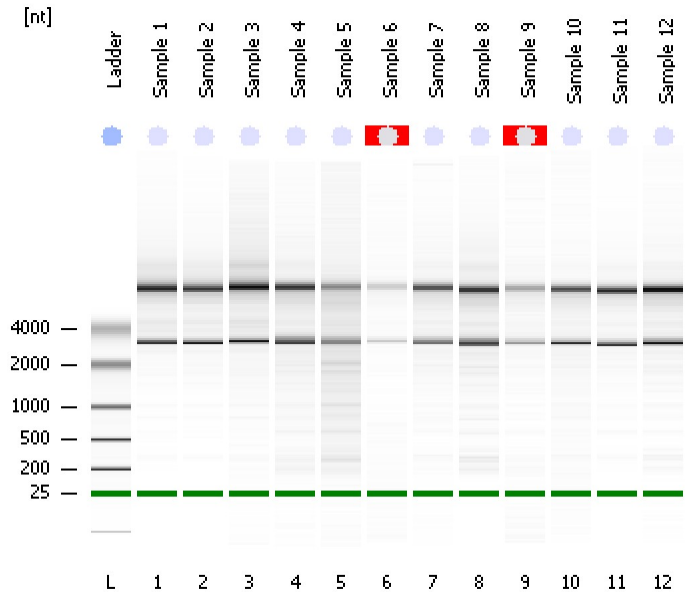


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electrophoresis File Run Summary



Instrument Information:

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

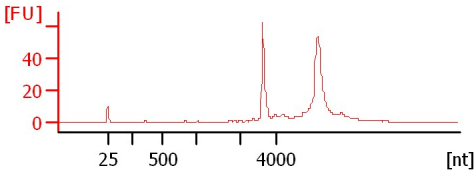
Assay Information:

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.

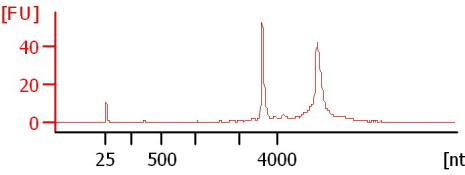
Chip Information:

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

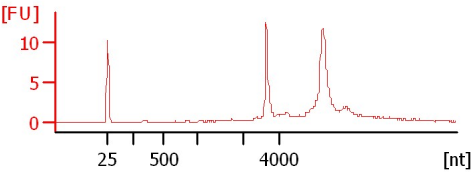
Sample 1
RIN: 9.60



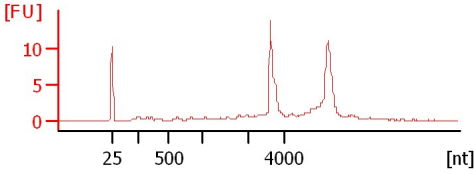
Sample 2
RIN: 9.70



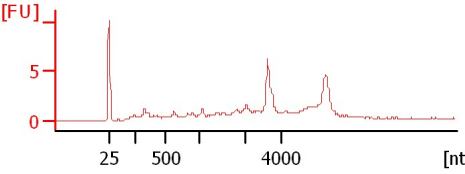
Sample 3
RIN: 9.50



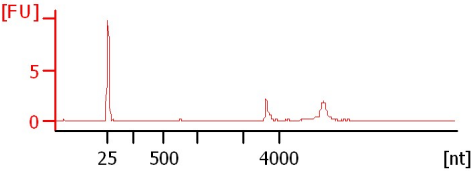
Sample 4
RIN: 9



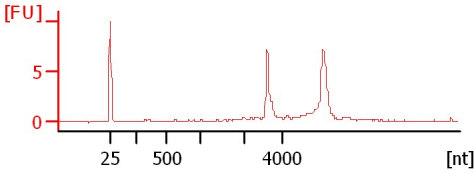
Sample 5
RIN: 7.20



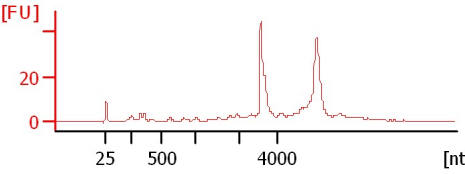
Sample 6
RIN N/A



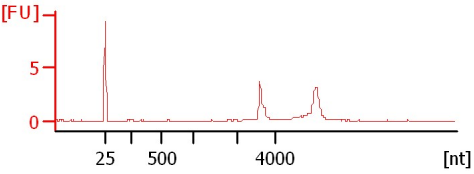
Sample 7
RIN: 9.30



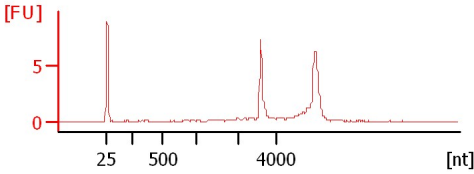
Sample 8
RIN: 8.90



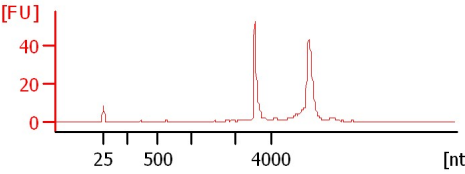
Sample 9
RIN N/A



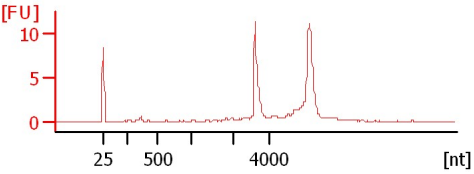
Sample 10
RIN: 9.30



Sample 11
RIN: 9.60



Sample 12
RIN: 9.70



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 9.60	
Sample 2		✓	RIN: 9.70	
Sample 3		✓	RIN: 9.50	
Sample 4		✓	RIN:9	
Sample 5		✓	RIN: 7.20	
Sample 6		✓	RIN N/A	
Sample 7		✓	RIN: 9.30	
Sample 8		✓	RIN: 8.90	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN: 9.30	
Sample 11		✓	RIN: 9.60	
Sample 12		✓	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\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 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/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

