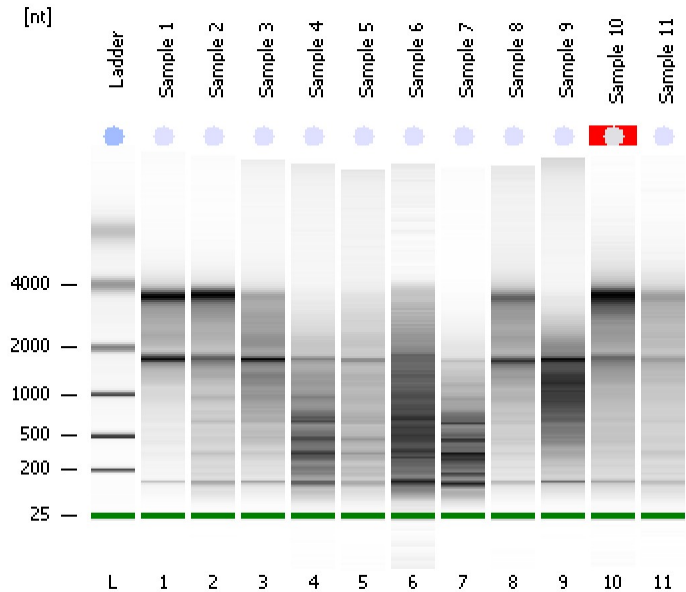


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electrophoresis File Run Summary



Instrument Information:

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

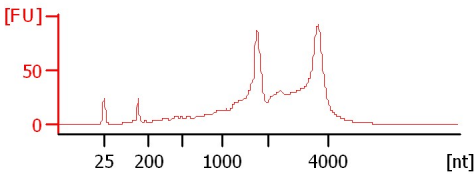
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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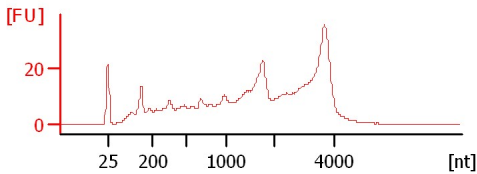
Chip Information:

