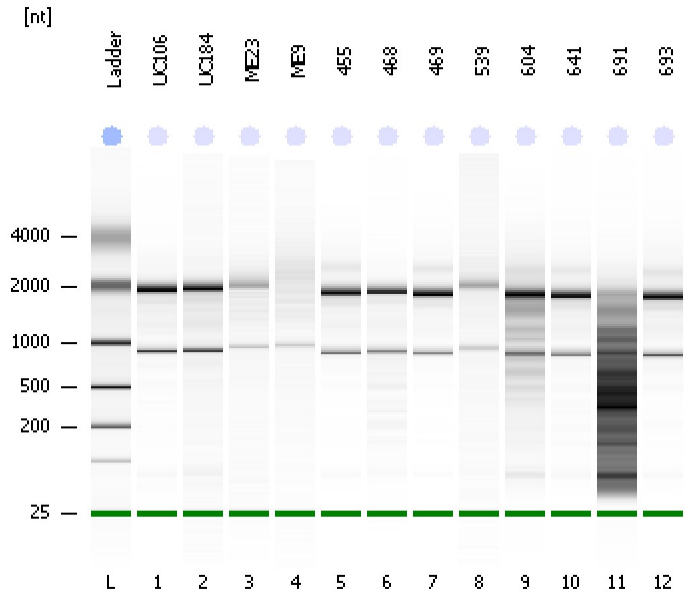


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electrophoresis File Run Summary



Instrument Information:

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

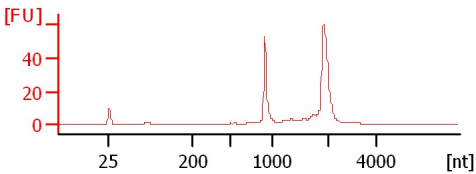
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

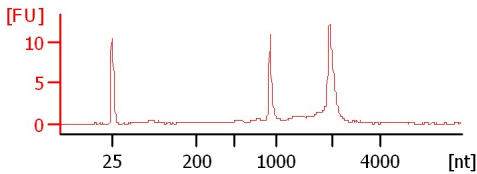
Chip Information:

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

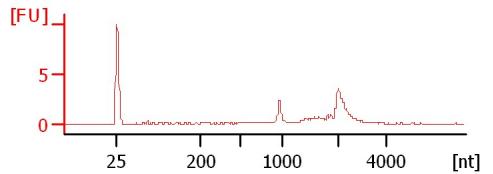
UC106
RIN: 9.80



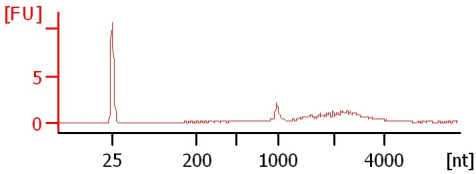
UC184
RIN: 9.10



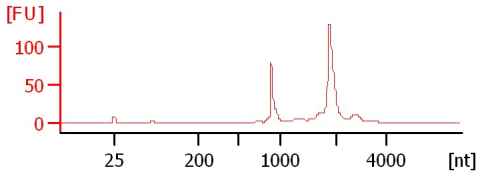
ME23
RIN: 8.20



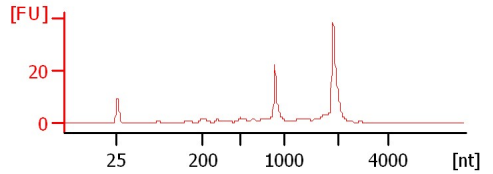
ME9
RIN: 6.70



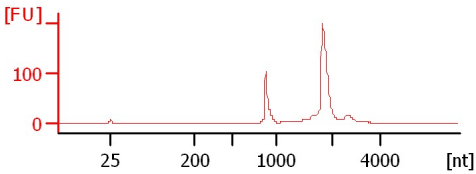
455
RIN: 10



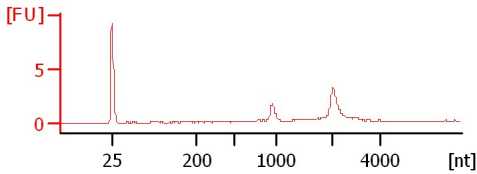
468
RIN: 8.90



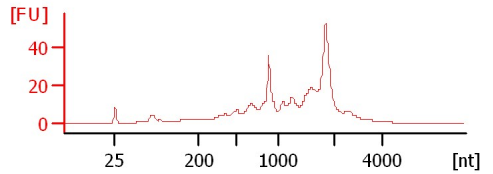
469
RIN: 10



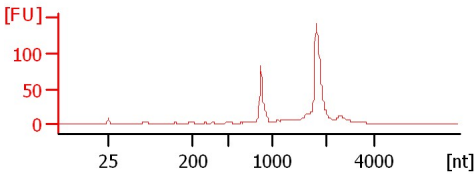
539
RIN: 8.40



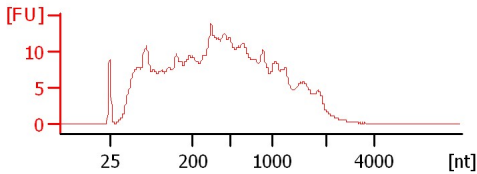
604
RIN: 6.70



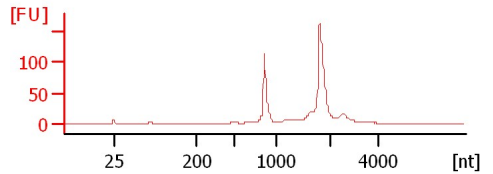
641
RIN: 9.40



691
RIN: 2.50



693
RIN: 9.70



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
 Modified: 12/21/2015 12:33:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
UC106		✓	RIN: 9.80	
UC184		✓	RIN: 9.10	
ME23		✓	RIN: 8.20	
ME9		✓	RIN: 6.70	
455		✓	RIN:10	
468		✓	RIN: 8.90	
469		✓	RIN:10	
539		✓	RIN: 8.40	
604		✓	RIN: 6.70	
641		✓	RIN: 9.40	
691		✓	RIN: 2.50	
693		✓	RIN: 9.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 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

