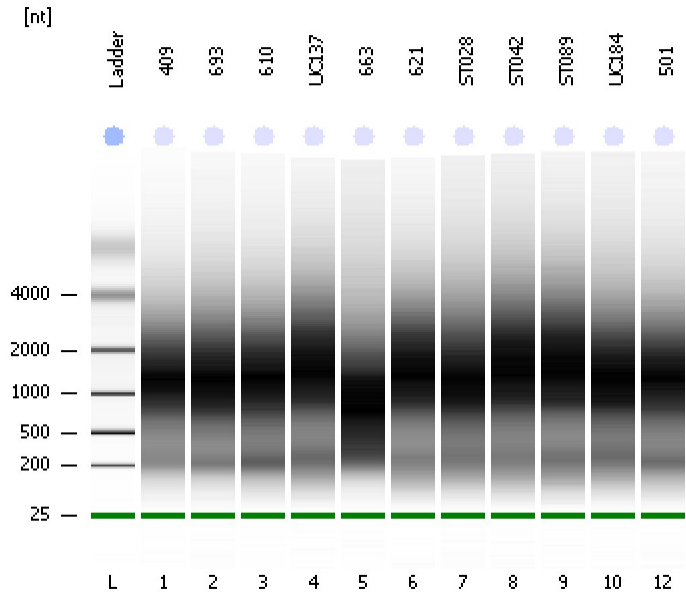


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 PM

Electrophoresis File Run Summary



Instrument Information:

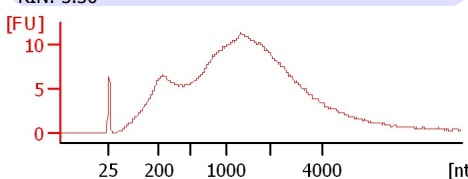
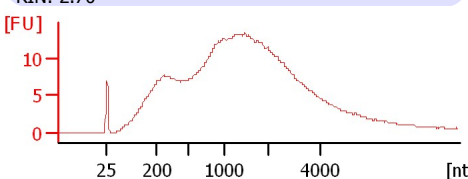
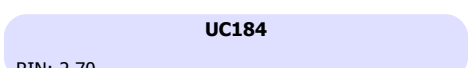
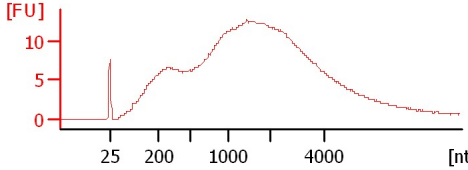
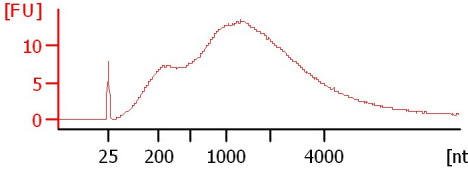
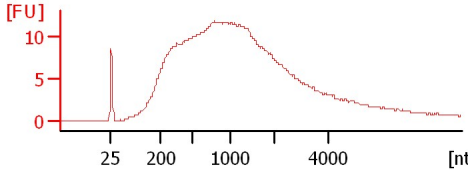
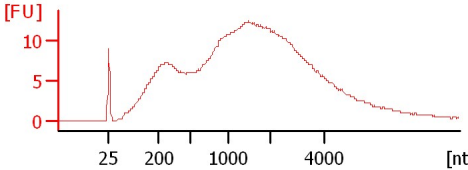
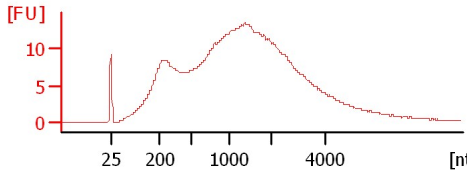
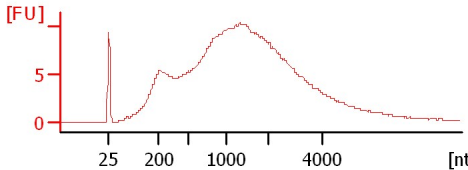
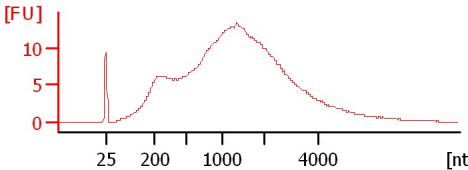
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
409		✓	RIN: 8.60	
693		✓	RIN: 4.10	
610		✓	RIN:8	
UC137		✓	RIN: 2.90	
663		✓	RIN:2	
621		✓	RIN: 2.60	
ST028		✓	RIN: 2.70	
ST042		✓	RIN: 2.40	
ST089		✓	RIN: 3.30	
UC184		✓	RIN: 2.70	
501		✓	RIN: 5.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 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

