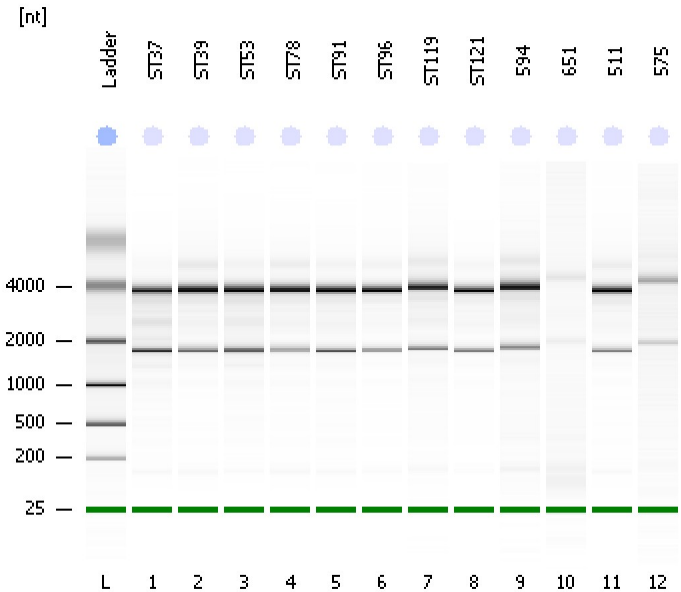


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electrophoresis File Run Summary



Instrument Information:

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

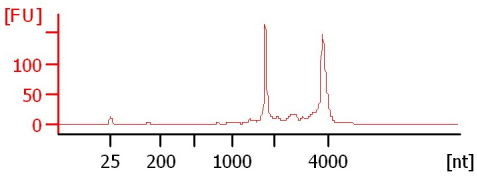
Assay Information:

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.

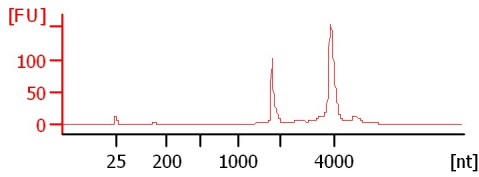
Chip Information:

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

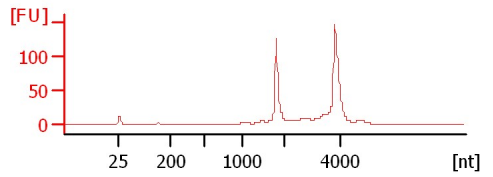
ST37
RIN: 9.10



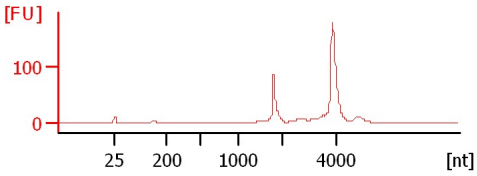
ST39
RIN: 10



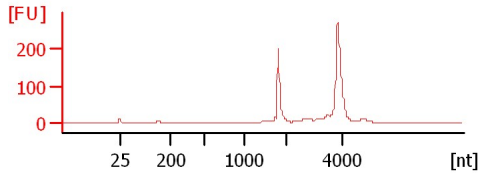
ST53
RIN: 9.30



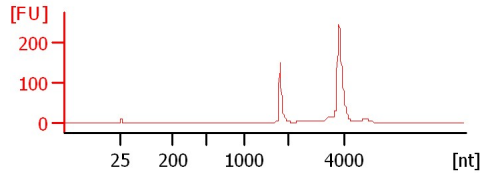
ST78
RIN: 9.50



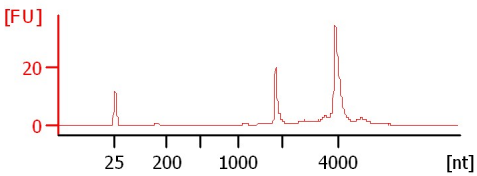
ST91
RIN: 9.50



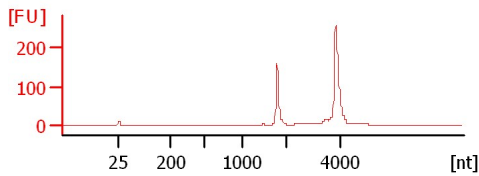
ST96
RIN: 10



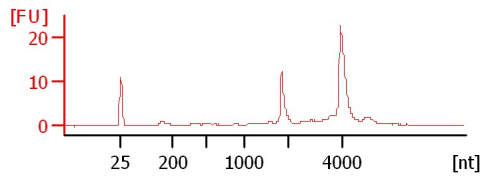
ST119
RIN: 9.40



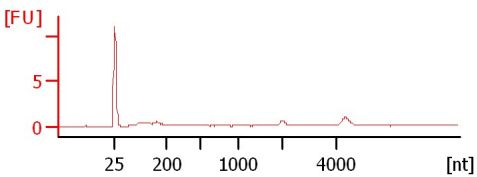
ST121
RIN: 10



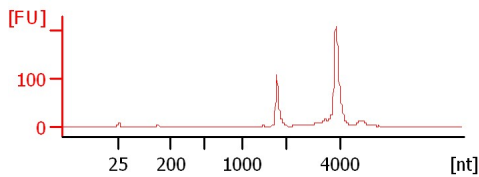
594
RIN: 9.30



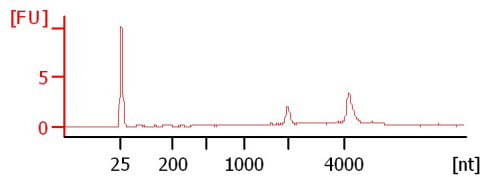
651
RIN: 1



511
RIN: 9.70



575
RIN: 8.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
 Modified: 12/2/2015 10:47:17 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST37		✓	RIN: 9.10	
ST39		✓	RIN:10	
ST53		✓	RIN: 9.30	
ST78		✓	RIN: 9.50	
ST91		✓	RIN: 9.50	
ST96		✓	RIN:10	
ST119		✓	RIN: 9.40	
ST121		✓	RIN:10	
594		✓	RIN: 9.30	
651		✓	RIN:1	
511		✓	RIN: 9.70	
575		✓	RIN: 8.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 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/ 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