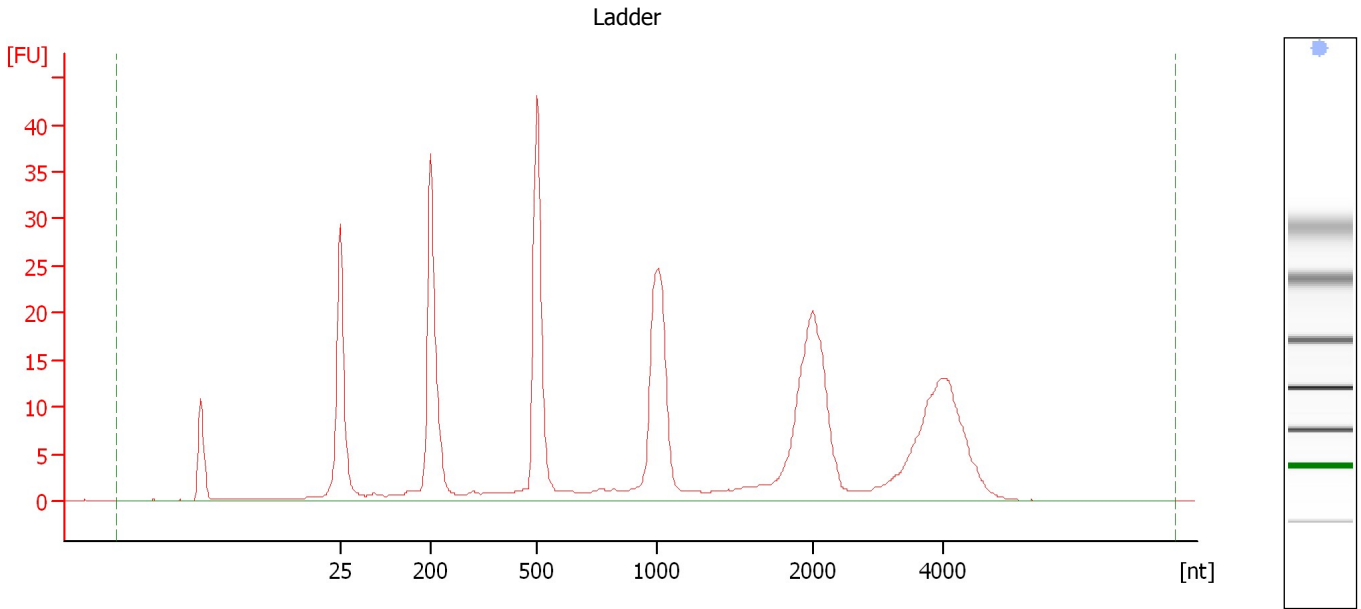
Ladder

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\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary



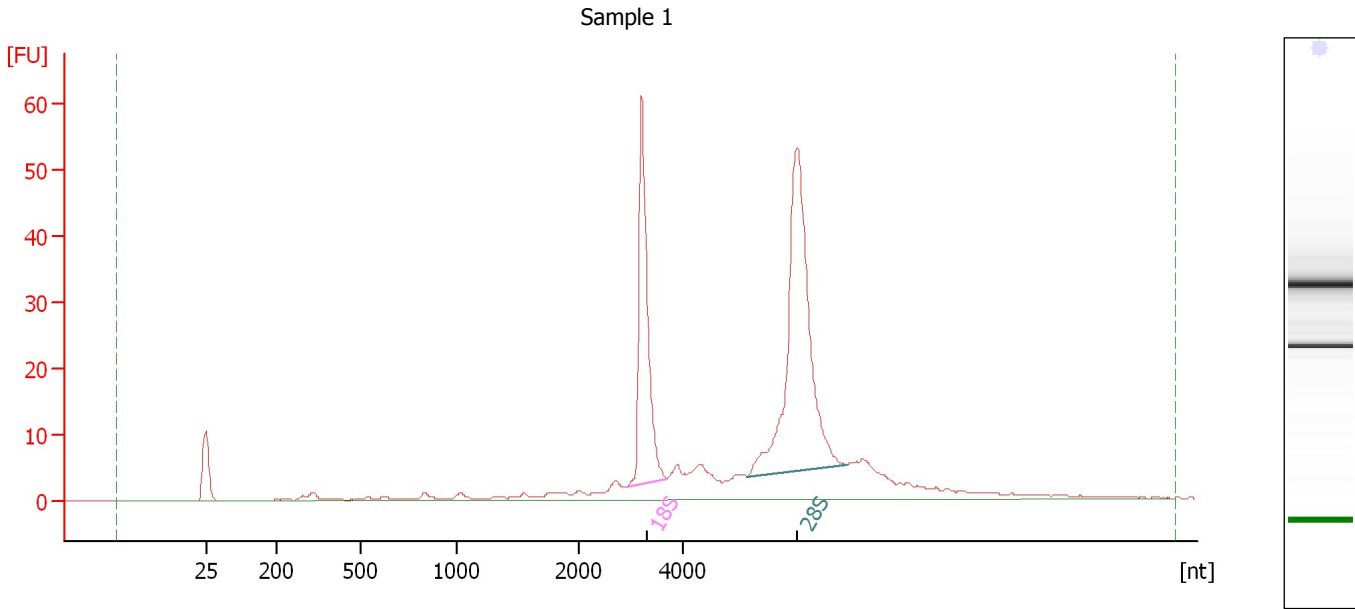
Overall Results for Ladder

RNA Area:	321.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	308.9	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	144 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.60

