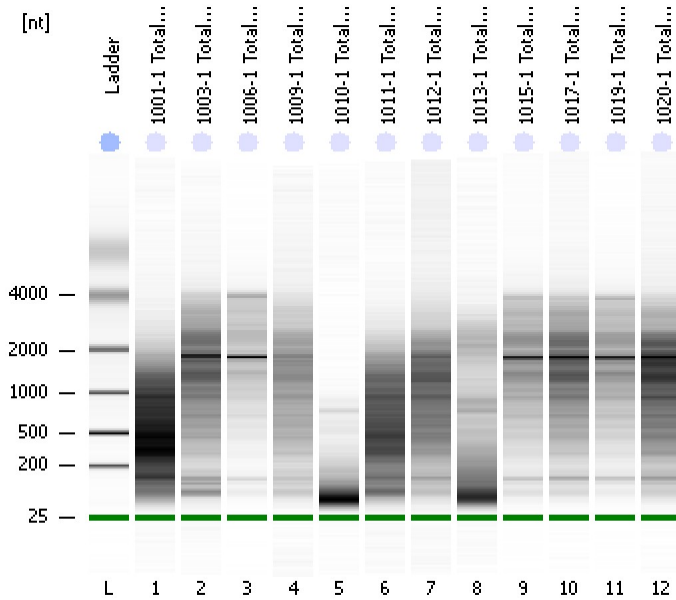


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

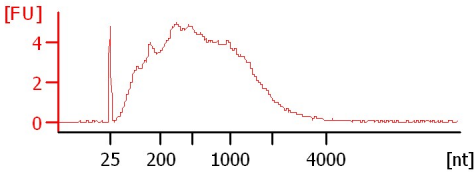
Assay Information:

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.

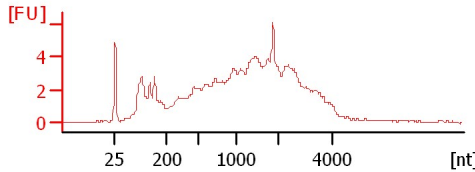
Chip Information:

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

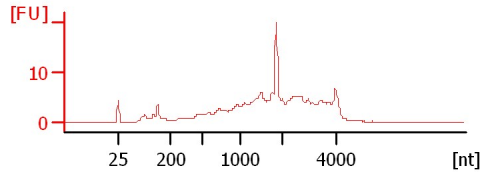
1001-1 Total RNA 1:2
RIN: 2



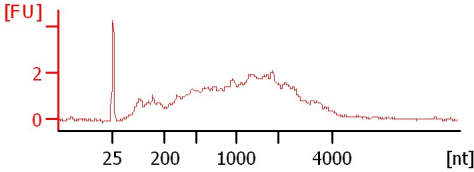
1003-1 Total RNA 1:3
RIN: 2.50



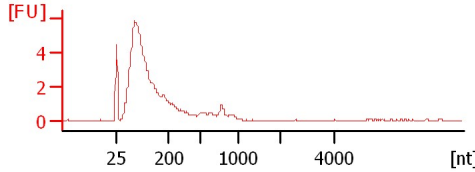
1006-1 Total RNA 1:5
RIN: 4.90



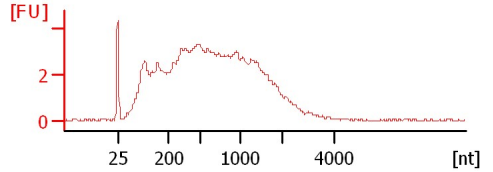
1009-1 Total RNA
RIN: 3.70



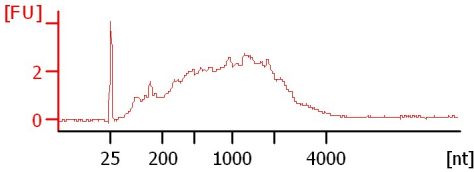
1010-1 Total RNA
RIN: 2.50



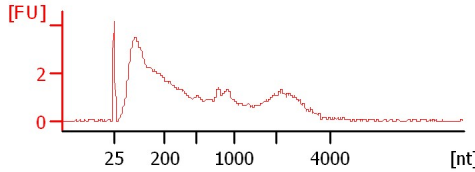
1011-1 Total RNA 1:2
RIN: 2.10



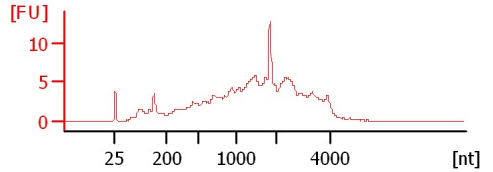
1012-1 Total RNA 1:2
RIN: 2.70



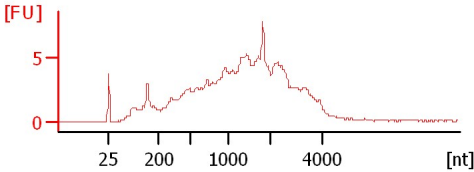
1013-1 Total RNA
RIN: 2.40



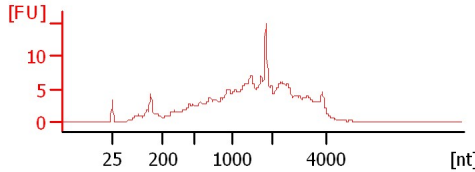
1015-1 Total RNA 1:3
RIN: 3.70



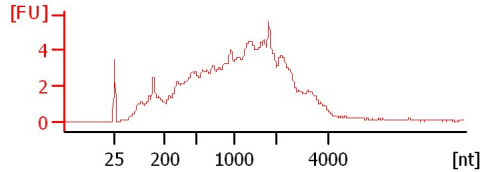
1017-1 Total RNA 1:2
RIN: 3.10



1019-1 Total RNA 1:2
RIN: 4



1020-1 Total RNA
RIN: 2.70



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1001-1 Total RNA 1:2		✓	RIN:2	
1003-1 Total RNA 1:3		✓	RIN: 2.50	
1006-1 Total RNA 1:5		✓	RIN: 4.90	
1009-1 Total RNA		✓	RIN: 3.70	
1010-1 Total RNA		✓	RIN: 2.50	
1011-1 Total RNA 1:2		✓	RIN: 2.10	
1012-1 Total RNA 1:2		✓	RIN: 2.70	
1013-1 Total RNA		✓	RIN: 2.40	
1015-1 Total RNA 1:3		✓	RIN: 3.70	
1017-1 Total RNA 1:2		✓	RIN: 3.10	
1019-1 Total RNA 1:2		✓	RIN:4	
1020-1 Total RNA		✓	RIN: 2.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 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

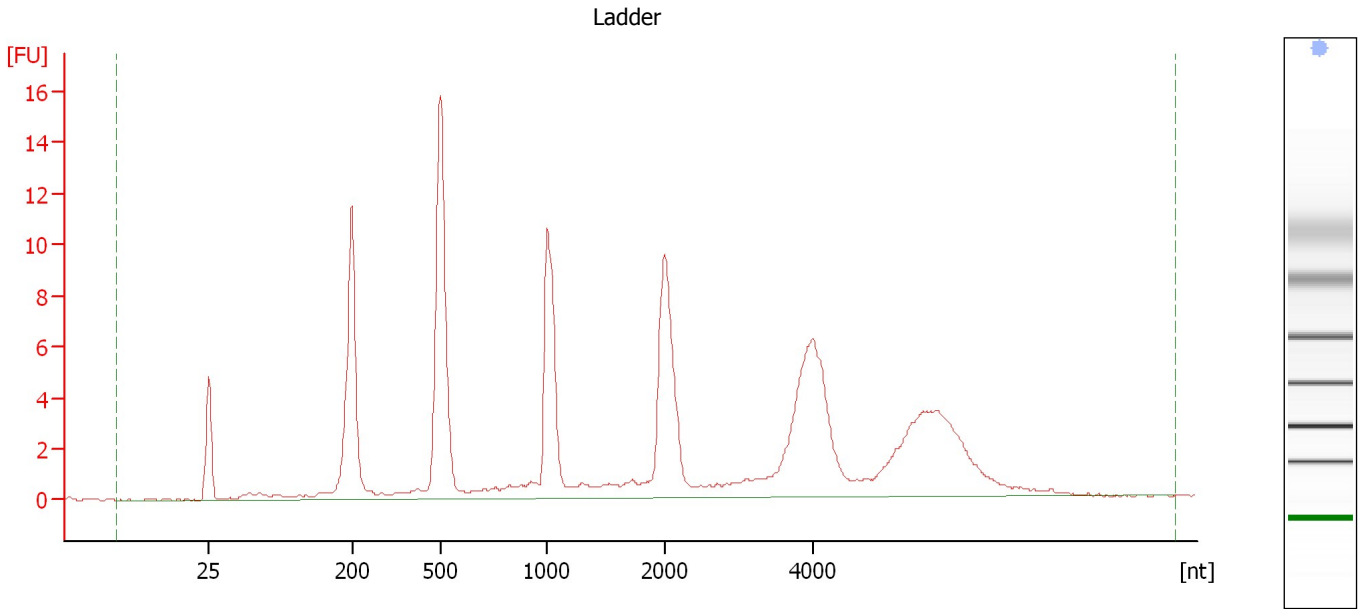
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary