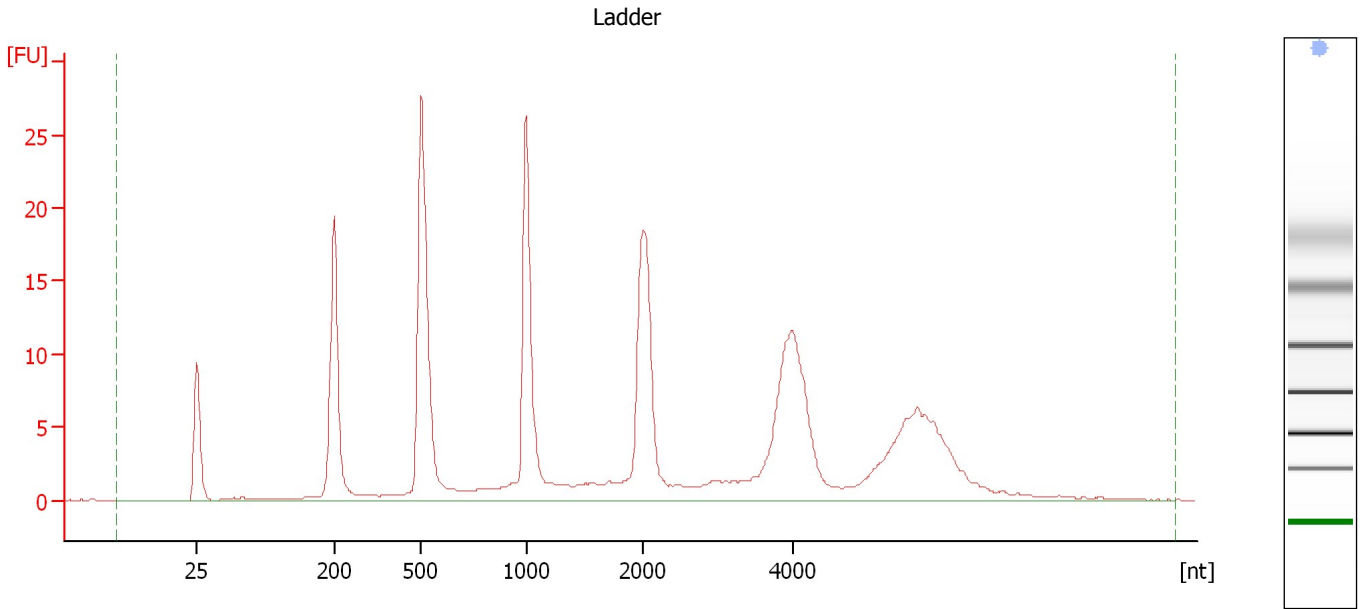
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary



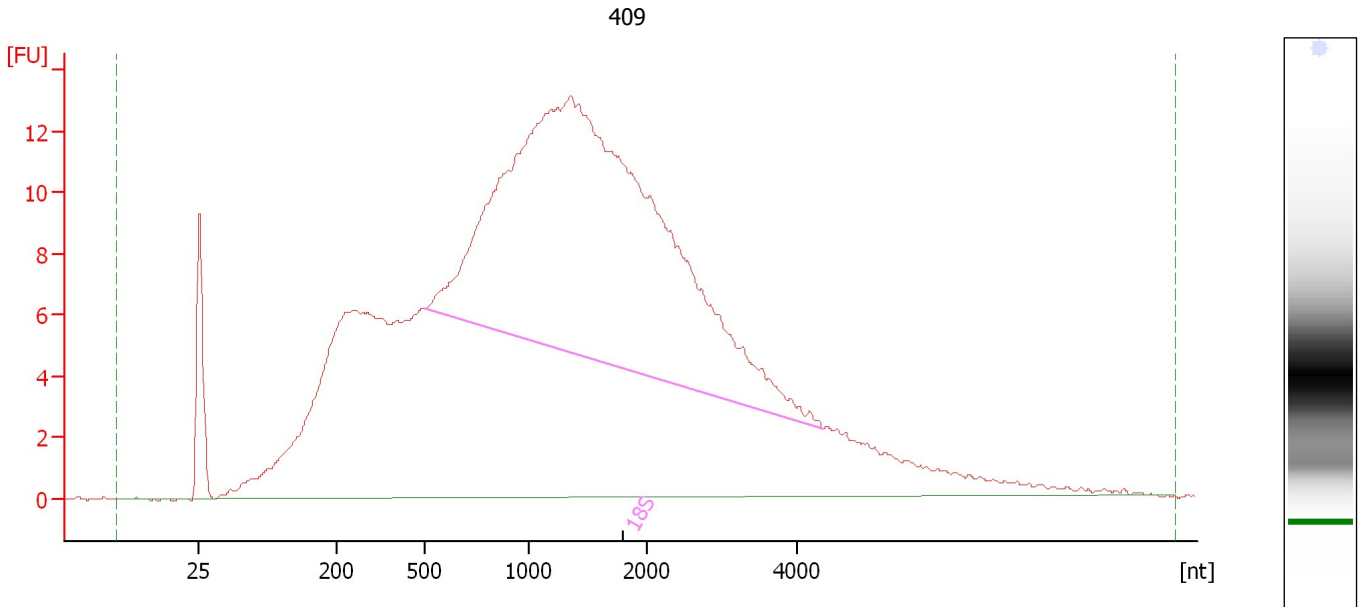
Overall Results for Ladder

RNA Area:	245.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 409

RNA Area:	502.9	RNA Integrity Number (RIN):	8.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	307 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 8.60