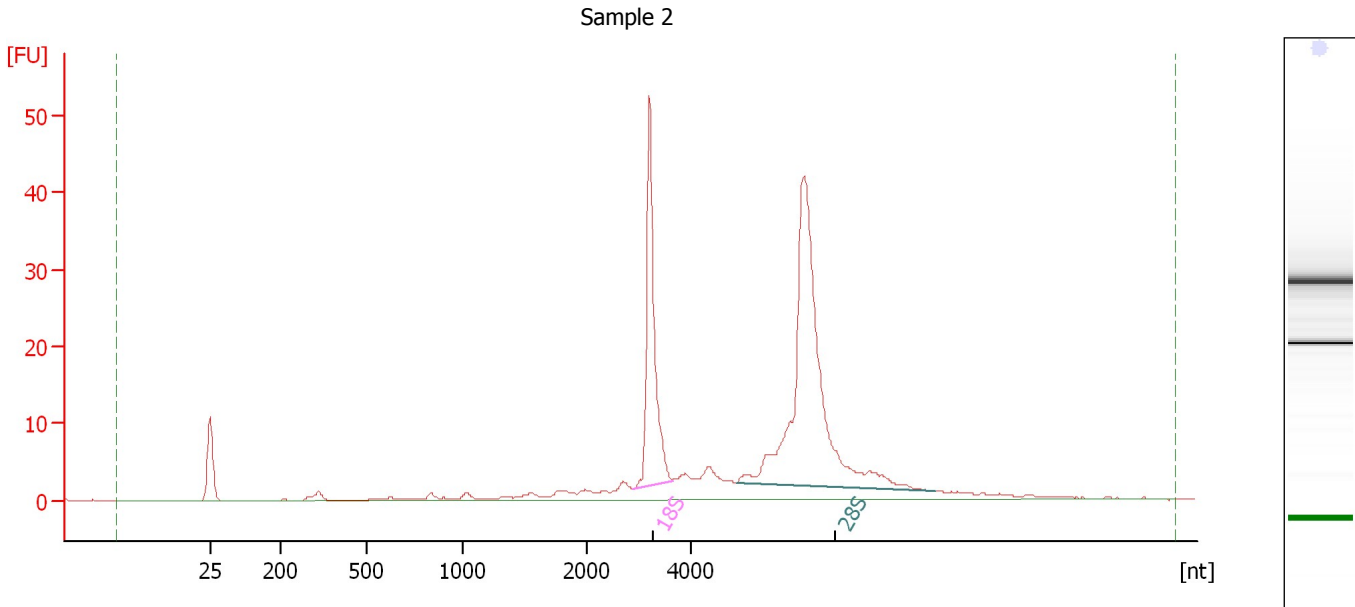
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,926	3,687	59.3	19.2
28S	5,232	7,167	111.5	36.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	237.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	111 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.70

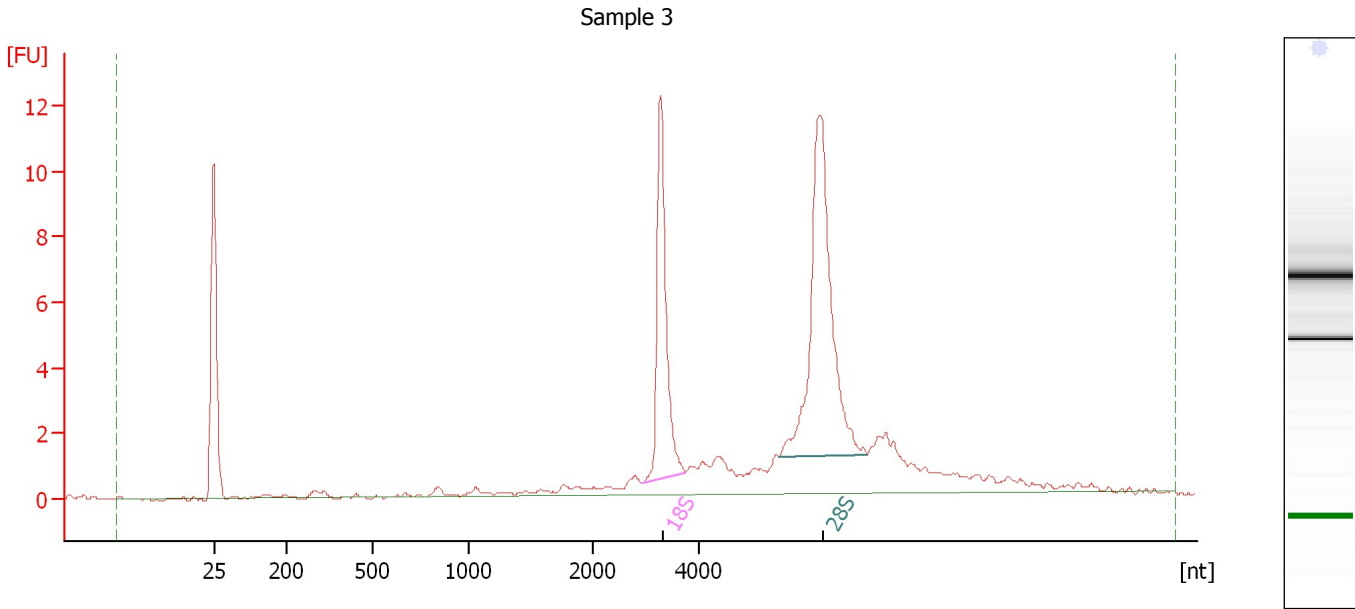
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,898	3,654	46.7	19.7
28S	4,899	8,677	105.4	44.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	68.5	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