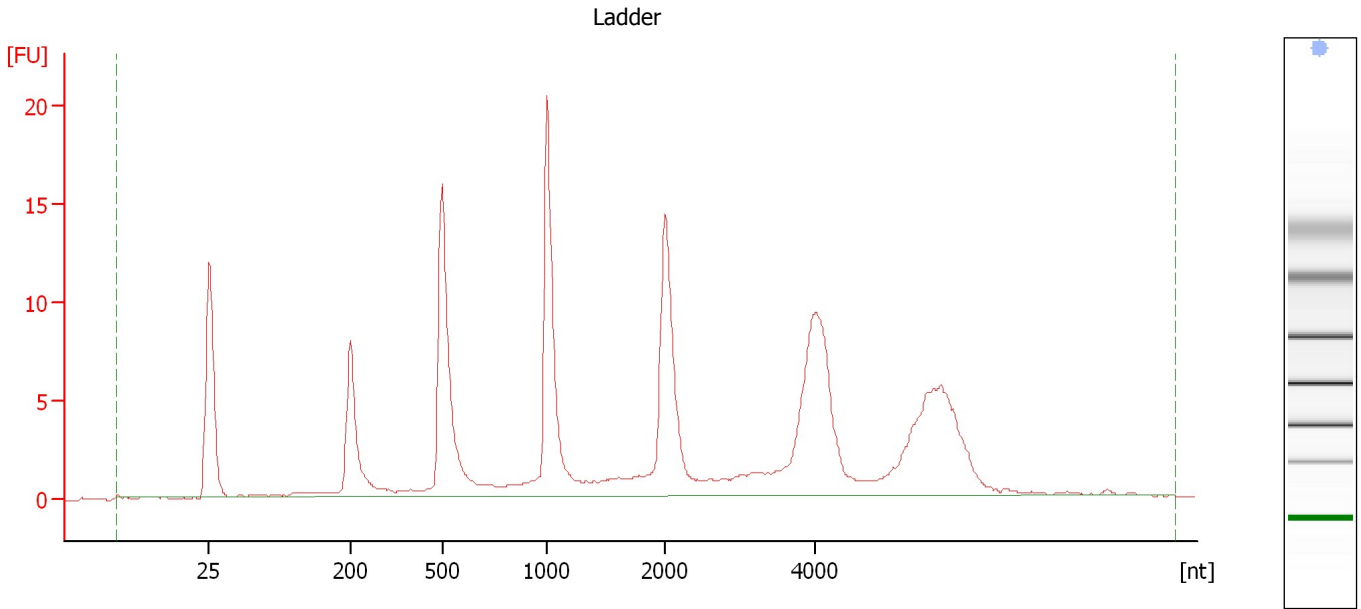
Ladder

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\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary



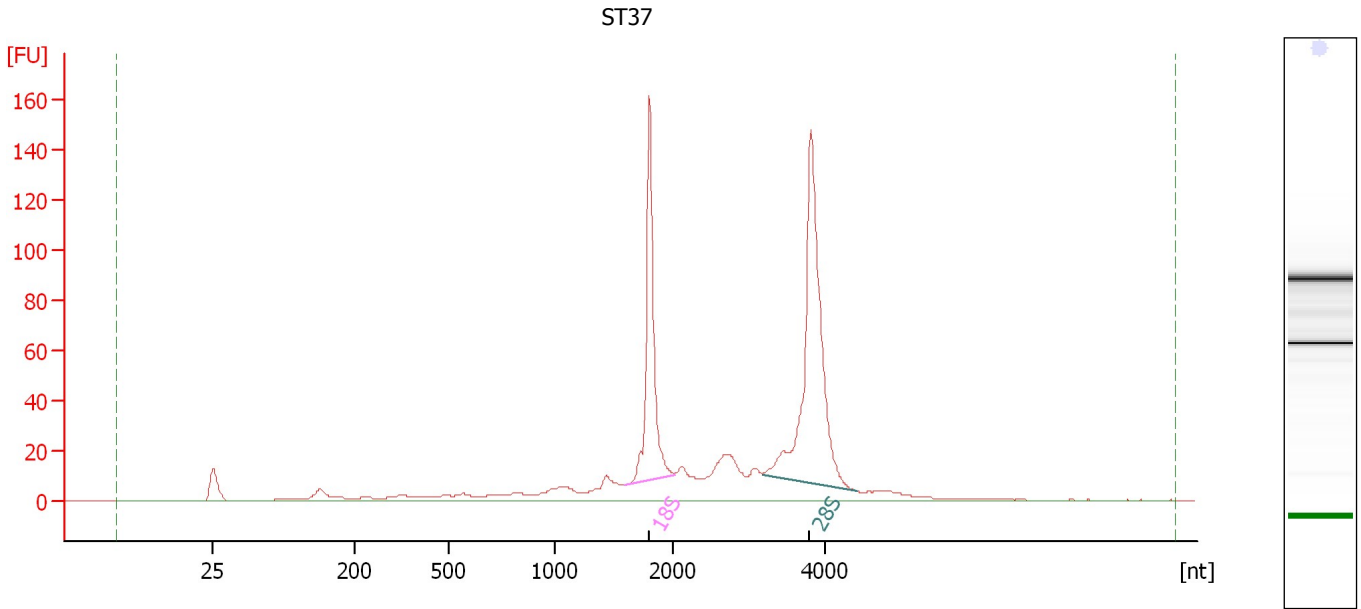
Overall Results for Ladder

RNA Area:	171.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST37

RNA Area:	721.5	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	632 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

