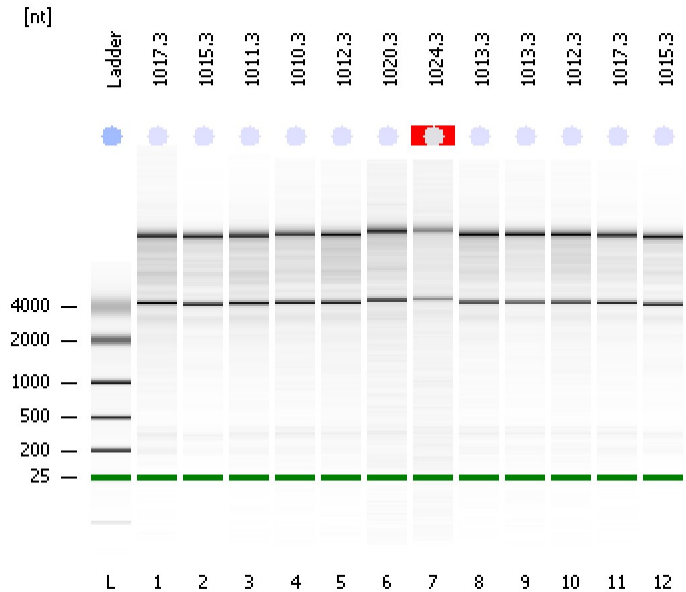


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
 Modified: 10/22/2014 11:48:08 AM

Electrophoresis File Run Summary



Instrument Information:

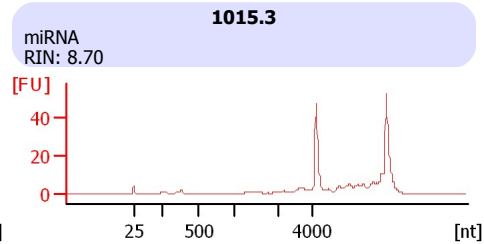
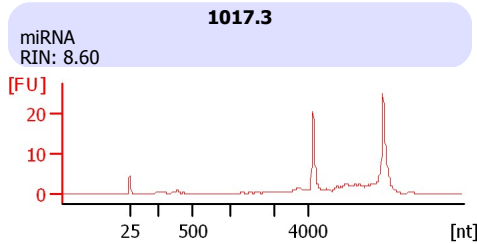
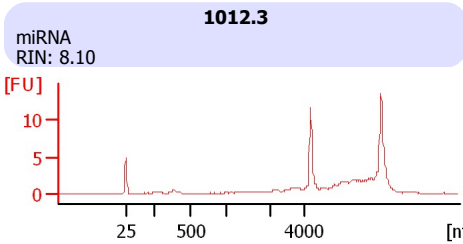
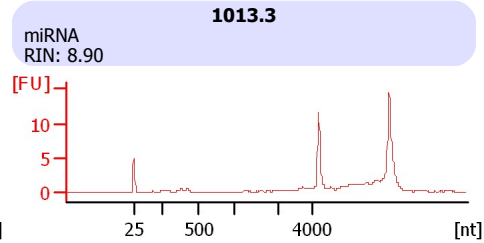
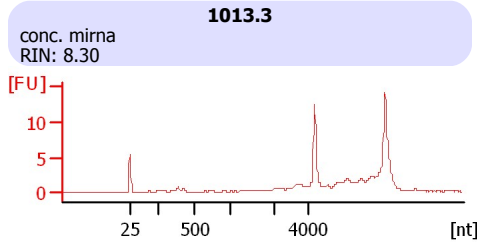
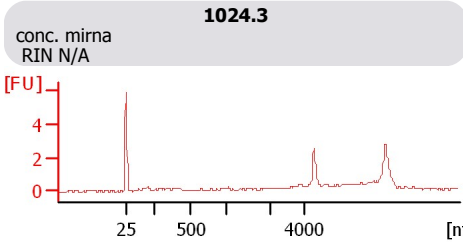
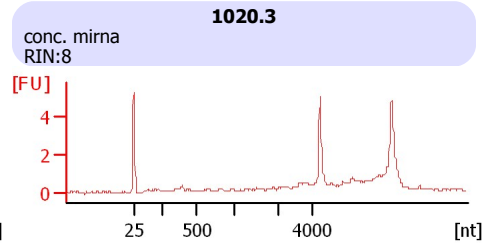
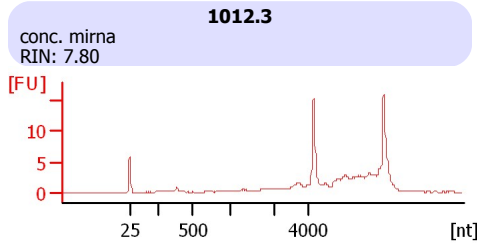
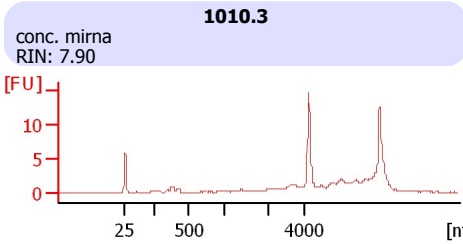
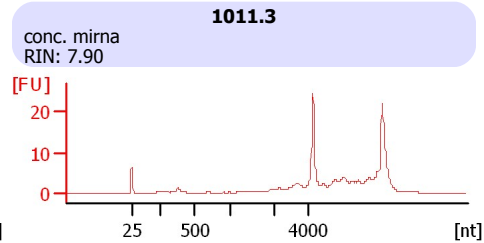
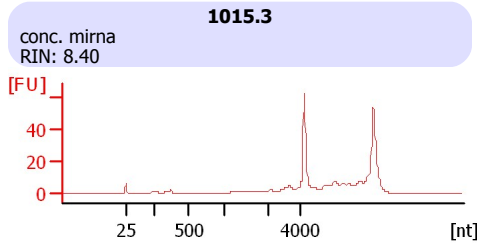
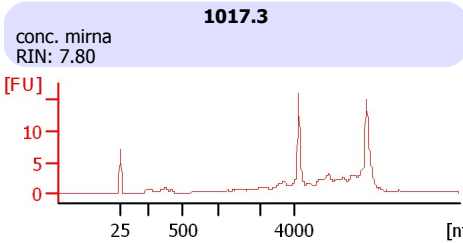
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1017.3	conc. mirna	✓	RIN: 7.80	
1015.3	conc. mirna	✓	RIN: 8.40	
1011.3	conc. mirna	✓	RIN: 7.90	
1010.3	conc. mirna	✓	RIN: 7.90	
1012.3	conc. mirna	✓	RIN: 7.80	
1020.3	conc. mirna	✓	RIN:8	
1024.3	conc. mirna	✓	RIN N/A	
1013.3	conc. mirna	✓	RIN: 8.30	
1013.3	miRNA	✓	RIN: 8.90	
1012.3	miRNA	✓	RIN: 8.10	
1017.3	miRNA	✓	RIN: 8.60	
1015.3	miRNA	✓	RIN: 8.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 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/ 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