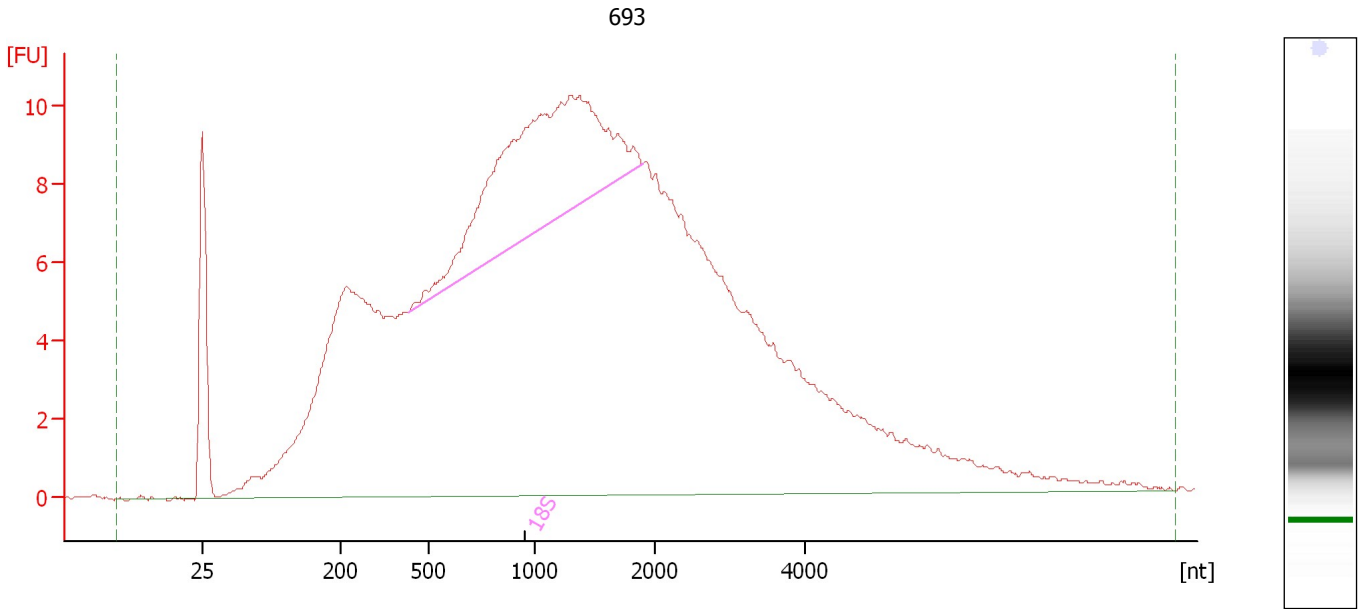
Fragment table for sample 1 : 409

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	500	4,352	179.3	35.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 693

RNA Area:	428.1	RNA Integrity Number (RIN):	4.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	261 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.10

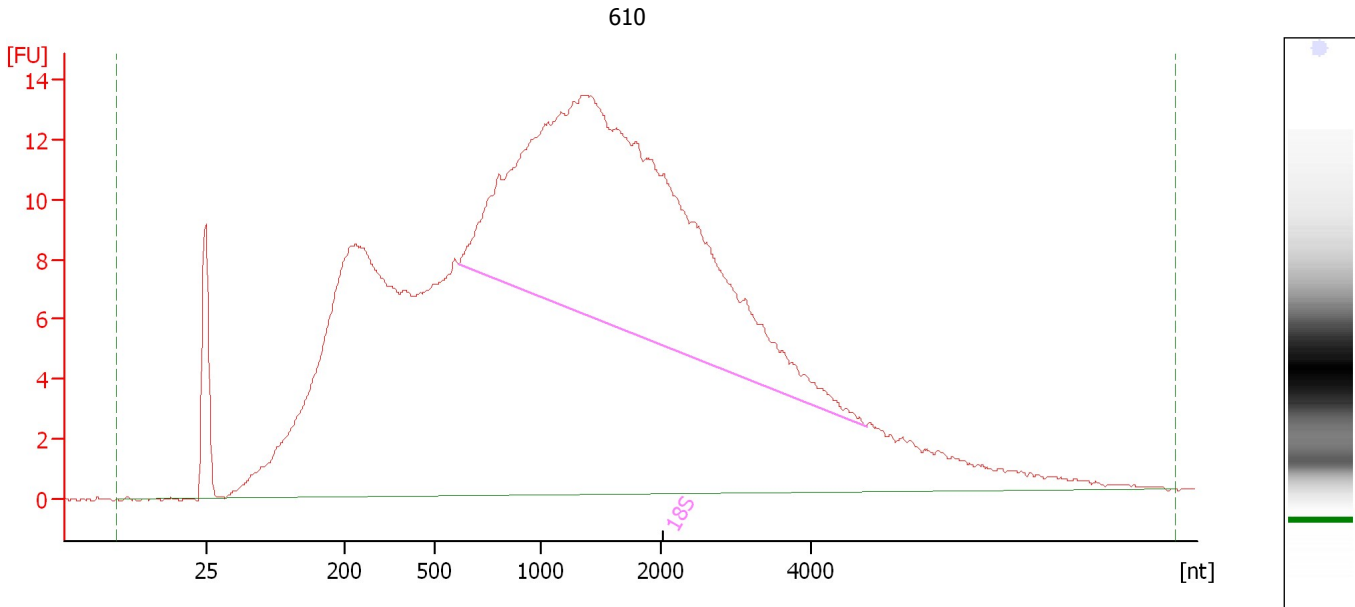
Fragment table for sample 2 : 693

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	430	1,914	46.5	10.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 610

RNA Area:	574.4	RNA Integrity Number (RIN):	8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	351 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:8