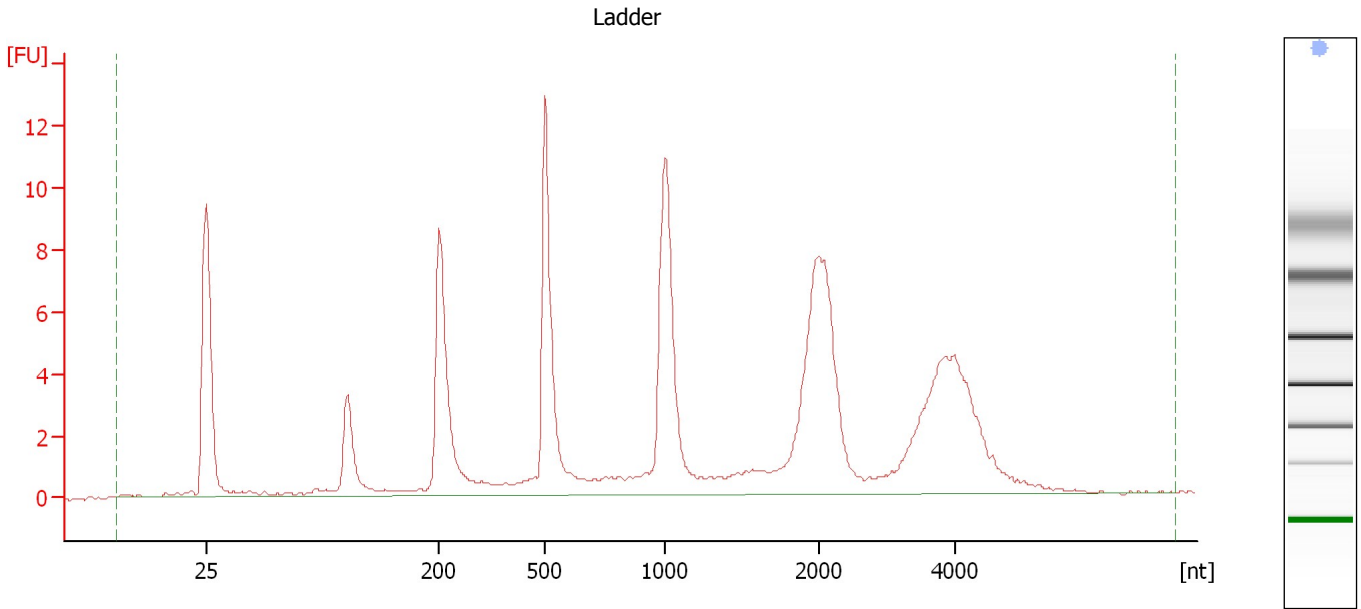
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary



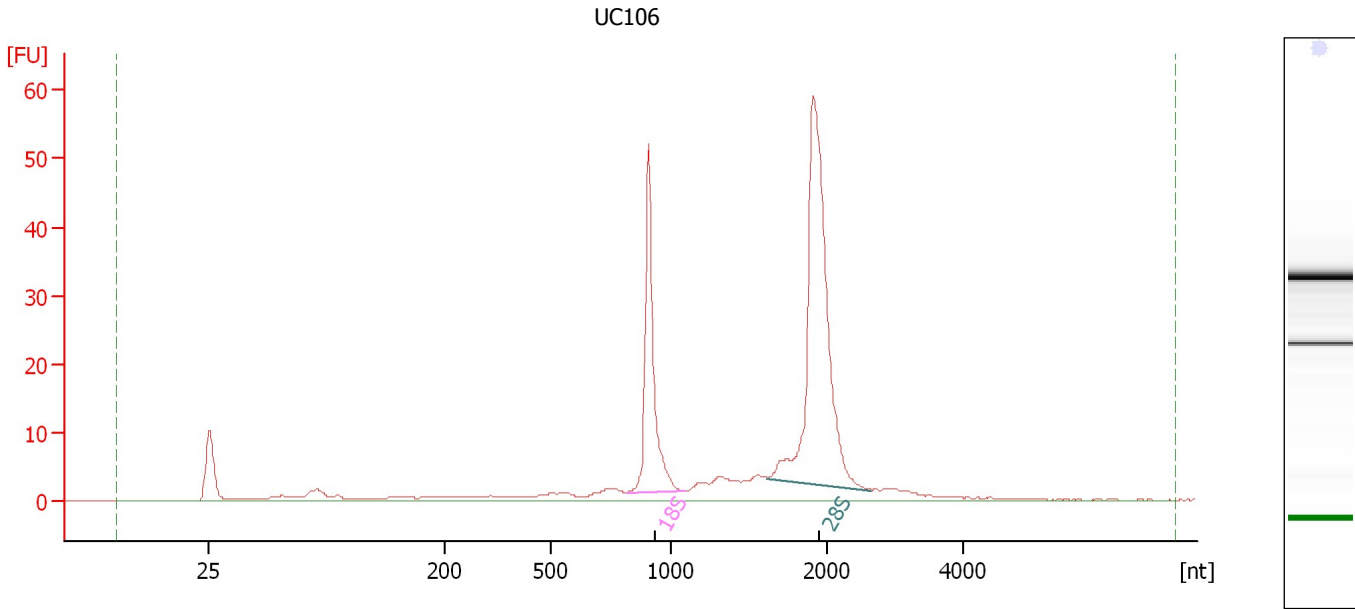
Overall Results for Ladder

RNA Area:	122.3	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : UC106

RNA Area:	264.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	324 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.80

