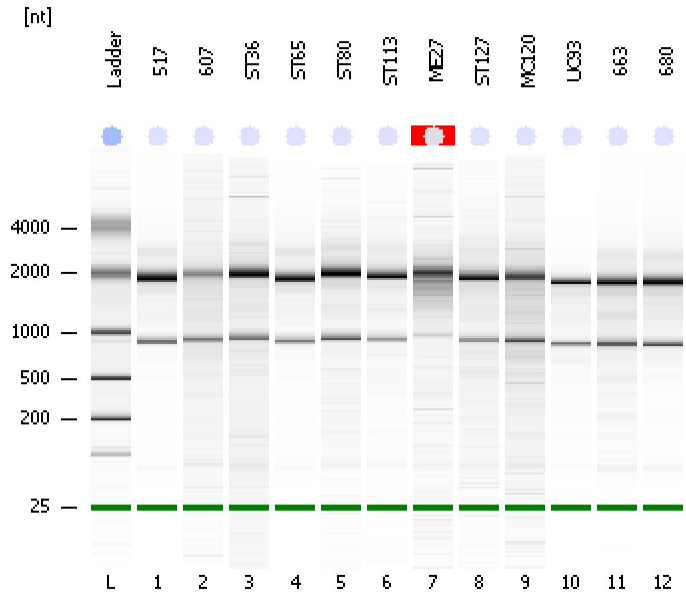


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electrophoresis File Run Summary



Instrument Information:

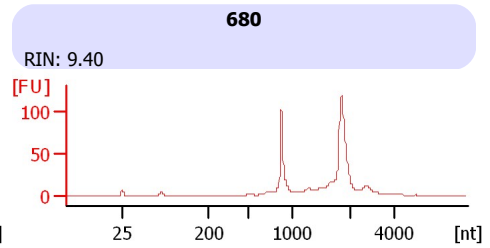
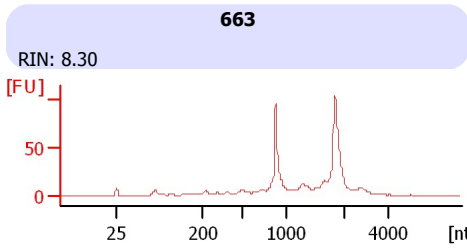
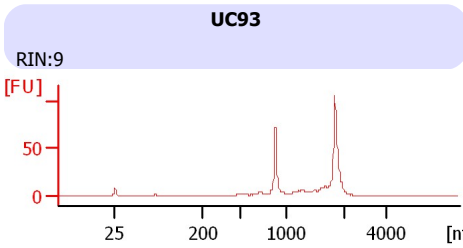
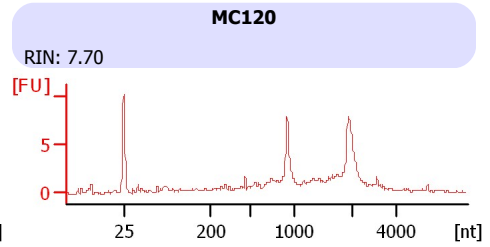
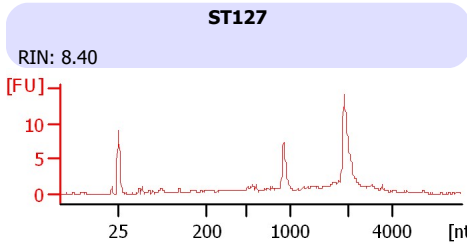
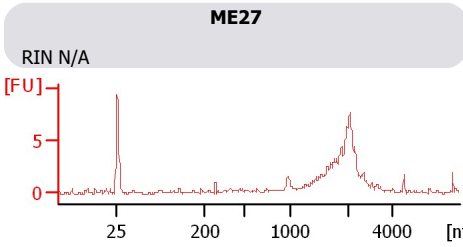
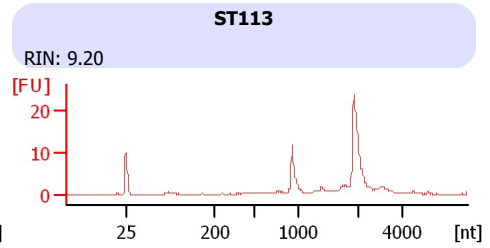
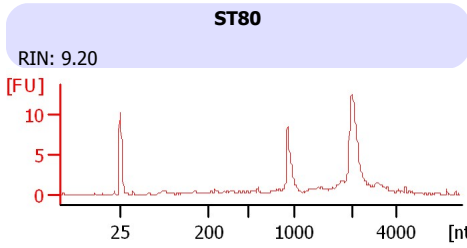
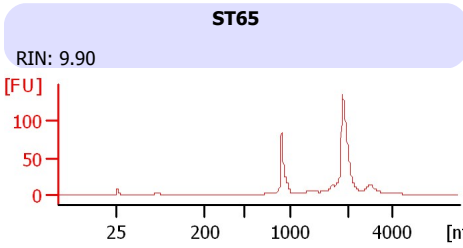
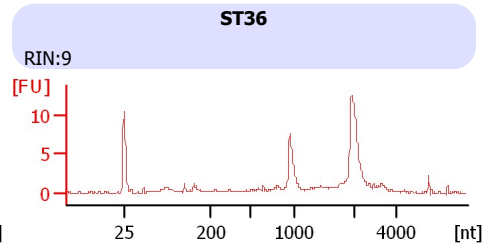
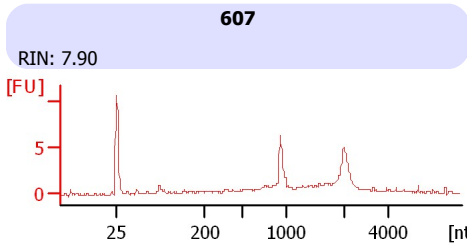
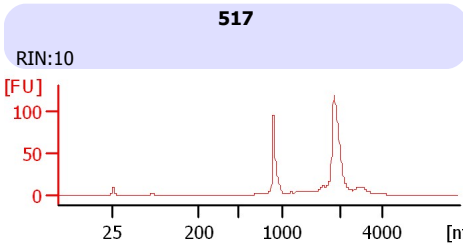
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
517		✓	RIN:10	
607		✓	RIN: 7.90	
ST36		✓	RIN:9	
ST65		✓	RIN: 9.90	
ST80		✓	RIN: 9.20	
ST113		✓	RIN: 9.20	
ME27		✓	RIN N/A	
ST127		✓	RIN: 8.40	
MC120		✓	RIN: 7.70	
UC93		✓	RIN:9	
663		✓	RIN: 8.30	
680		✓	RIN: 9.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 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