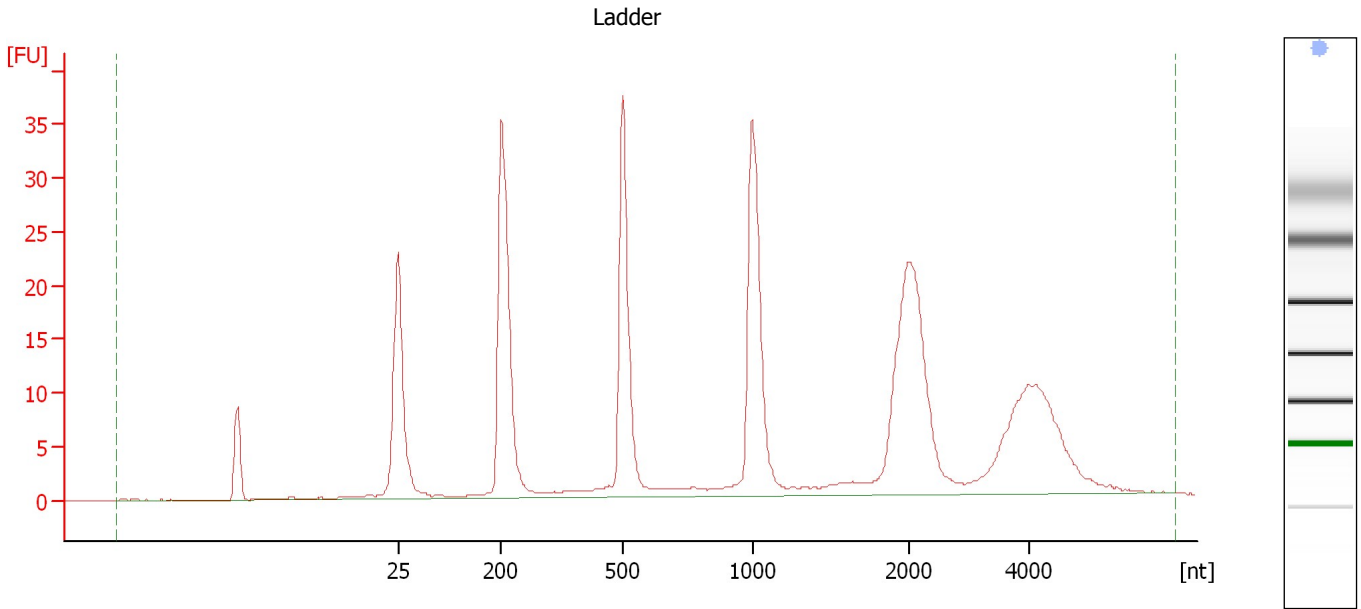
Ladder

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\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary



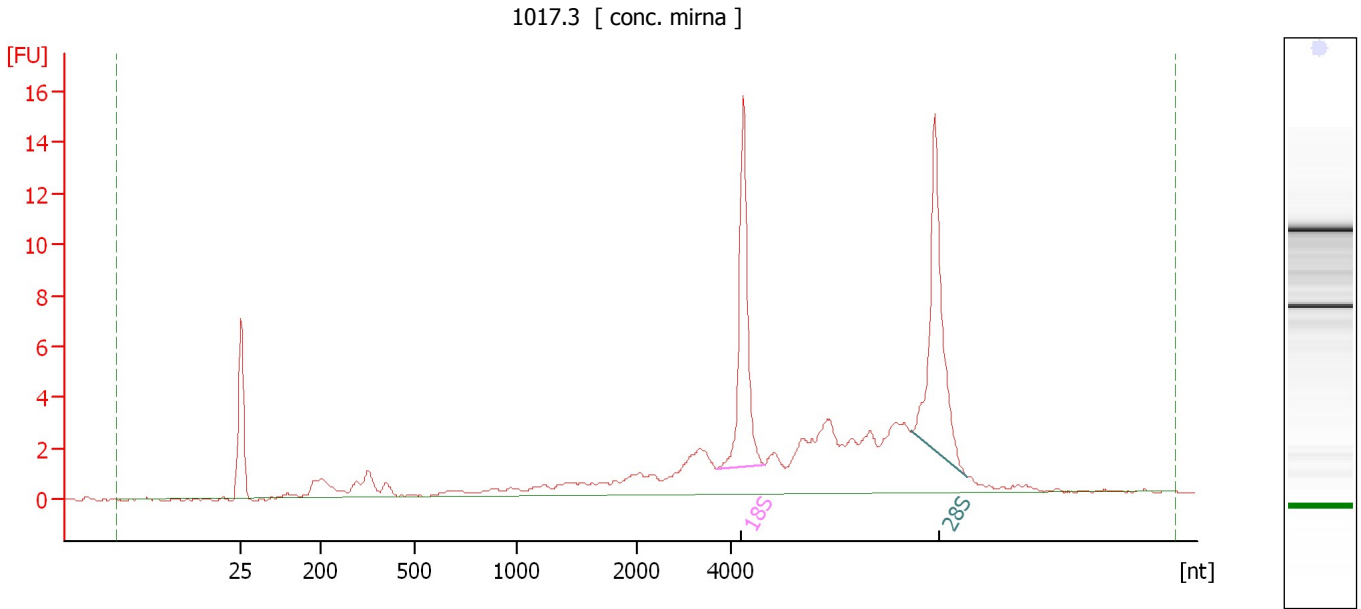
Overall Results for Ladder

RNA Area:	289.3	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\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1017.3

