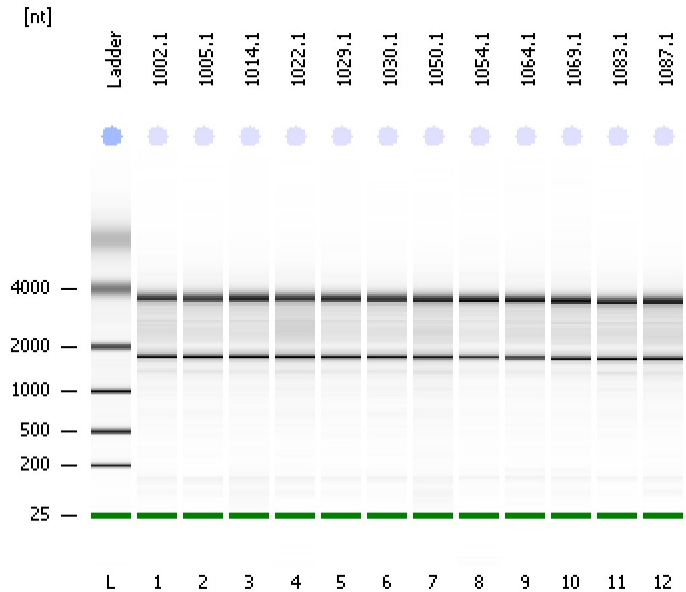


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

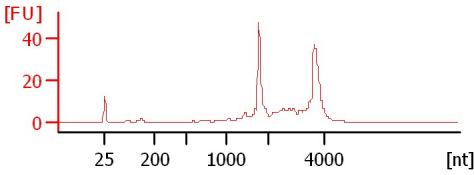
Assay Information:

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.

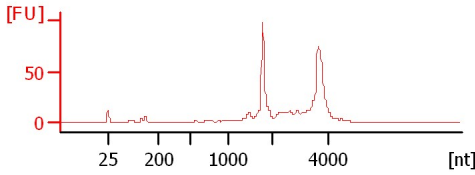
Chip Information:

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

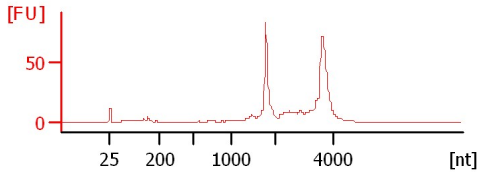
1002.1
conc total RNA
RIN: 8.90



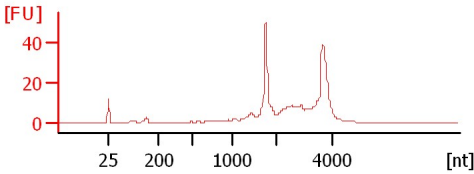
1005.1
conc total RNA
RIN: 8.70



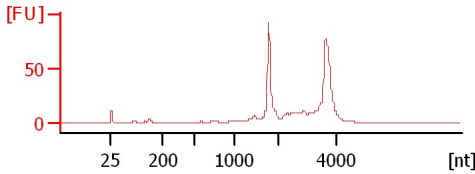
1014.1
conc total RNA
RIN: 9.10



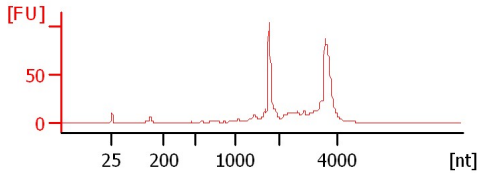
1022.1
conc total RNA
RIN: 8.70



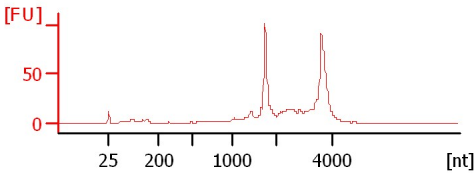
1029.1
conc total RNA
RIN: 9.10



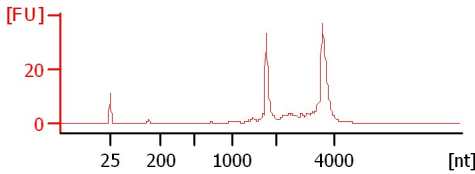
1030.1
conc total RNA
RIN: 9



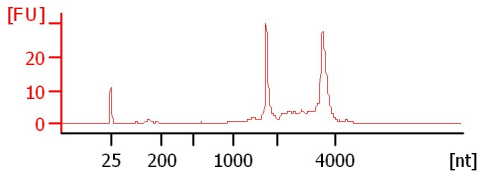
1050.1
conc total RNA
RIN: 8.40



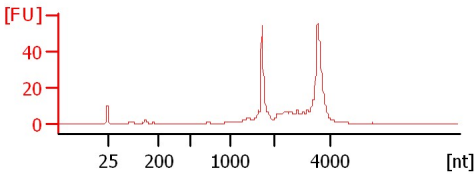
1054.1
conc total RNA
RIN: 9.50



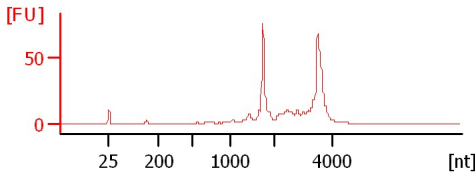
1064.1
conc total RNA
RIN: 9.10



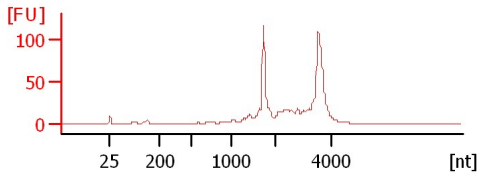
1069.1
conc total RNA
RIN: 9.30



1083.1
conc total RNA
RIN: 8.90



1087.1
conc total RNA
RIN: 8.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
 Modified: 6/10/2015 5:22:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1002.1	conc total RNA	✓	RIN: 8.90	
1005.1	conc total RNA	✓	RIN: 8.70	
1014.1	conc total RNA	✓	RIN: 9.10	
1022.1	conc total RNA	✓	RIN: 8.70	
1029.1	conc total RNA	✓	RIN: 9.10	
1030.1	conc total RNA	✓	RIN:9	
1050.1	conc total RNA	✓	RIN: 8.40	
1054.1	conc total RNA	✓	RIN: 9.50	
1064.1	conc total RNA	✓	RIN: 9.10	
1069.1	conc total RNA	✓	RIN: 9.30	
1083.1	conc total RNA	✓	RIN: 8.90	
1087.1	conc total RNA	✓	RIN: 8.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 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/ 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