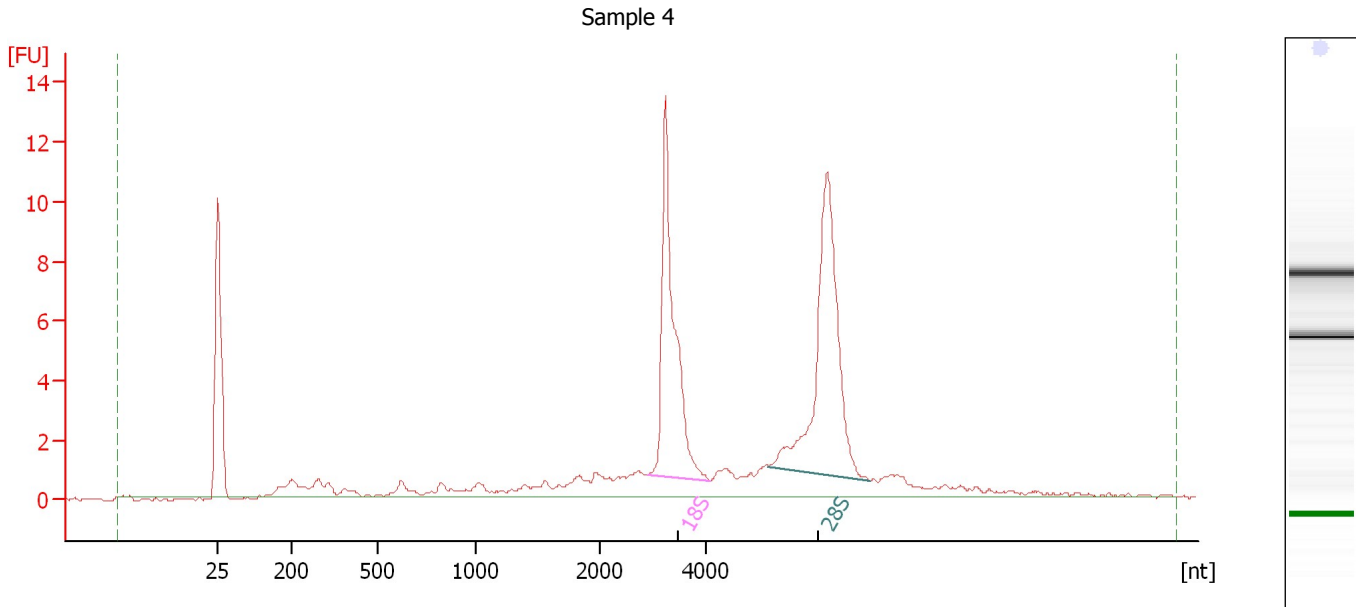
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,932	3,742	12.1	17.6
28S	5,524	7,185	21.8	31.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	76.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:9

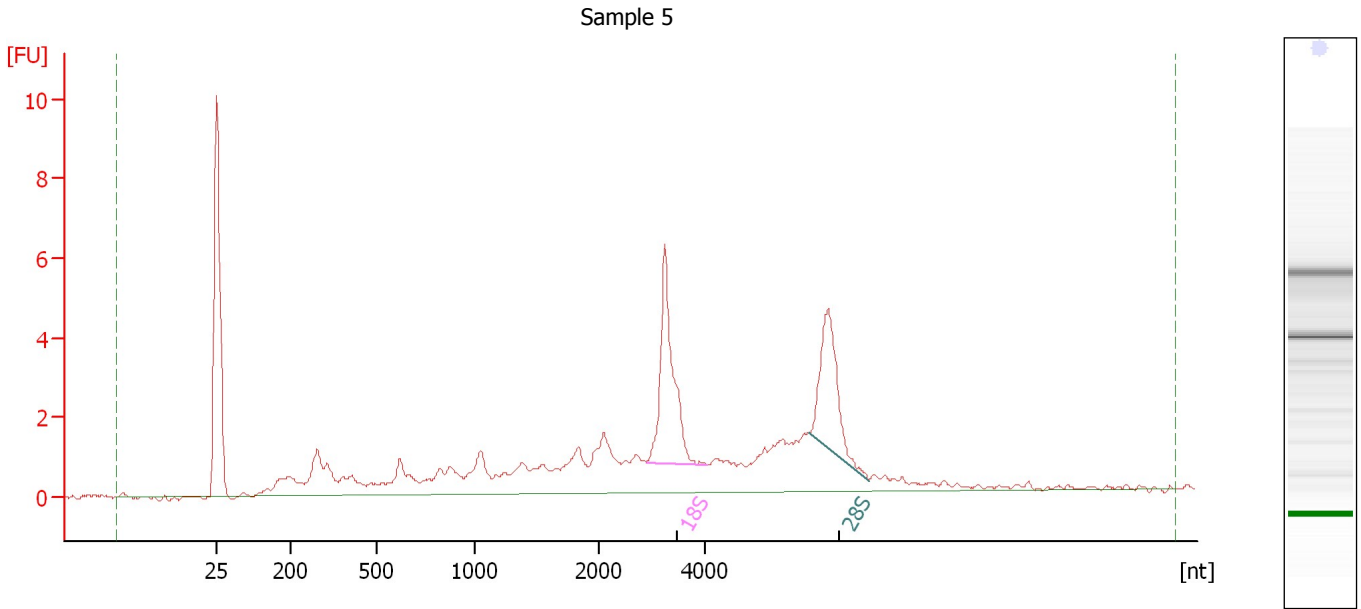
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,882	4,069	17.8	23.3
28S	5,176	7,068	22.2	29.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	66.8	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.20