RNA Area:	92.8	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.80

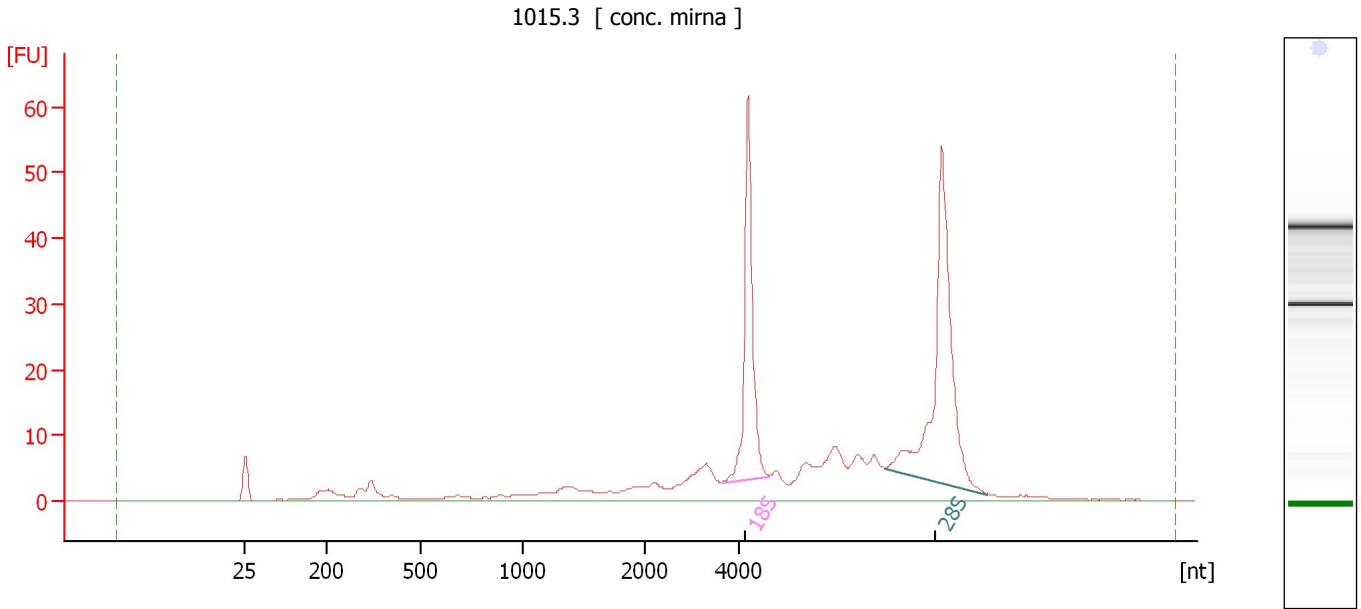
Fragment table for sample 1 : 1017.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,726	4,731	12.8	13.8
28S	7,883	9,048	14.8	15.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1015.3

RNA Area:	299.6	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	155 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.40

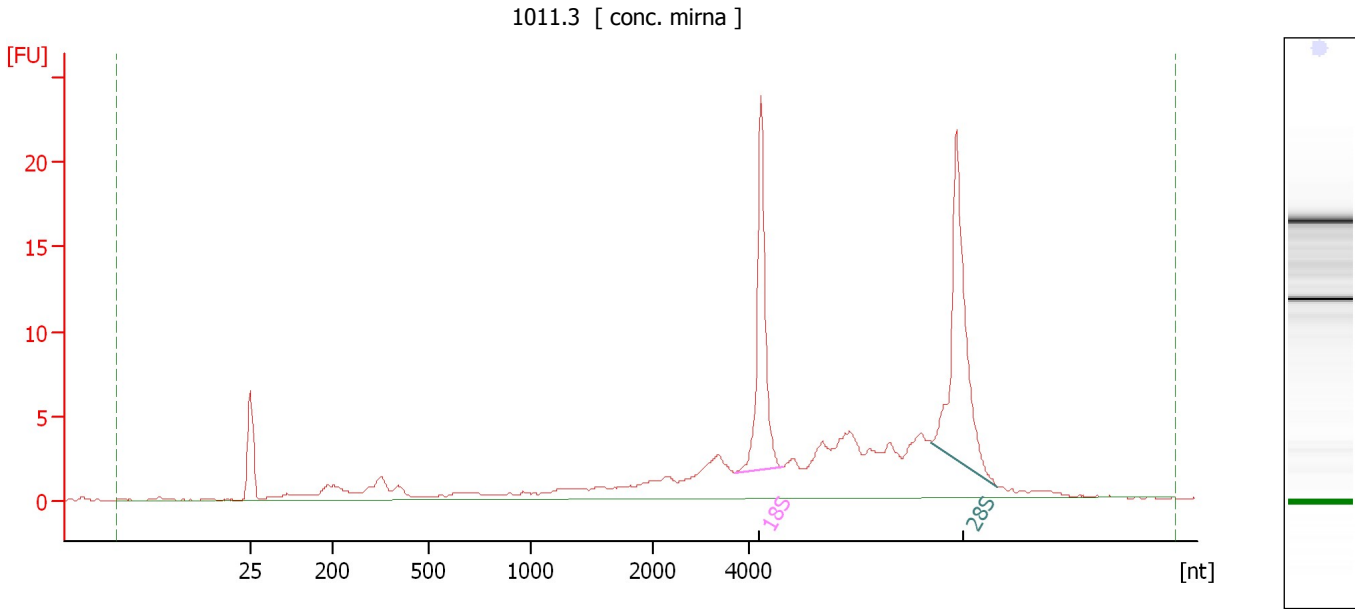
Fragment table for sample 2 : 1015.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,669	4,666	50.8	17.0
28S	7,114	9,267	76.0	25.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
 Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1011.3