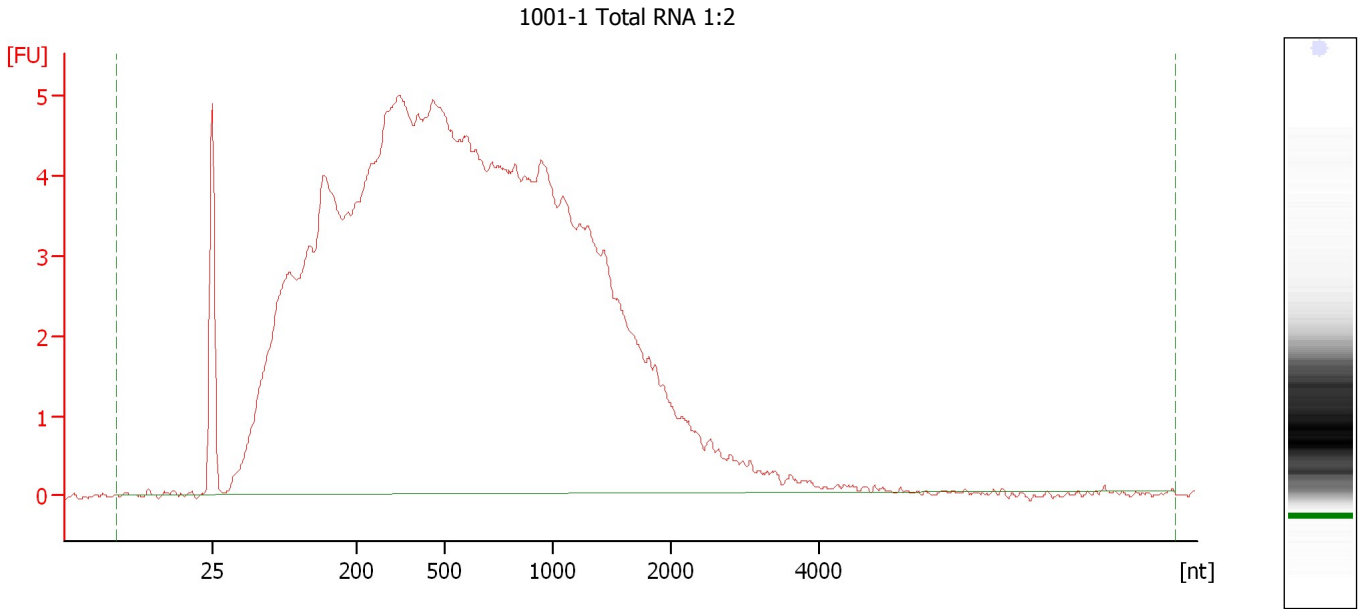
Overall Results for Ladder

RNA Area:	136.6	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\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



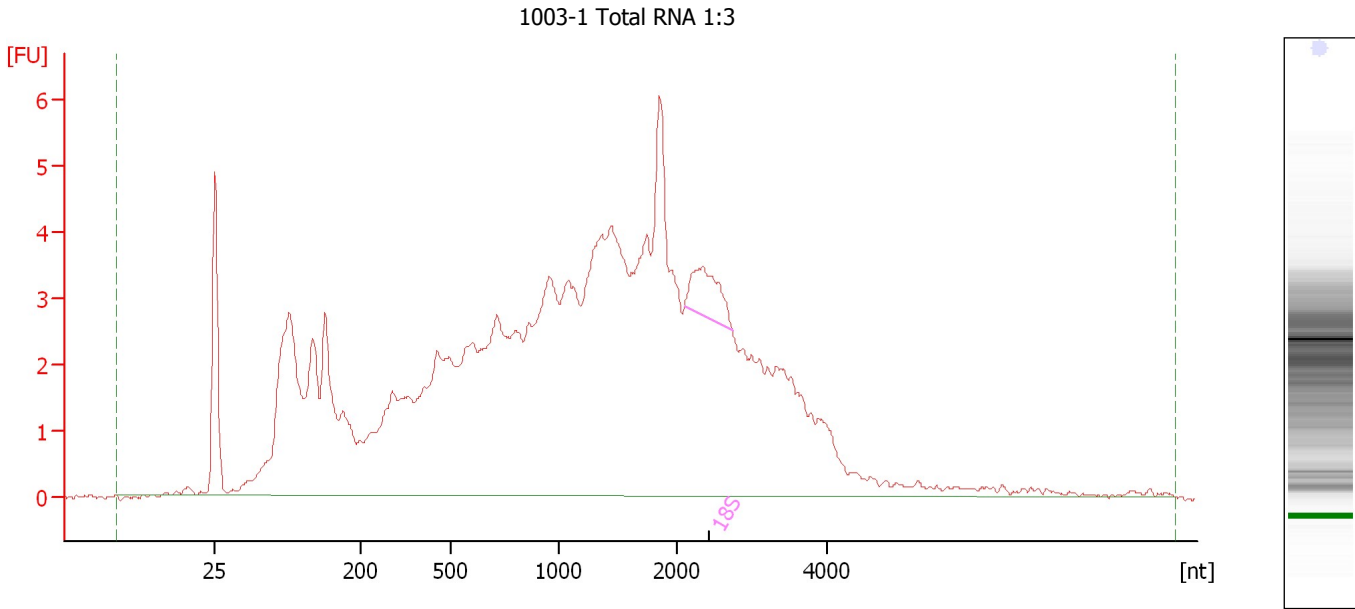
Overall Results for sample 1 : 1001-1 Total RNA 1:2

RNA Area:	204.1	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	224 ng/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1003-1 Total RNA 1:3

RNA Area:	161.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	178 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