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

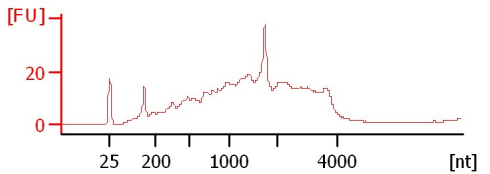
Sample 1
RIN: 7.80



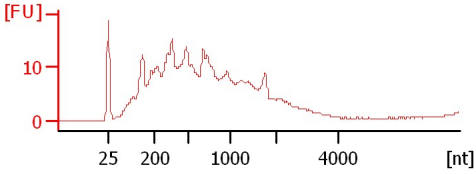
Sample 2
RIN: 7.60



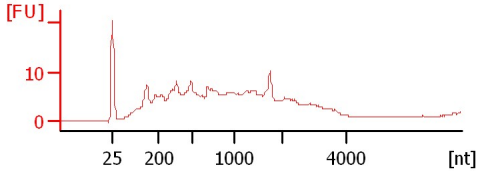
Sample 3
RIN: 3.50



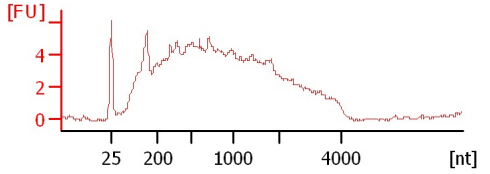
Sample 4
RIN: 2.80



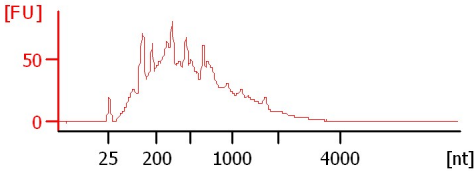
Sample 5
RIN: 3.70



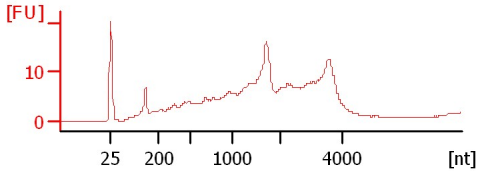
Sample 6
RIN: 2.20



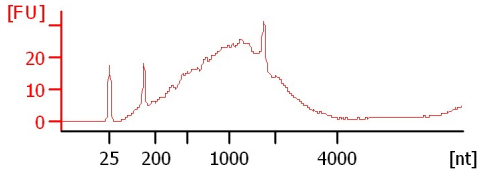
Sample 7
RIN: 2



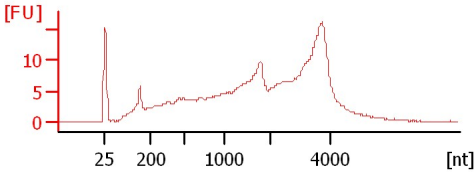
Sample 8
RIN: 6.90



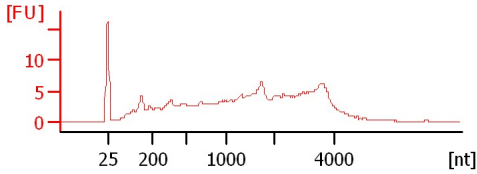
Sample 9
RIN: 2.80



Sample 10
RIN N/A



Sample 11
RIN: 3.10



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.80	
Sample 2		✓	RIN: 7.60	
Sample 3		✓	RIN: 3.50	
Sample 4		✓	RIN: 2.80	
Sample 5		✓	RIN: 3.70	
Sample 6		✓	RIN: 2.20	
Sample 7		✓	RIN:2	
Sample 8		✓	RIN: 6.90	
Sample 9		✓	RIN: 2.80	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN: 3.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

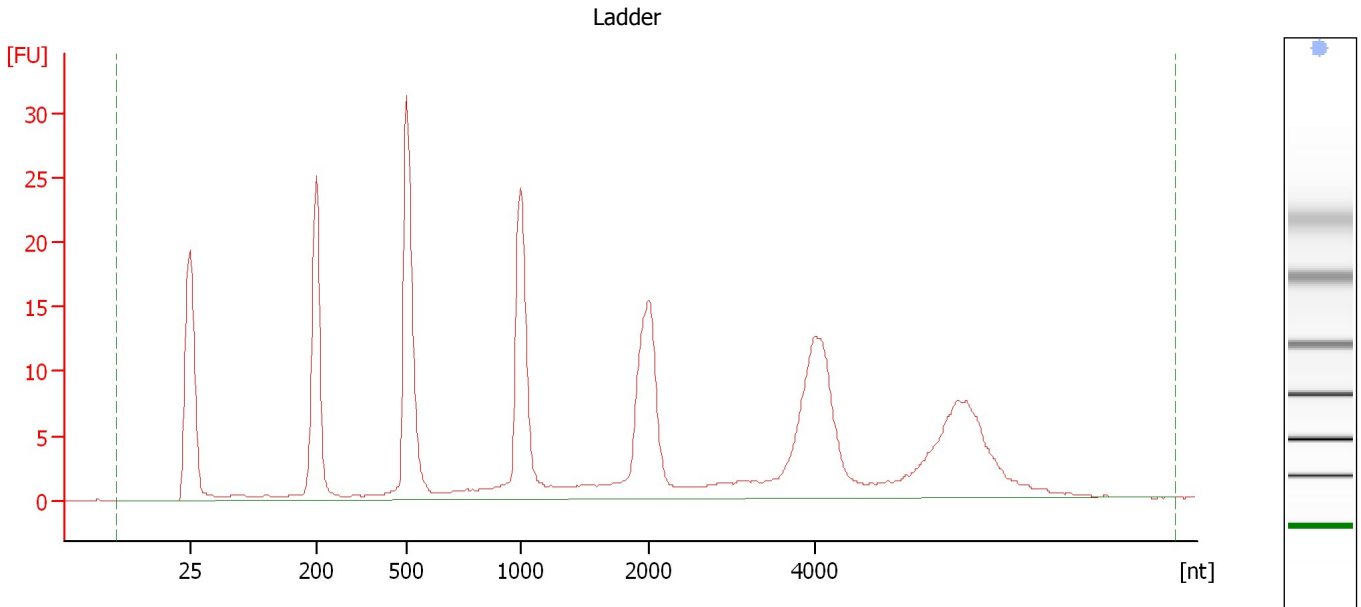
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary



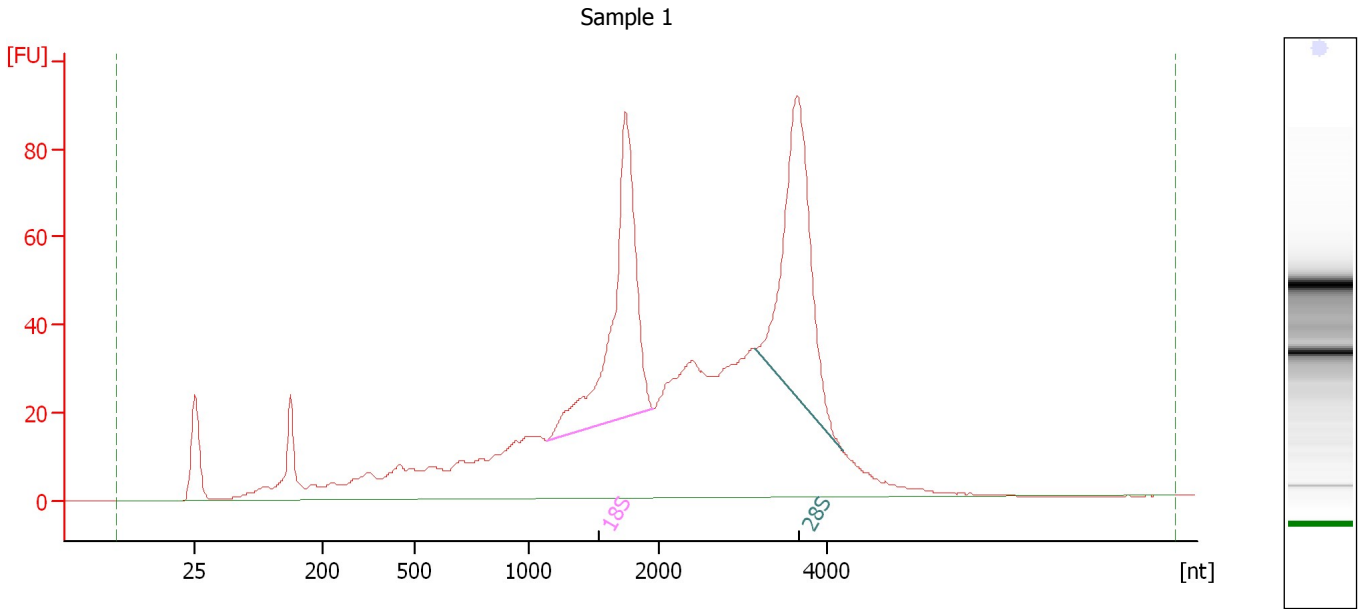
Overall Results for Ladder

RNA Area:	282.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	1,393.6	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	4,941 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.80

