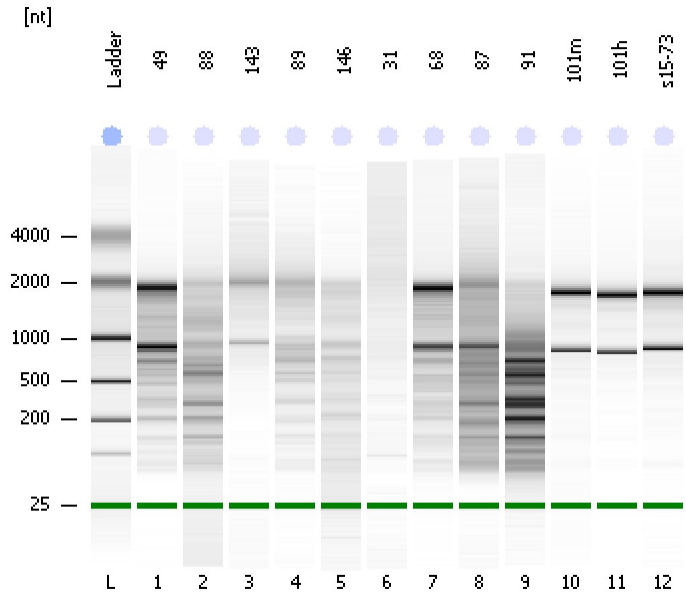


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

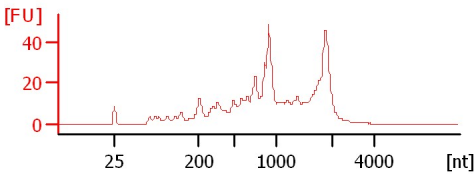
Assay Information:

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.

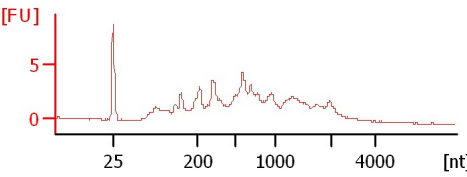
Chip Information:

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

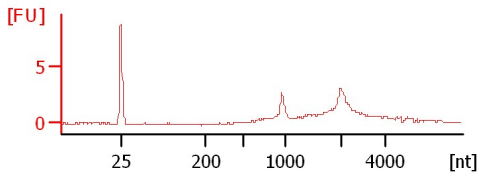
49
RIN: 6.80



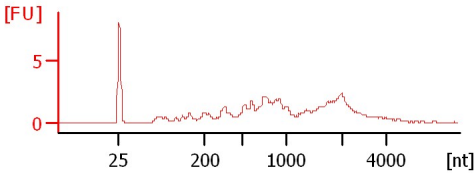
88
RIN: 3.50



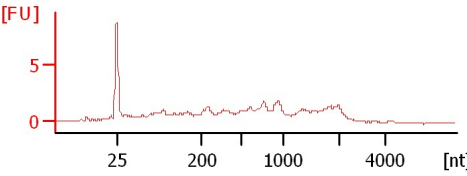
143
RIN: 7.60



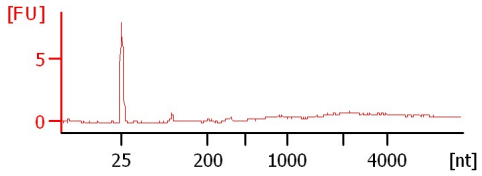
89
RIN: 2.60



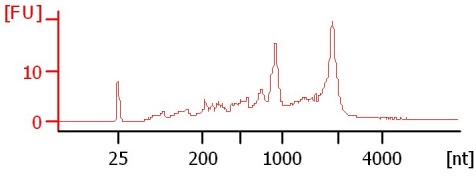
146
RIN: 4.60



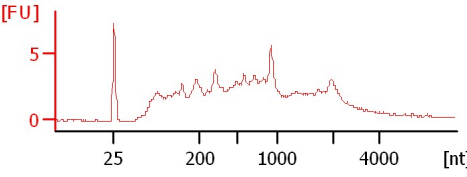
31
RIN: 1



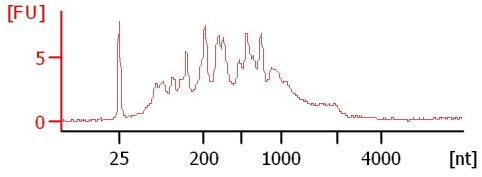
68
RIN: 7.20



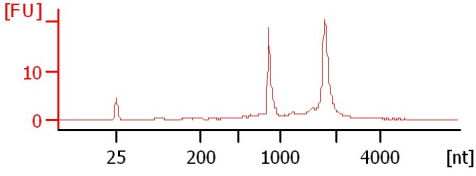
87
RIN: 3.90



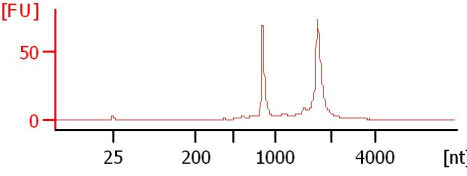
91
RIN: 2.70



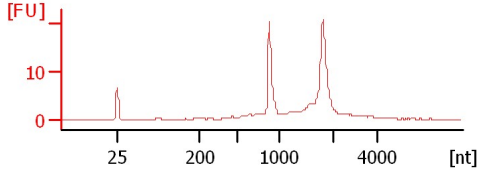
101m
RIN: 8.90



101h
RIN: 9.40



s15-73
RIN: 9.30



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
 Modified: 6/30/2017 12:43:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
49		✓	RIN: 6.80	
88		✓	RIN: 3.50	
143		✓	RIN: 7.60	
89		✓	RIN: 2.60	
146		✓	RIN: 4.60	
31		✓	RIN:1	
68		✓	RIN: 7.20	
87		✓	RIN: 3.90	
91		✓	RIN: 2.70	
101m		✓	RIN: 8.90	
101h		✓	RIN: 9.40	
s15-73		✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 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