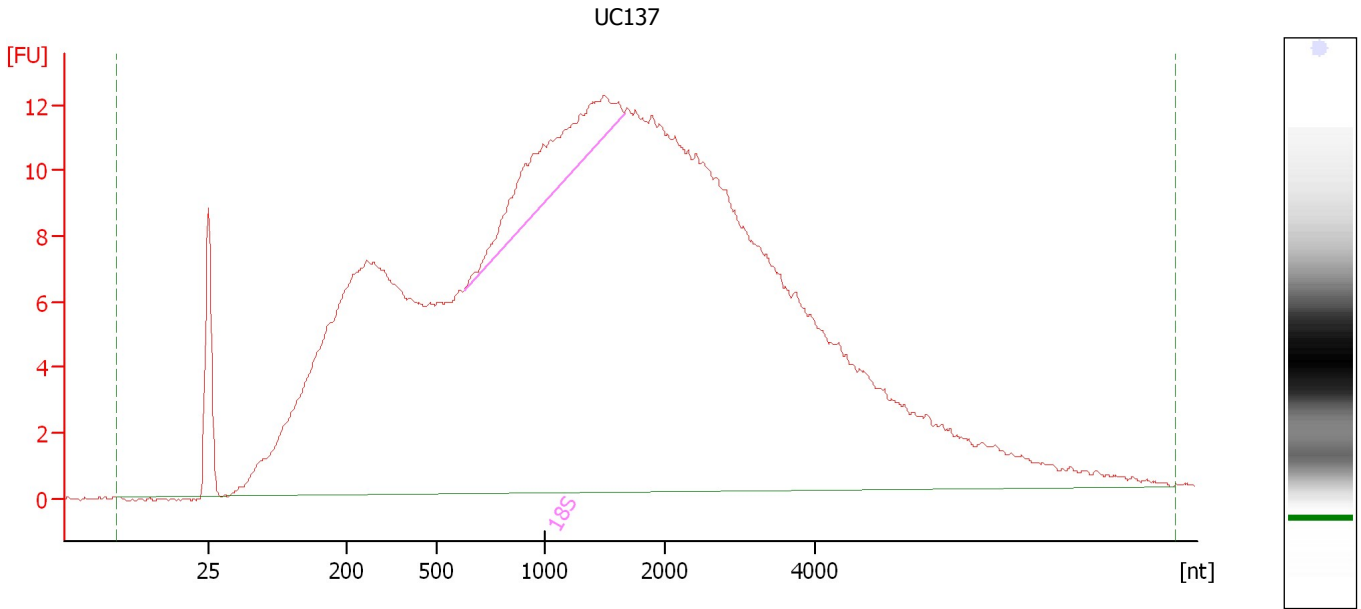
Fragment table for sample 3 : 610

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	617	4,727	162.9	28.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : UC137

RNA Area:	561.5	RNA Integrity Number (RIN):	2.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	343 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

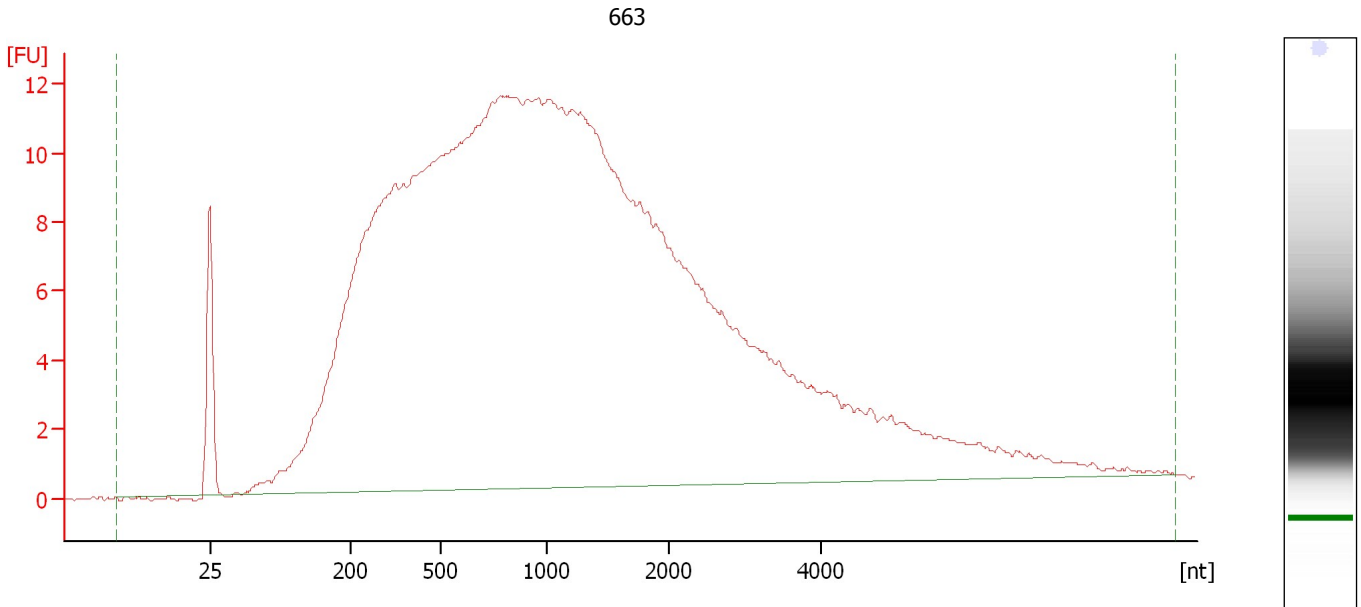
Fragment table for sample 4 : UC137

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	627	1,670	20.8	3.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 663