RNA Area:	138.6	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

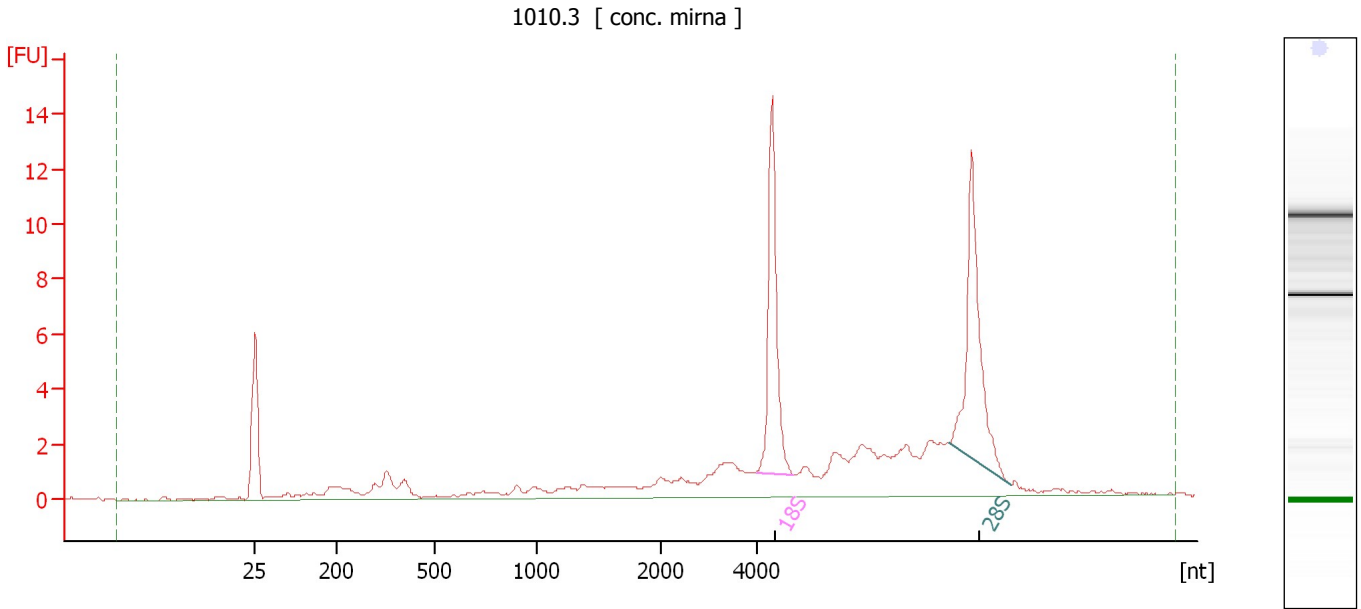
Fragment table for sample 3 : 1011.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,728	4,738	19.7	14.2
28S	7,835	9,204	24.1	17.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
 Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1010.3

RNA Area:	75.7	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

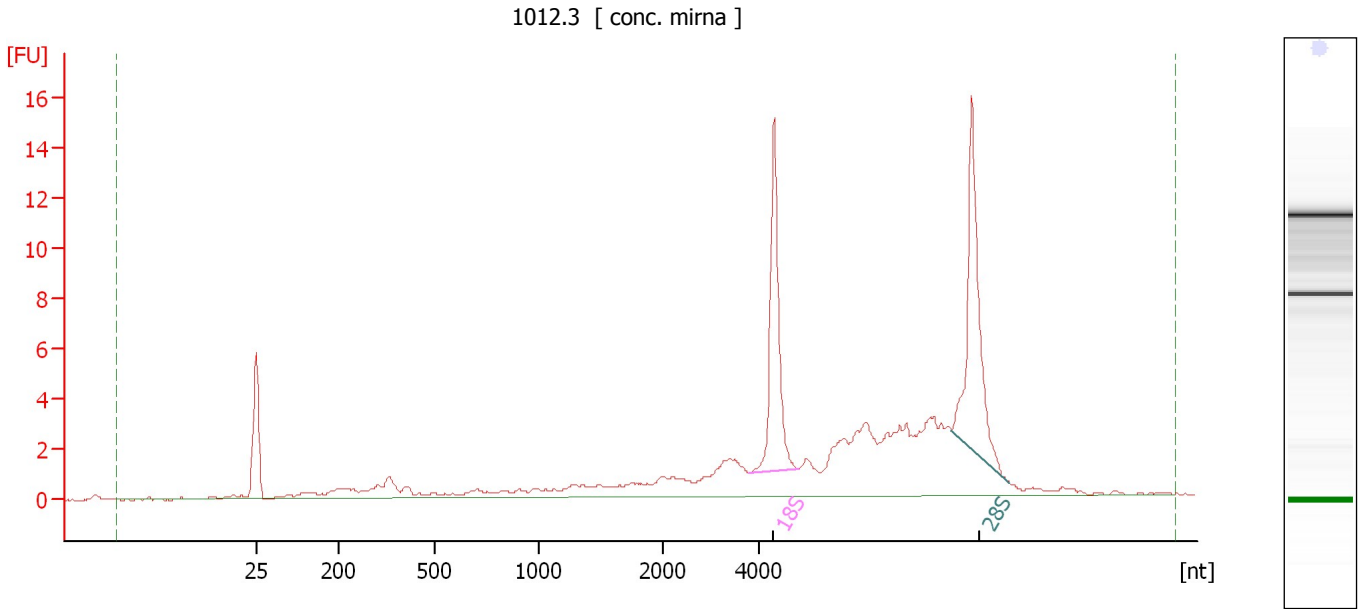
Fragment table for sample 4 : 1010.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,983	4,763	11.4	15.1
28S	7,992	9,283	12.8	16.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1012.3

RNA Area:	92.2	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.80

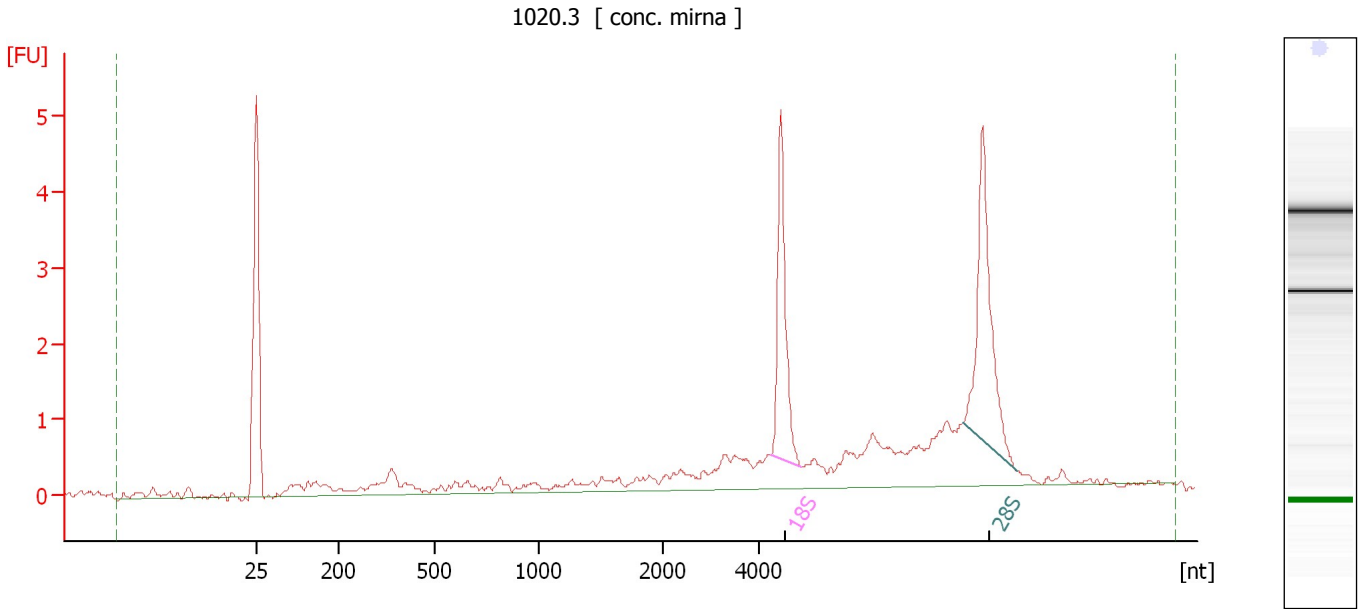
Fragment table for sample 5 : 1012.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,808	4,830	12.3	13.4
28S	8,008	9,209	14.0	15.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1020.3