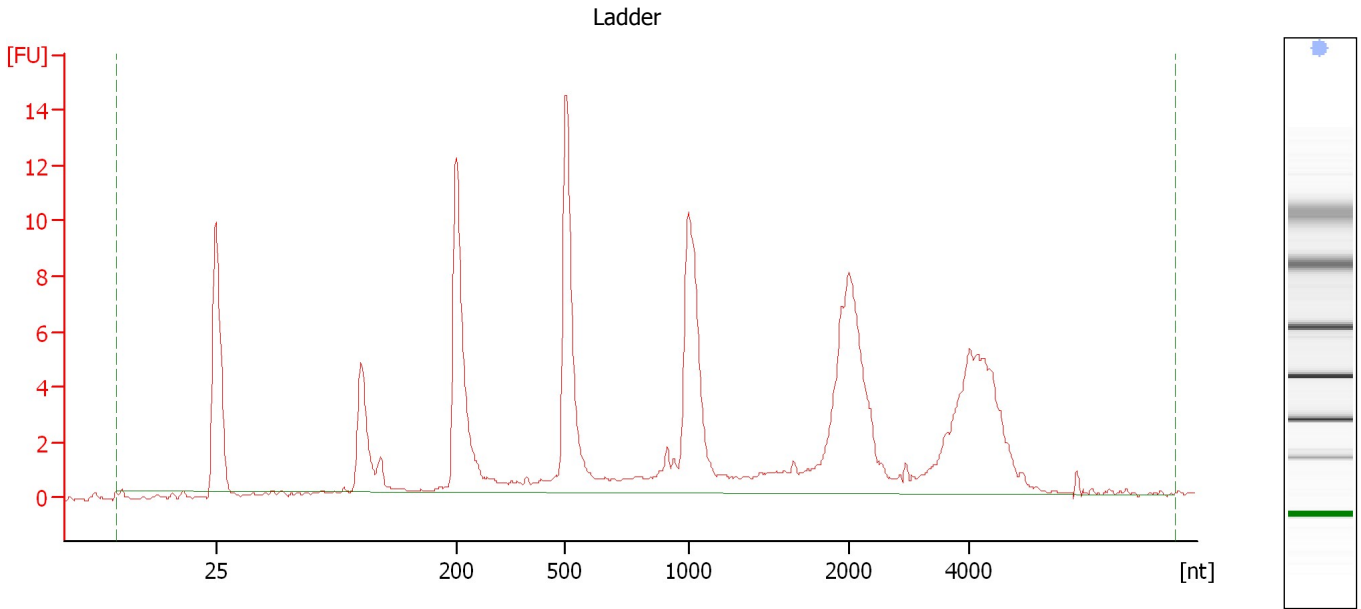
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary



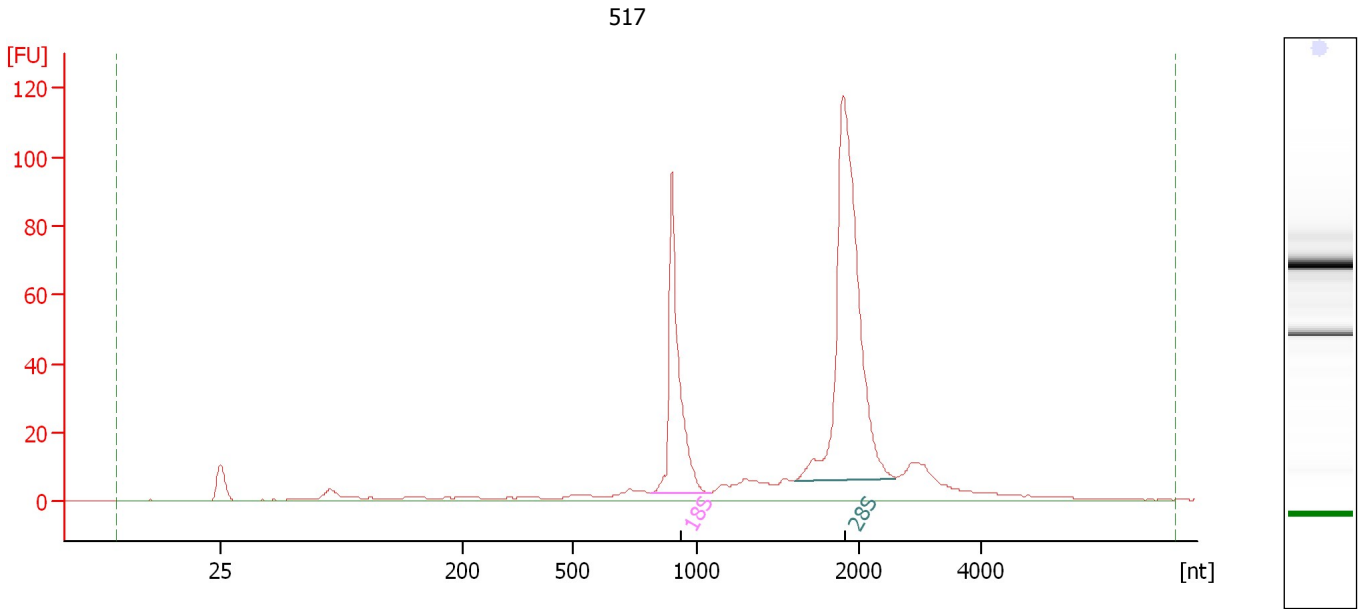
Overall Results for Ladder

RNA Area:	127.0	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\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 517