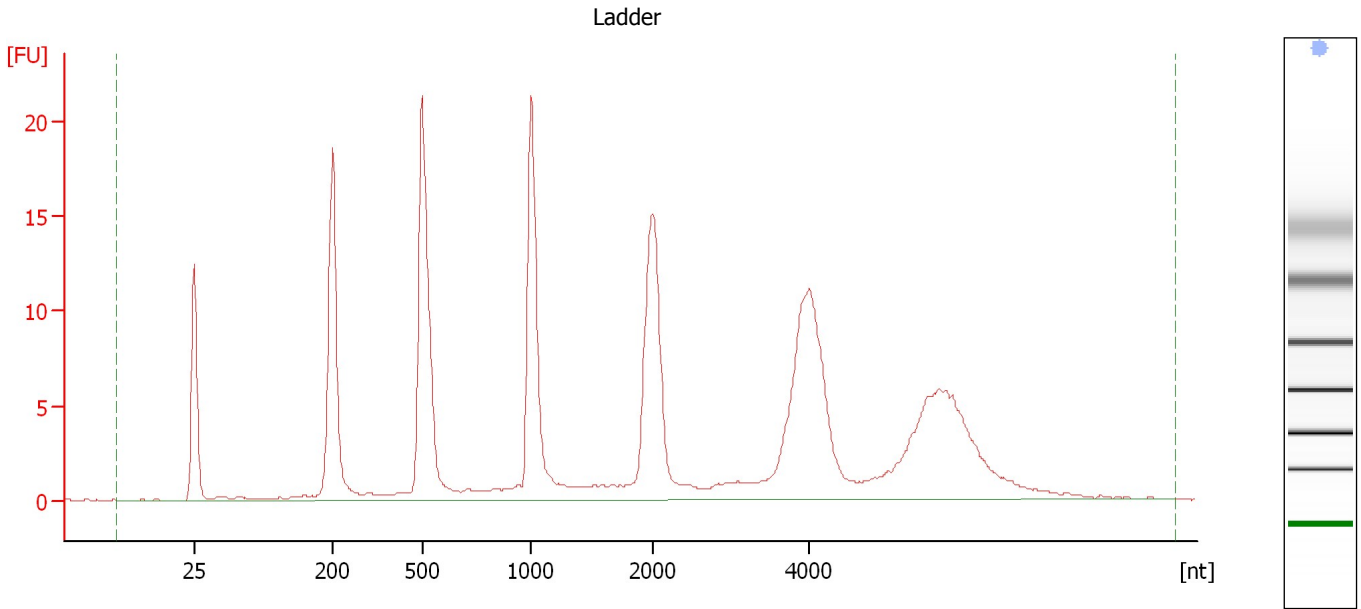
Ladder

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\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary



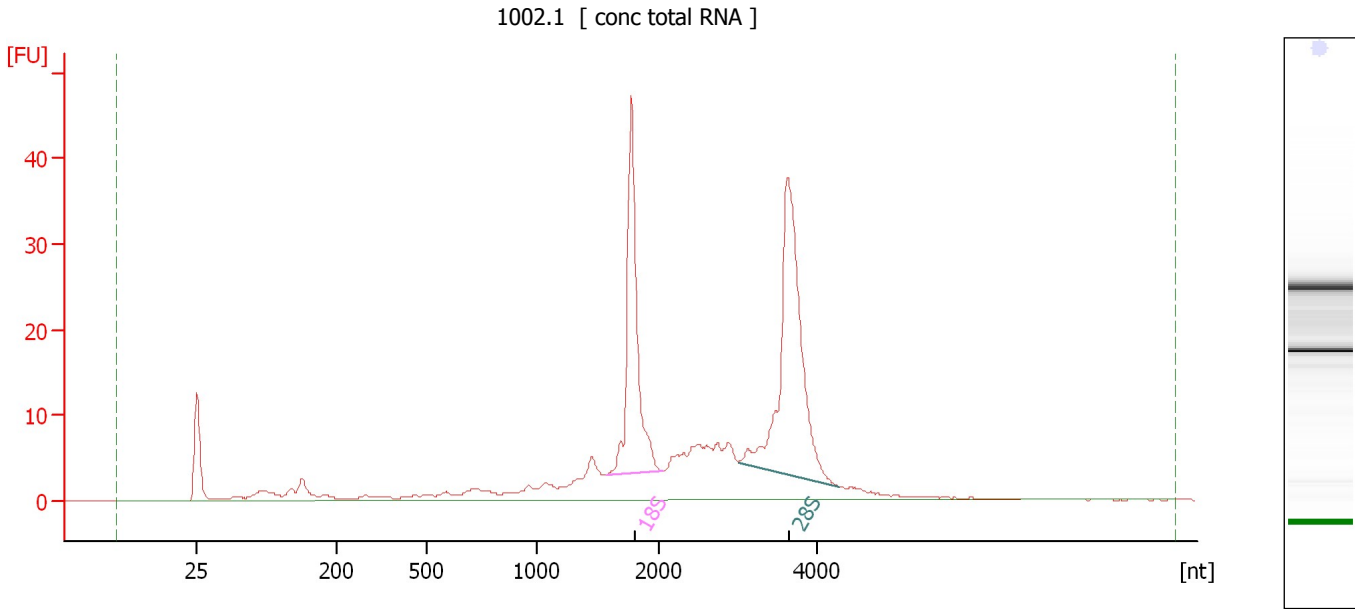
Overall Results for Ladder

RNA Area:	218.5	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\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
 Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1002.1