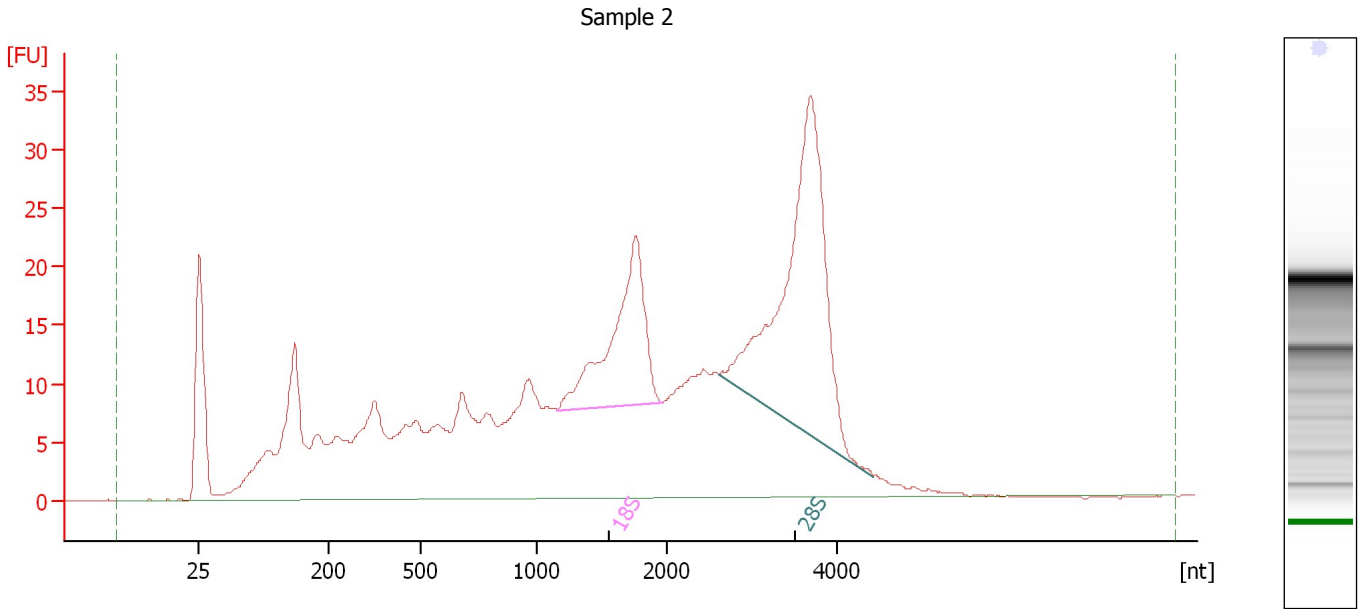
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,145	1,961	201.4	14.5
28S	3,138	4,171	194.4	13.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	704.7	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	2,498 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 7.60

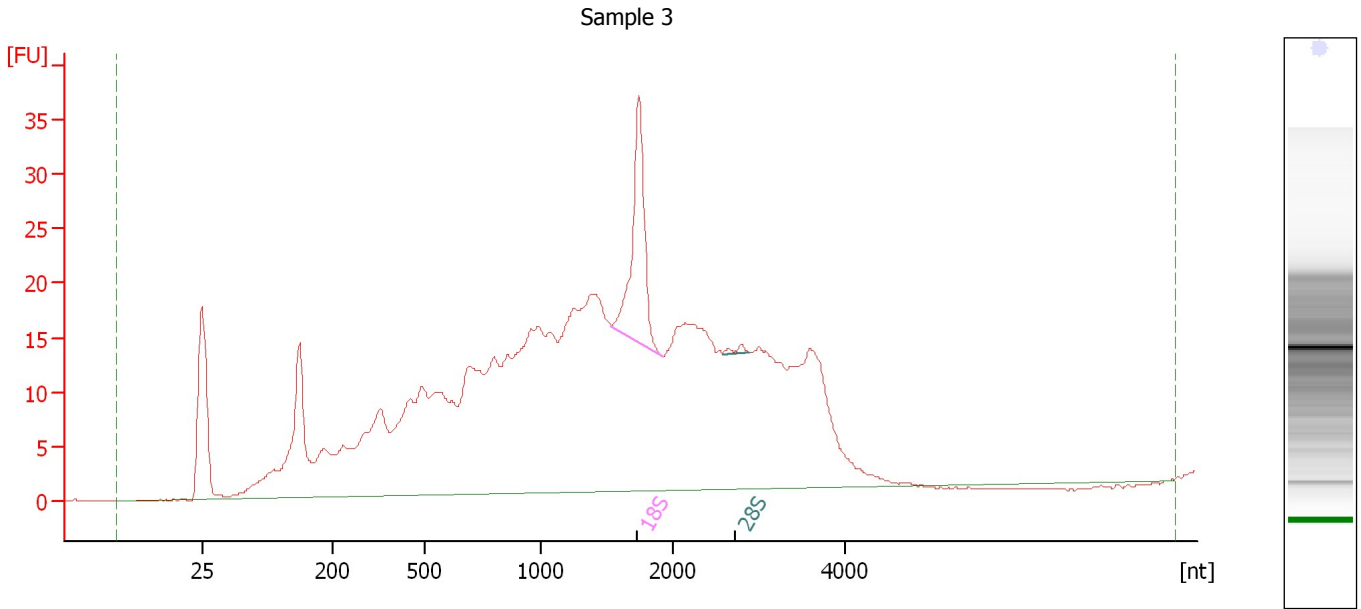
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,162	1,963	57.0	8.1
28S	2,619	4,418	119.2	16.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area: 762.6 RNA Integrity Number (RIN): 3.5 (B.02.08)
RNA Concentration: 2,704 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 3.50