Fragment table for sample 5 : Sample 5

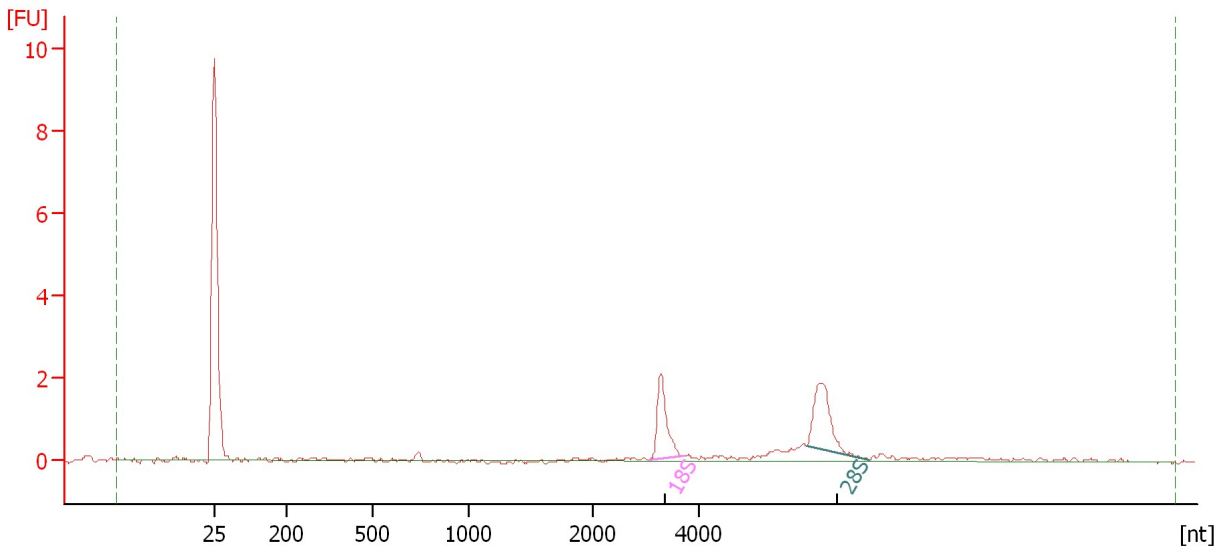
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,882	4,049	8.0	12.0
28S	5,961	7,068	6.0	9.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

RNA Area:	11.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN N/A

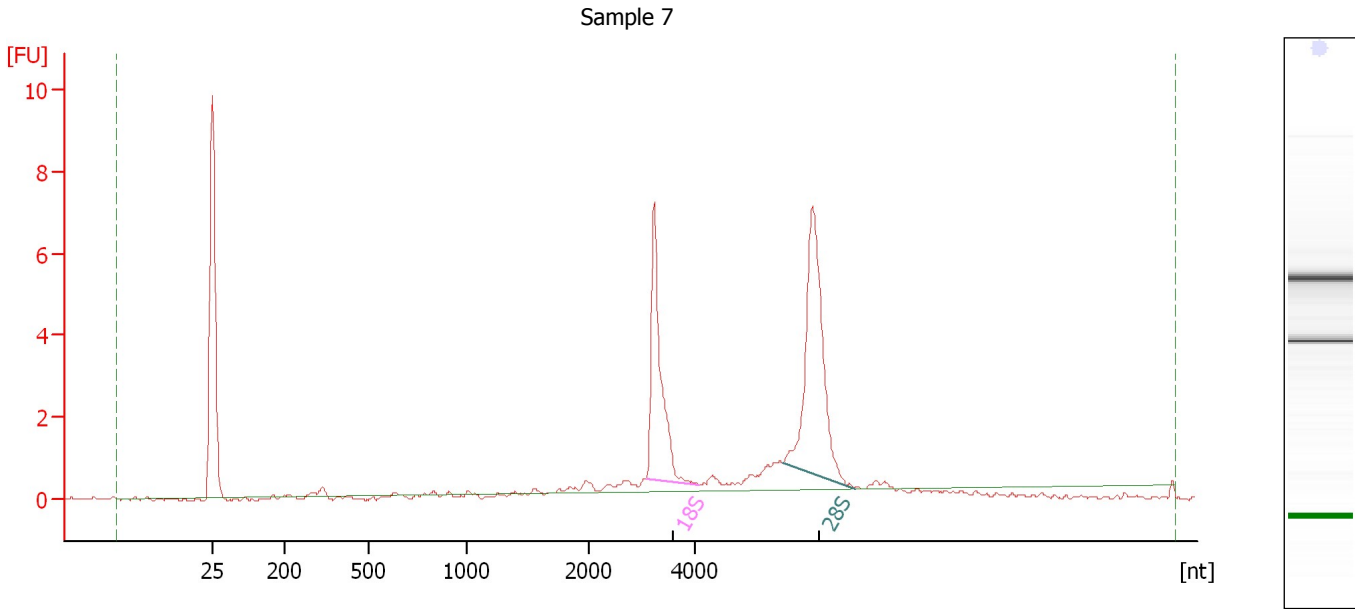
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,054	3,682	2.3	19.2
28S	6,051	7,205	2.8	23.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	28.0	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.30