RNA Area: 562.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 664 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN:10

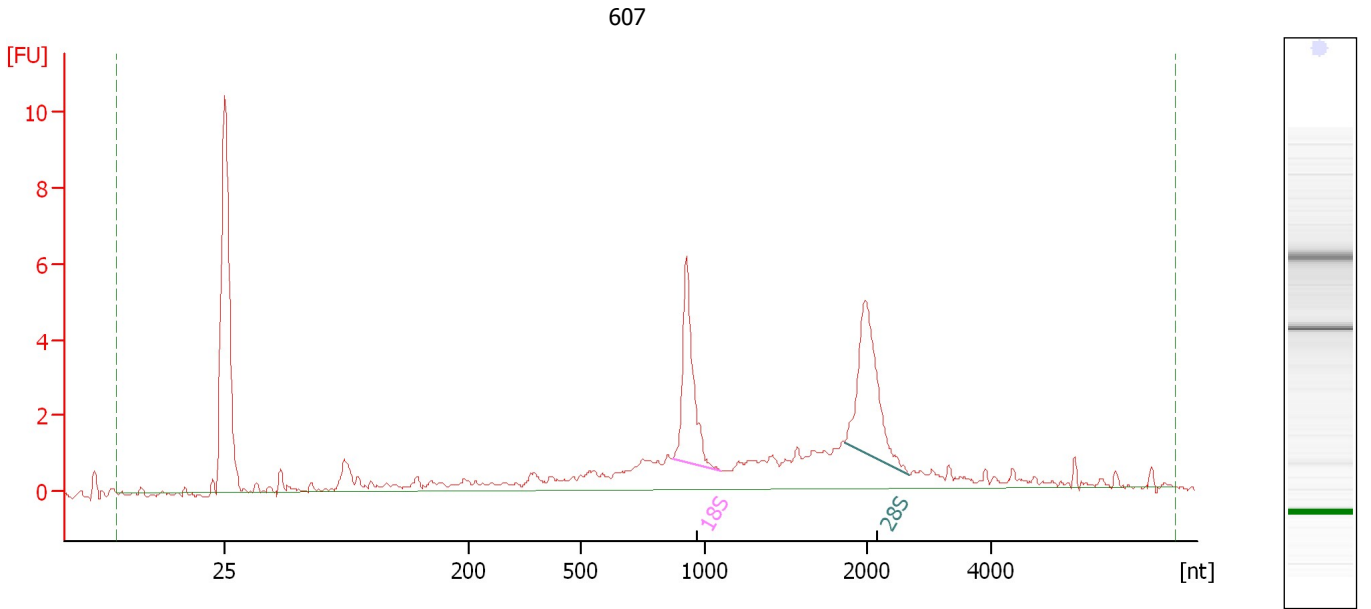
Fragment table for sample 1 : 517

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	811	1,081	105.6	18.8
28S	1,603	2,616	242.1	43.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 607

RNA Area: 49.7 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 59 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.90

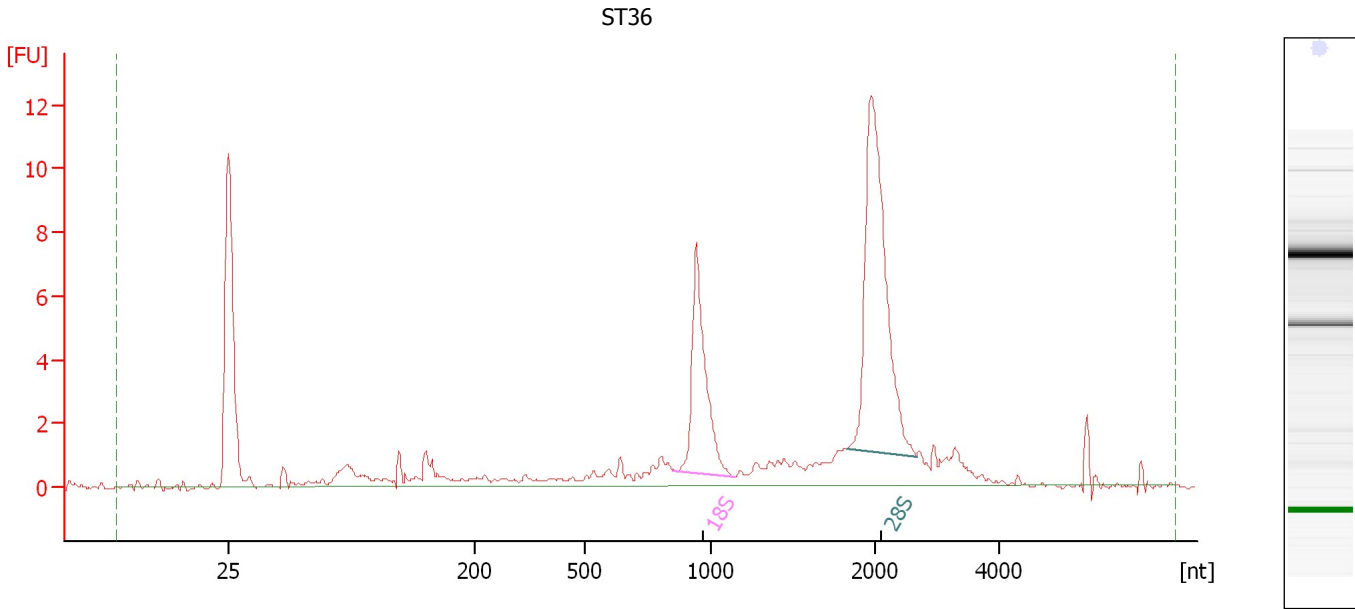
Fragment table for sample 2 : 607

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	870	1,096	6.6	13.3
28S	1,856	2,664	7.5	15.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ST36

RNA Area: 70.7 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 83 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:9