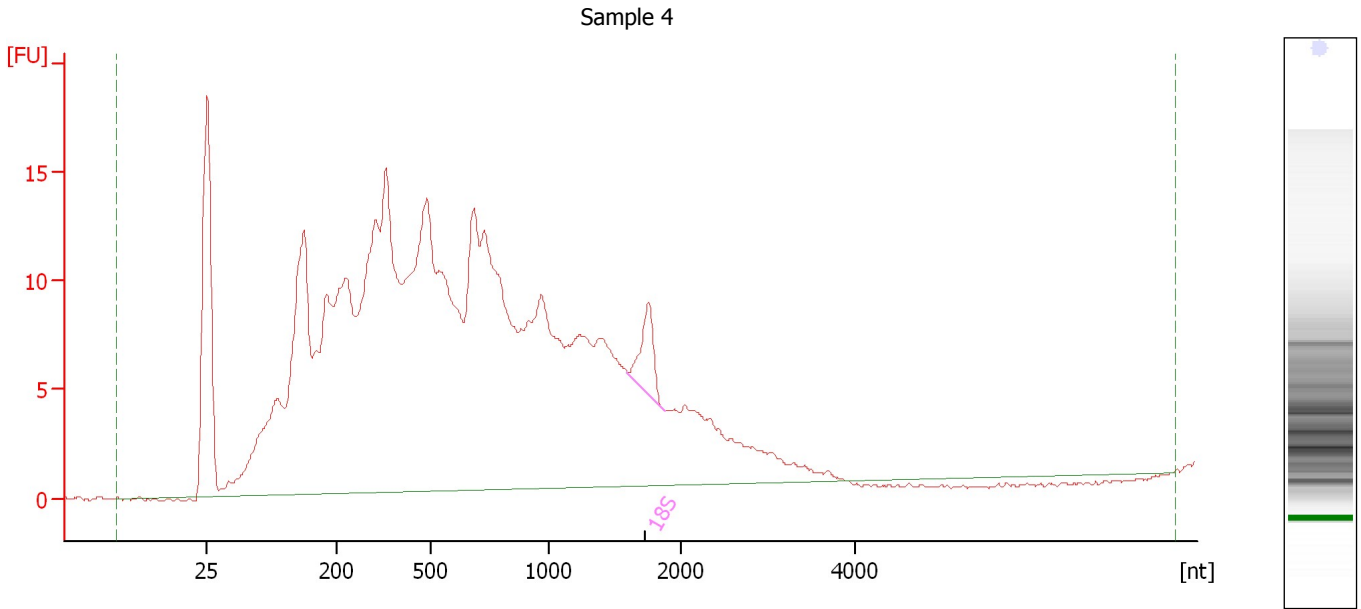
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,535	1,916	33.5	4.4
28S	2,580	2,890	0.7	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	487.1	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	1,727 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