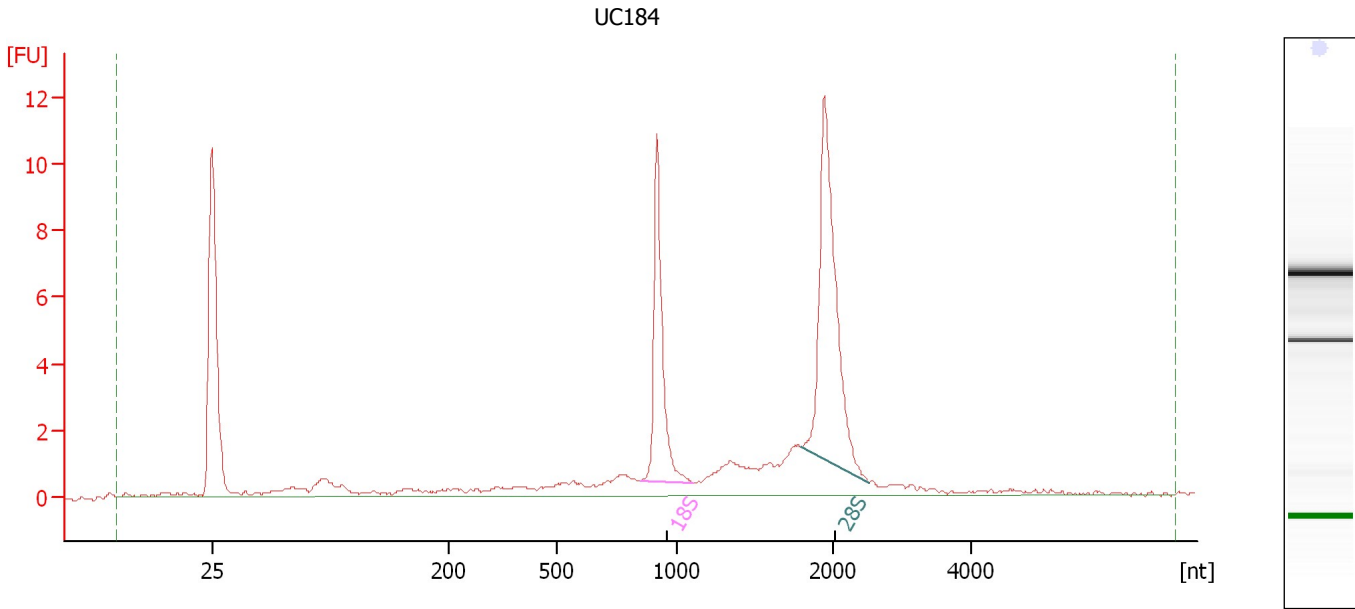
Fragment table for sample 1 : UC106

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	814	1,091	49.9	18.9
28S	1,622	2,662	112.8	42.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : UC184

RNA Area:	63.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	78 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

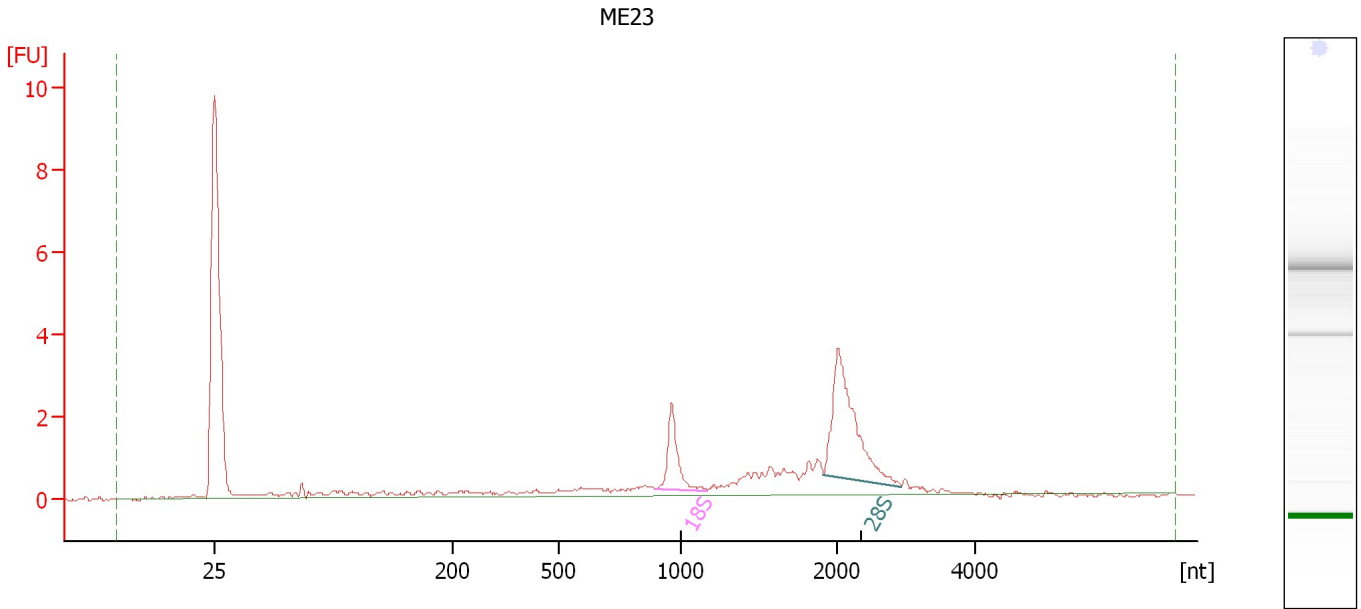
Fragment table for sample 2 : UC184

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	848	1,099	10.4	16.2
28S	1,799	2,508	18.0	28.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ME23

RNA Area:	26.7	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	33 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 8.20