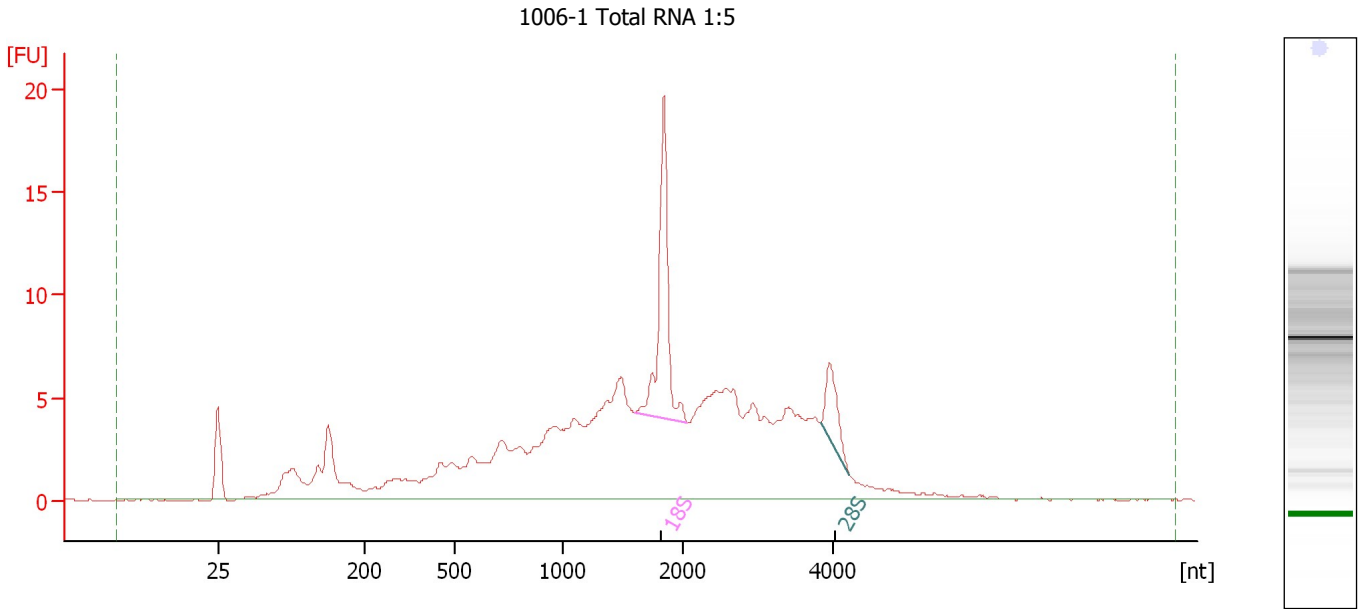
Fragment table for sample 2 : 1003-1 Total RNA 1:3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,108	2,747	2.4	1.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1006-1 Total RNA 1:5

RNA Area: 207.8 RNA Integrity Number (RIN): 4.9 (B.02.08)
RNA Concentration: 228 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 4.90

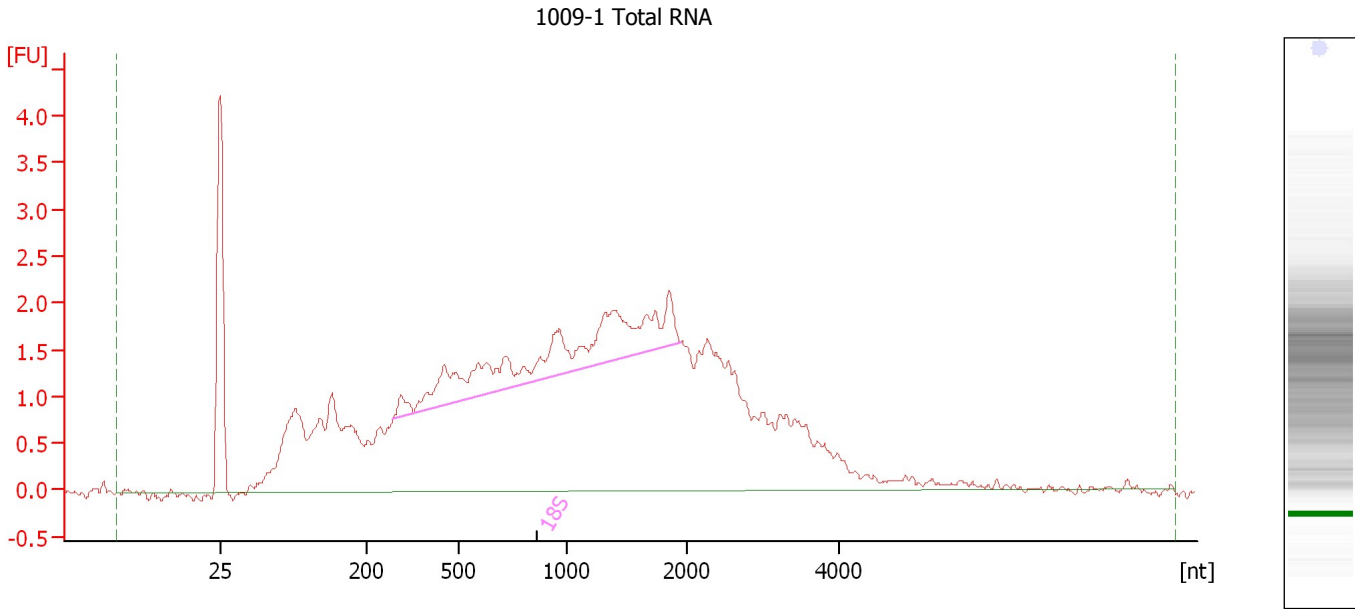
Fragment table for sample 3 : 1006-1 Total RNA 1:5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	2,055	16.3	7.8
28S	3,820	4,216	4.5	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1009-1 Total RNA

RNA Area:	78.6	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	86 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