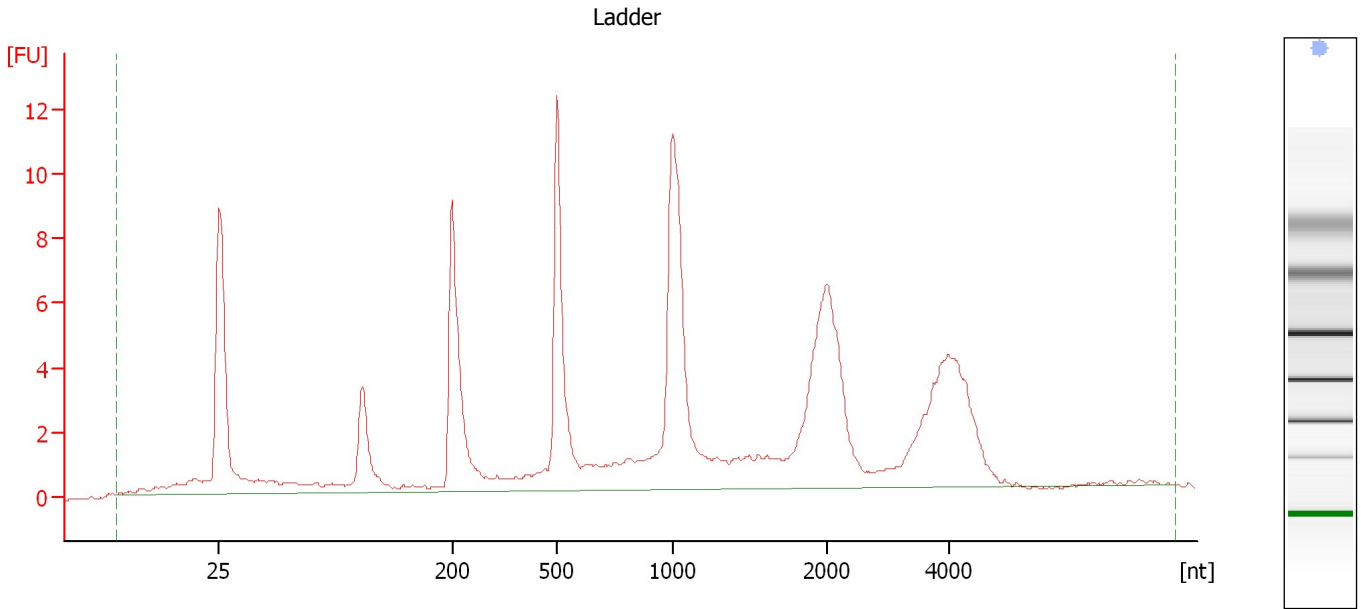
Ladder

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\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary



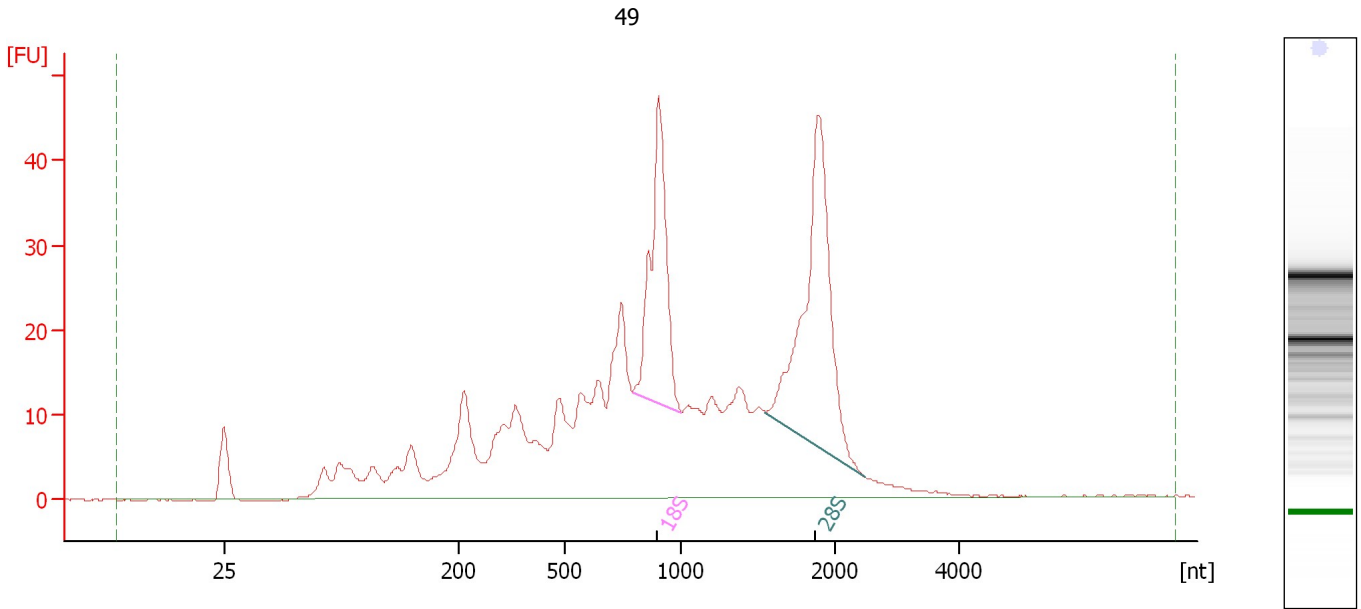
Overall Results for Ladder

RNA Area:	126.1	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\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 49

RNA Area:	651.5	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	775 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 6.80