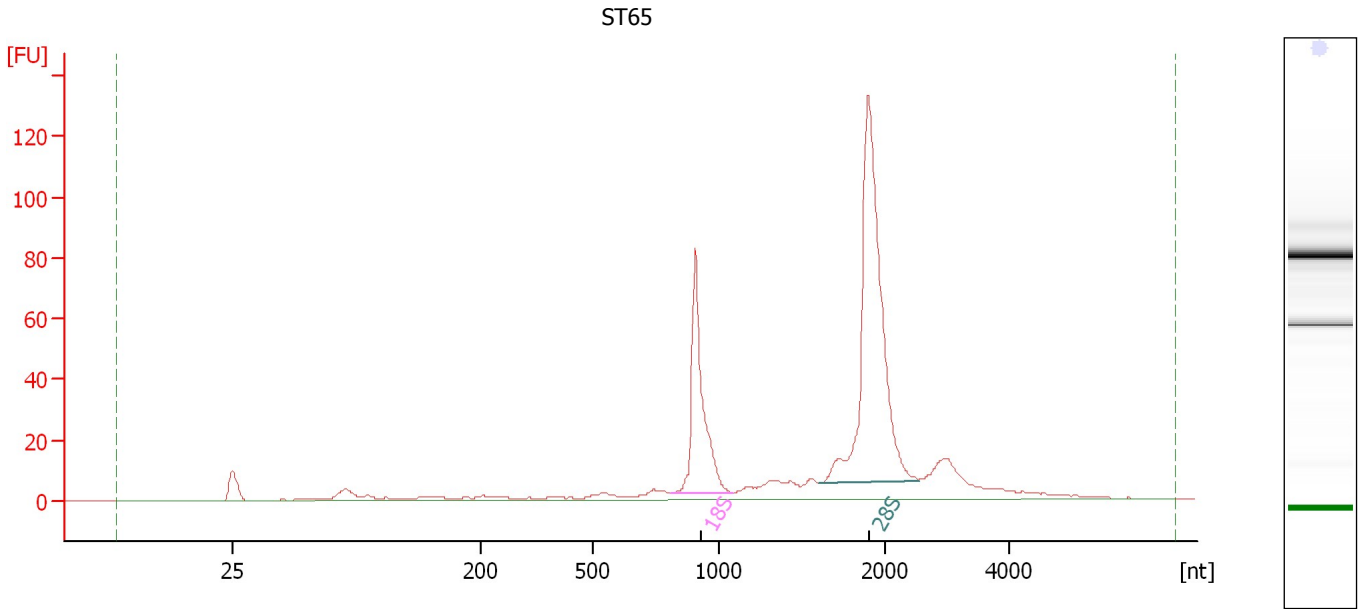
Fragment table for sample 3 : ST36

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	846	1,149	10.8	15.3
28S	1,827	2,666	22.3	31.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST65

RNA Area: 562.6 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 665 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 9.90

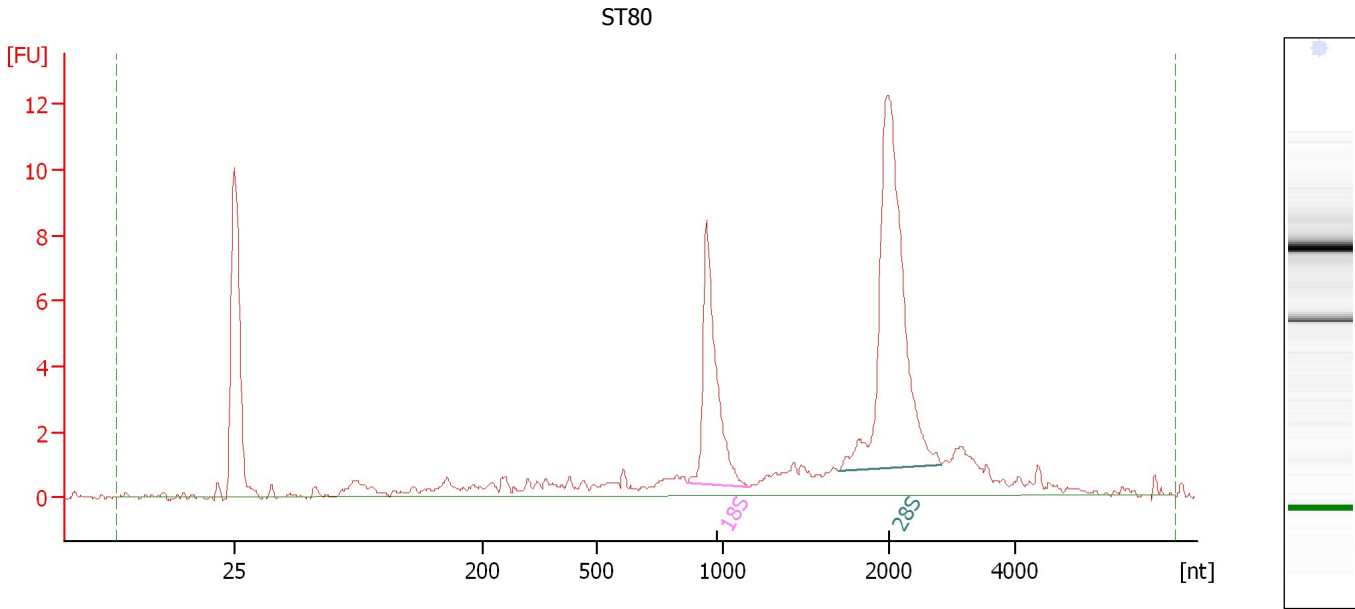
Fragment table for sample 4 : ST65

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	811	1,085	96.7	17.2
28S	1,603	2,542	239.3	42.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ST80