RNA Area:	278.4	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	191 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.90

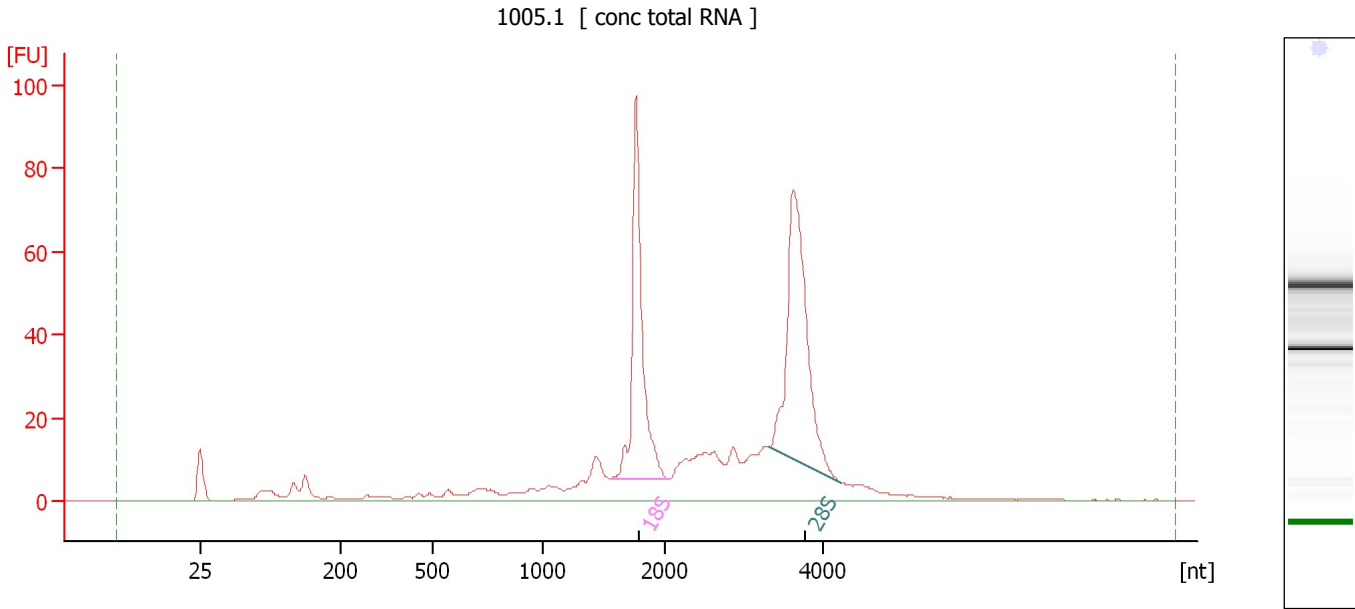
Fragment table for sample 1 : 1002.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,056	52.1	18.7
28S	3,016	4,287	75.1	27.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1005.1

RNA Area:	562.4	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	386 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.70

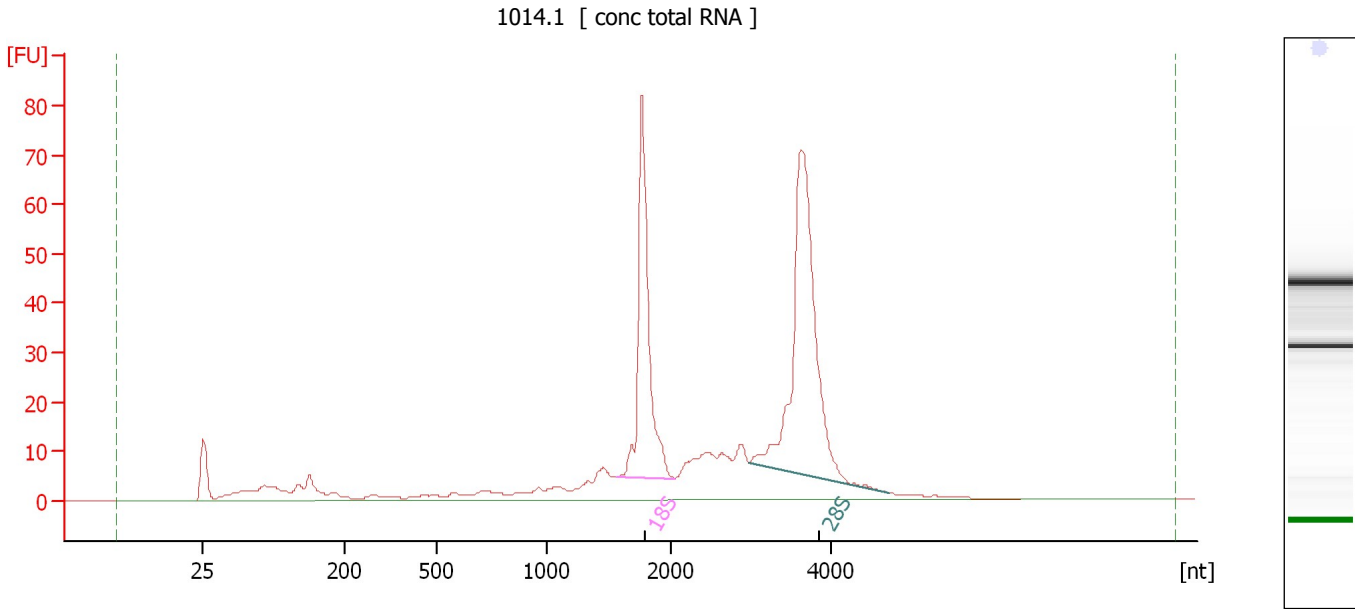
Fragment table for sample 2 : 1005.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	2,046	112.0	19.9
28S	3,321	4,208	134.7	24.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1014.1

RNA Area:	495.6	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	340 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