RNA Area:	28.5	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:8

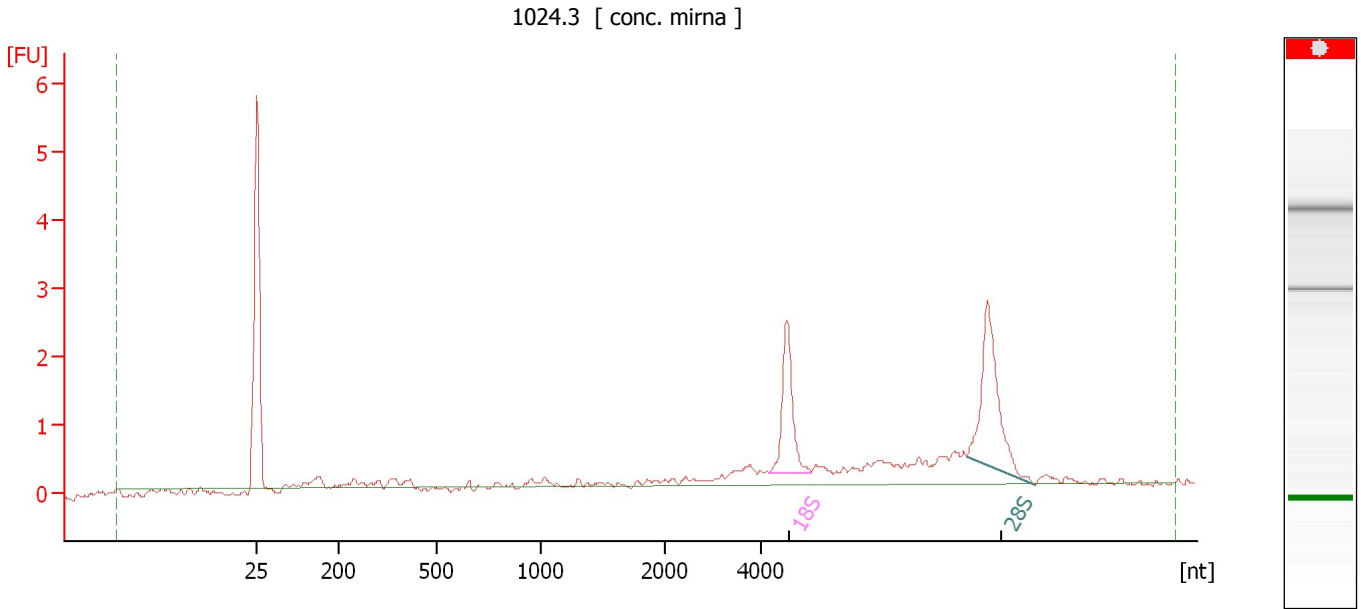
Fragment table for sample 6 : 1020.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,252	4,897	3.9	13.5
28S	8,253	9,364	4.9	17.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1024.3

RNA Area:	16.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

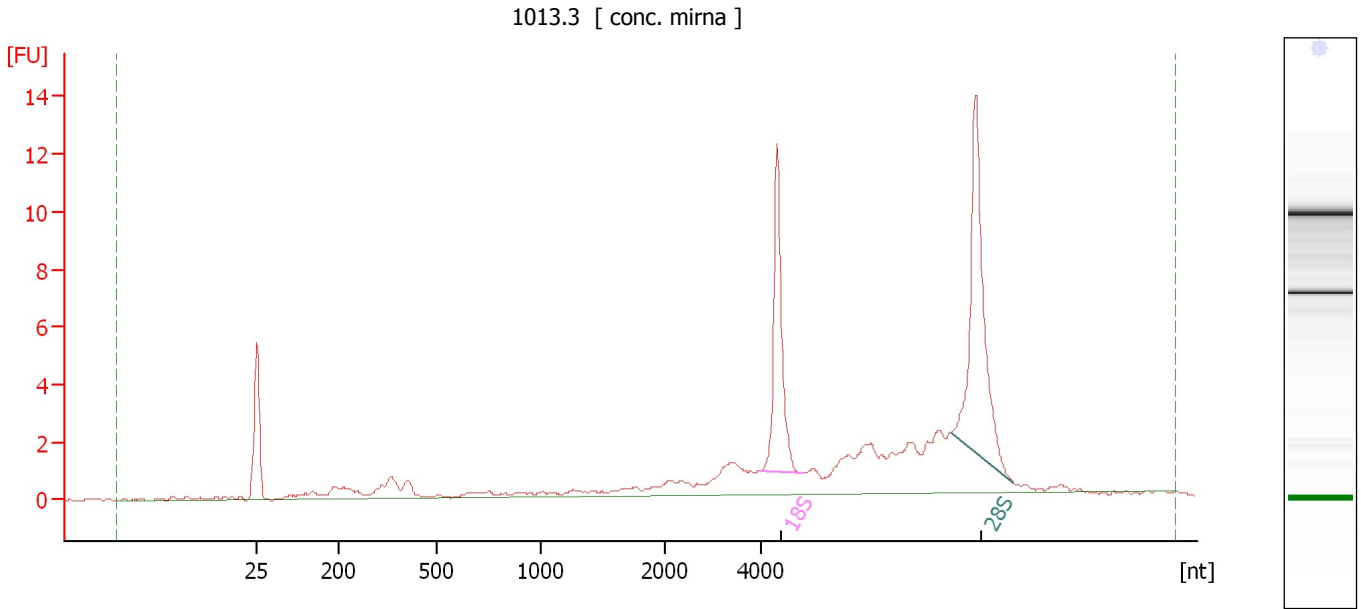
Fragment table for sample 7 : 1024.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,165	5,052	2.3	14.4
28S	8,269	9,689	3.5	21.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
 Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1013.3