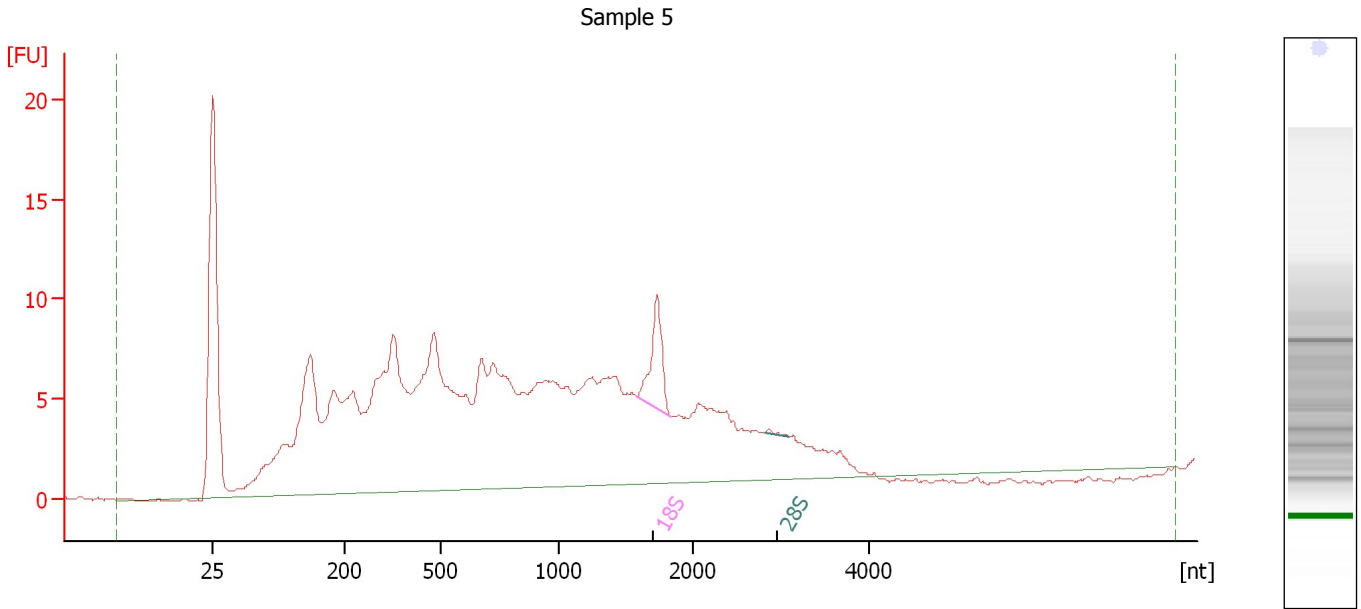
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,871	6.3	1.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	312.6	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	1,108 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

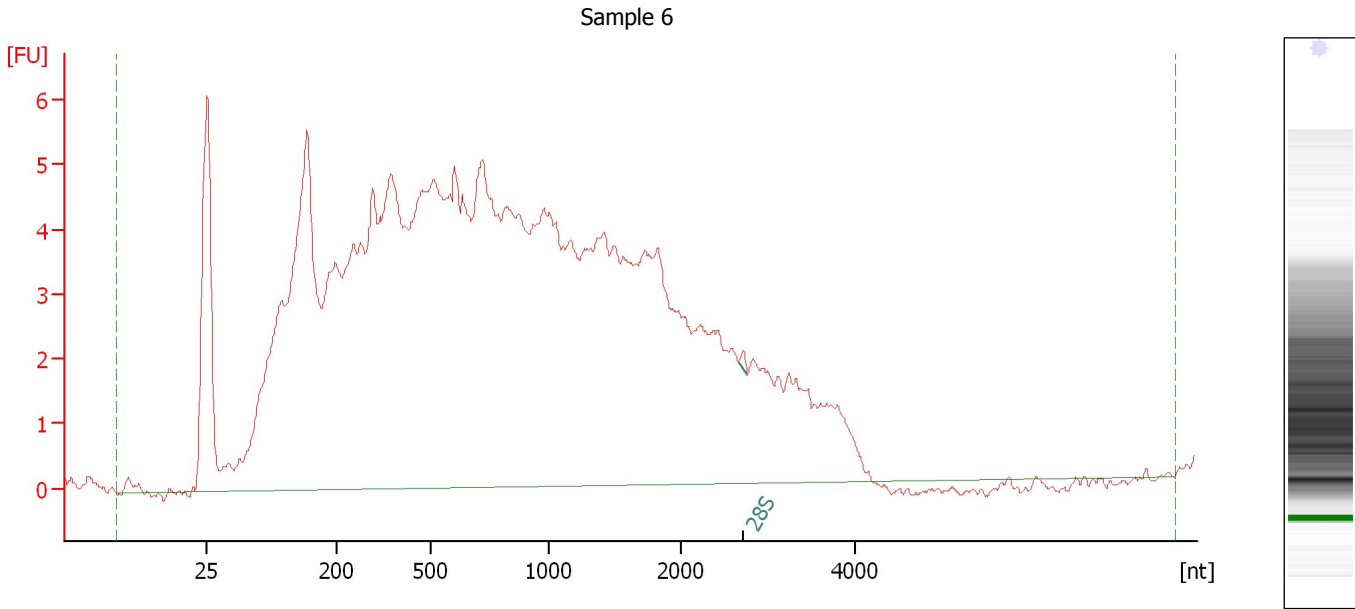
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,828	7.2	2.3
28S	2,807	3,086	0.2	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	247.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	878 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