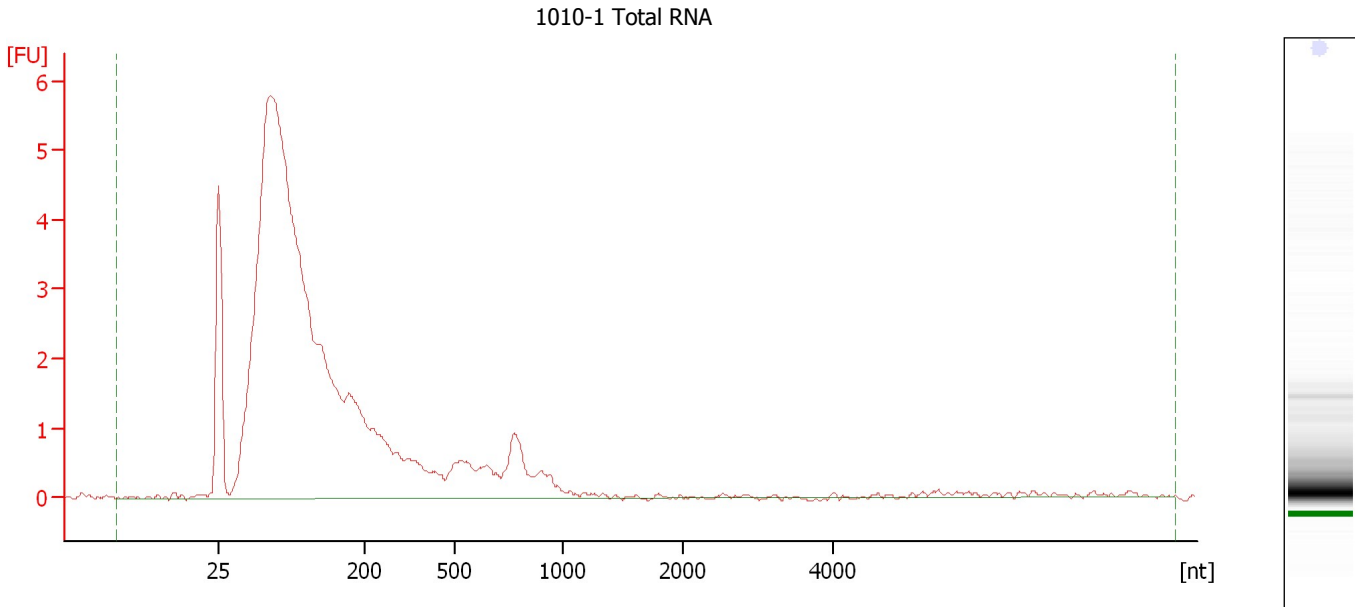
Fragment table for sample 4 : 1009-1 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	287	1,947	8.9	11.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1010-1 Total RNA

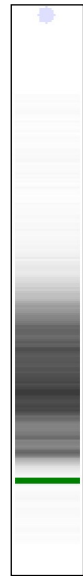
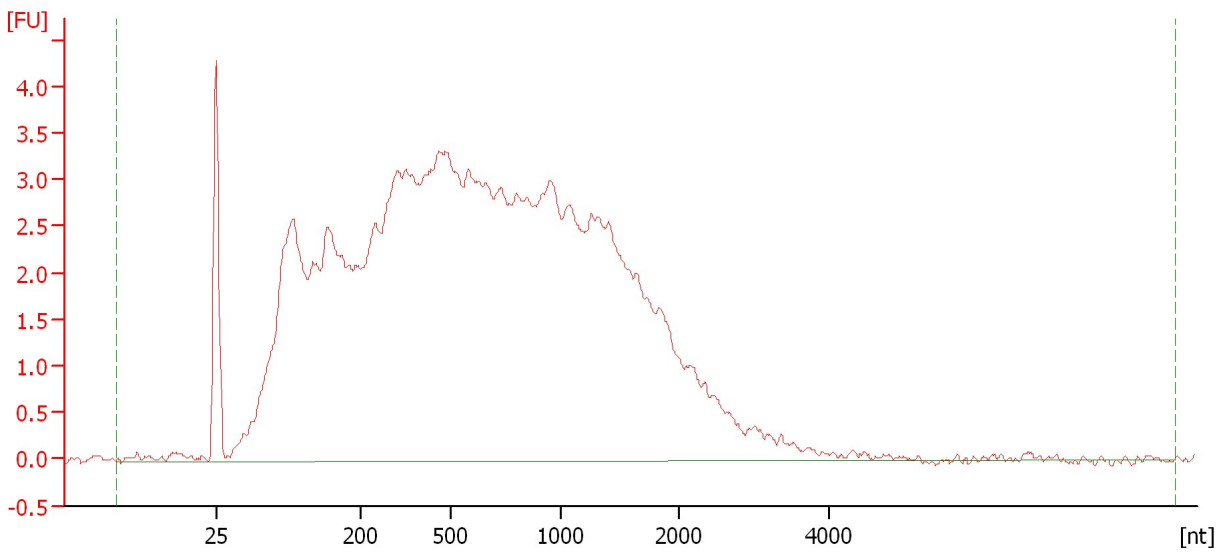
RNA Area:	77.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...