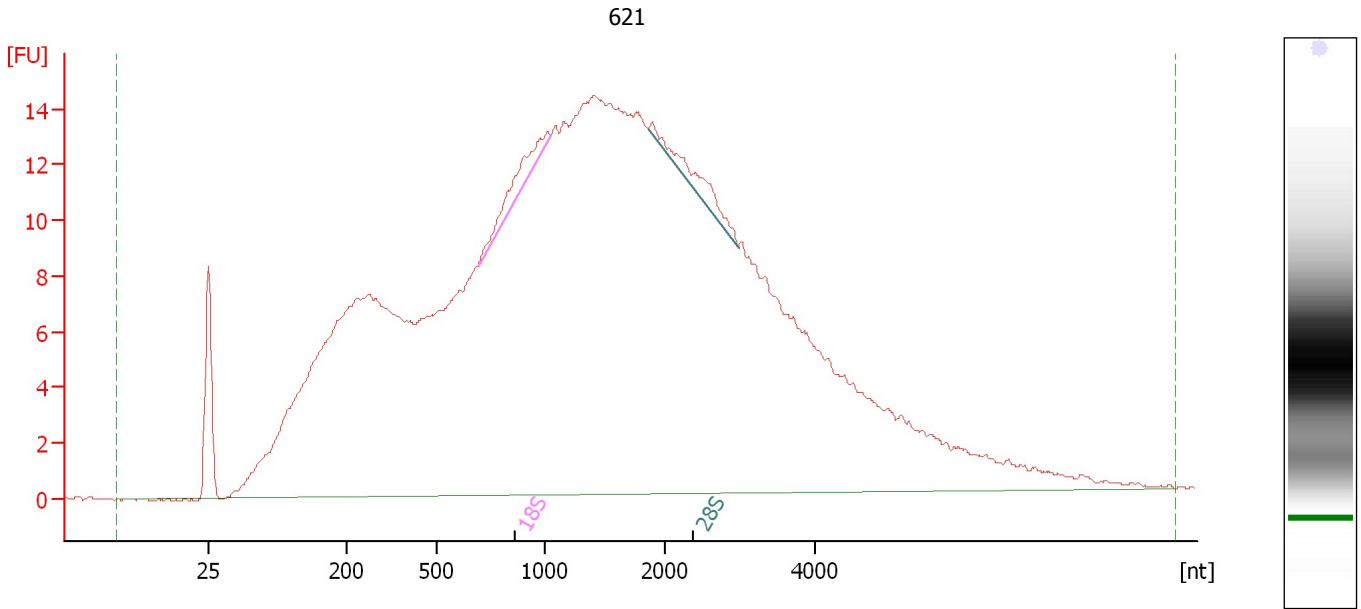
RNA Area: 504.8
RNA Concentration: 308 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2 (B.02.08, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN:2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 621

RNA Area:	636.1	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	388 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 2.60

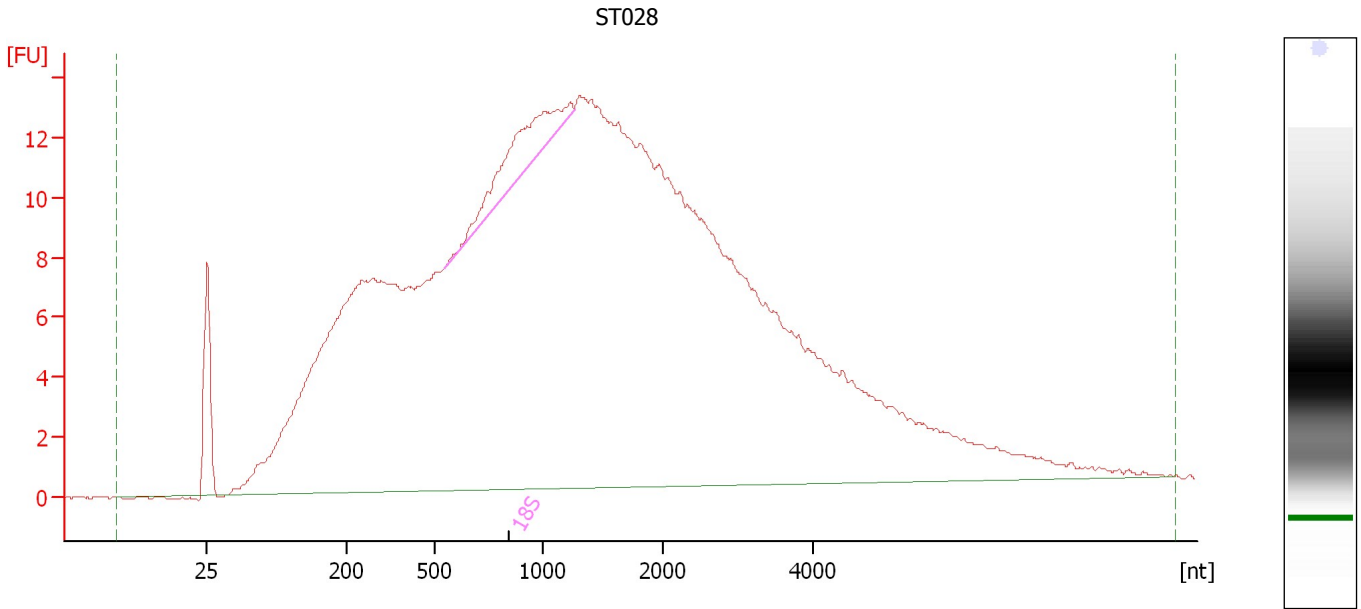
Fragment table for sample 6 : 621

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	692	1,056	4.4	0.7
28S	1,866	2,986	4.5	0.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ST028