RNA Area:	67.7	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	35 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.30

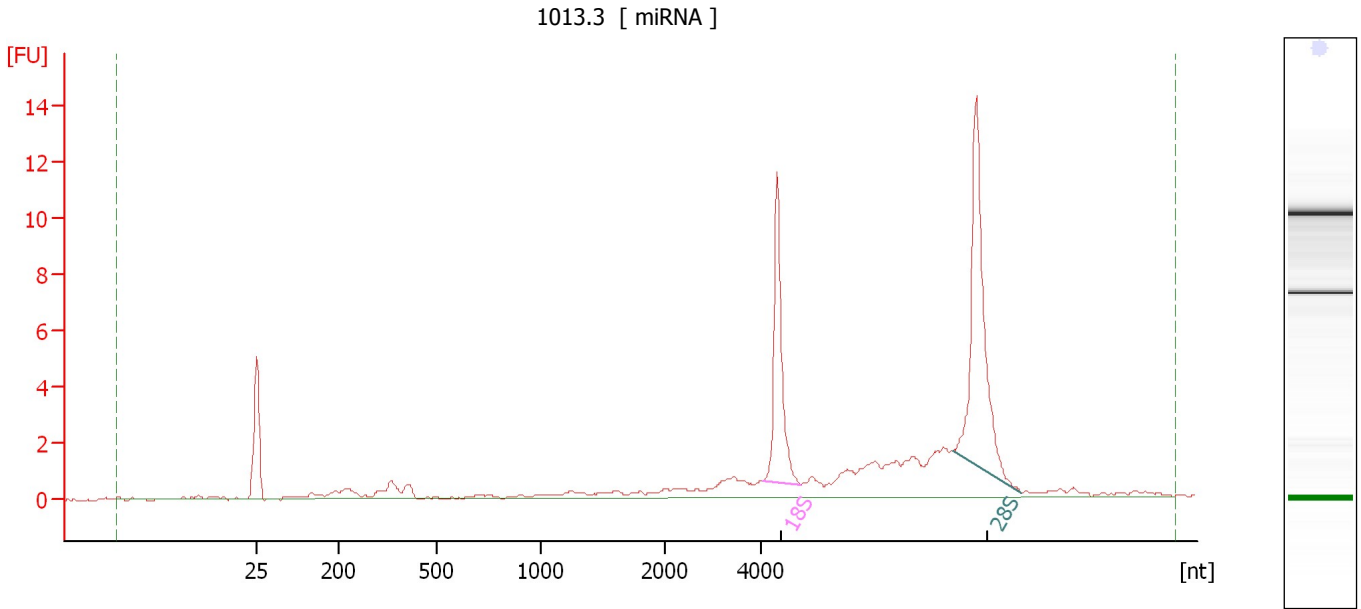
Fragment table for sample 8 : 1013.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,010	4,875	9.8	14.5
28S	7,936	9,245	14.4	21.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1013.3

RNA Area:	56.8	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

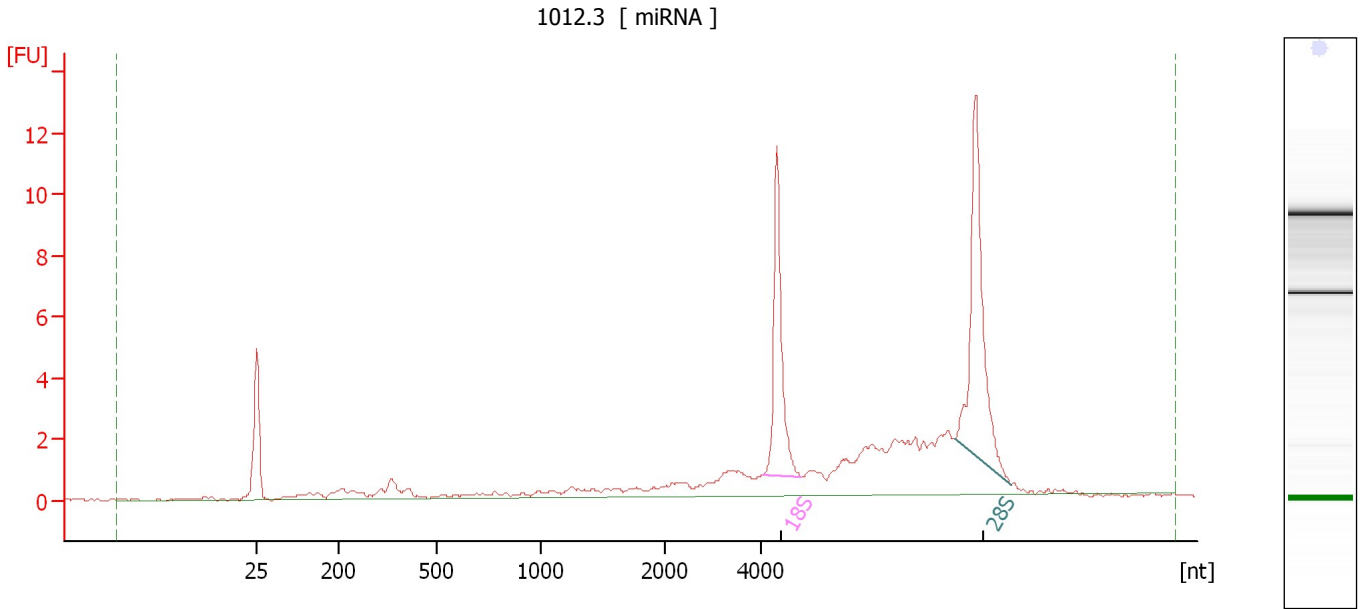
Fragment table for sample 9 : 1013.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,032	4,831	9.2	16.2
28S	7,981	9,400	14.3	25.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1012.3