1011-1 Total RNA 1:2



Overall Results for sample 6 : 1011-1 Total RNA 1:2

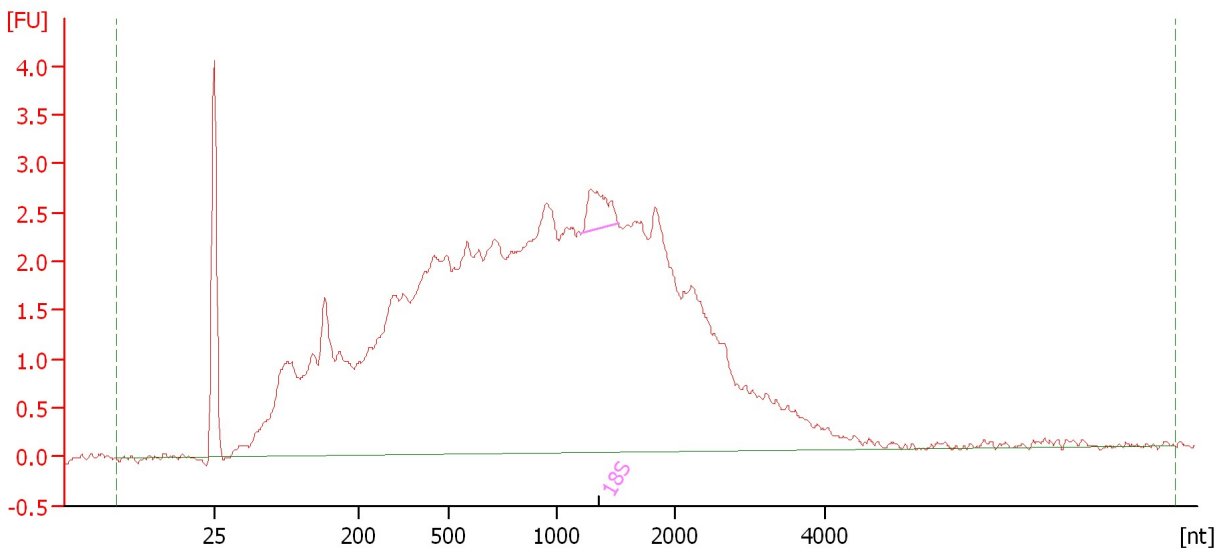
RNA Area:	146.3	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	161 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...

1012-1 Total RNA 1:2



Overall Results for sample 7 : 1012-1 Total RNA 1:2

RNA Area: 106.6 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 117 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

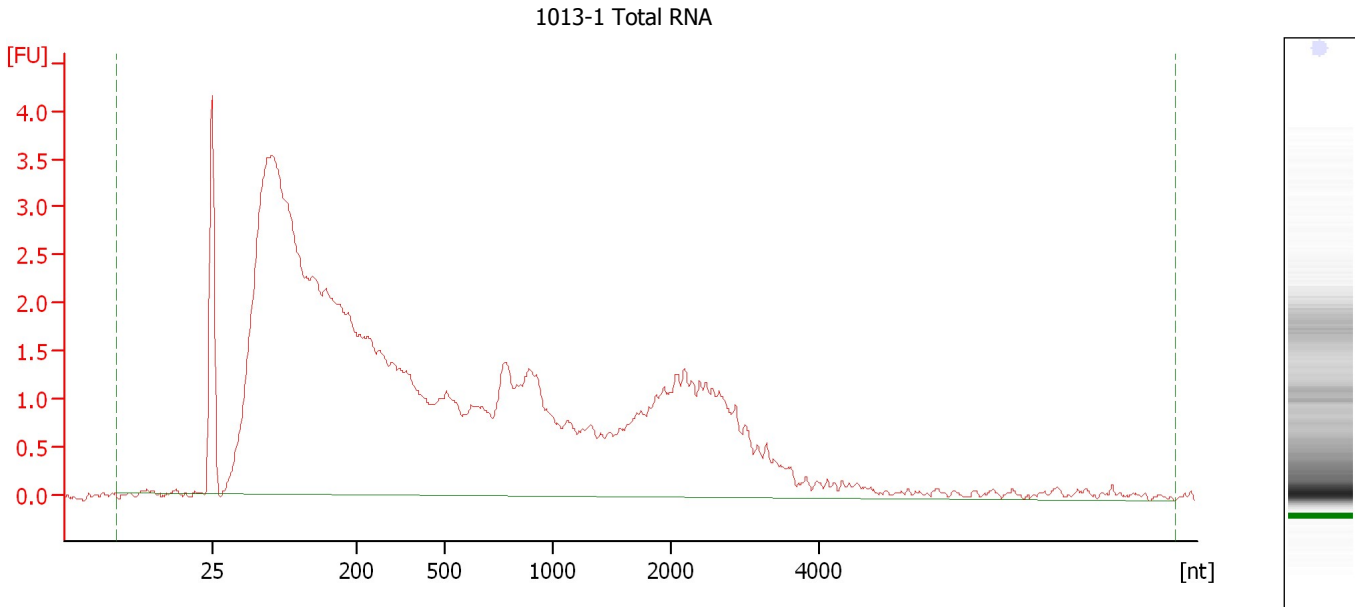
Fragment table for sample 7 : 1012-1 Total RNA 1:2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,214	1,523	1.1	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