RNA Area:	587.7	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	359 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

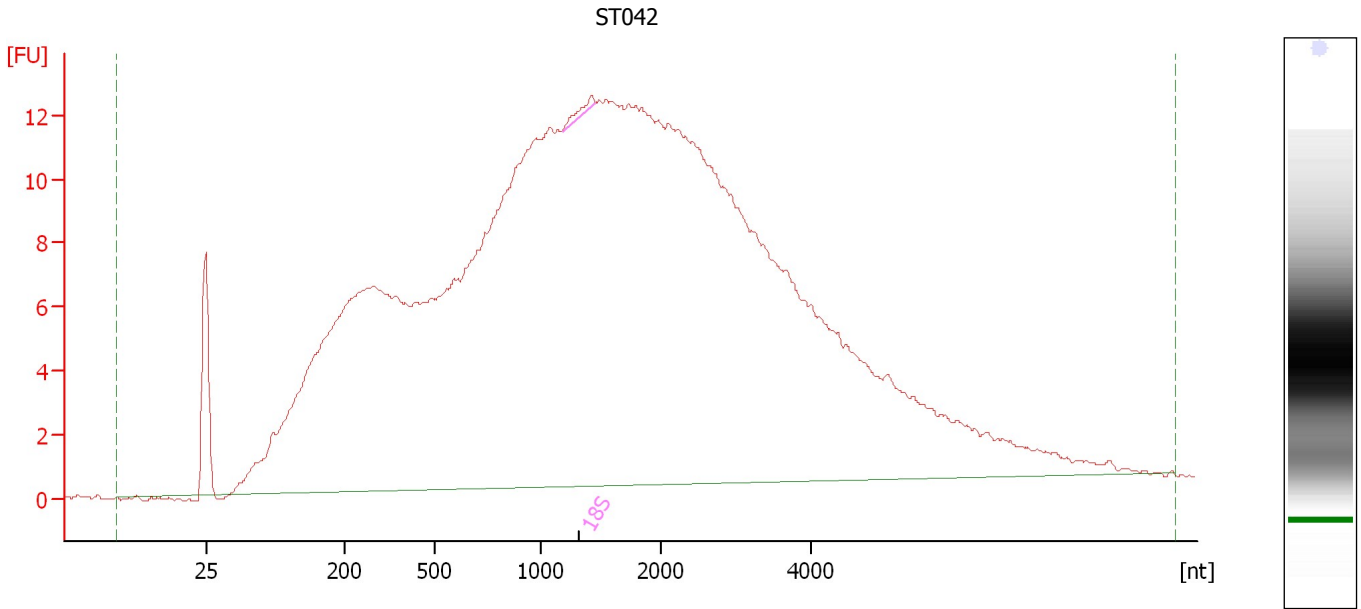
Fragment table for sample 7 : ST028

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	539	1,266	11.7	2.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST042

RNA Area:	575.5	RNA Integrity Number (RIN):	2.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	351 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

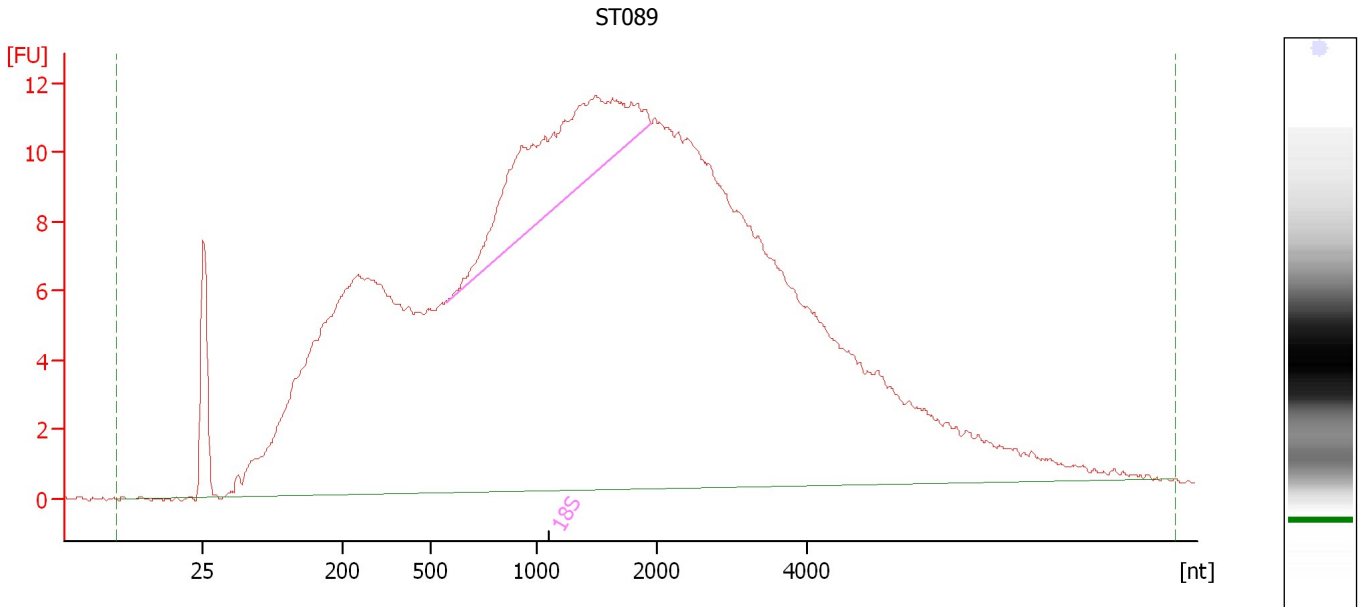
Fragment table for sample 8 : ST042

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,185	1,462	0.8	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : ST089