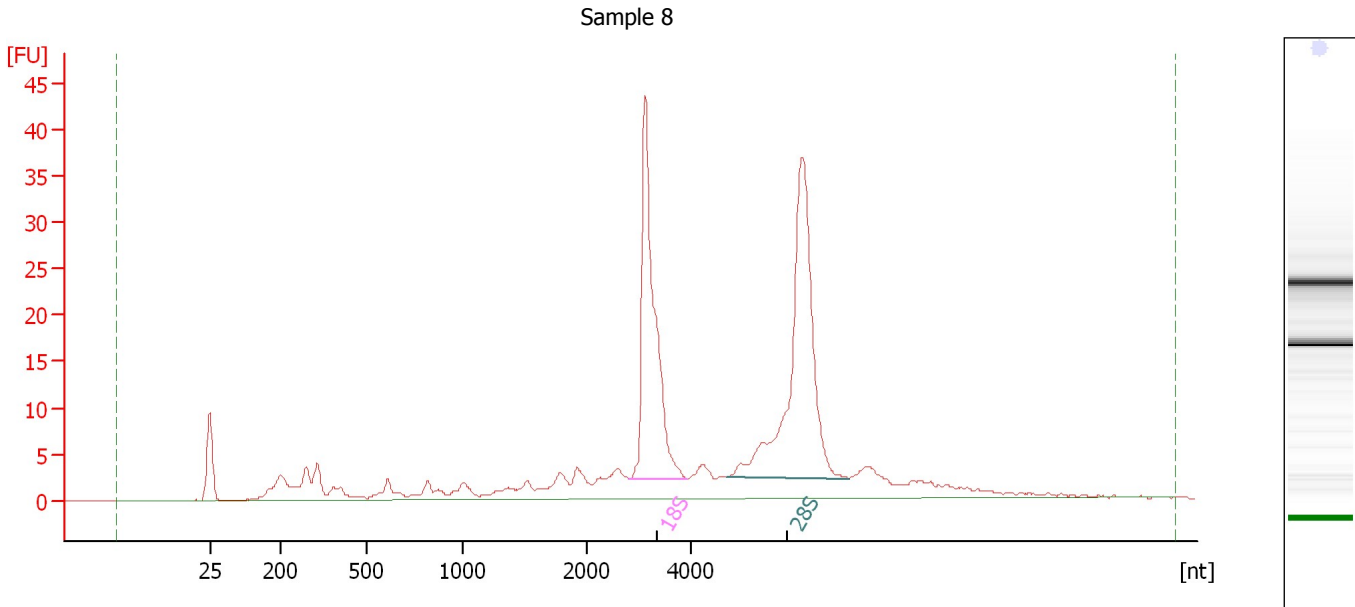
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,068	4,085	7.9	28.1
28S	5,691	7,033	11.4	40.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	284.6	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.90

Fragment table for sample 8 : Sample 8

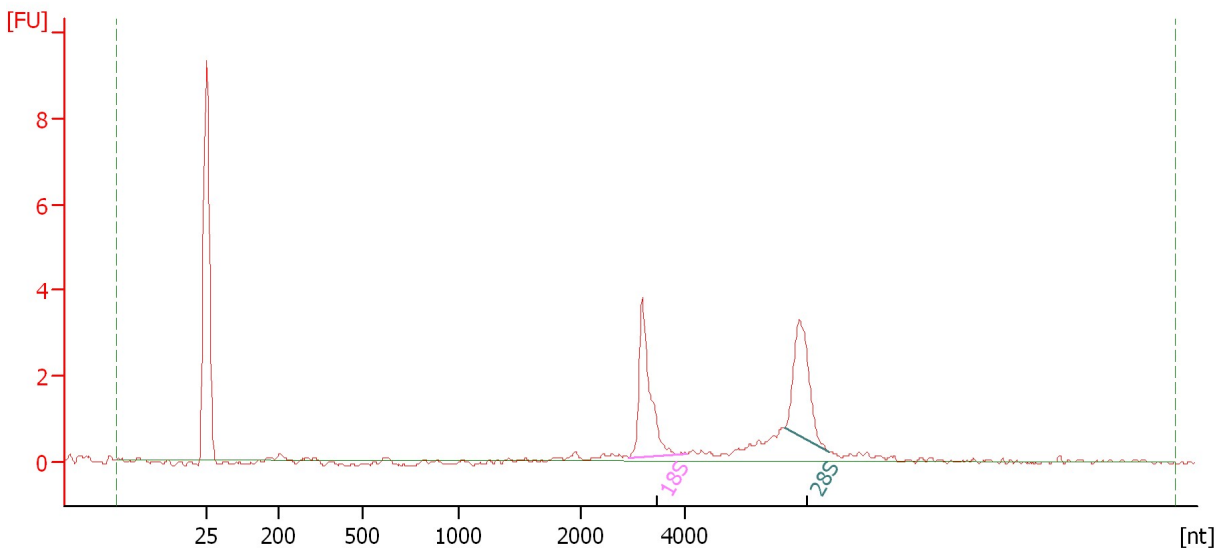
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,837	3,940	60.3	21.2
28S	4,695	7,023	78.9	27.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area:	18.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN N/A