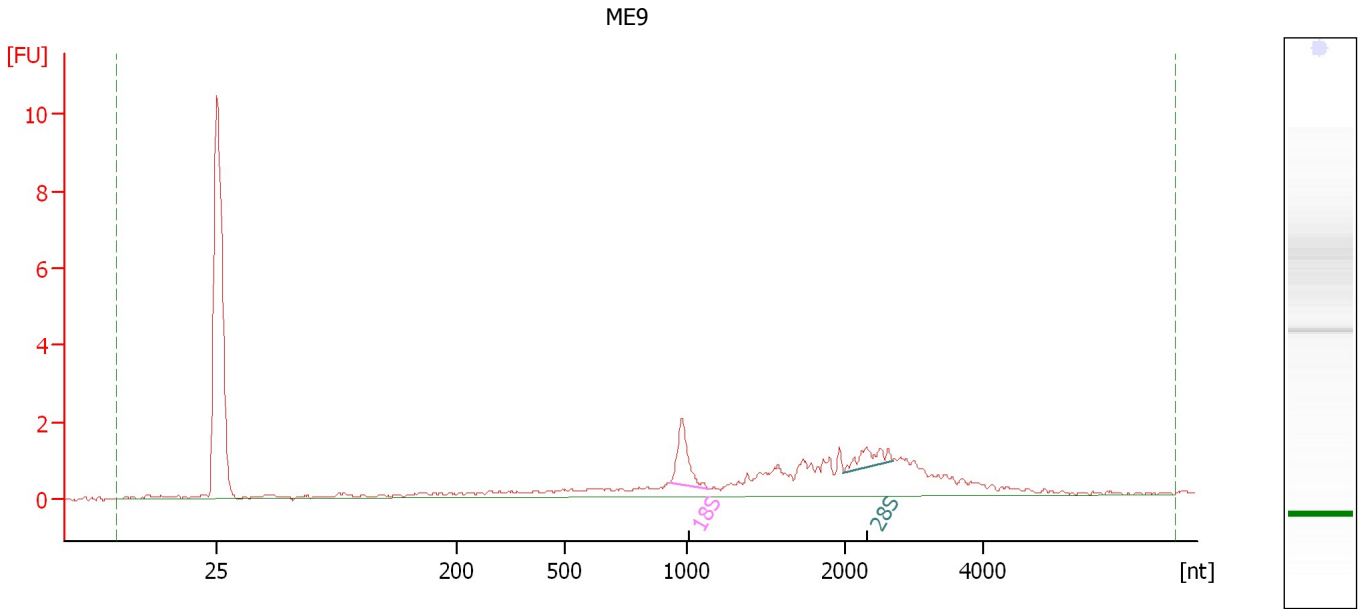
Fragment table for sample 3 : ME23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	893	1,168	2.4	8.9
28S	1,906	2,918	6.9	25.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ME9

RNA Area:	26.5	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.70

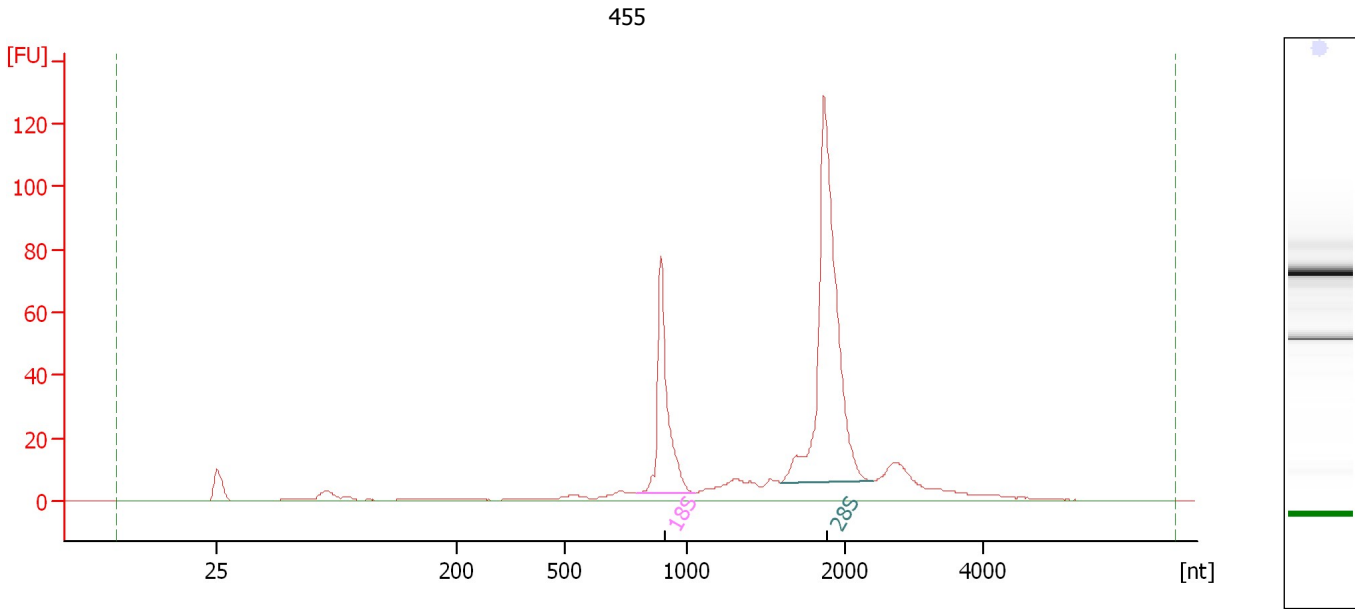
Fragment table for sample 4 : ME9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	930	1,135	2.2	8.2
28S	1,990	2,687	1.1	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 455

RNA Area: 517.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 634 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN:10