RNA Area:	74.6	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.20

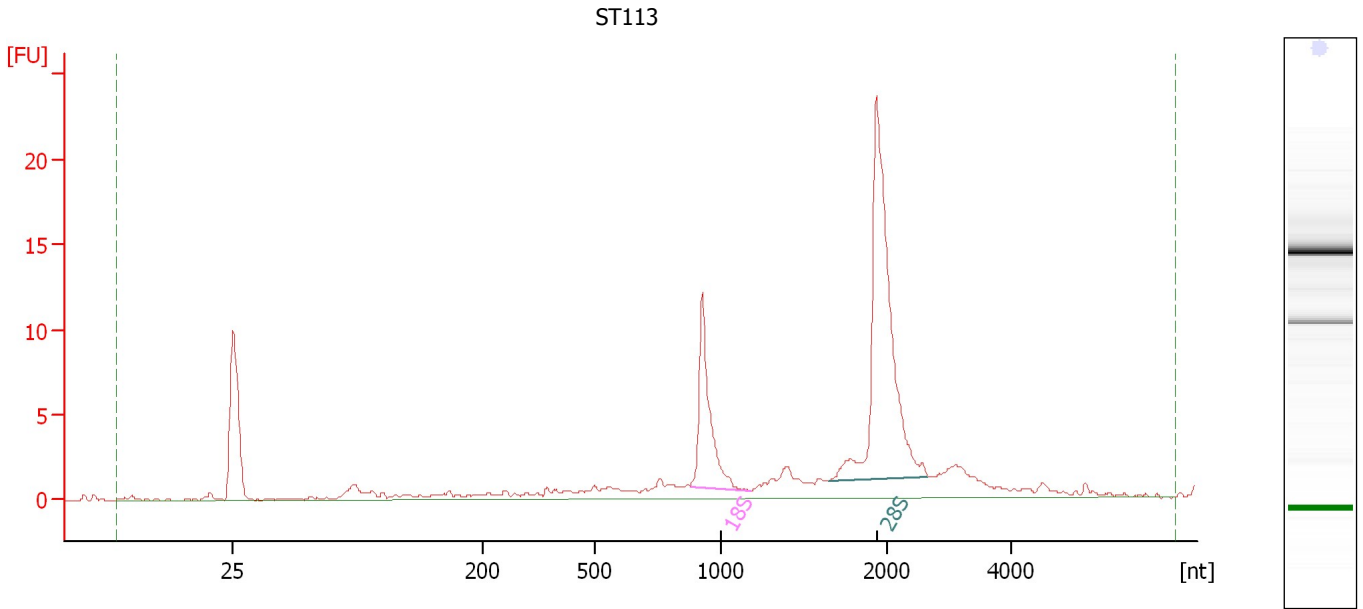
Fragment table for sample 5 : ST80

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	859	1,150	11.6	15.5
28S	1,691	2,840	26.1	34.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
 Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ST113

RNA Area:	105.7	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	125 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.20

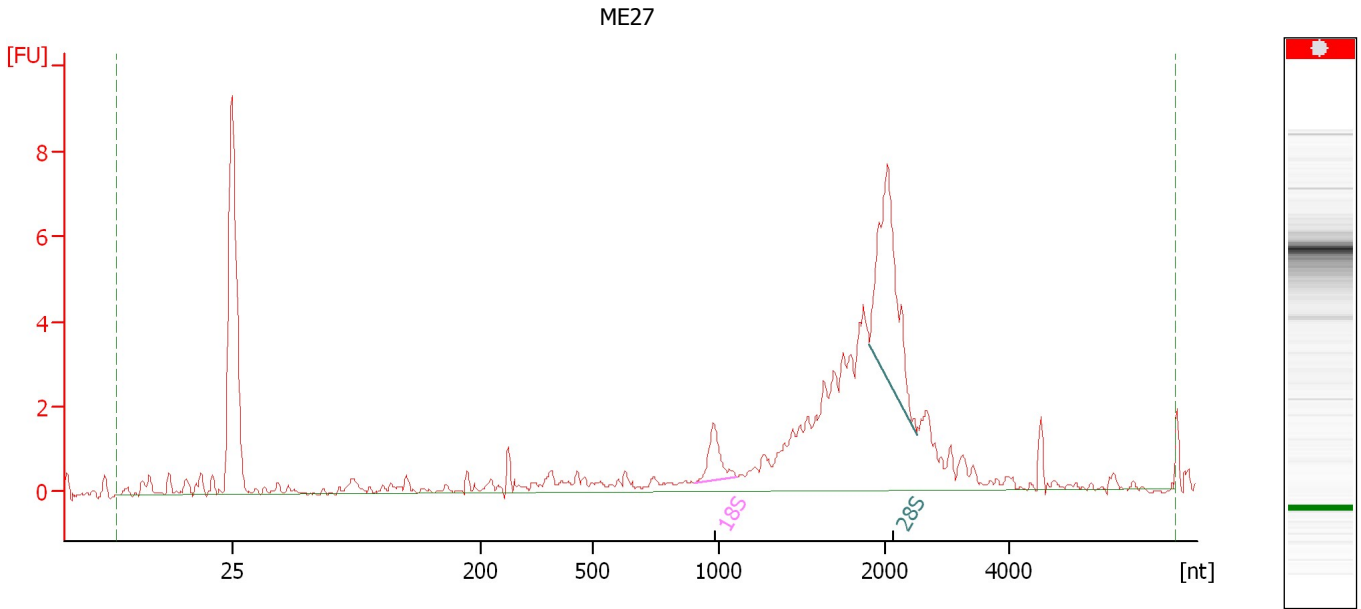
Fragment table for sample 6 : ST113

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	879	1,182	13.6	12.9
28S	1,647	2,657	39.3	37.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ME27

RNA Area:	59.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	70 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.9	Result Flagging Label:	RIN N/A