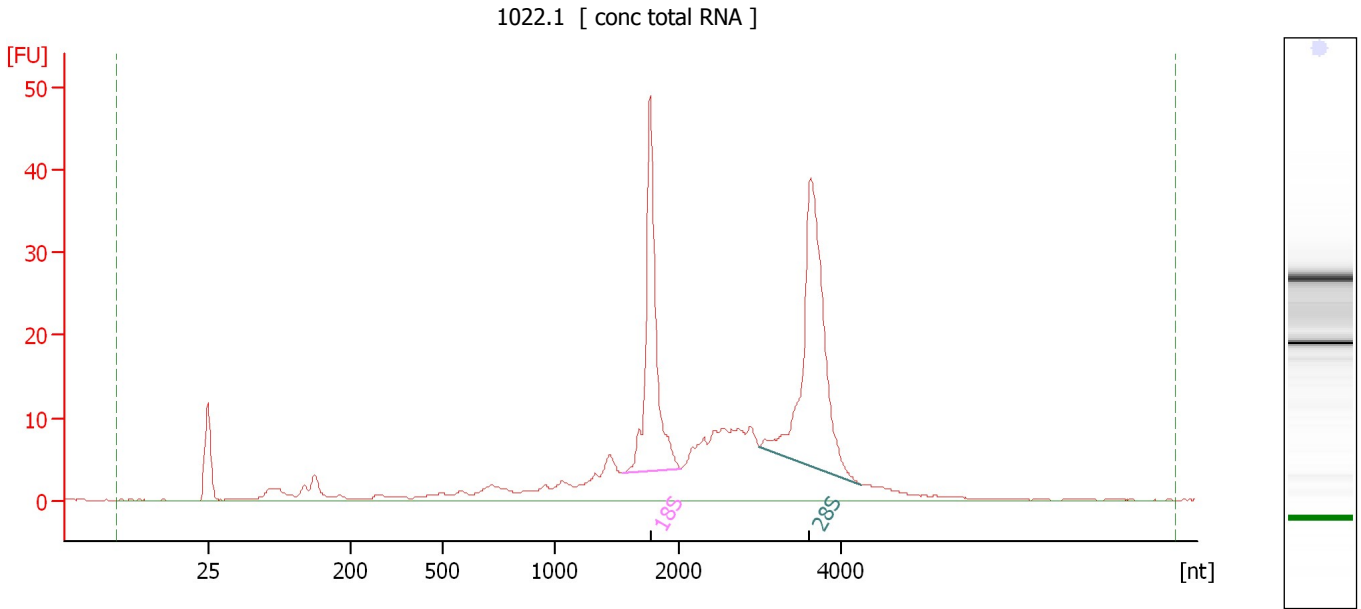
Fragment table for sample 3 : 1014.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	2,048	93.7	18.9
28S	2,982	4,717	151.7	30.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1022.1

RNA Area: 319.6 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 219 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.70

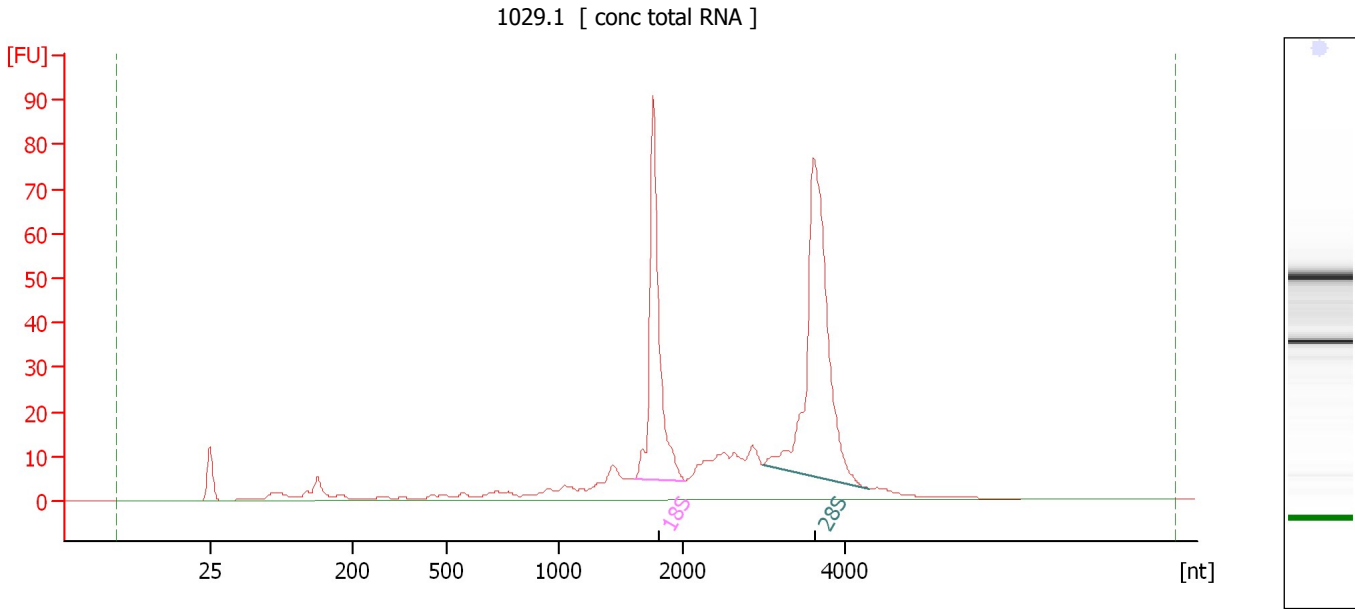
Fragment table for sample 4 : 1022.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,543	2,012	55.4	17.3
28S	2,991	4,248	77.4	24.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1029.1

RNA Area:	495.4	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	340 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