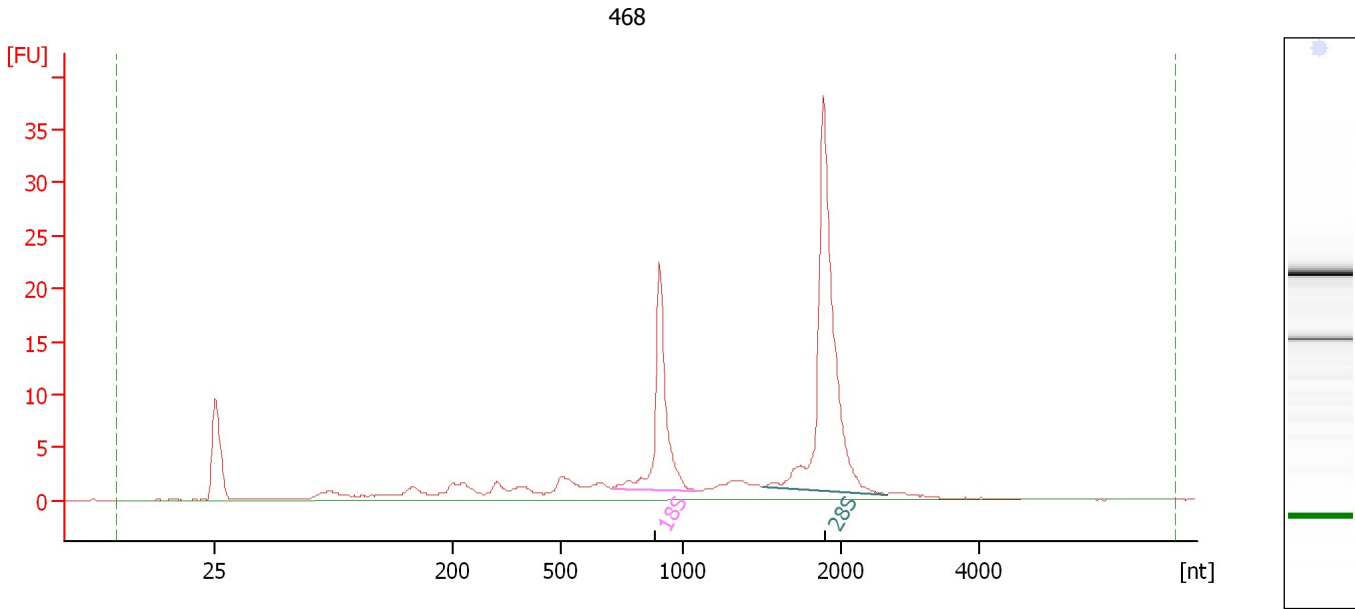
Fragment table for sample 5 : 455

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	790	1,040	84.0	16.2
28S	1,590	2,410	221.6	42.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 468

RNA Area:	152.3	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	187 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 8.90

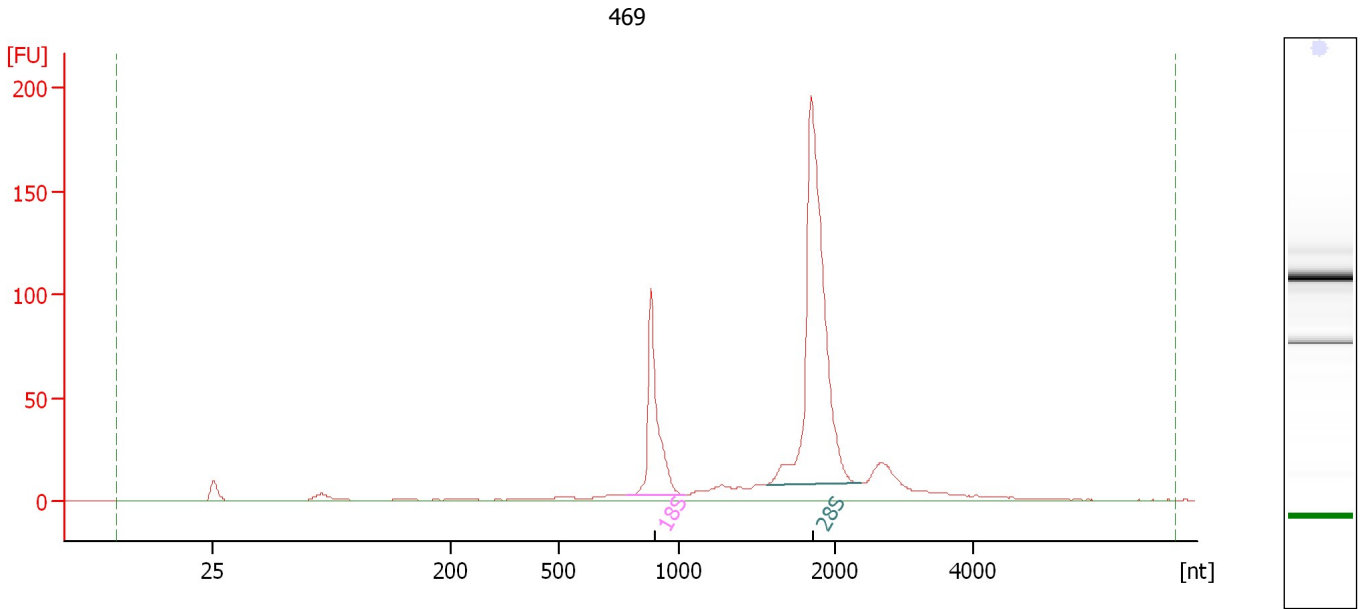
Fragment table for sample 6 : 468

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	710	1,080	25.8	16.9
28S	1,503	2,665	58.3	38.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 469

RNA Area:	705.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	865 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.0	Result Flagging Label:	RIN:10