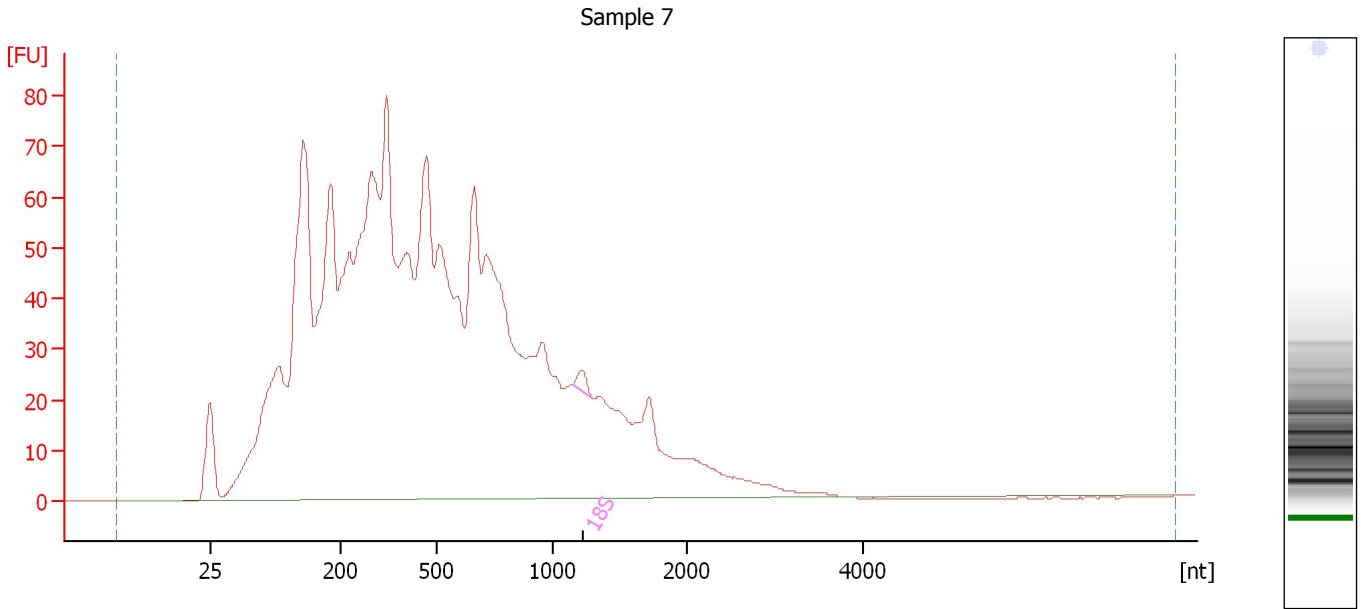
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,664	2,763	0.1	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	2,182.1	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	7,737 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