RNA Area:	61.4	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.10

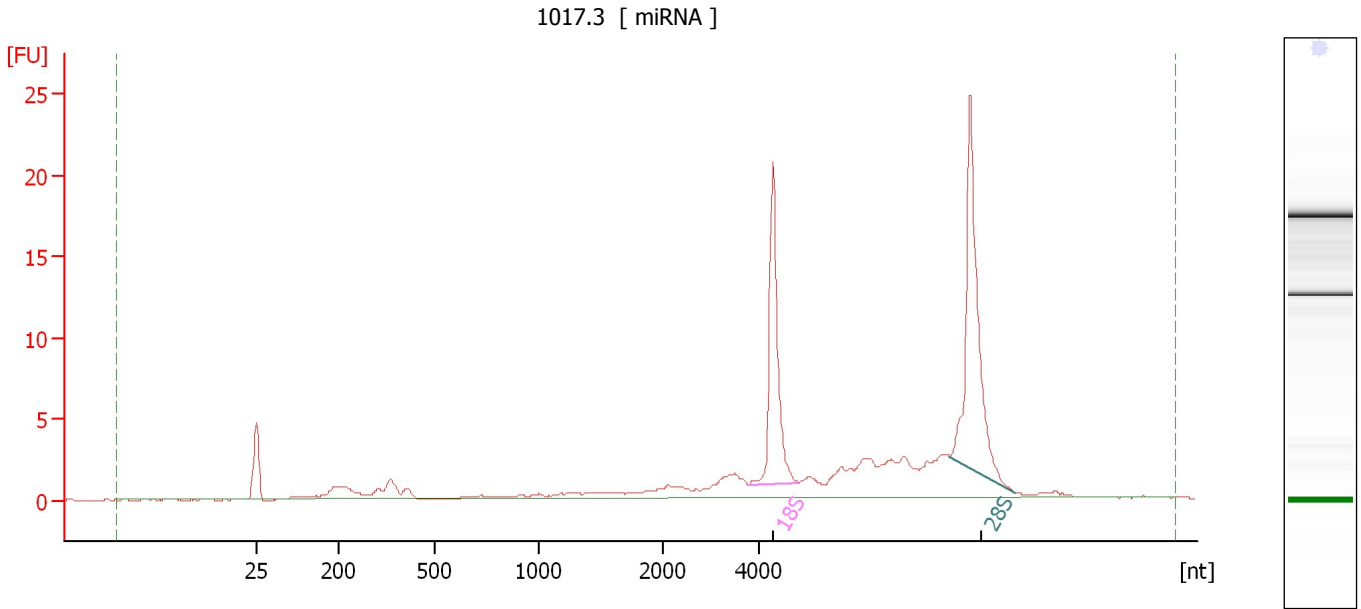
Fragment table for sample 10 : 1012.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,054	4,853	9.1	14.9
28S	8,025	9,179	12.4	20.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1017.3

RNA Area:	99.8	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.60

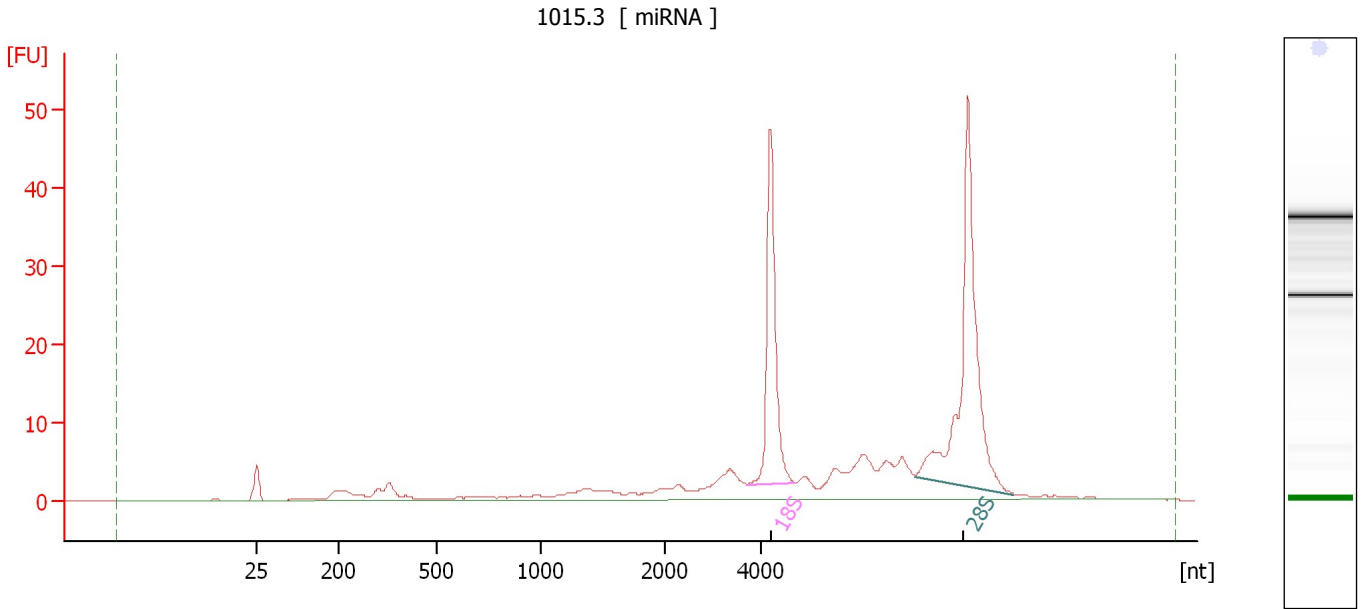
Fragment table for sample 11 : 1017.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,786	4,852	16.7	16.8
28S	7,964	9,320	23.9	24.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 1015.3