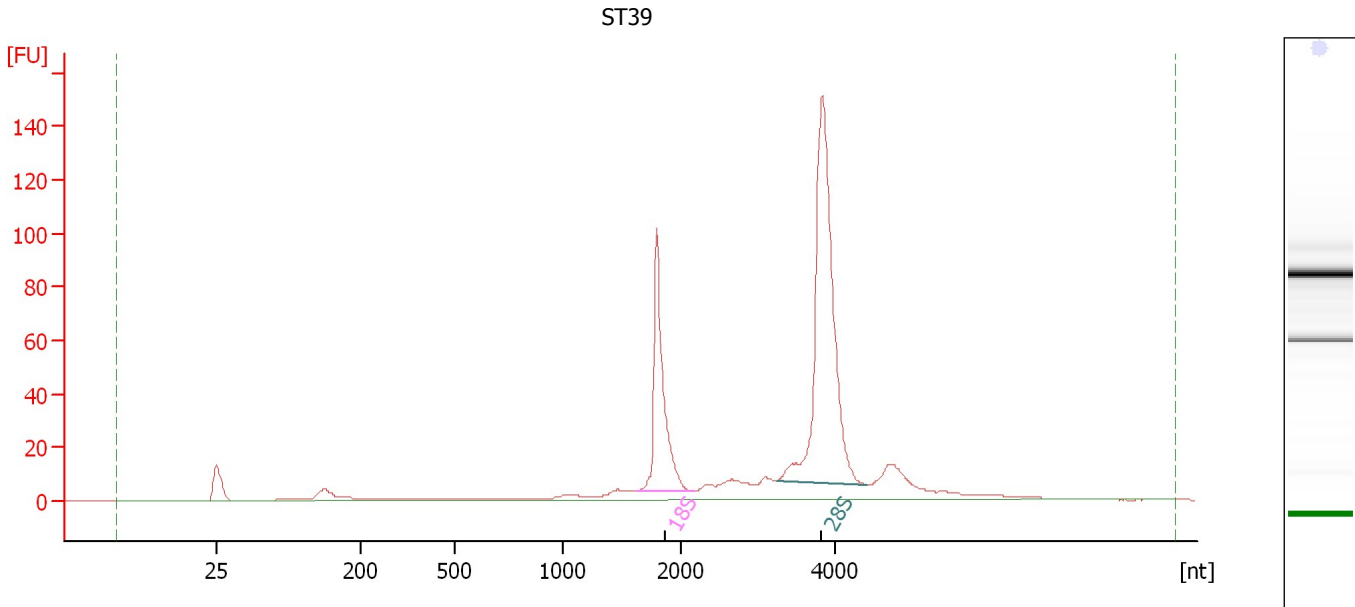
Fragment table for sample 1 : ST37

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	2,019	136.0	18.9
28S	3,173	4,425	237.0	32.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
 Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ST39

RNA Area:	607.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	532 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

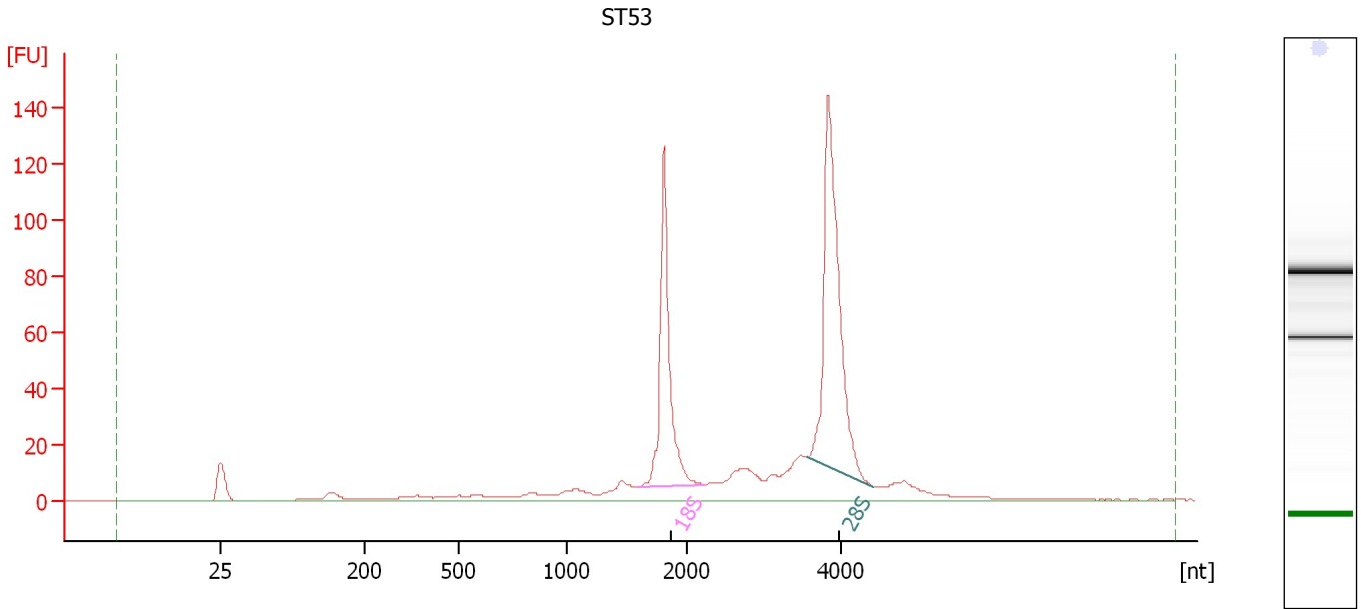
Fragment table for sample 2 : ST39

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,164	107.1	17.6
28S	3,239	4,424	257.9	42.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ST53

RNA Area:	633.9	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	555 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.30