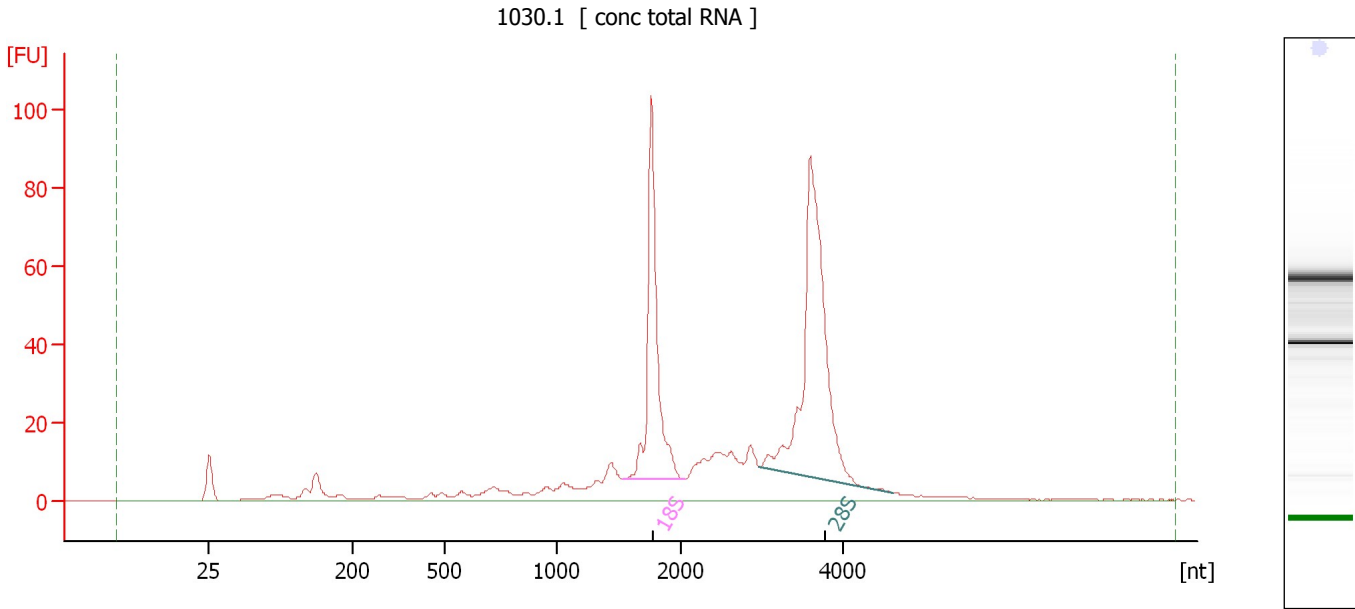
Fragment table for sample 5 : 1029.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,027	99.0	20.0
28S	2,976	4,280	155.5	31.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1030.1

RNA Area:	576.3	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	396 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:9

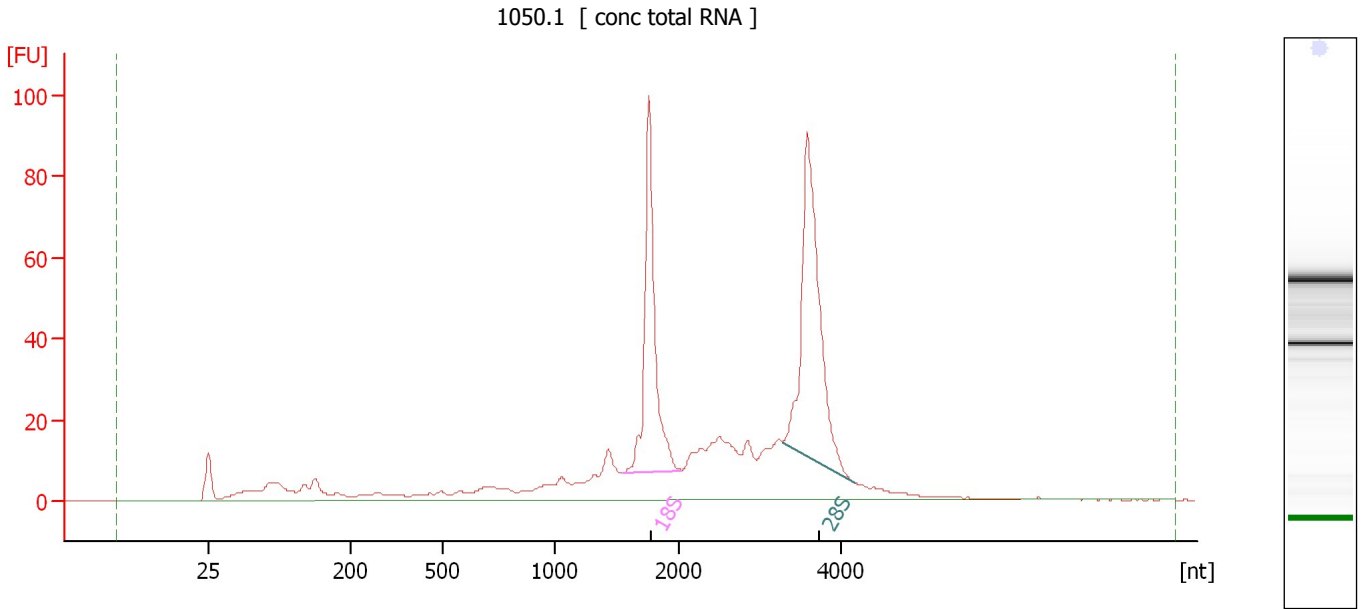
Fragment table for sample 6 : 1030.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	2,039	112.9	19.6
28S	2,963	4,614	179.5	31.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1050.1

RNA Area:	661.8	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	454 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.40