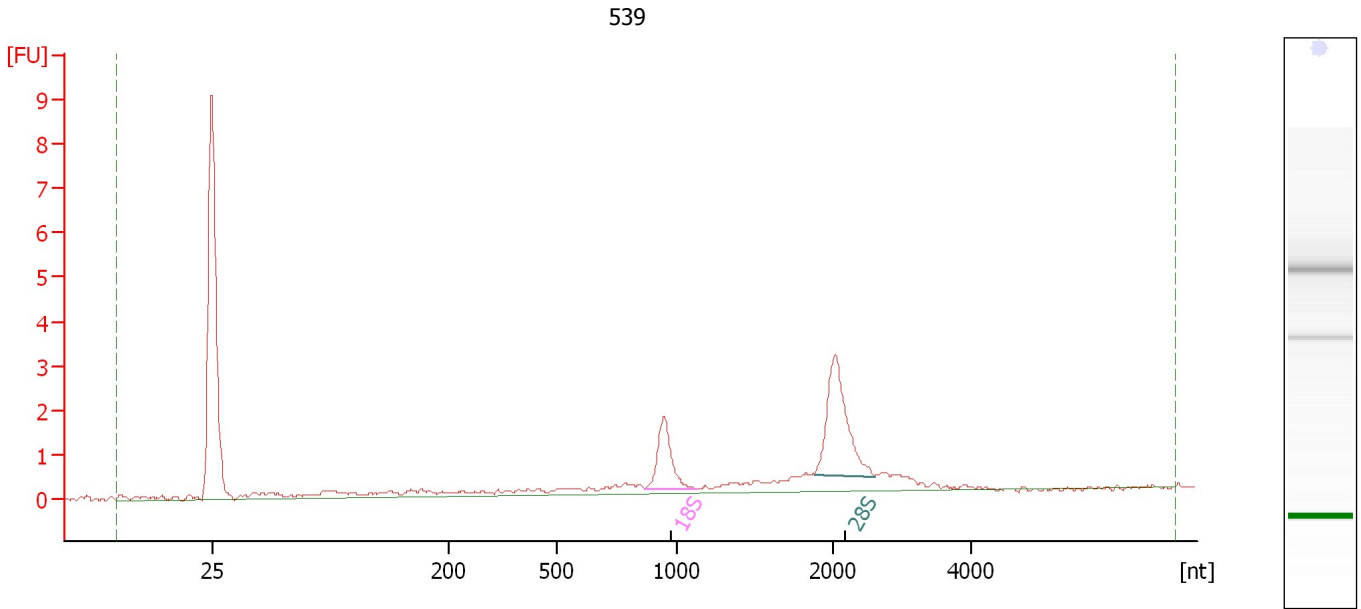
Fragment table for sample 7 : 469

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	787	1,038	115.2	16.3
28S	1,558	2,364	345.7	49.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 539

RNA Area: 20.9 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 26 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 8.40

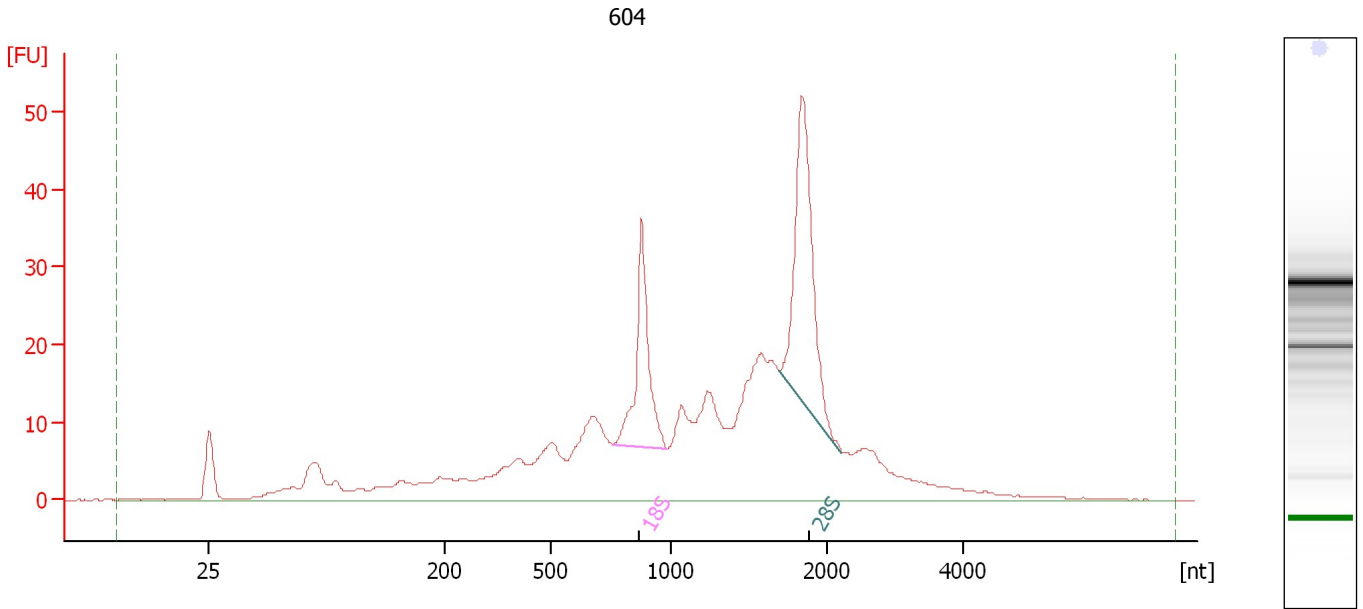
Fragment table for sample 8 : 539

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	865	1,127	2.6	12.4
28S	1,881	2,602	5.3	25.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 604

RNA Area: 566.0 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 694 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 6.70