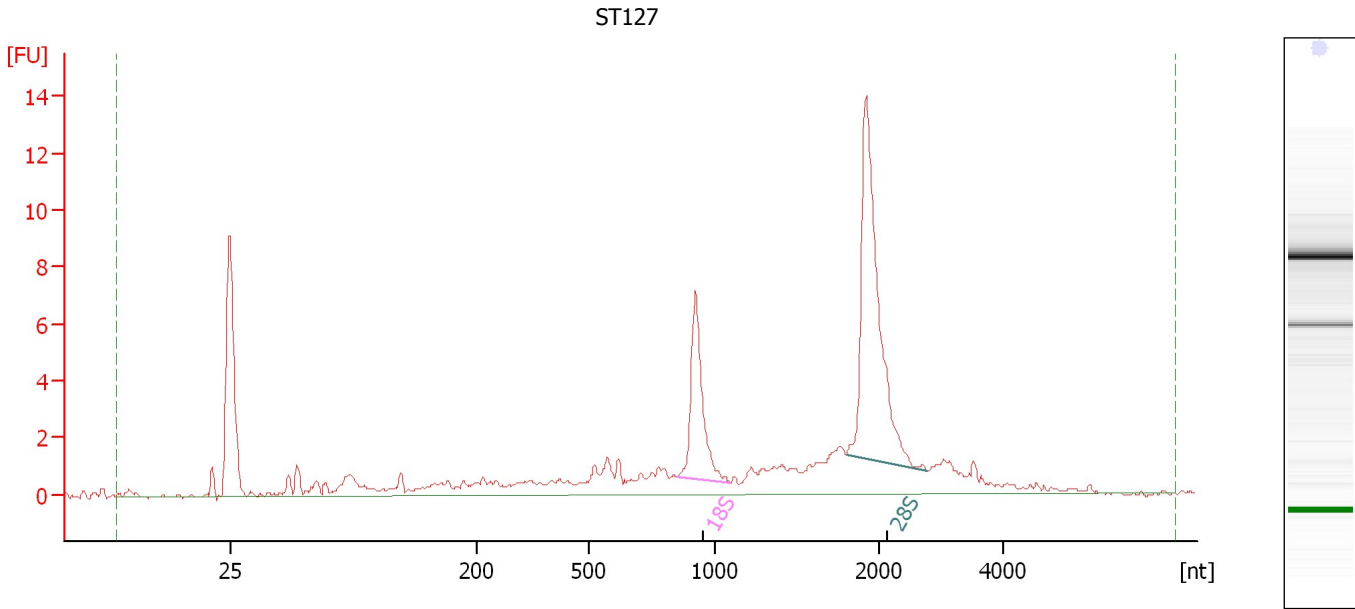
Fragment table for sample 7 : ME27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	904	1,111	1.8	3.0
28S	1,906	2,508	8.8	14.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST127

RNA Area: 78.1 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 92 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 8.40

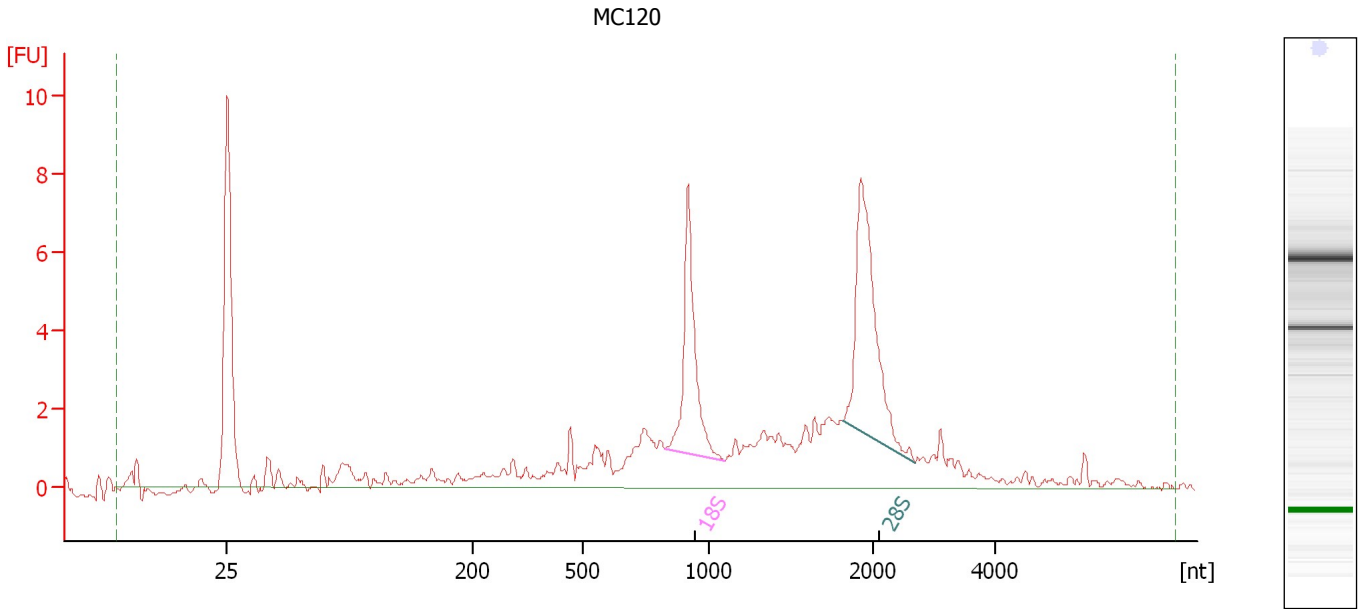
Fragment table for sample 8 : ST127

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	848	1,091	8.5	10.9
28S	1,799	2,776	20.9	26.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MC120

RNA Area: 76.5 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 90 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.70