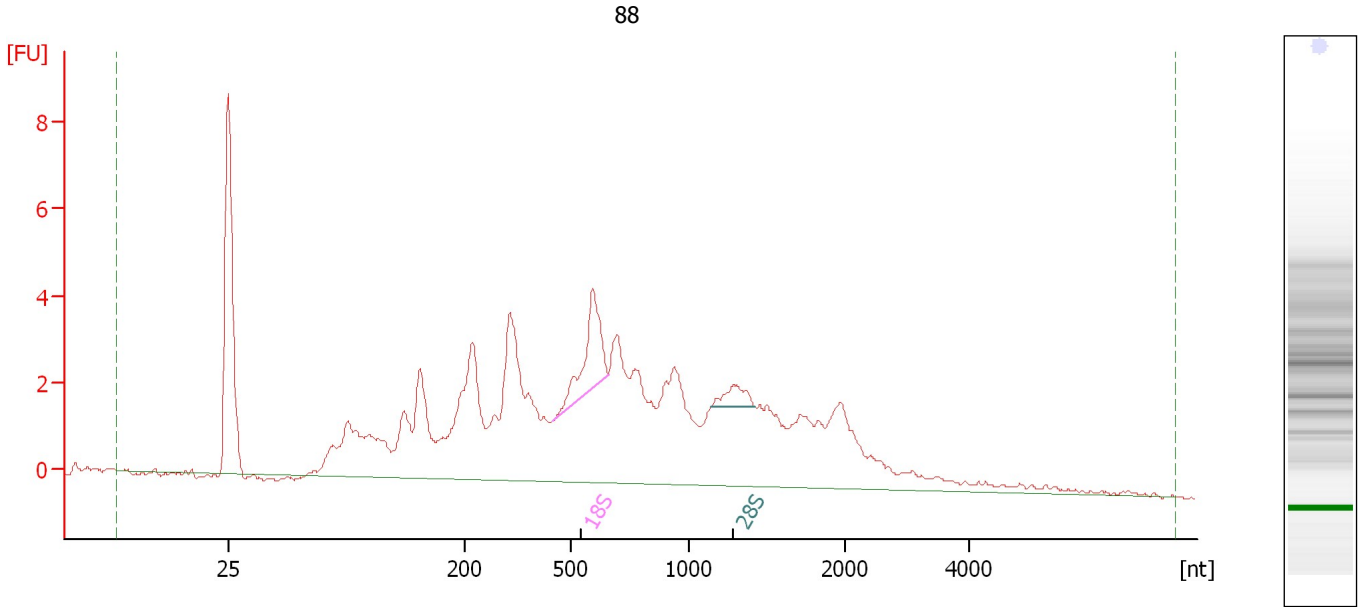
Fragment table for sample 1 : 49

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	791	1,003	65.6	10.1
28S	1,547	2,475	102.2	15.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 88

RNA Area:	113.4	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	135 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.50

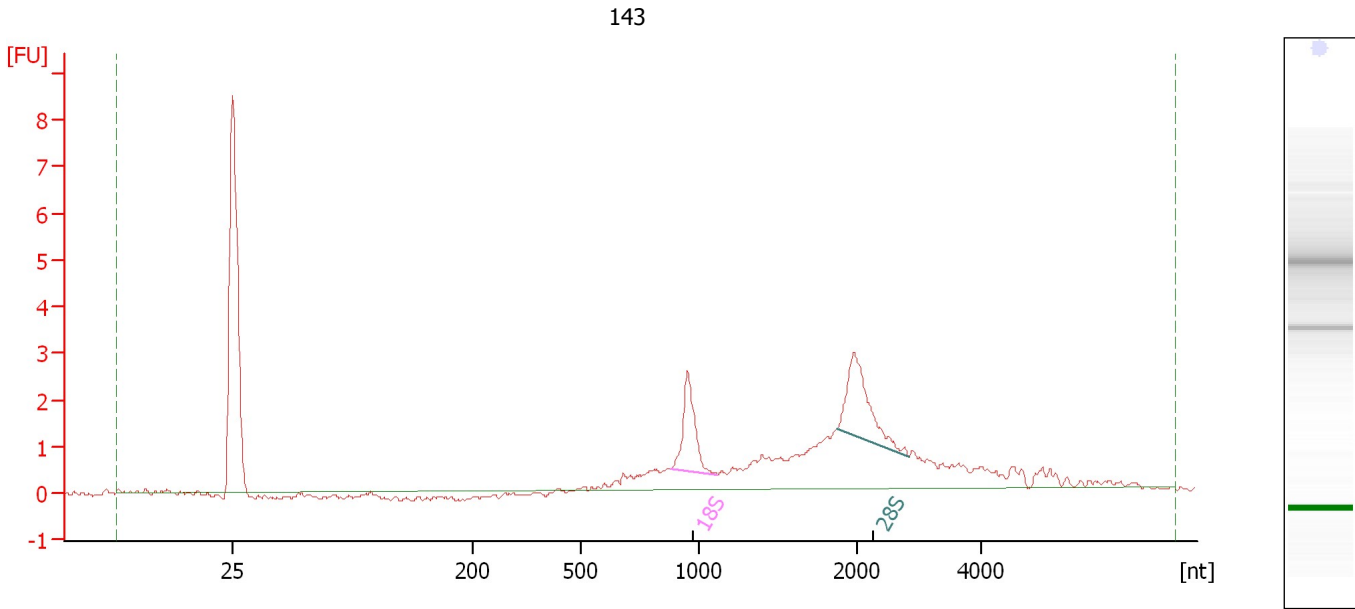
Fragment table for sample 2 : 88

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	448	658	4.7	4.1
28S	1,136	1,423	1.3	1.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
 Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 143