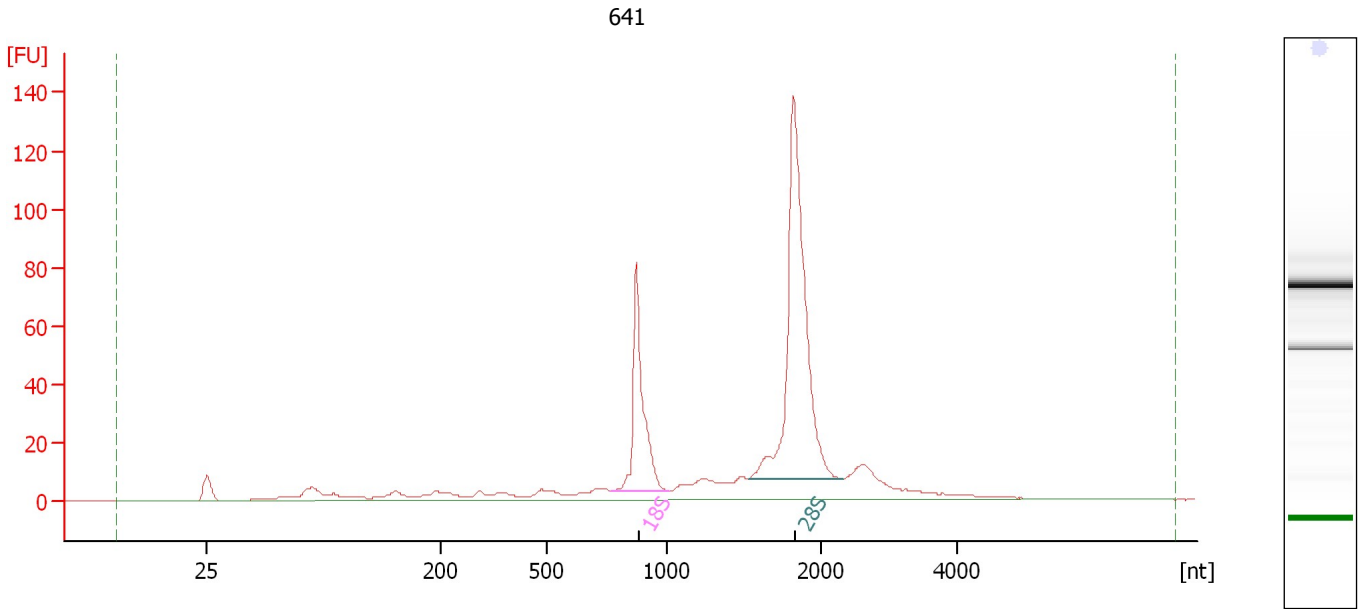
Fragment table for sample 9 : 604

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	757	983	41.5	7.3
28S	1,698	2,224	71.0	12.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 641

RNA Area: 621.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 761 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 9.40

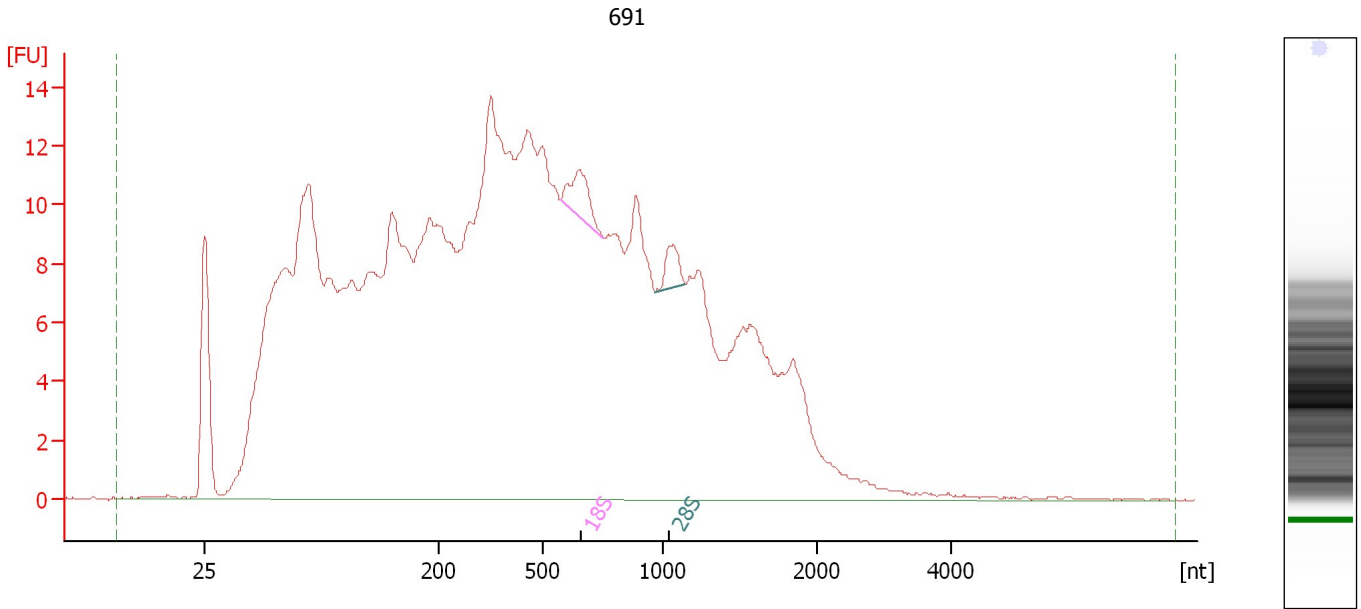
Fragment table for sample 10 : 641

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	768	1,014	93.0	15.0
28S	1,527	2,326	239.2	38.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 691

RNA Area: 597.1 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 732 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 2.50