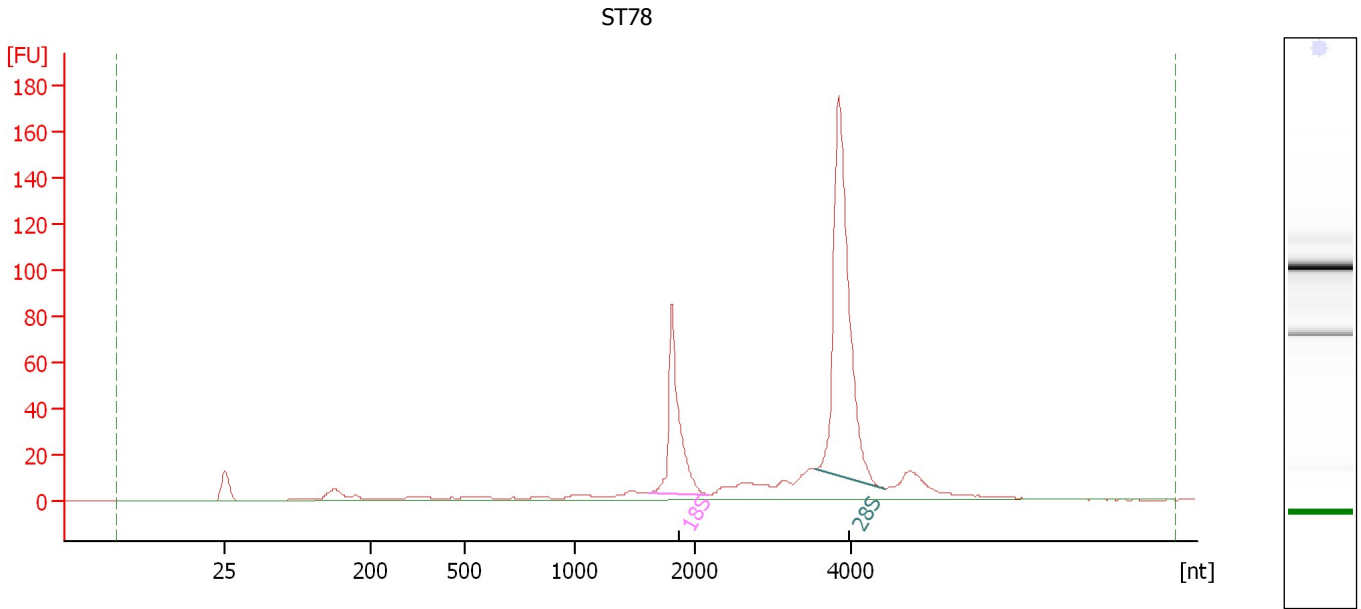
Fragment table for sample 3 : ST53

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	2,223	129.0	20.3
28S	3,554	4,400	203.3	32.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST78

RNA Area: 627.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 549 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 9.50

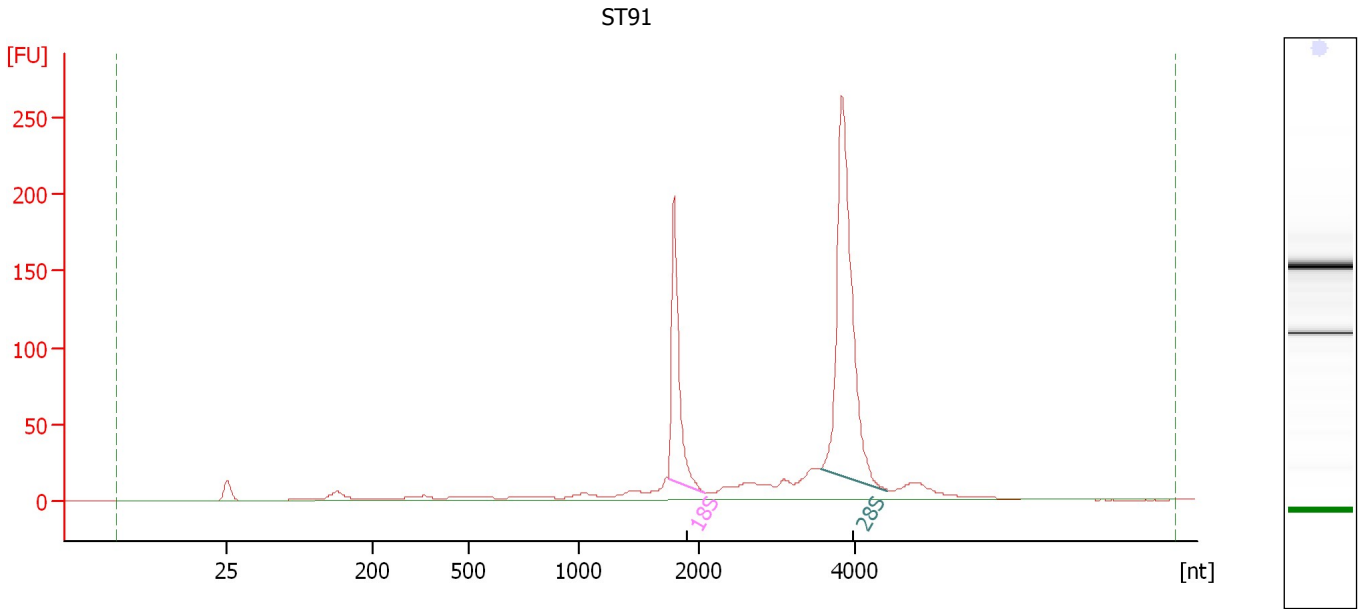
Fragment table for sample 4 : ST78

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,172	97.9	15.6
28S	3,547	4,427	250.7	40.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ST91

RNA Area:	939.5	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	823 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.50