RNA Area:	540.4	RNA Integrity Number (RIN):	3.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	330 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.30

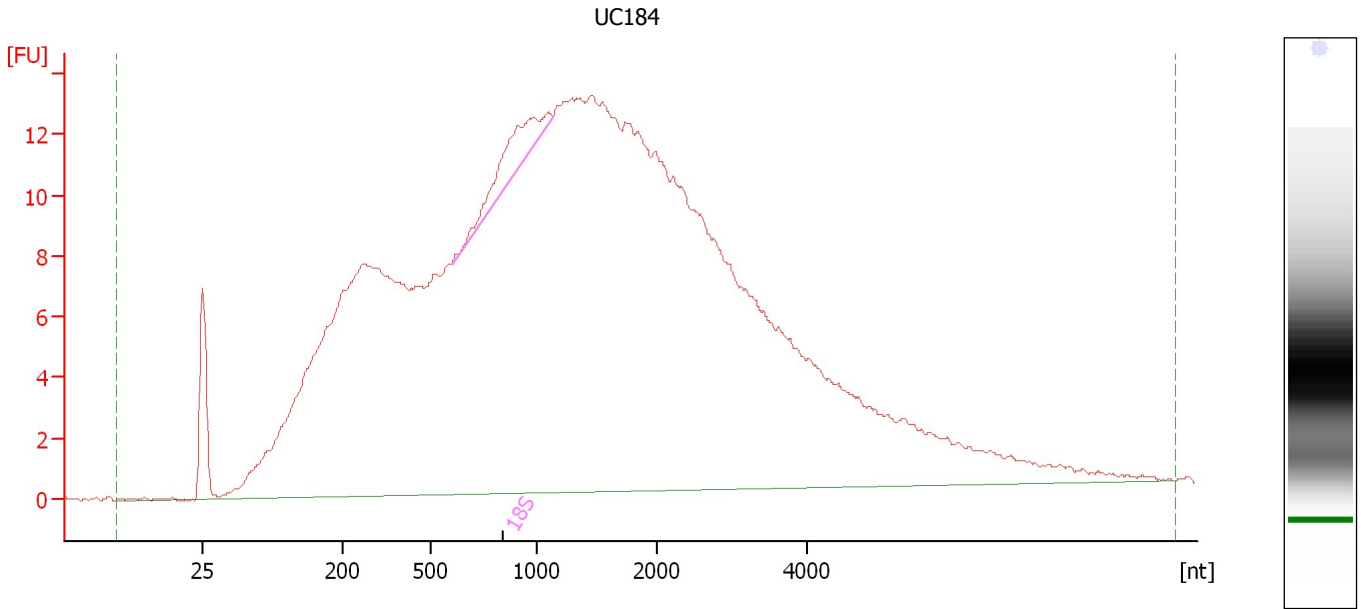
Fragment table for sample 9 : ST089

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	577	1,960	36.2	6.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : UC184

RNA Area:	591.1	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	361 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