RNA Area:	220.5	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.70

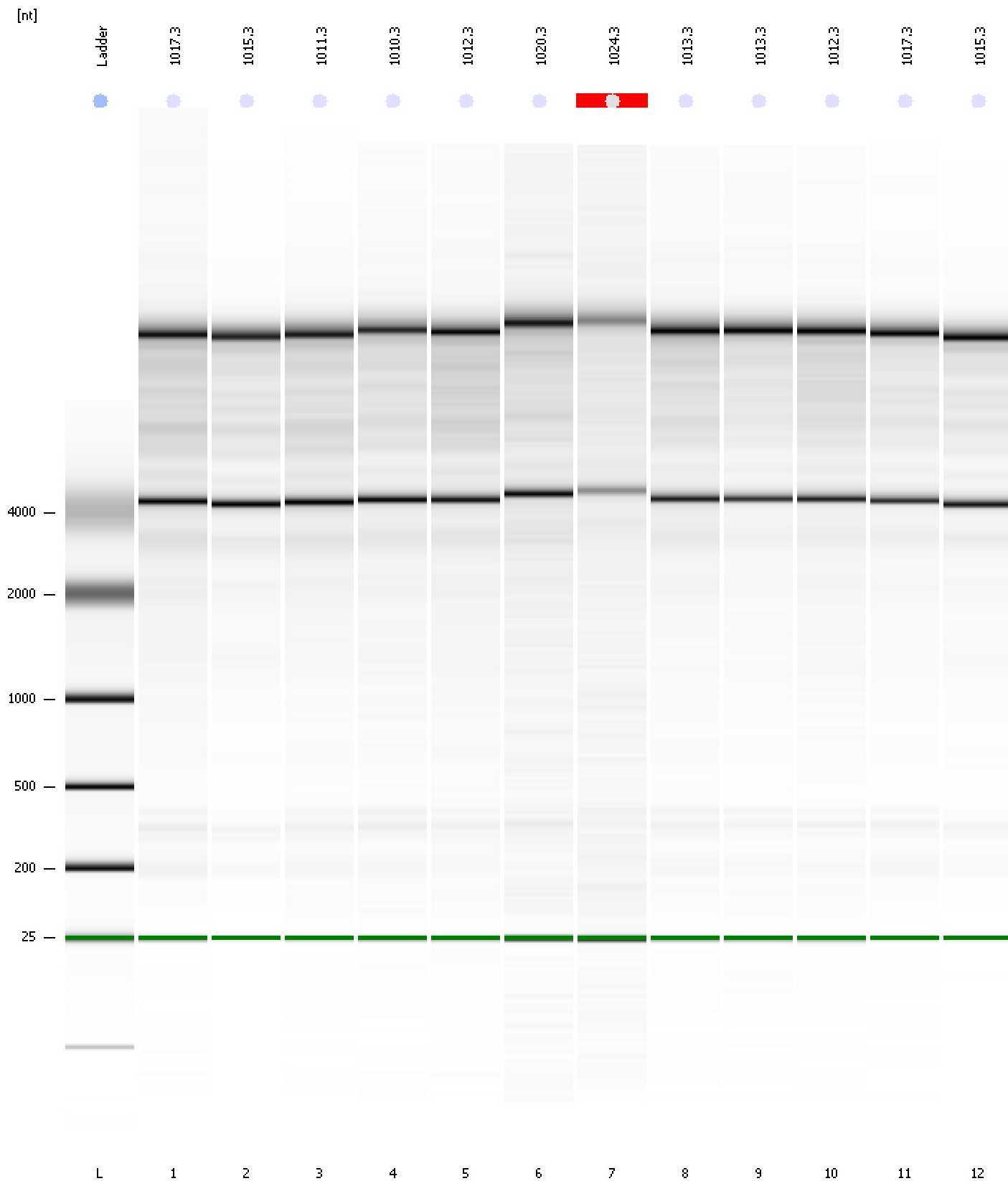
Fragment table for sample 12 : 1015.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,721	4,698	39.4	17.9
28S	7,204	9,245	65.7	29.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Gel Image

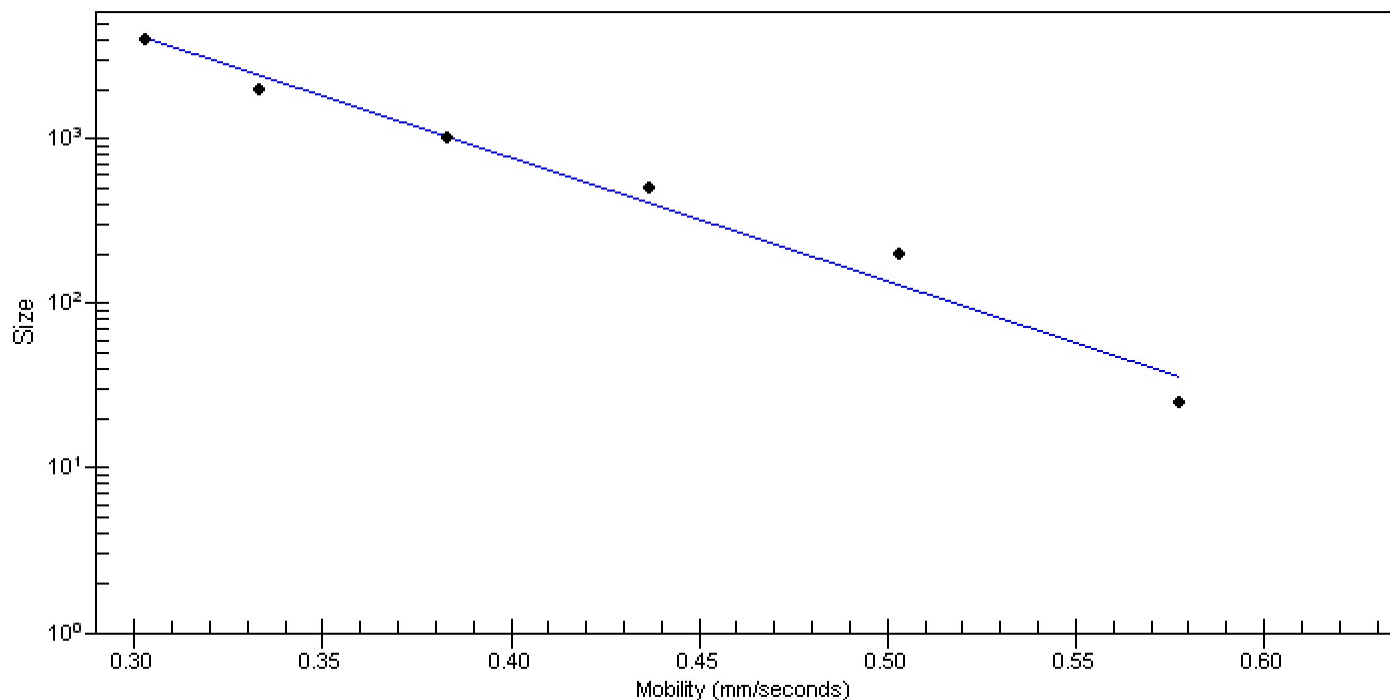


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
Modified: 10/22/2014 11:48:08 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad

Created: 10/22/2014 11:09:15 AM
 Modified: 10/22/2014 11:48:08 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		10/22/2014 11:33:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-22\2014-10-22_002.xad)		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/22/2014 11:09:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1