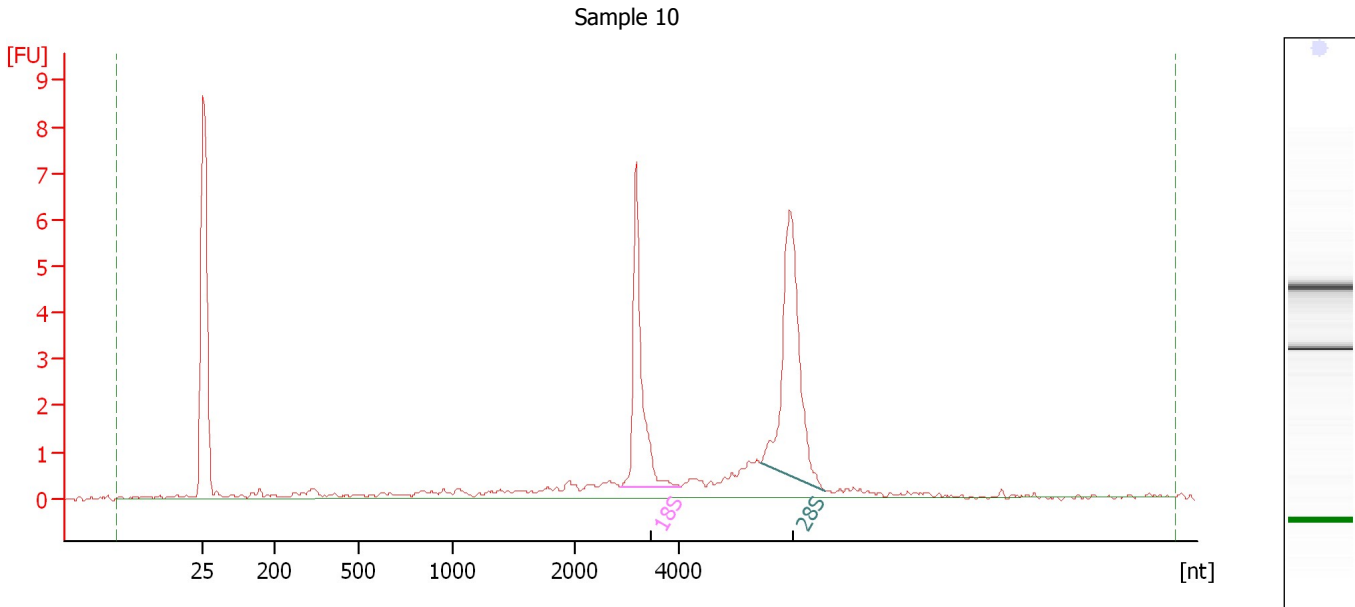
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,929	4,059	4.8	26.4
28S	5,929	6,772	4.4	24.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	34.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.30

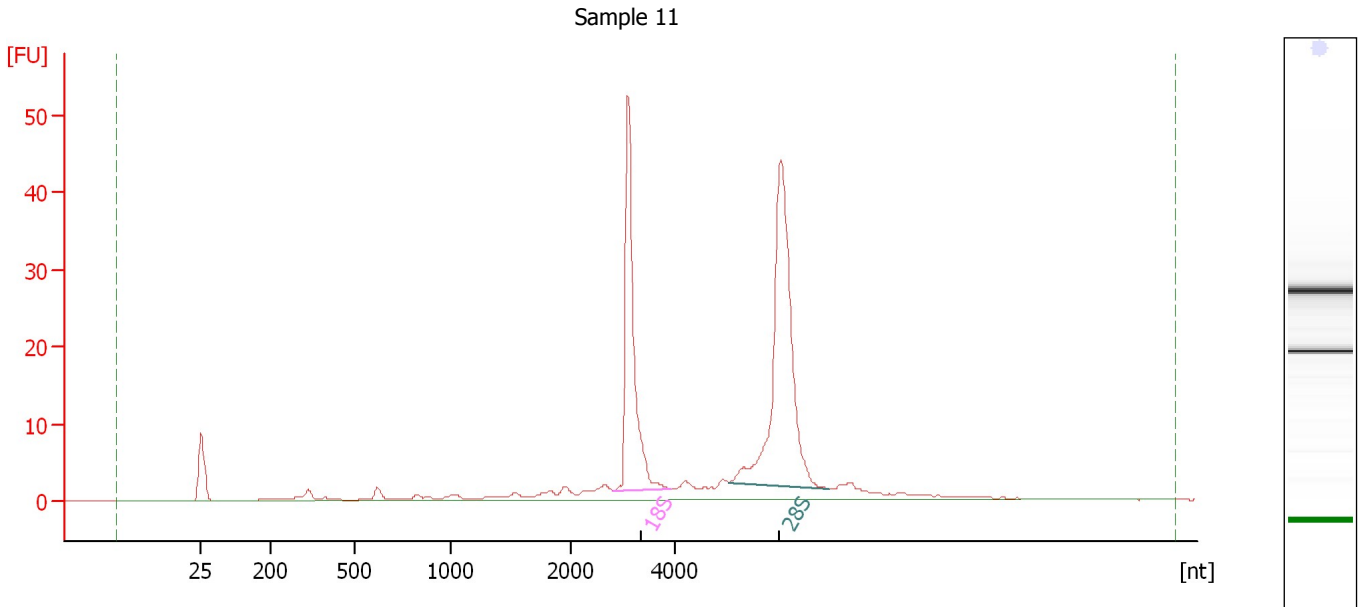
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,877	4,035	7.3	21.3
28S	5,607	6,848	10.1	29.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	206.4	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	96 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