RNA Area:	30.2	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.60

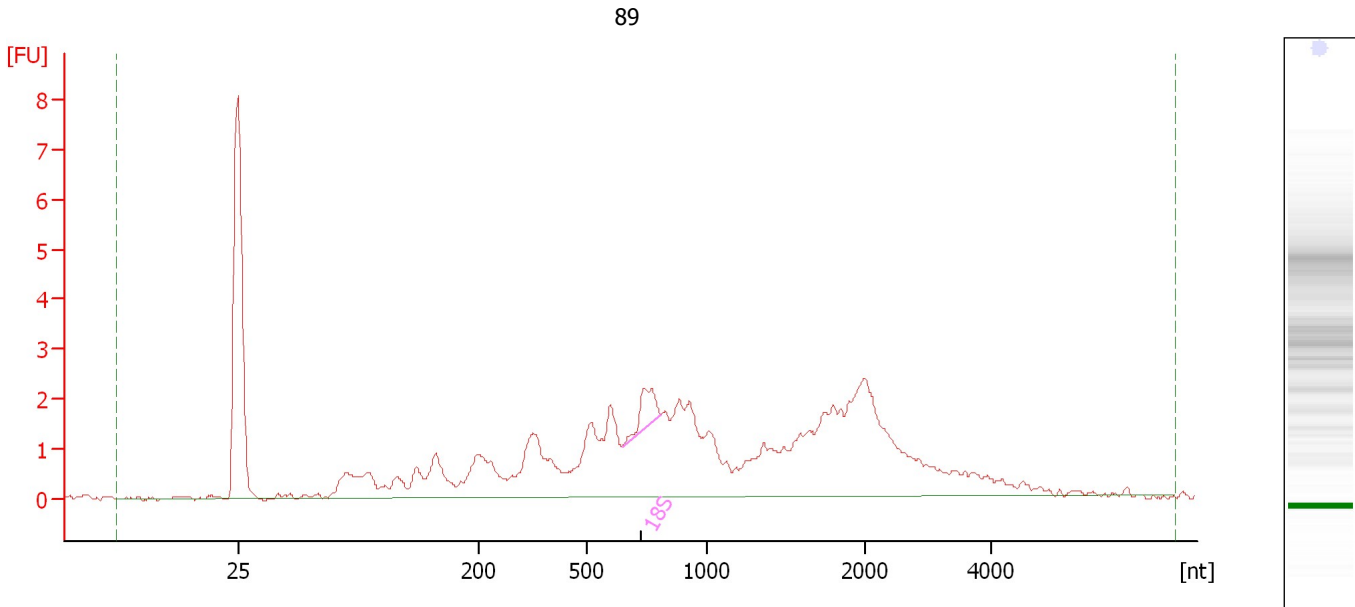
Fragment table for sample 3 : 143

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	881	1,119	2.8	9.4
28S	1,876	2,833	3.8	12.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 89

RNA Area:	65.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	78 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

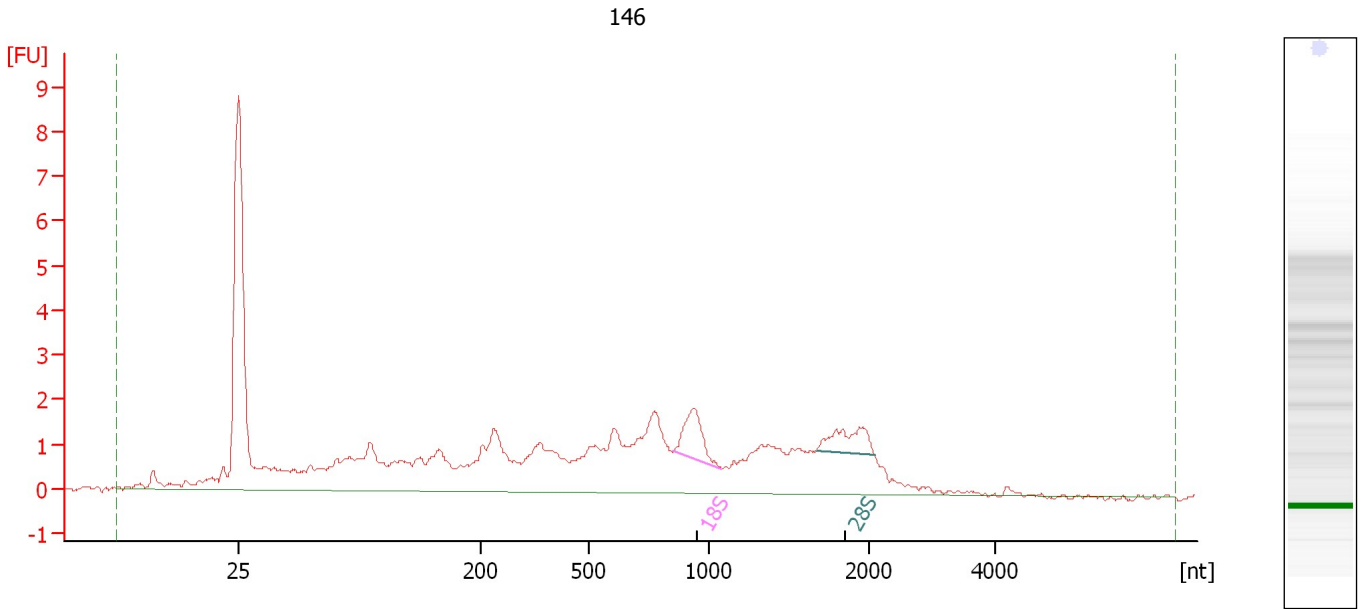
Fragment table for sample 4 : 89

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	647	808	1.4	2.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 146

RNA Area: 67.7 RNA Integrity Number (RIN): 4.6 (B.02.08)
RNA Concentration: 81 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 4.60