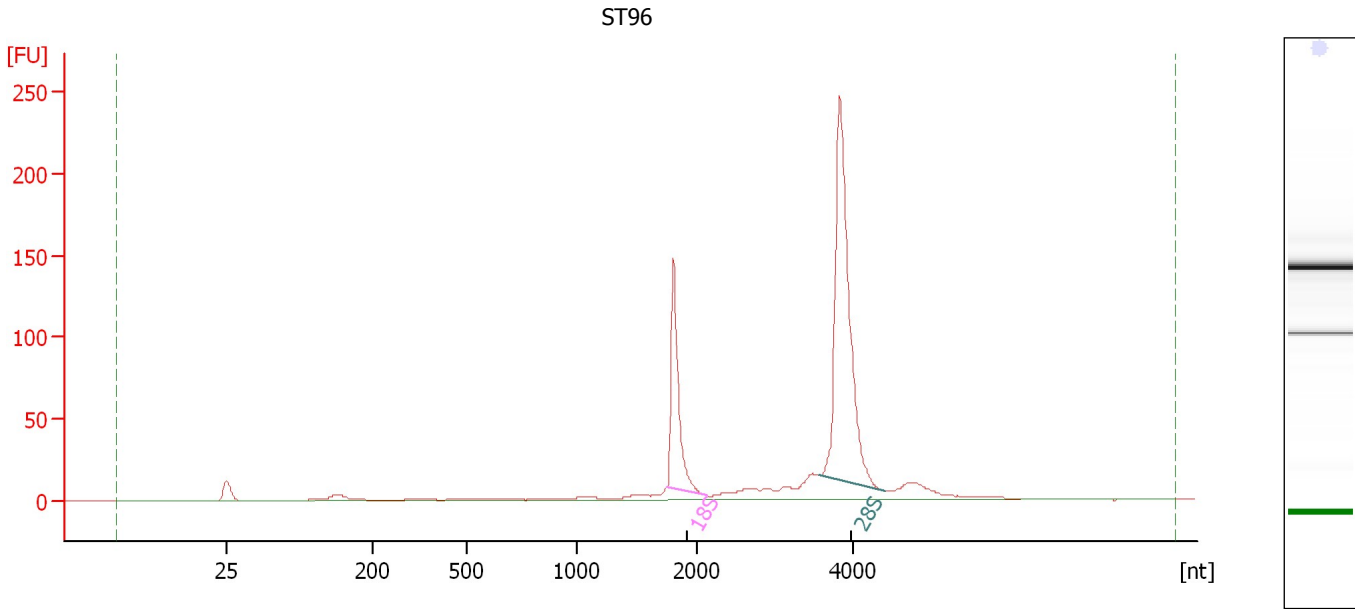
Fragment table for sample 5 : ST91

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,078	152.5	16.2
28S	3,544	4,406	371.3	39.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ST96

RNA Area:	699.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	613 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN:10

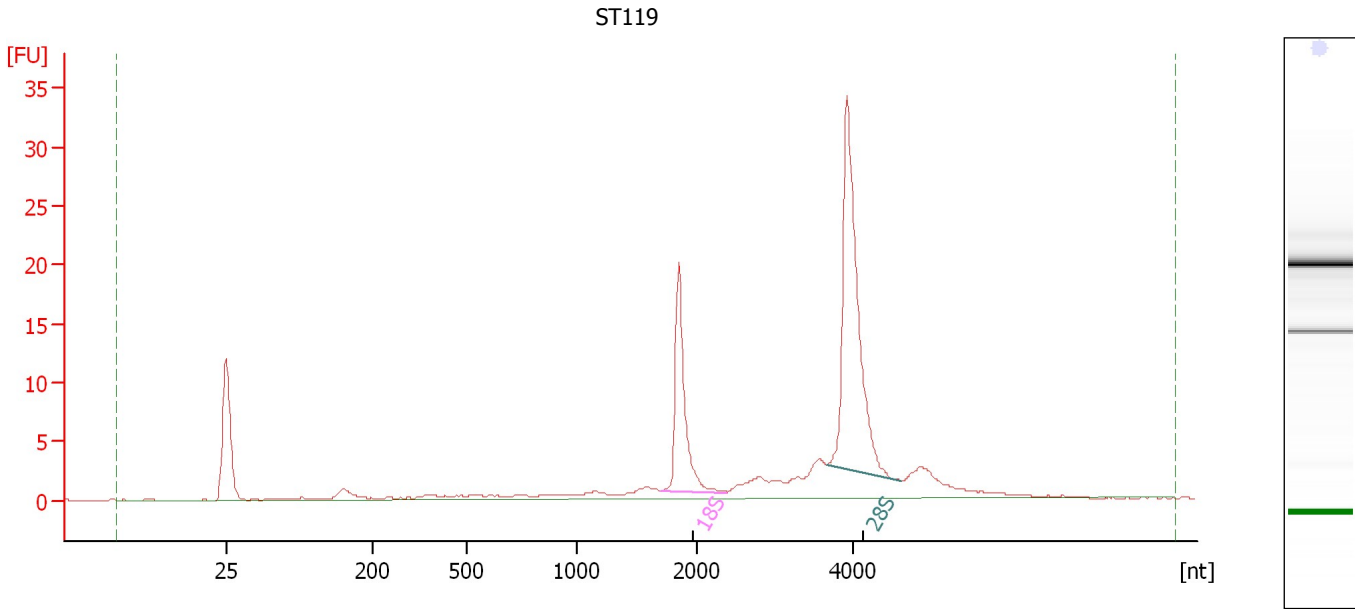
Fragment table for sample 6 : ST96

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,750	2,132	118.5	16.9
28S	3,559	4,410	326.3	46.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ST119