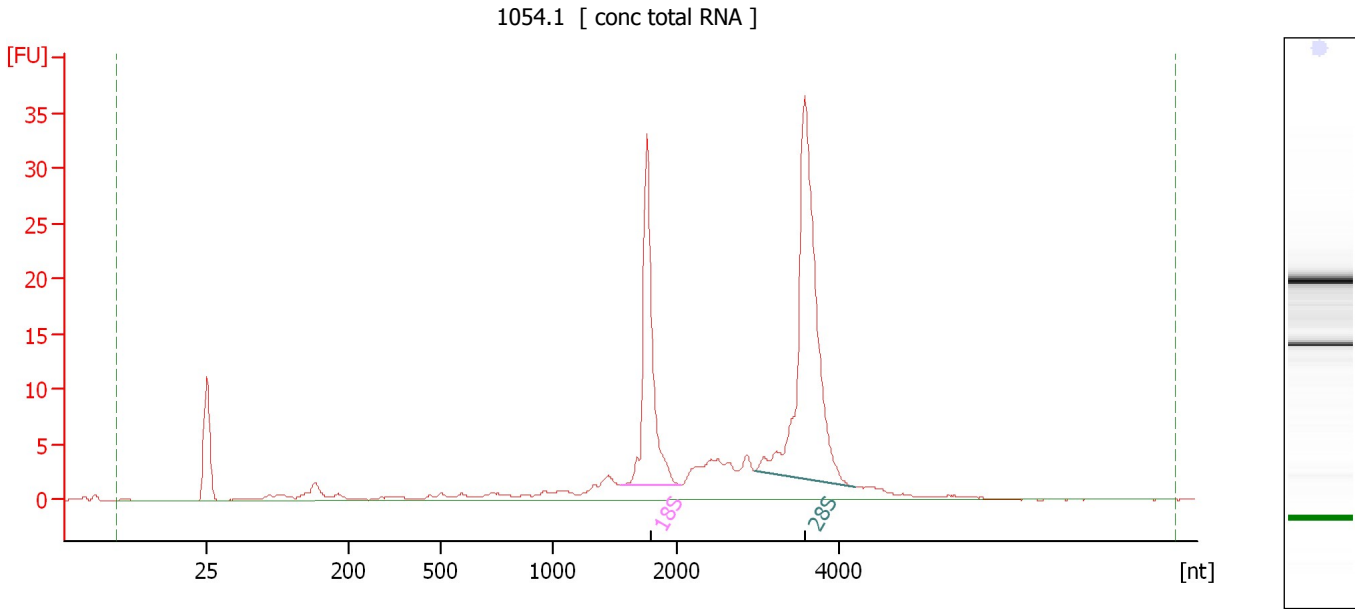
Fragment table for sample 7 : 1050.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,543	2,025	110.4	16.7
28S	3,282	4,169	145.6	22.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1054.1

RNA Area: 176.0 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 121 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.50

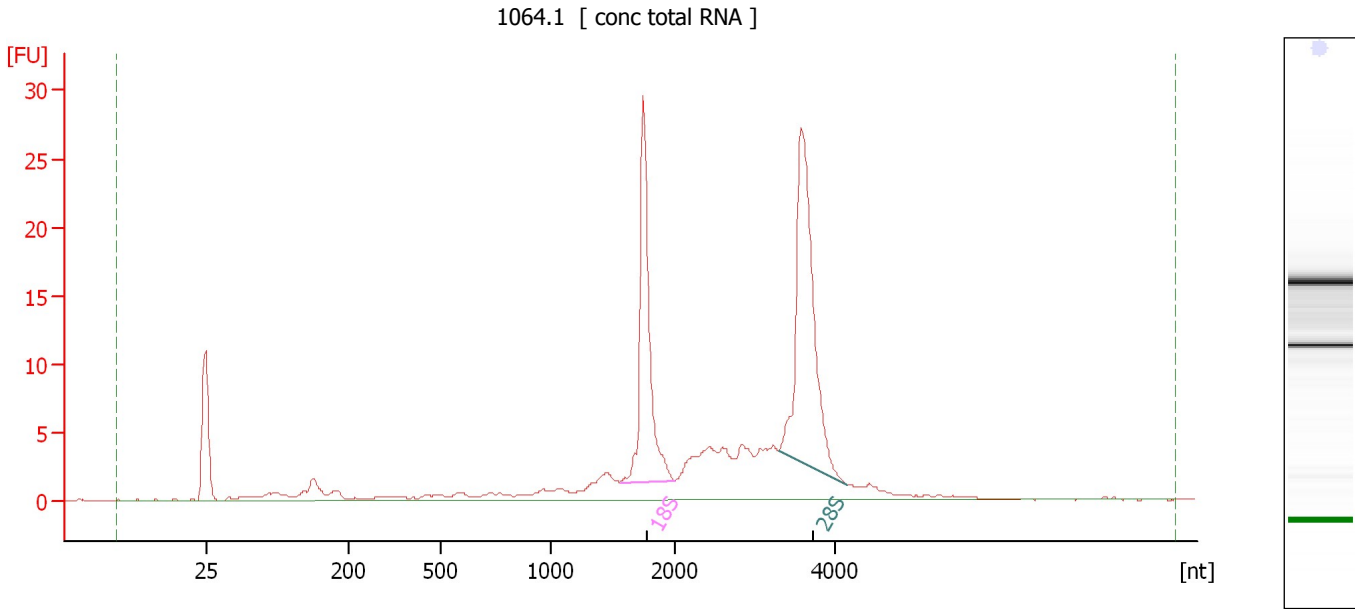
Fragment table for sample 8 : 1054.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	2,051	34.7	19.7
28S	2,966	4,199	64.4	36.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1064.1