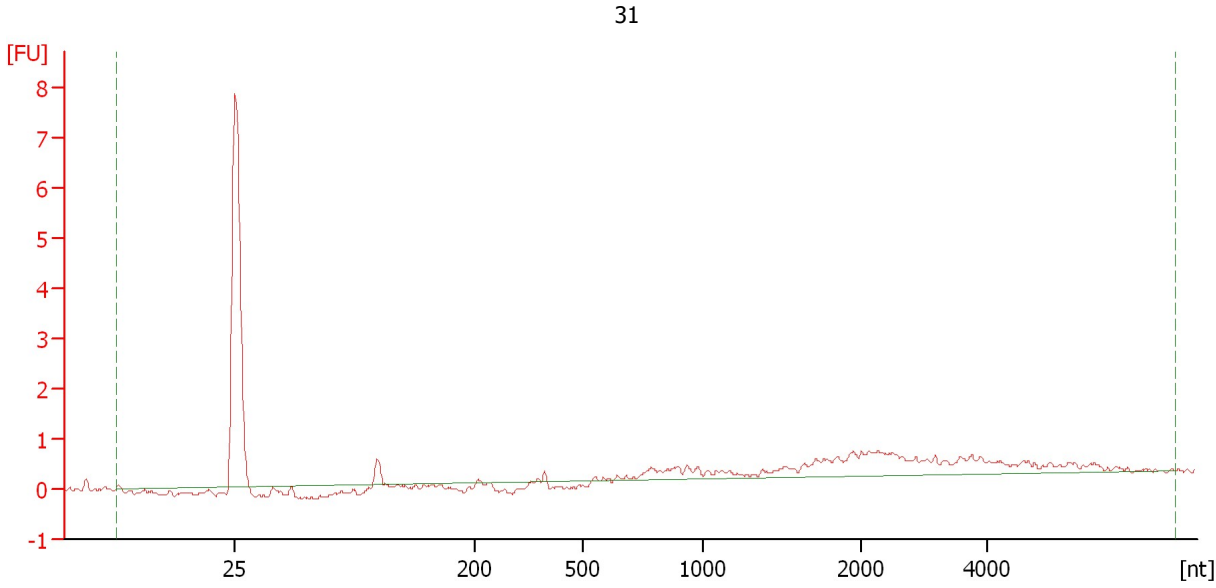
Fragment table for sample 5 : 146

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	854	1,082	2.3	3.4
28S	1,678	2,100	1.8	2.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



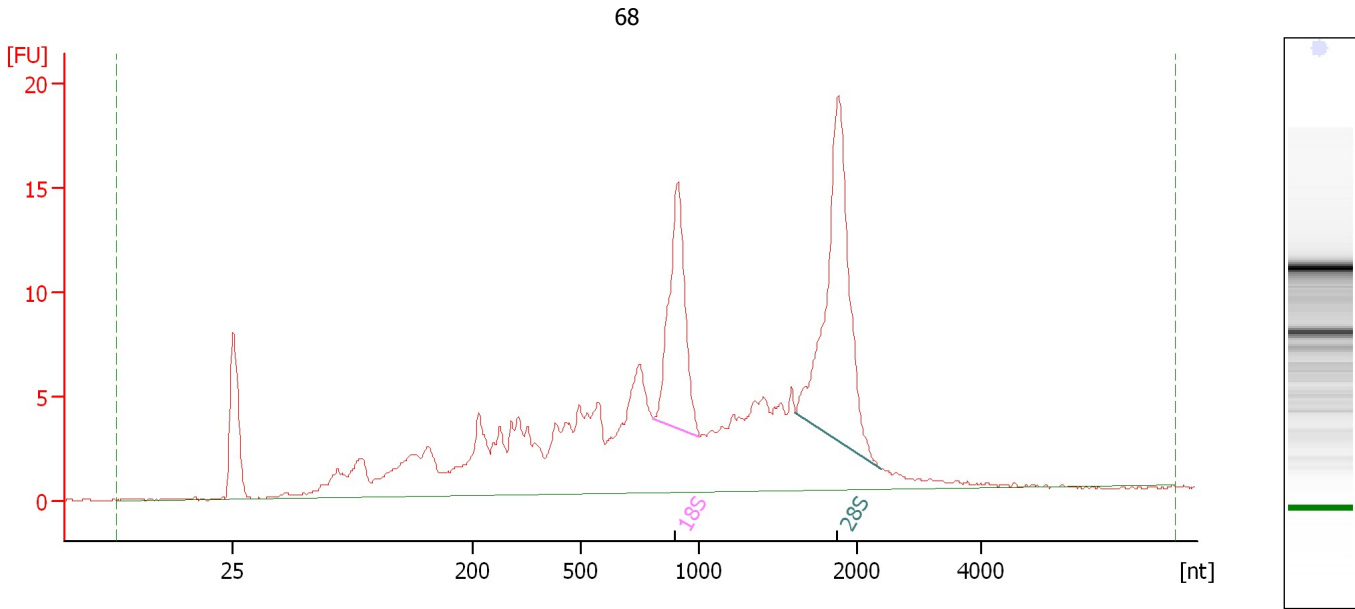
Overall Results for sample 6 : 31

RNA Area:	10.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	12 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:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 68

RNA Area: 228.4 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 272 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 7.20