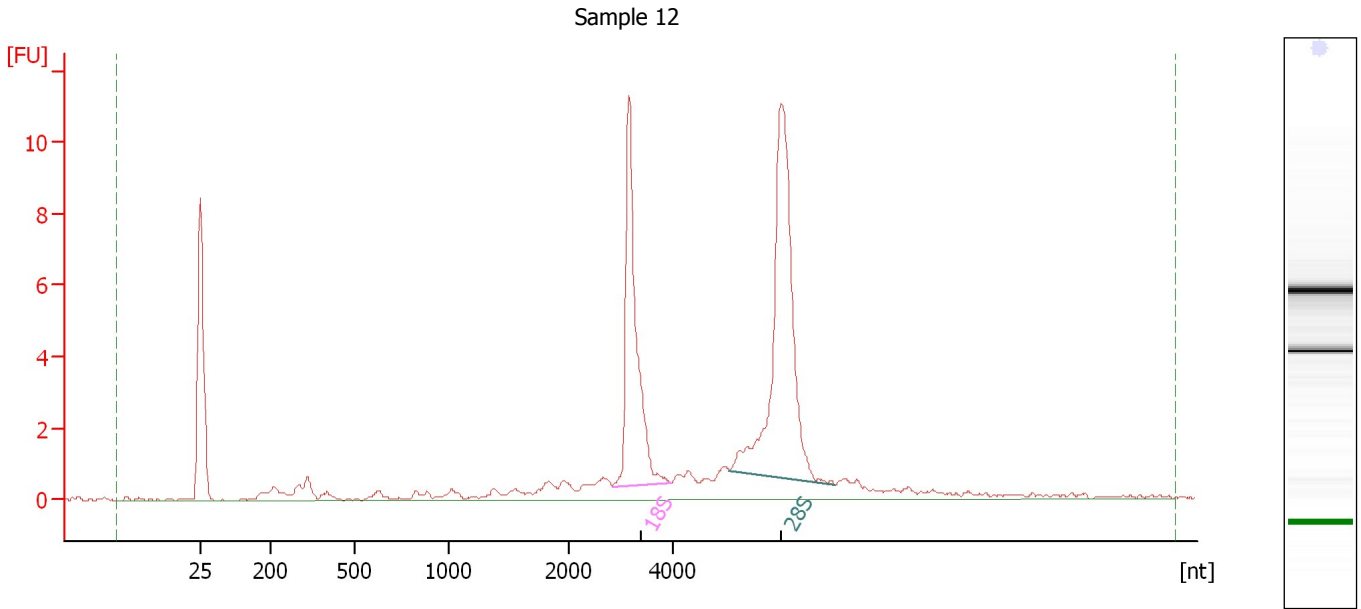
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,829	3,950	50.5	24.5
28S	5,051	7,003	80.9	39.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	63.0	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.70

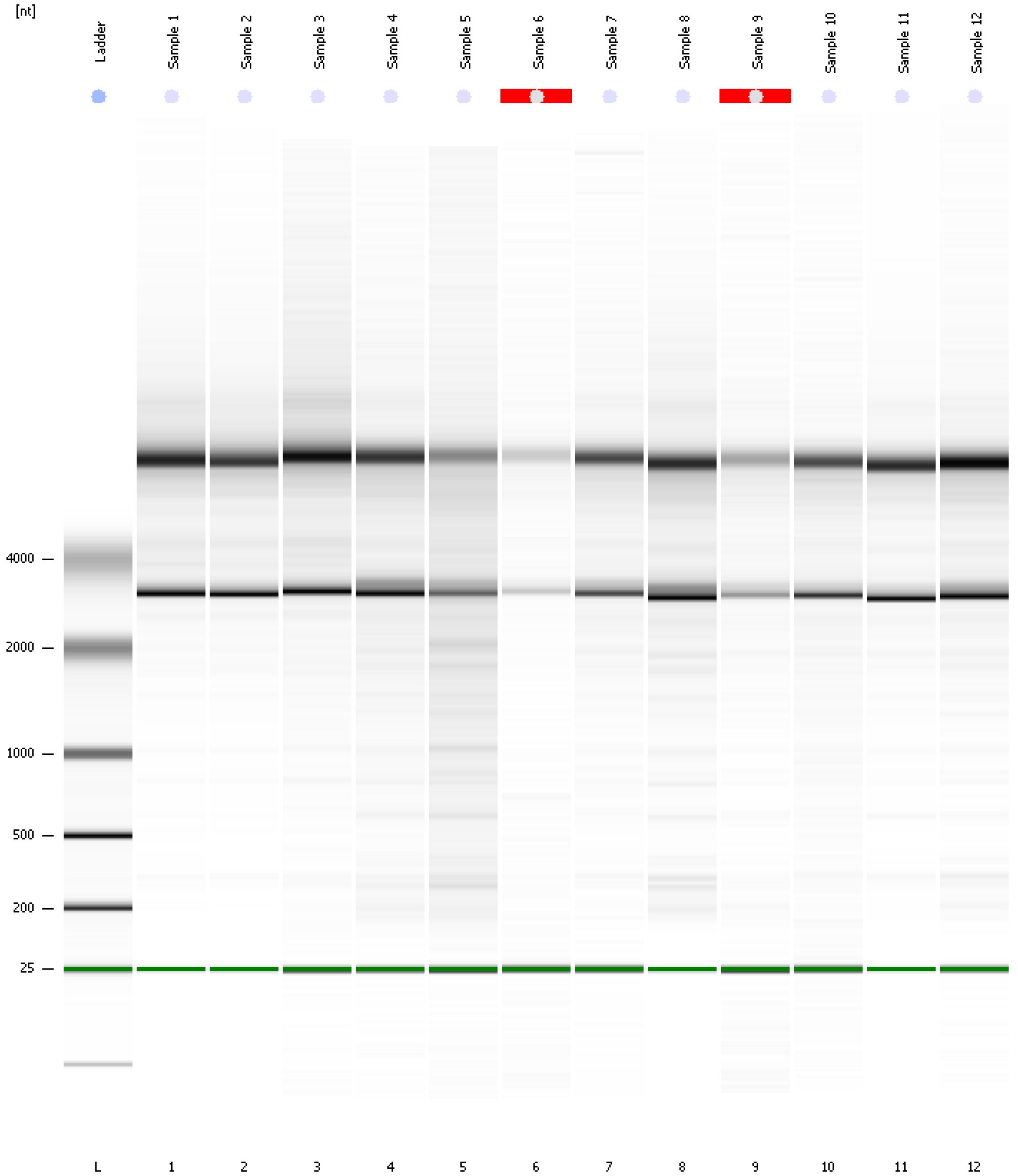
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,846	3,990	13.4	21.3
28S	5,114	7,175	21.5	34.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
Modified: 3/11/2013 11:26:37 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad

Created: 3/11/2013 11:02:48 AM
 Modified: 3/11/2013 11:26:37 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		3/11/2013 11:26:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-11\2013-03-11_001.xad)		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/11/2013 11:02:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1