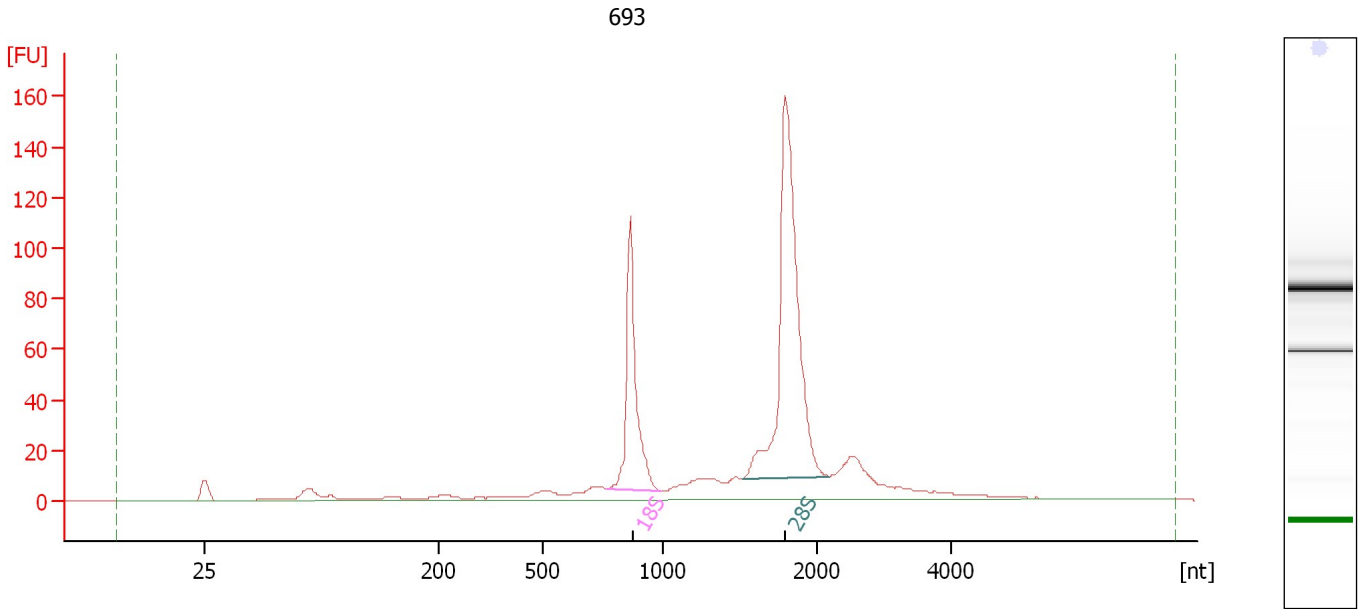
Fragment table for sample 11 : 691

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	570	749	3.8	0.6
28S	968	1,145	2.3	0.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 693

RNA Area:	725.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	890 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.70

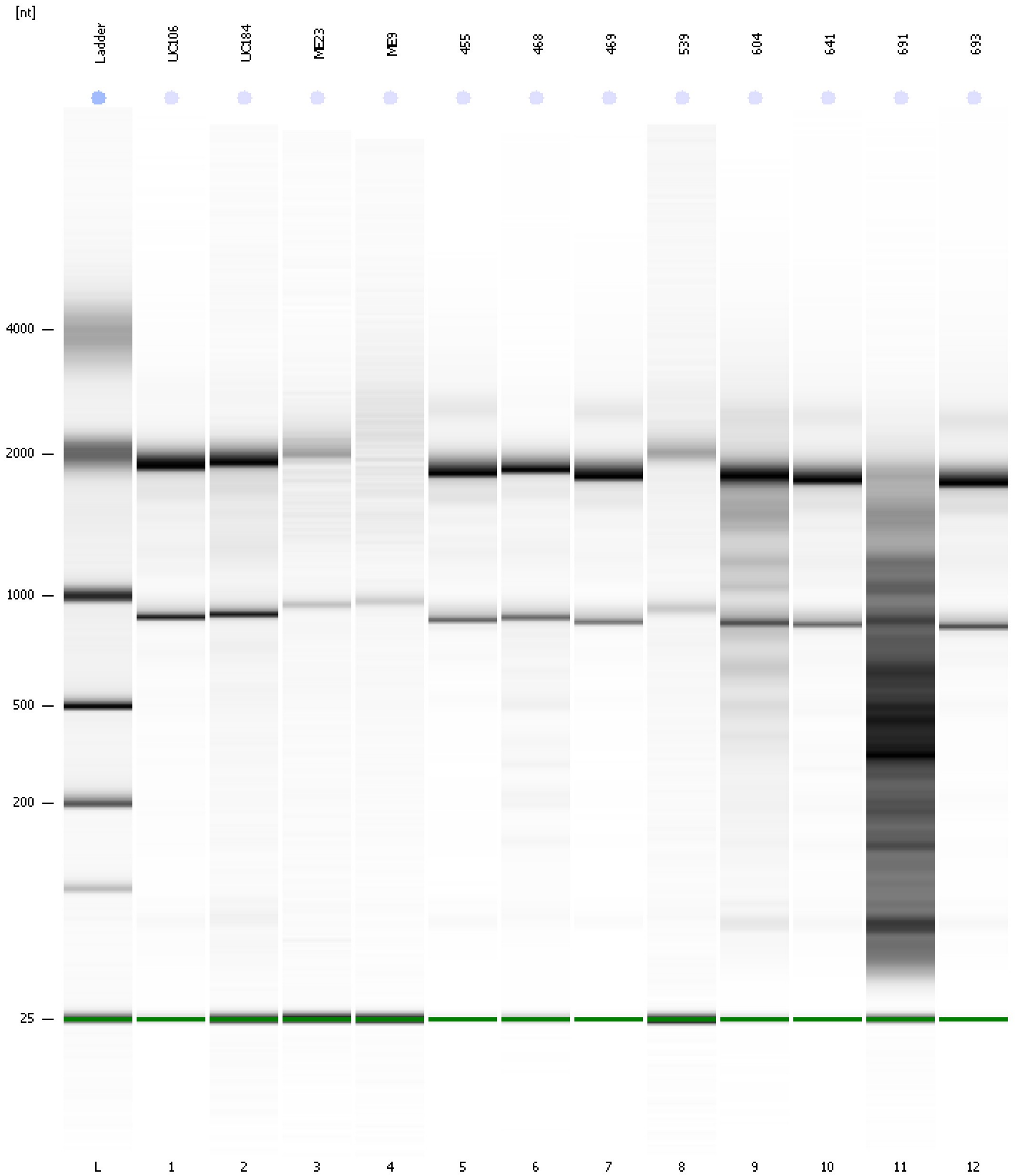
Fragment table for sample 12 : 693

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	762	990	118.9	16.4
28S	1,514	2,176	280.5	38.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
Modified: 12/21/2015 12:33:00 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad

Created: 12/21/2015 12:09:56 PM
 Modified: 12/21/2015 12:33:00 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		12/21/2015 12:32:59 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-21\2015-12-21_002.xad)		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/21/2015 12:10:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1