RNA Area:	128.6	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.40

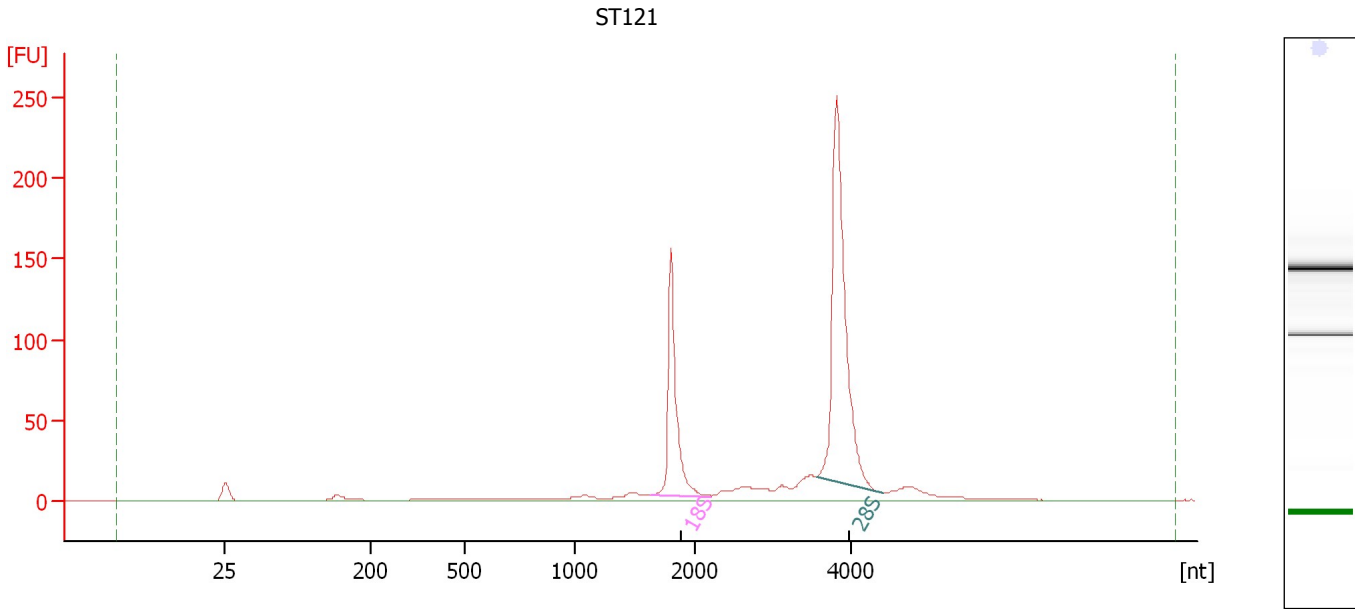
Fragment table for sample 7 : ST119

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,379	20.2	15.7
28S	3,655	4,616	46.1	35.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST121

RNA Area:	702.7	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	615 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

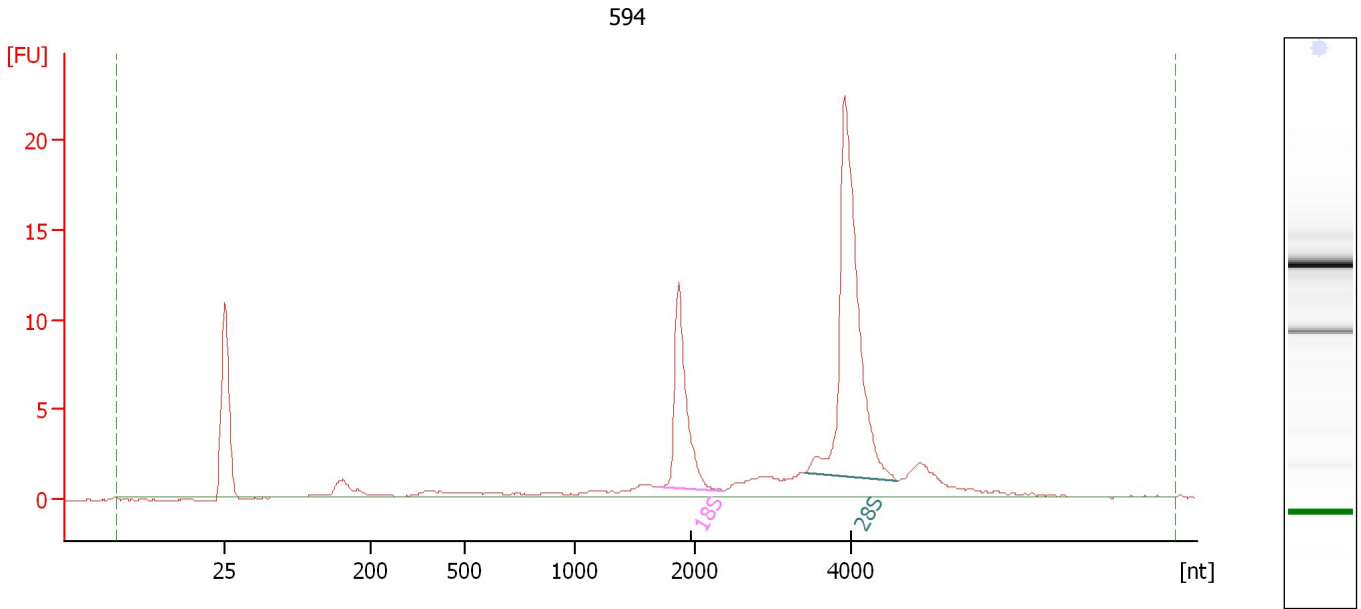
Fragment table for sample 8 : ST121

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	2,199	142.3	20.3
28S	3,561	4,413	302.0	43.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
 Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 594

RNA Area:	95.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	84 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.30