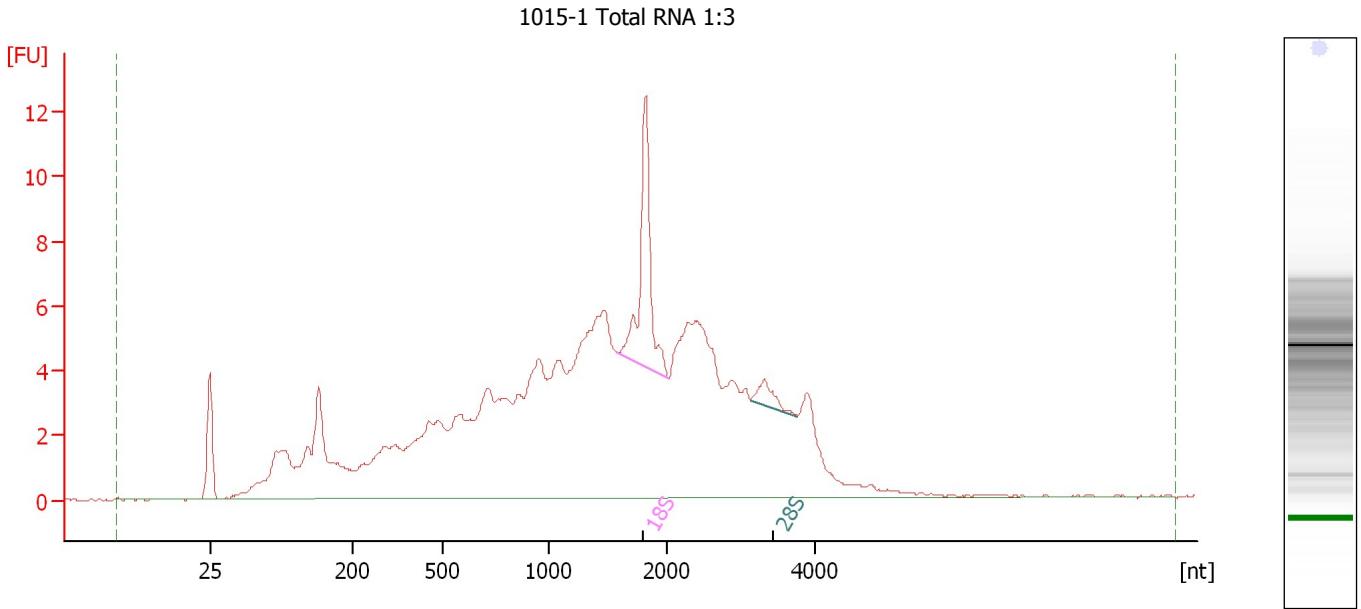
Overall Results for sample 8 : 1013-1 Total RNA

RNA Area:	100.8	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	111 ng/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1015-1 Total RNA 1:3

RNA Area: 207.7 RNA Integrity Number (RIN): 3.7 (B.02.08)
RNA Concentration: 228 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 3.70

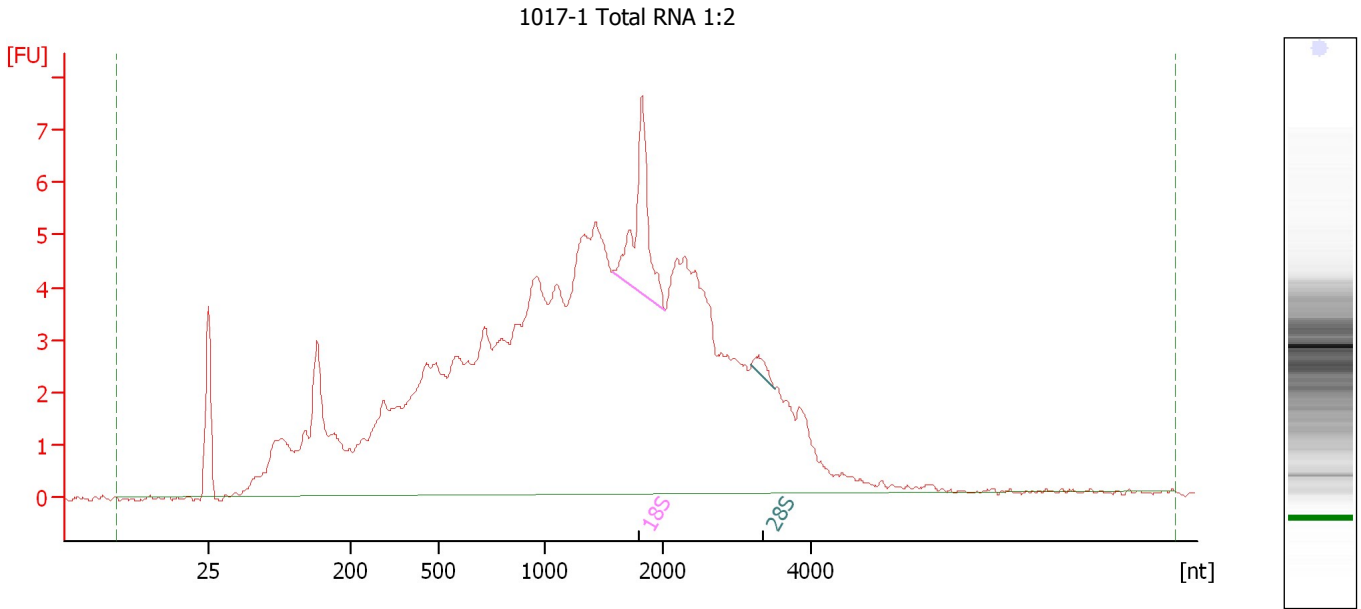
Fragment table for sample 9 : 1015-1 Total RNA 1:3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	2,030	10.0	4.8
28S	3,135	3,767	1.3	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1017-1 Total RNA 1:2

RNA Area: 180.1 RNA Integrity Number (RIN): 3.1 (B.02.08)
RNA Concentration: 198 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 3.10