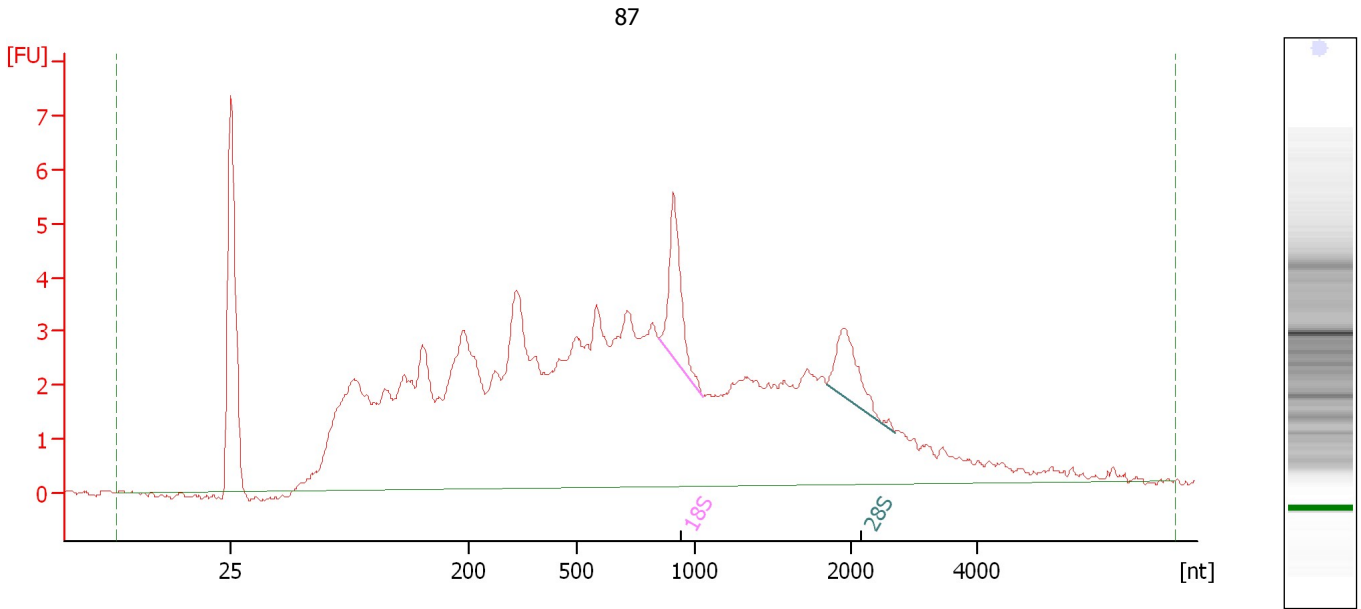
Fragment table for sample 7 : 68

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	809	1,004	21.9	9.6
28S	1,613	2,389	37.8	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 87

RNA Area:	153.0	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	182 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 3.90

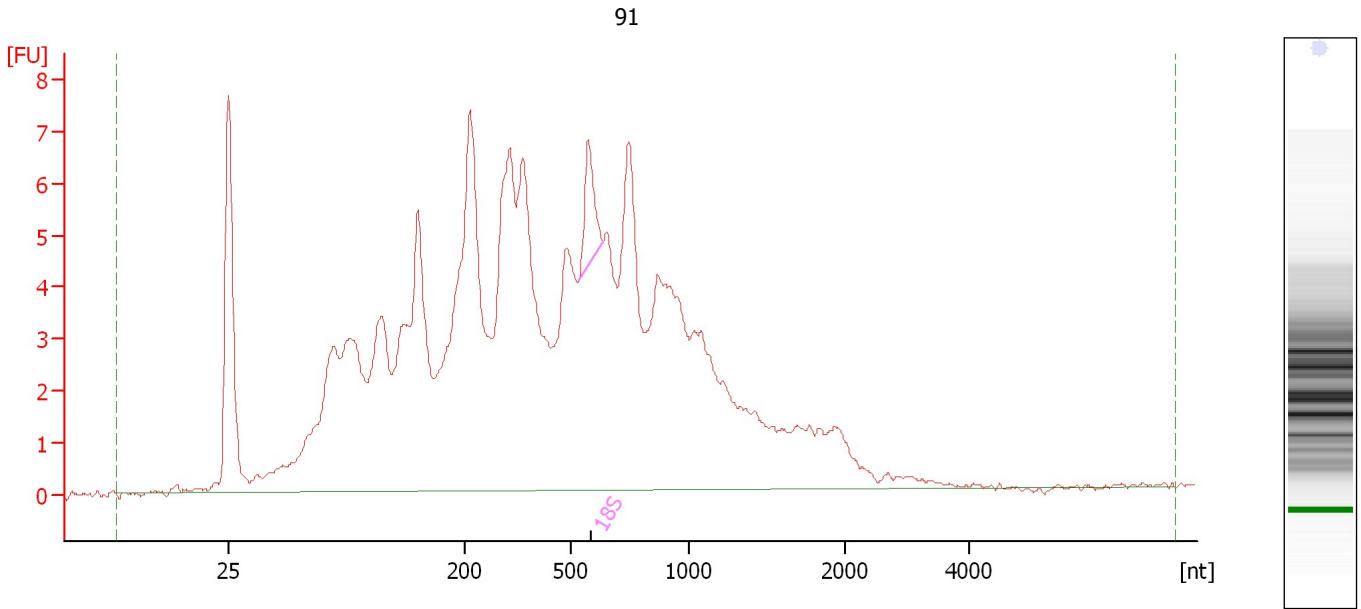
Fragment table for sample 8 : 87

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	852	1,050	4.2	2.7
28S	1,838	2,688	3.0	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 91

RNA Area:	210.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	251 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