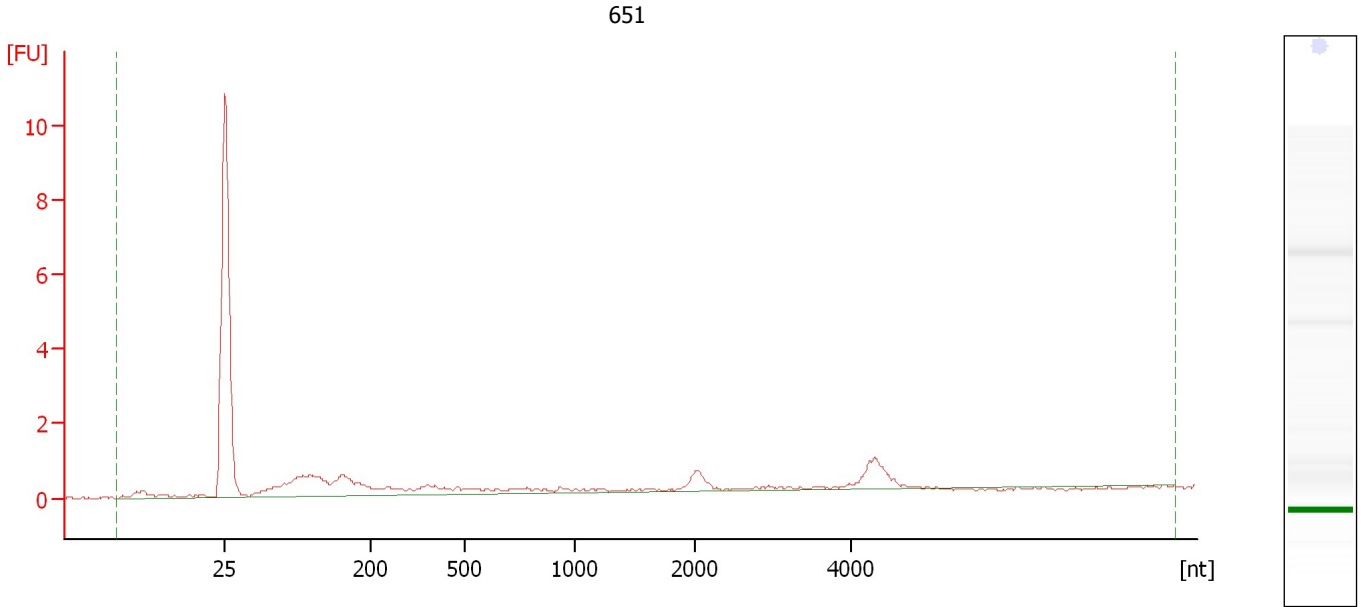
Fragment table for sample 9 : 594

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,365	15.2	15.9
28S	3,396	4,592	38.5	40.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



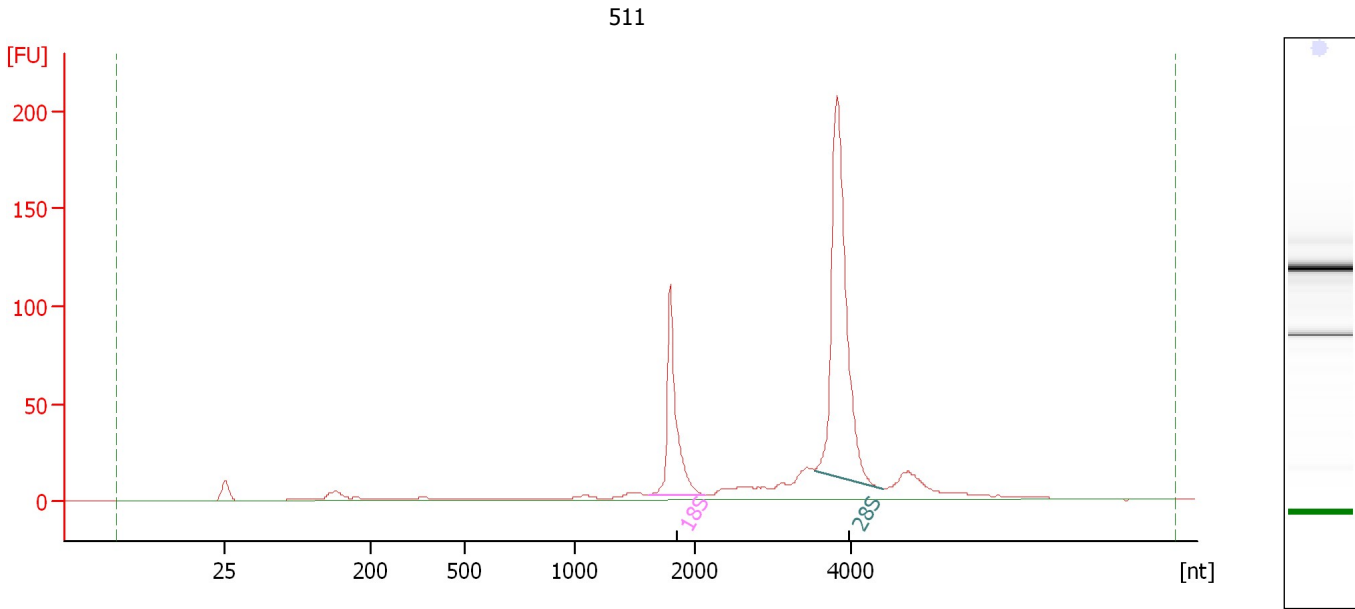
Overall Results for sample 10 : 651

RNA Area:	17.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 511

RNA Area:	677.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	593 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.70