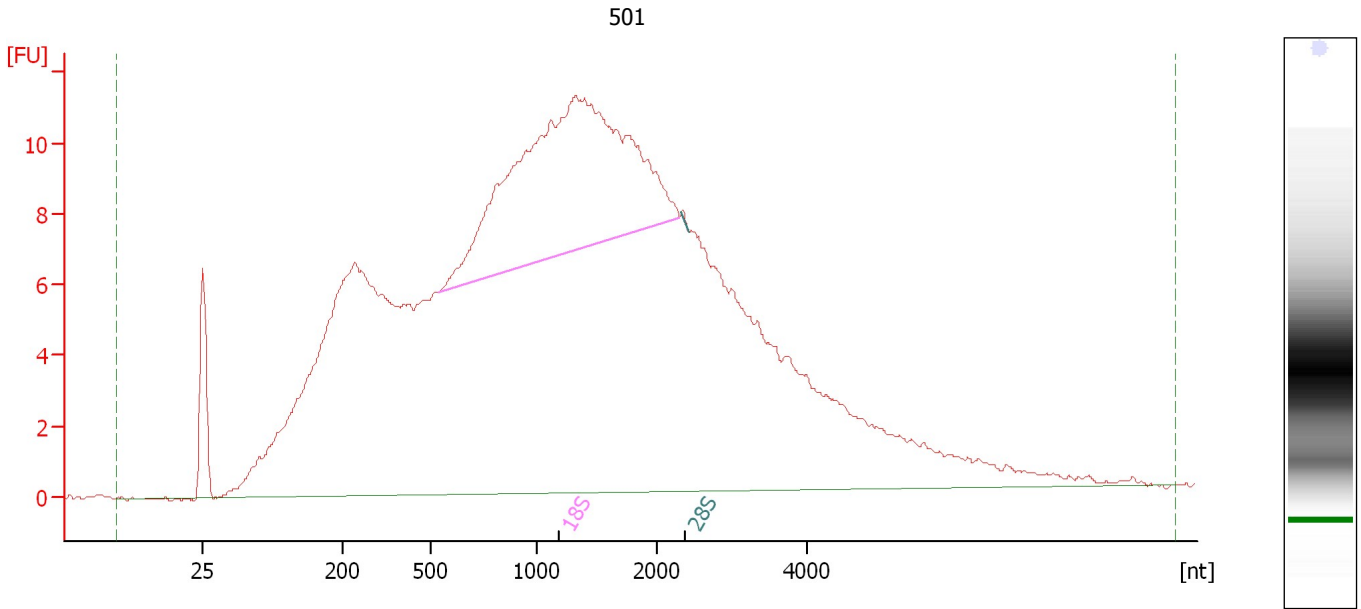
Fragment table for sample 10 : UC184

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	602	1,125	7.5	1.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
 Modified: 5/16/2016 1:47:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 501

RNA Area:	474.2	RNA Integrity Number (RIN):	5.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	289 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.30

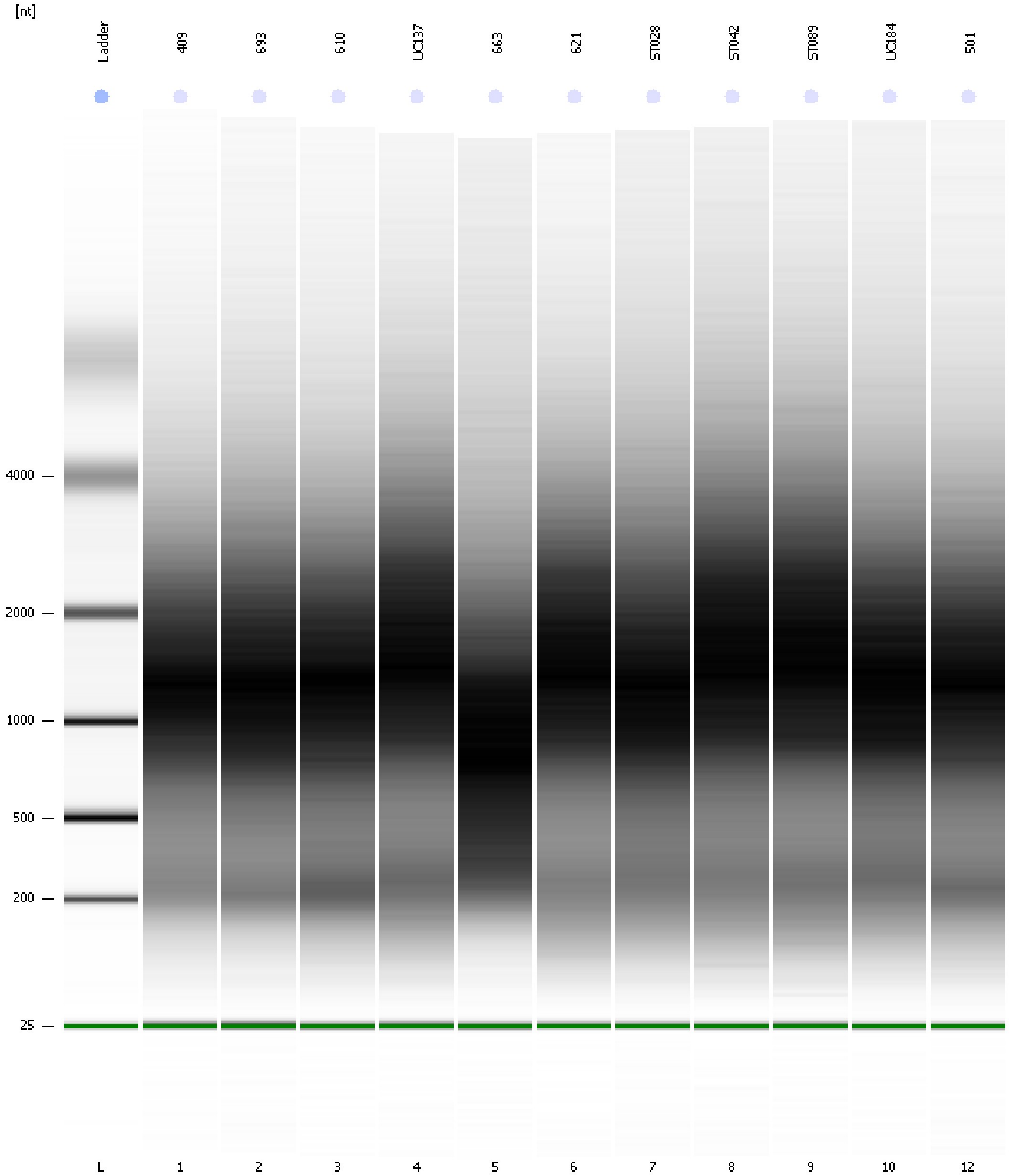
Fragment table for sample 12 : 501

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	541	2,306	67.9	14.3
28S	2,335	2,434	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad

Created: 5/16/2016 1:07:32 PM
Modified: 5/16/2016 1:47:47 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 5/16/2016 1:07:32 PM
 Data Path: C:\...zer\2100 expert\data\2016-05-16\2016-05-16_003_modified.xad Modified: 5/16/2016 1:47:47 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 1:30:33 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_003.xad)		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/16/2016 1:07:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1