RNA Area:	163.6	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.10

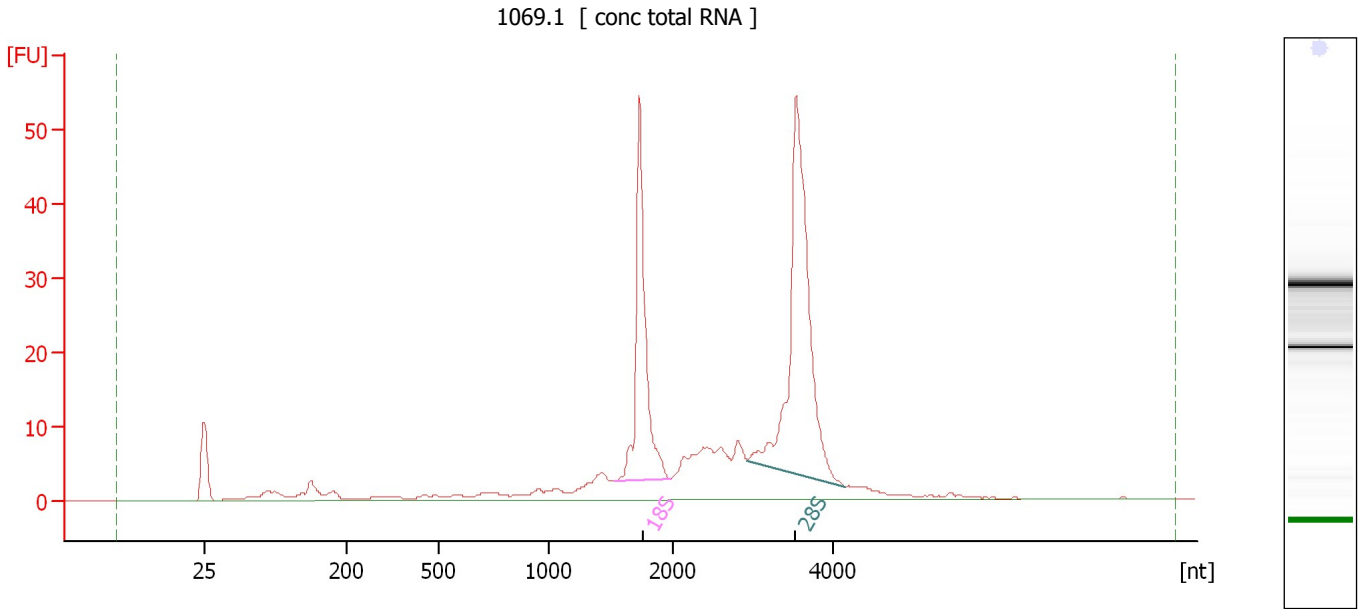
Fragment table for sample 9 : 1064.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,557	1,998	30.6	18.7
28S	3,286	4,136	43.7	26.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1069.1

RNA Area: 305.6 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 210 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.30

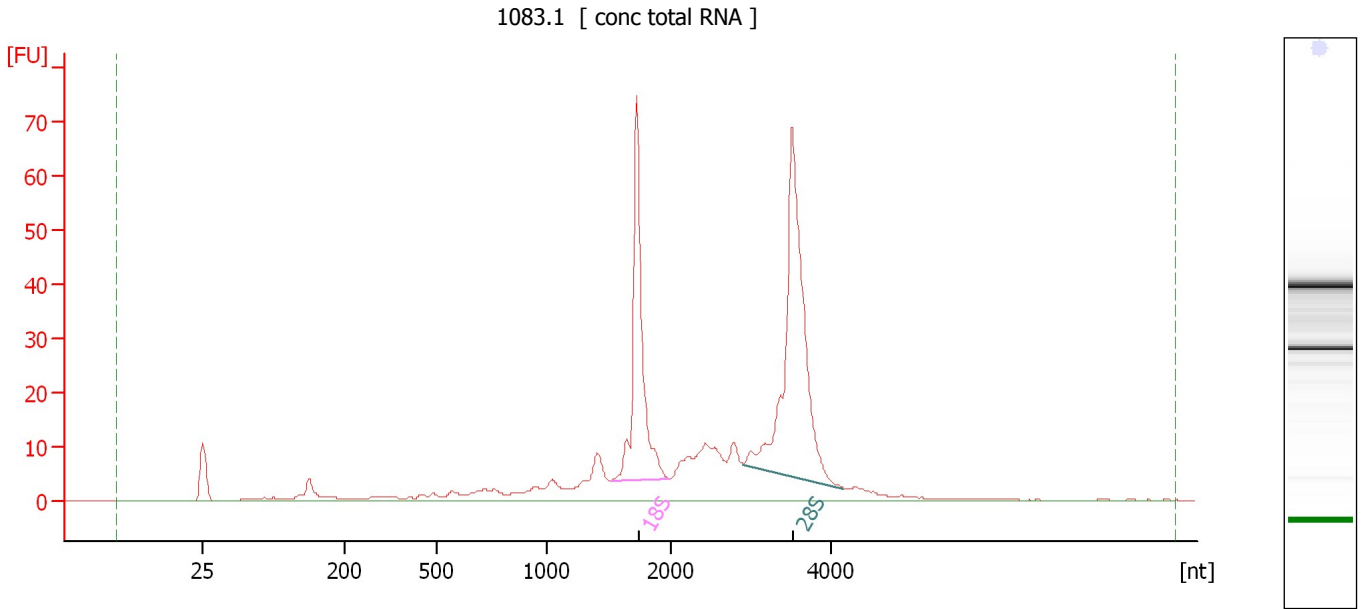
Fragment table for sample 10 : 1069.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,980	57.5	18.8
28S	2,928	4,140	99.0	32.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1083.1

RNA Area:	404.5	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	278 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