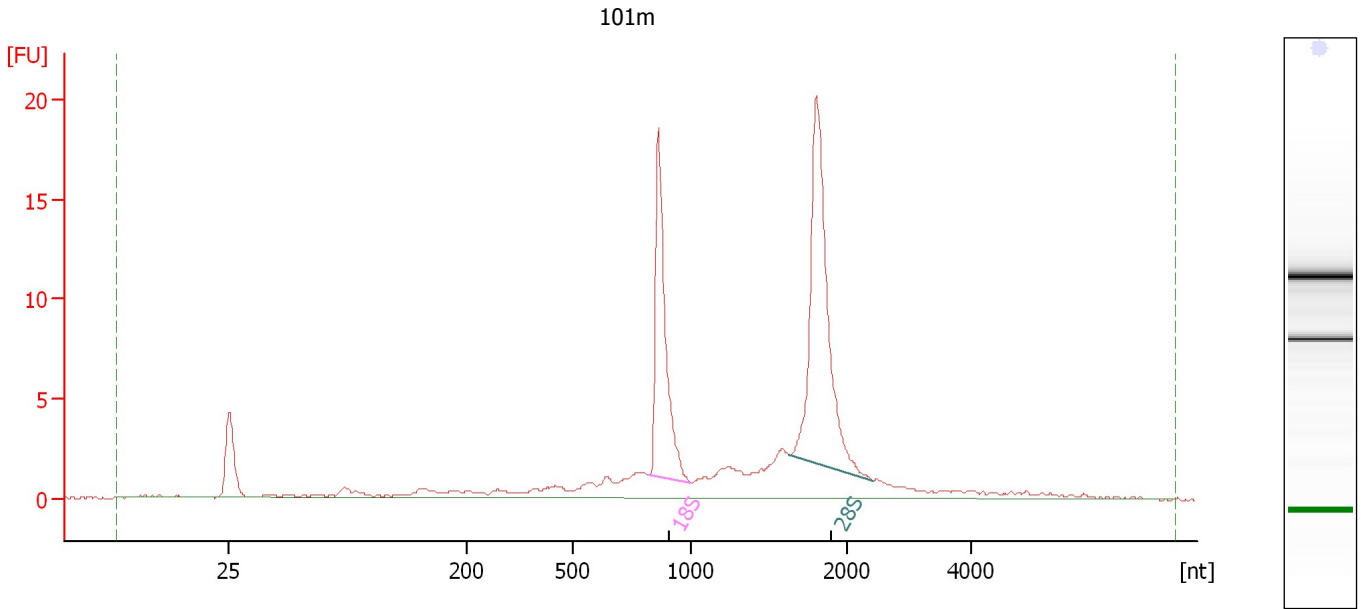
Fragment table for sample 9 : 91

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	535	631	2.9	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 101m

RNA Area: 104.7 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 125 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.90

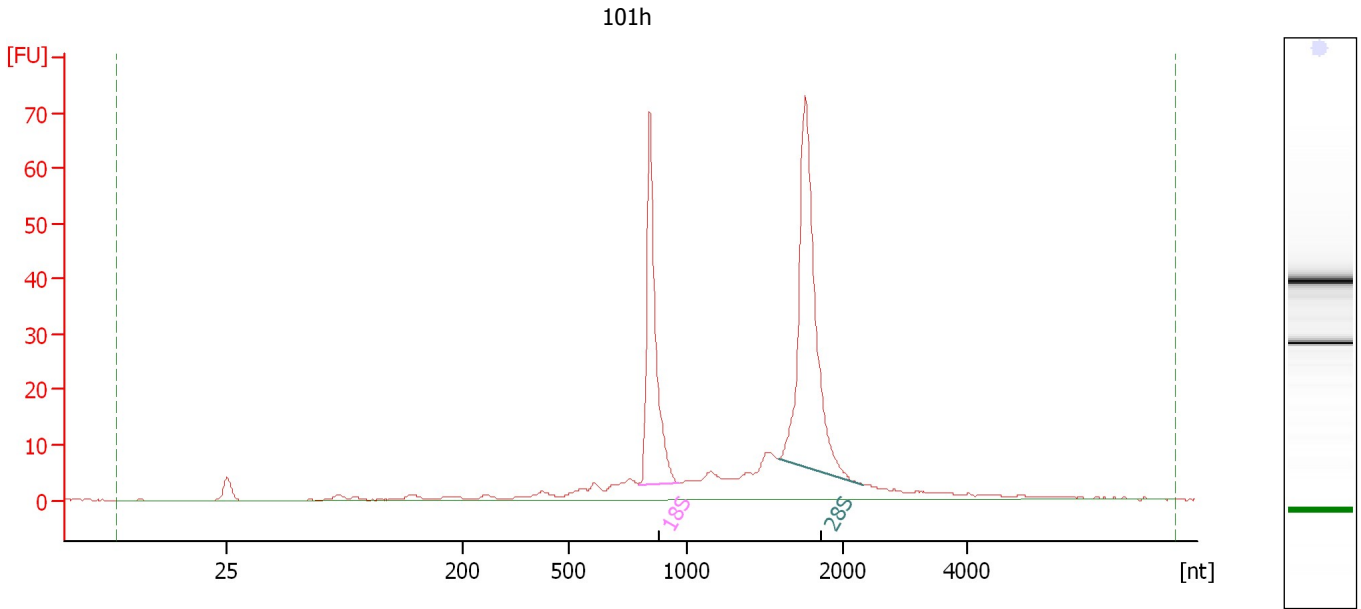
Fragment table for sample 10 : 101m

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	823	1,007	19.9	19.0
28S	1,628	2,404	32.0	30.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 101h

RNA Area:	333.7	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	397 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.40