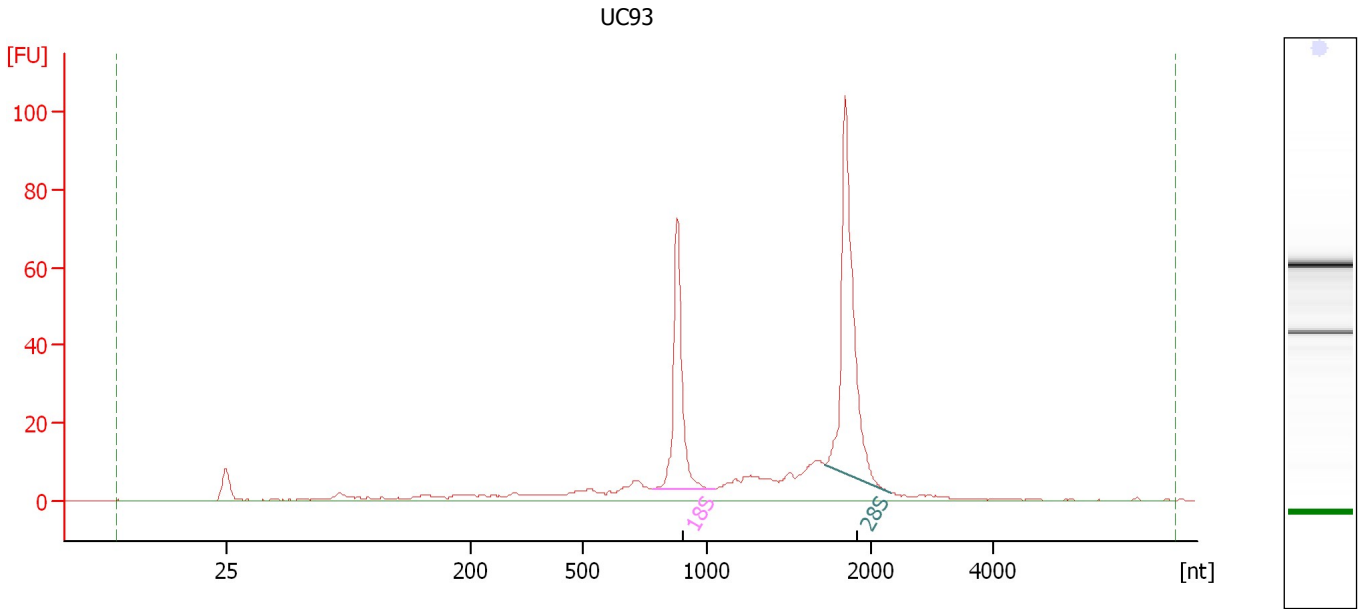
Fragment table for sample 9 : MC120

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	824	1,096	8.6	11.3
28S	1,821	2,671	12.3	16.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : UC93

RNA Area:	366.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	433 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:9

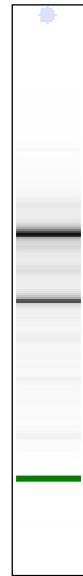
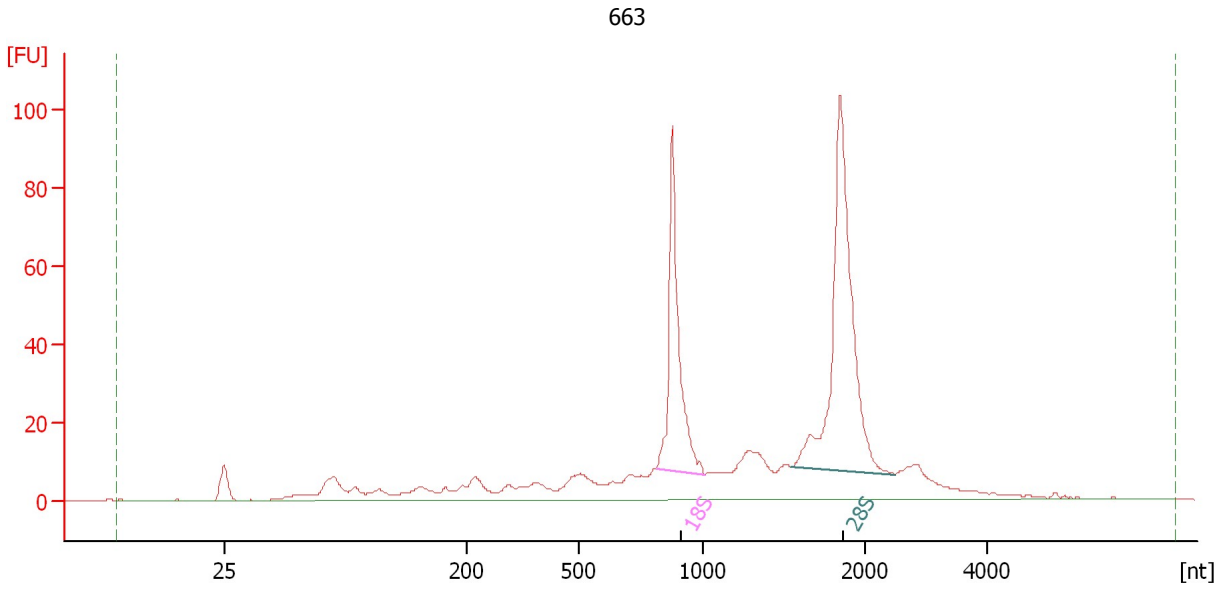
Fragment table for sample 10 : UC93

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	781	1,050	67.0	18.3
28S	1,718	2,329	113.6	31.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
 Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 663

RNA Area:	663.8	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	784 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.30