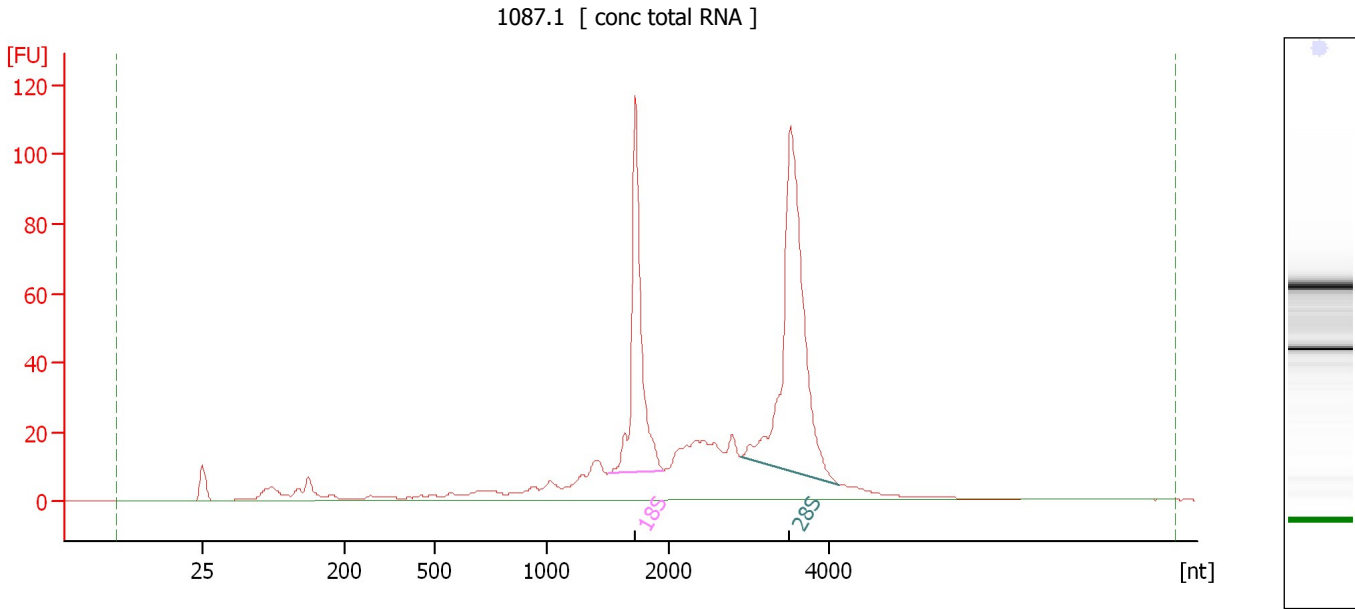
Fragment table for sample 11 : 1083.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,510	1,988	78.6	19.4
28S	2,902	4,157	124.4	30.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 1087.1

RNA Area: 733.8 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 504 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.90

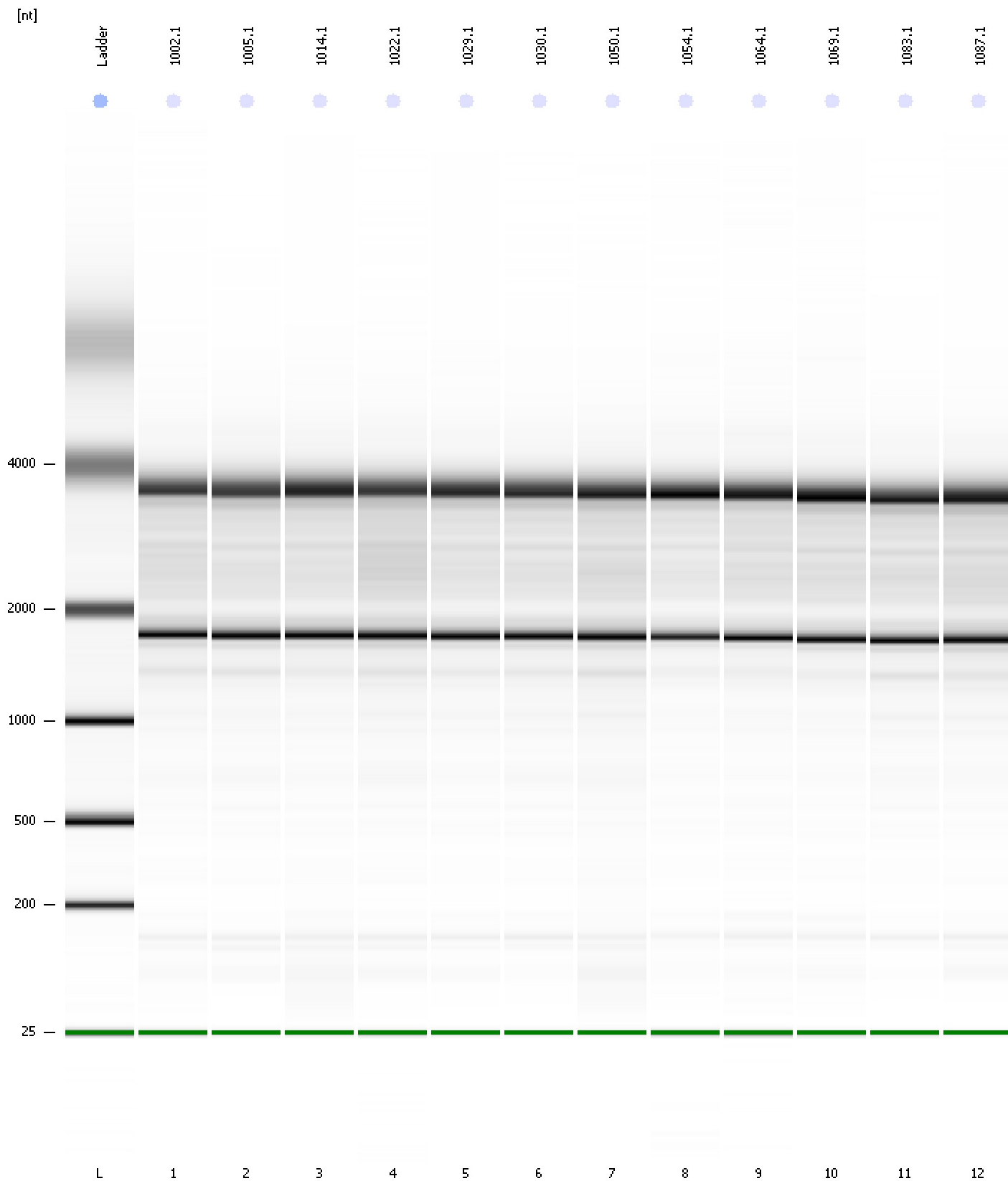
Fragment table for sample 12 : 1087.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,509	1,952	127.7	17.4
28S	2,903	4,134	213.8	29.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-10\2015-06-10_006.xad

Created: 6/10/2015 4:45:31 PM
Modified: 6/10/2015 5:22:30 PM

Curves

Standard Curve