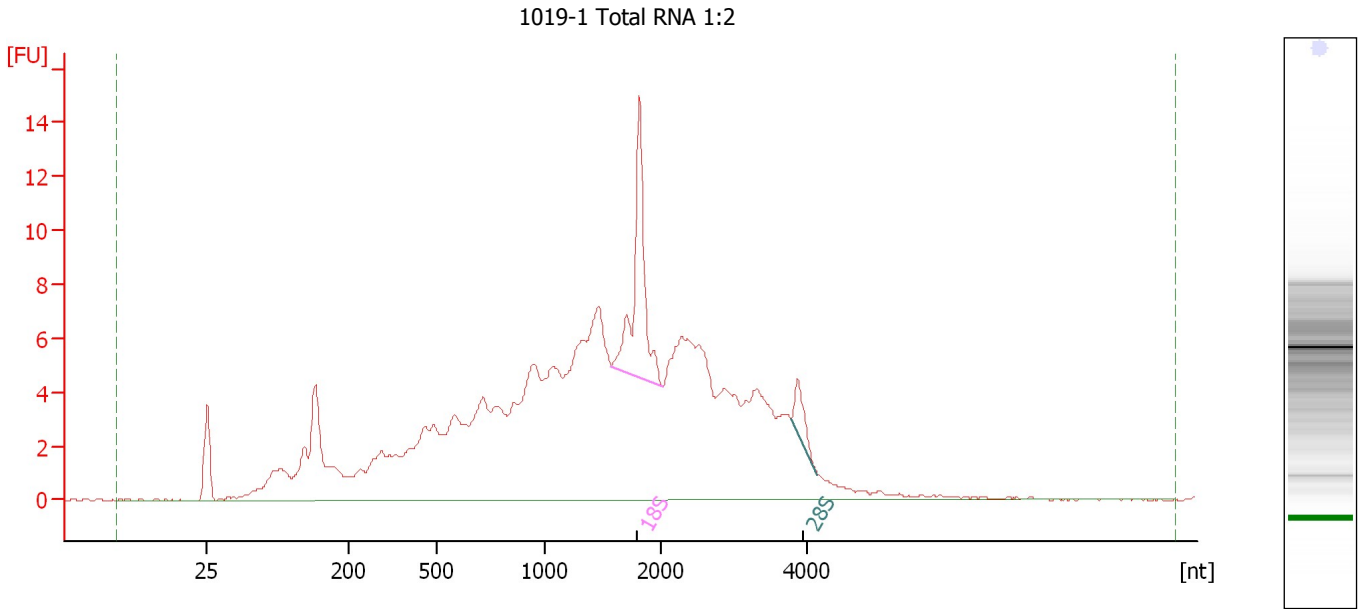
Fragment table for sample 10 : 1017-1 Total RNA 1:2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	2,027	5.6	3.1
28S	3,209	3,512	0.4	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1019-1 Total RNA 1:2

RNA Area: 236.3 RNA Integrity Number (RIN): 4 (B.02.08)
RNA Concentration: 260 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN:4

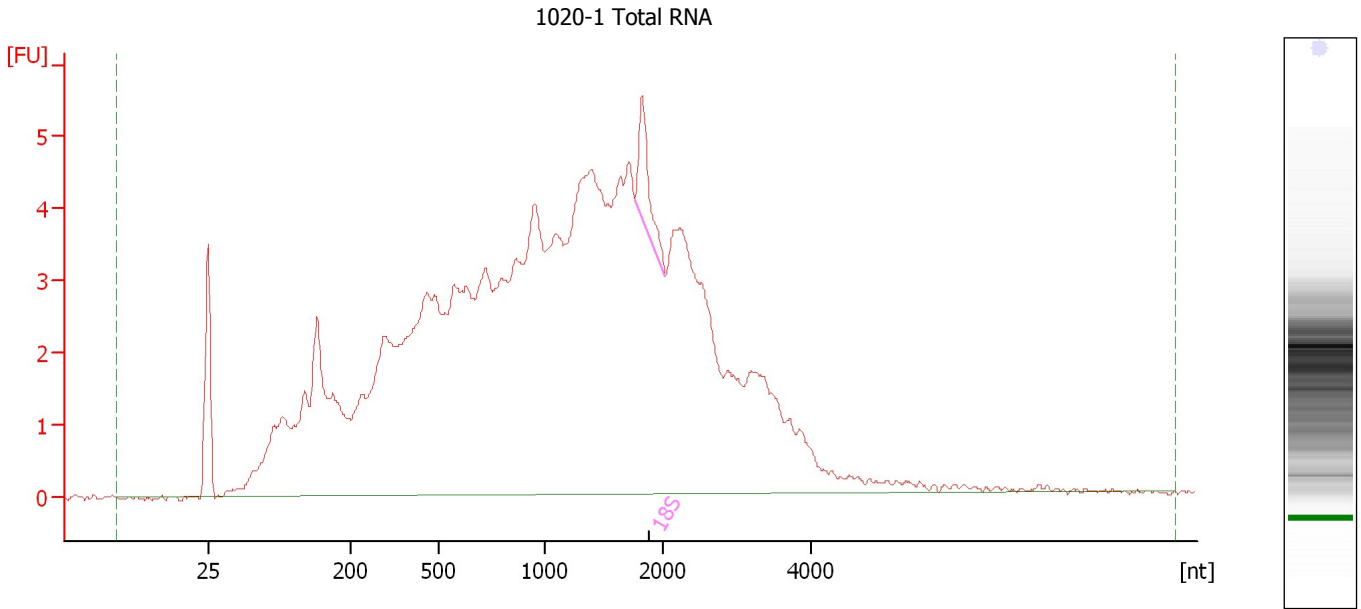
Fragment table for sample 11 : 1019-1 Total RNA 1:2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	2,025	13.0	5.5
28S	3,774	4,135	1.9	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 1020-1 Total RNA

RNA Area: 169.8 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 186 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

Fragment table for sample 12 : 1020-1 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,760	2,041	2.1	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-30\2014-01-30_002.xad

Created: 1/30/2014 12:16:38 PM
Modified: 1/30/2014 12:40:30 PM

Gel Image