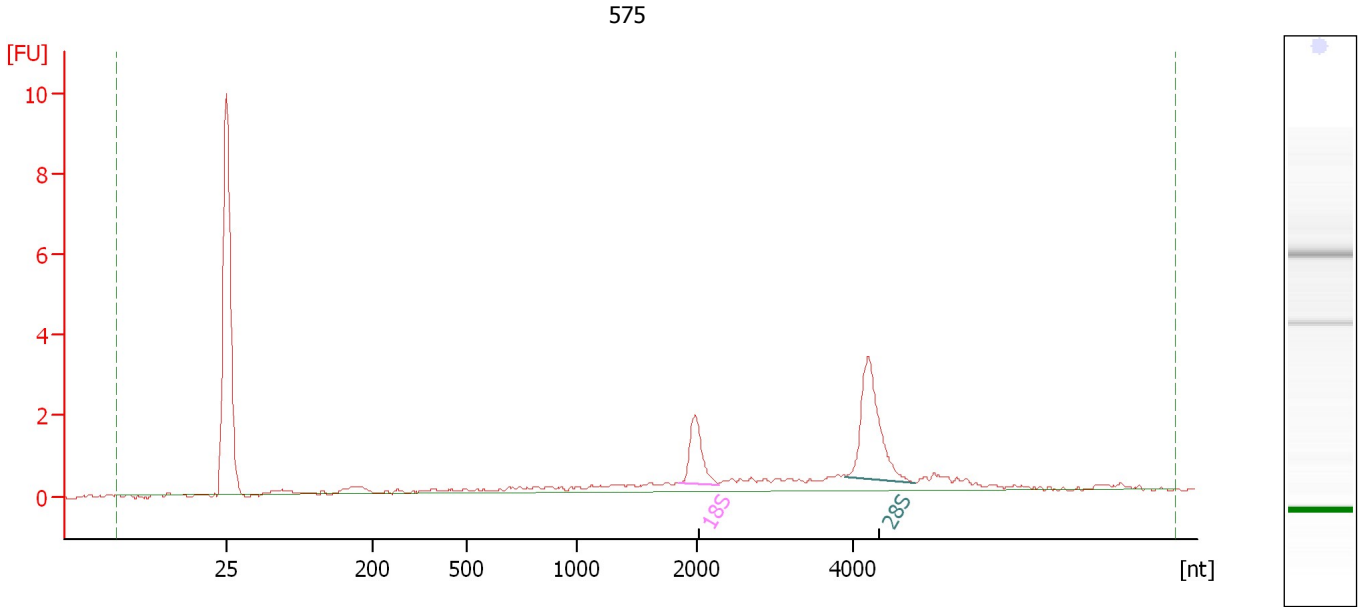
Fragment table for sample 11 : 511

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,131	110.6	16.3
28S	3,533	4,400	279.8	41.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 575

RNA Area:	22.5	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 8.10

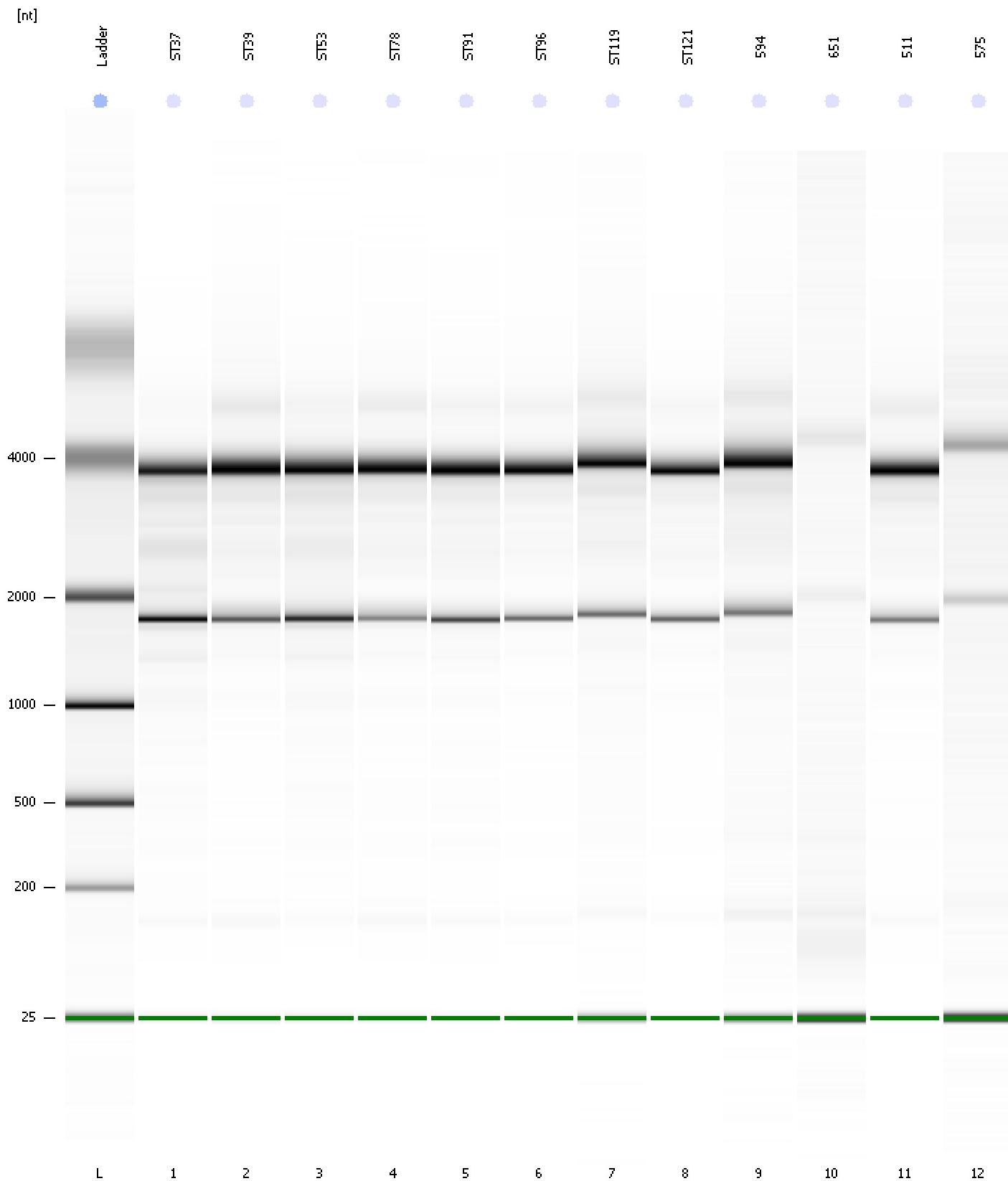
Fragment table for sample 12 : 575

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,838	2,269	2.3	10.4
28S	3,902	4,780	5.3	23.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
Modified: 12/2/2015 10:47:17 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad

Created: 12/2/2015 9:54:52 AM
 Modified: 12/2/2015 10:47:17 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		12/2/2015 10:17:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_002.xad)		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 9:54:58 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1