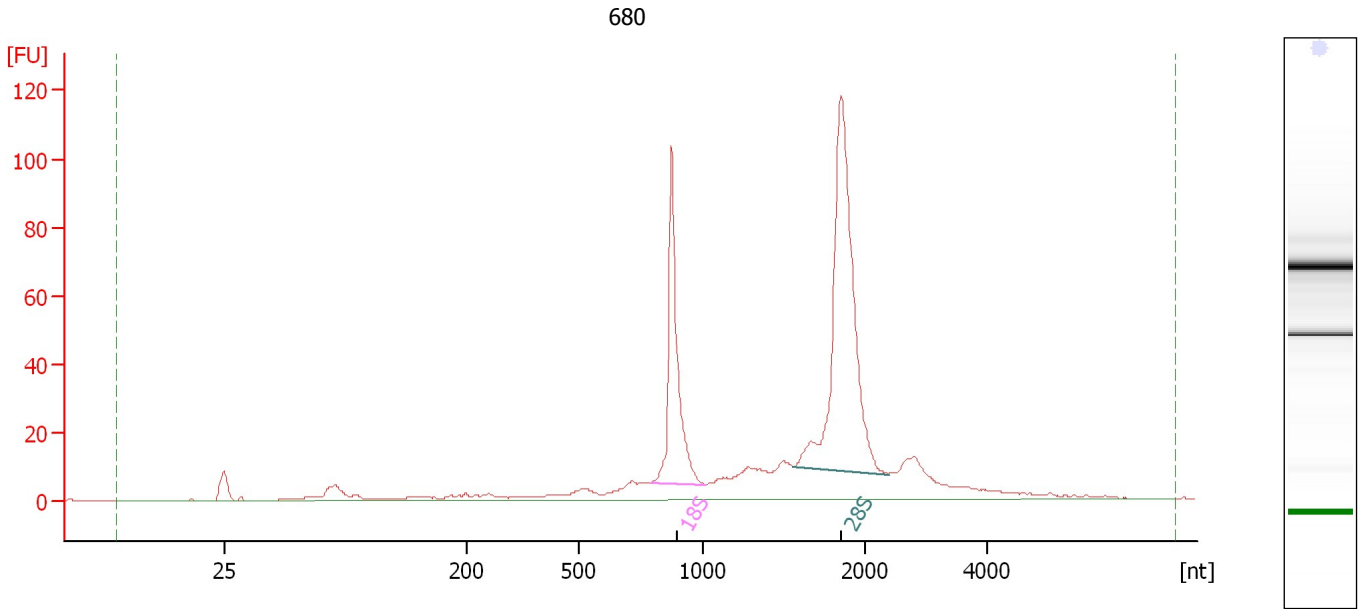
Fragment table for sample 11 : 663

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	813	1,010	99.2	15.0
28S	1,542	2,478	181.4	27.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 680

RNA Area:	624.0	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	737 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.40

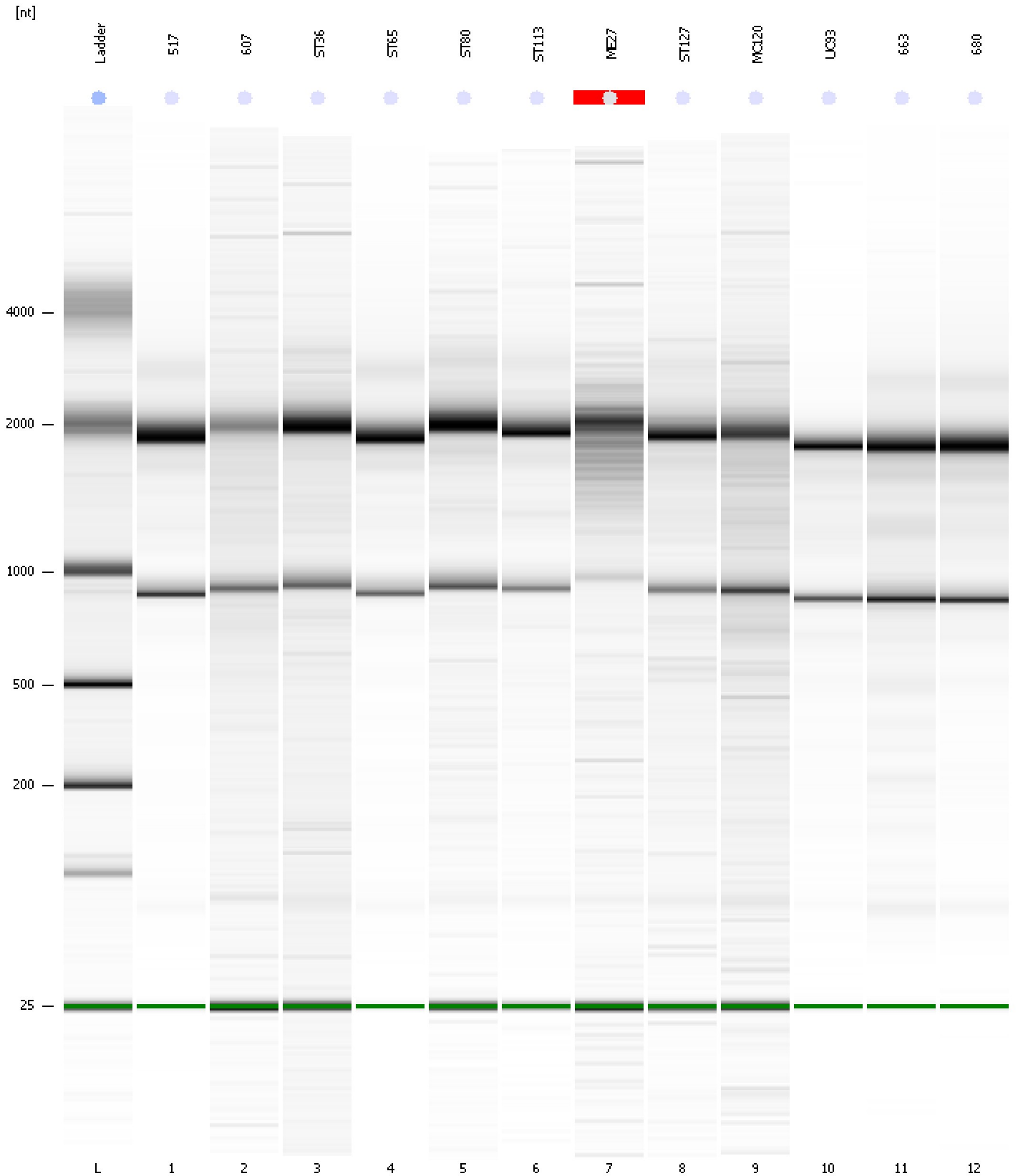
Fragment table for sample 12 : 680

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	792	1,017	100.5	16.1
28S	1,555	2,373	220.0	35.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad

Created: 2/3/2016 9:35:49 AM
Modified: 2/3/2016 9:59:39 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 2/3/2016 9:35:49 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad Modified: 2/3/2016 9:59:39 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		2/3/2016 9:59:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-03\2016-02-03_001.xad)		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/3/2016 9:35:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1