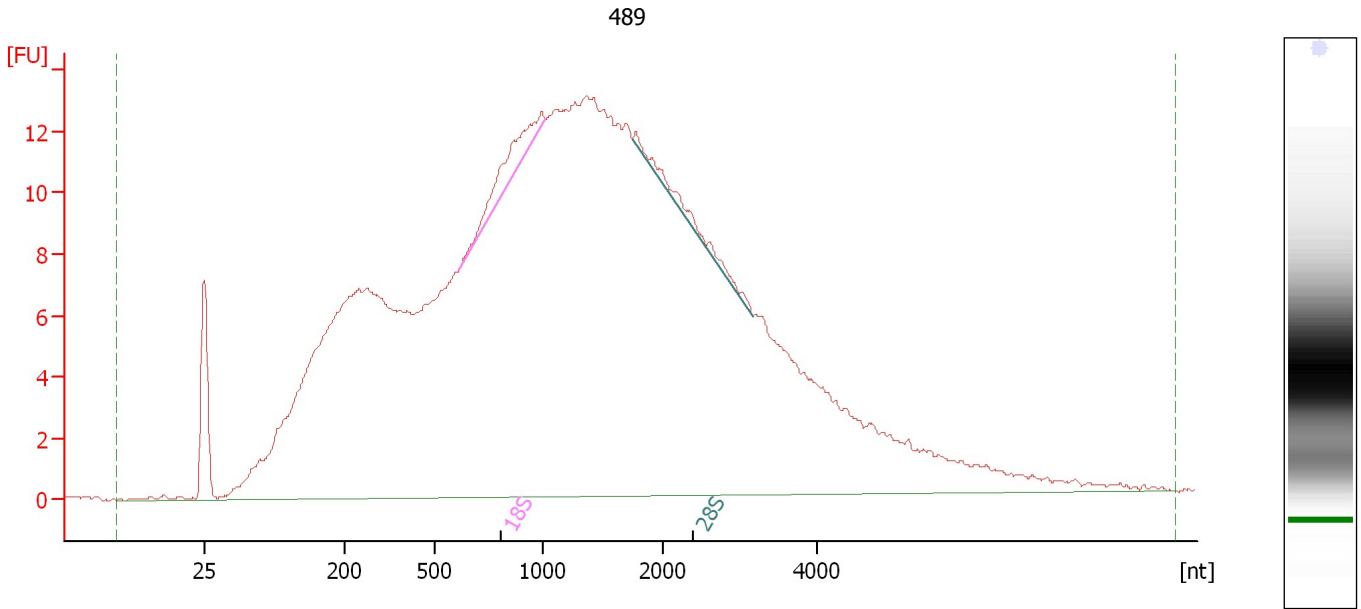
Fragment table for sample 11 : ST121

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	655	1,425	7.0	1.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 489

RNA Area: 566.8 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 367 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 2.70

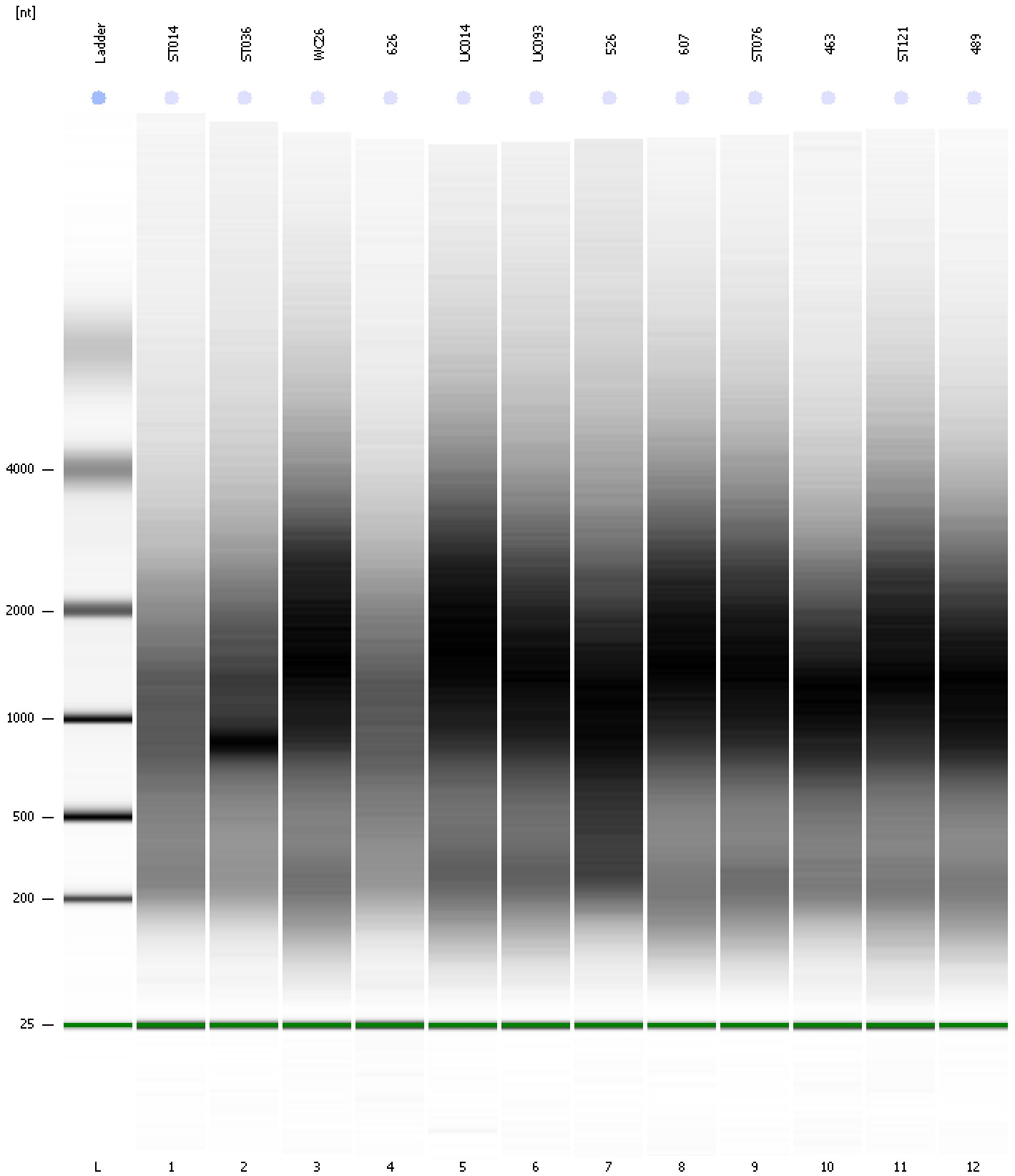
Fragment table for sample 12 : 489

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	610	1,023	6.0	1.1
28S	1,747	3,165	2.8	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
Modified: 5/16/2016 12:56:52 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad

Created: 5/16/2016 12:33:00 PM
 Modified: 5/16/2016 12:56:52 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		5/16/2016 12:56:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_002.xad)		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/16/2016 12:33:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1