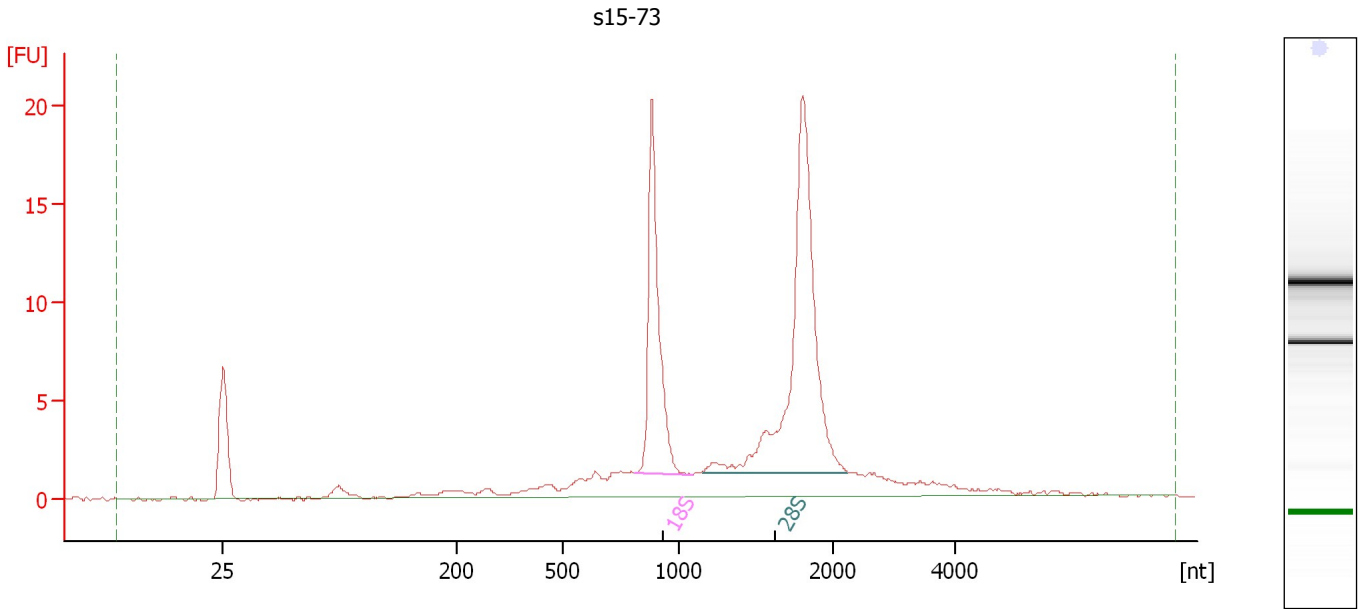
Fragment table for sample 11 : 101h

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	794	967	72.0	21.6
28S	1,594	2,342	111.5	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : s15-73

RNA Area:	114.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.30

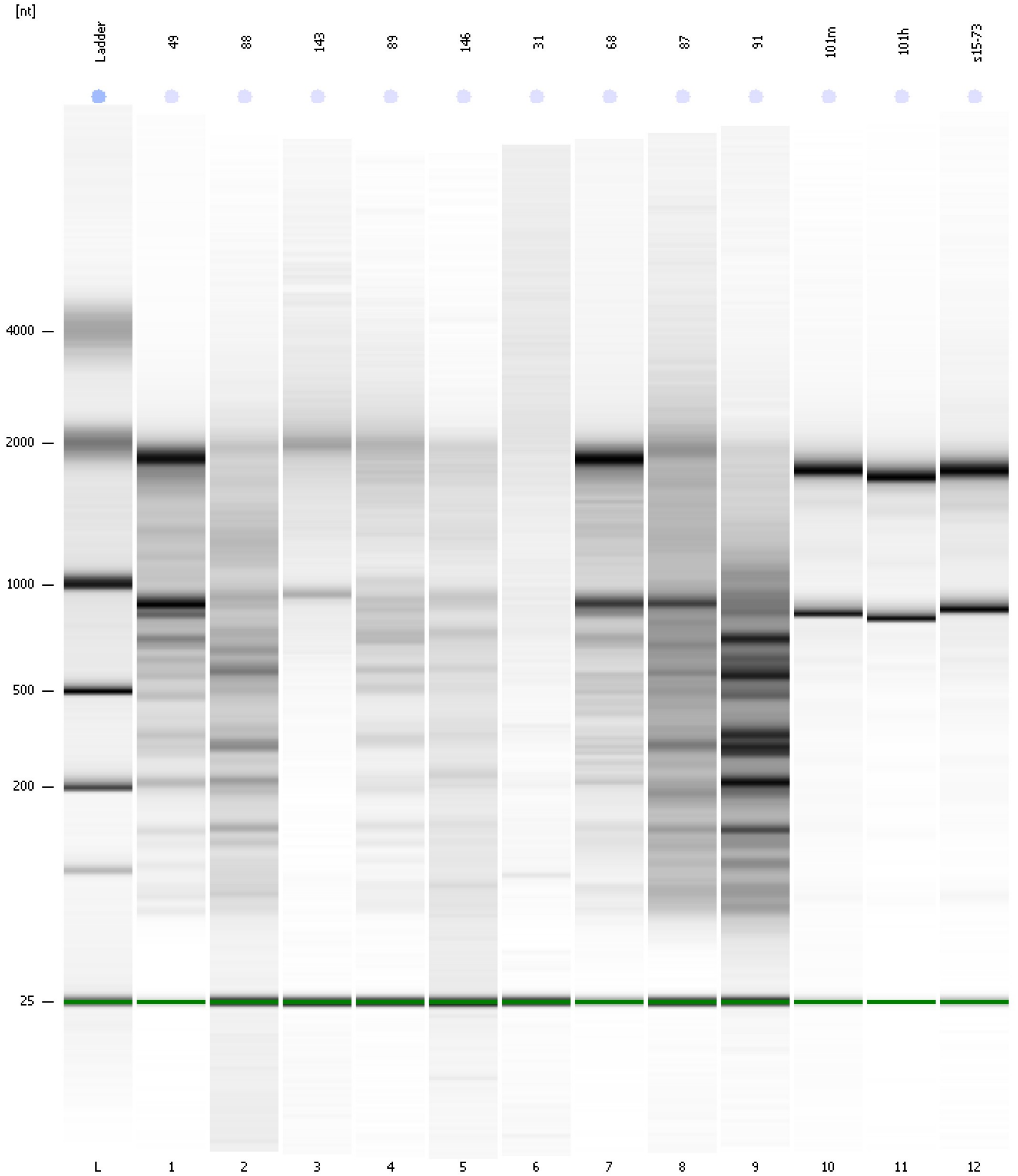
Fragment table for sample 12 : s15-73

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	813	1,092	23.6	20.6
28S	1,161	2,235	44.0	38.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_001.xad

Created: 6/30/2017 12:19:24 PM
Modified: 6/30/2017 12:43:11 PM

Curves

Standard Curve