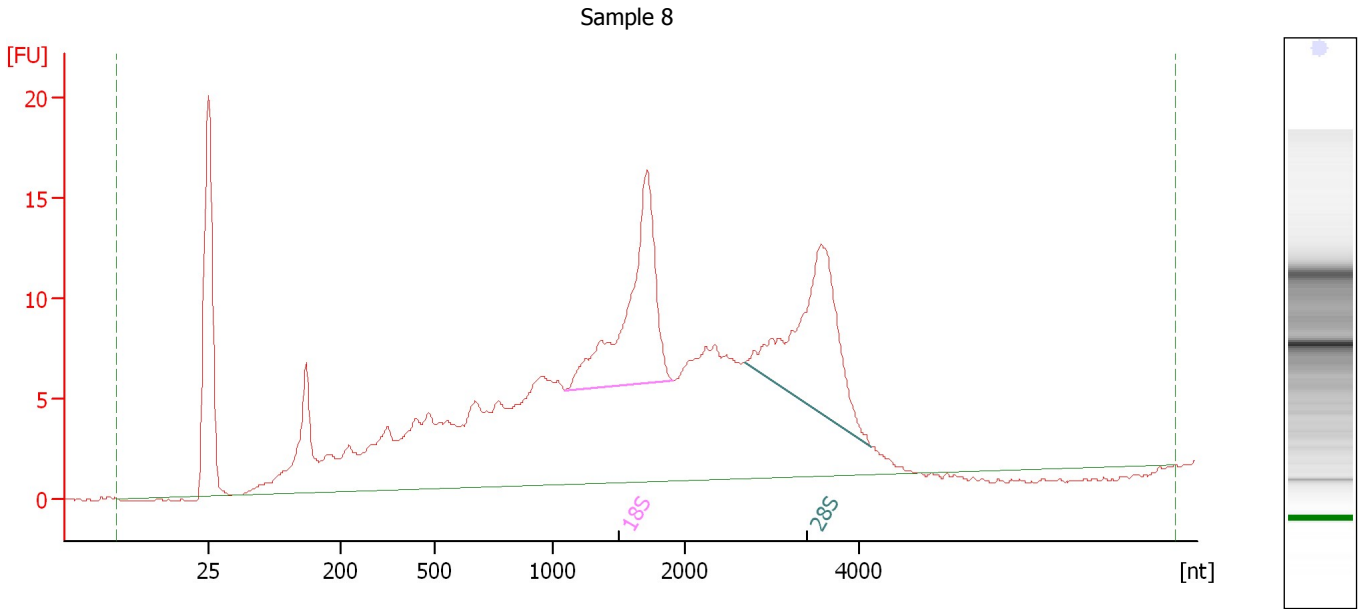
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,145	1,297	4.5	0.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	341.6	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	1,211 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.90

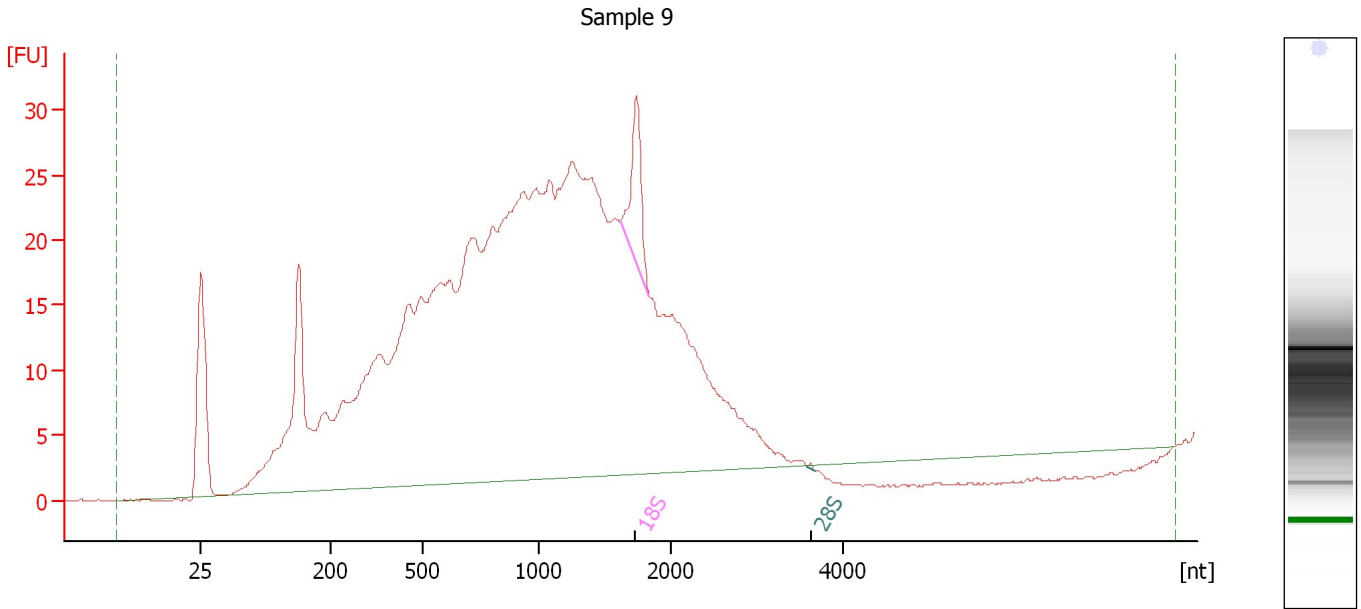
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,103	1,904	36.0	10.5
28S	2,675	4,122	36.1	10.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	827.9	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	2,935 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

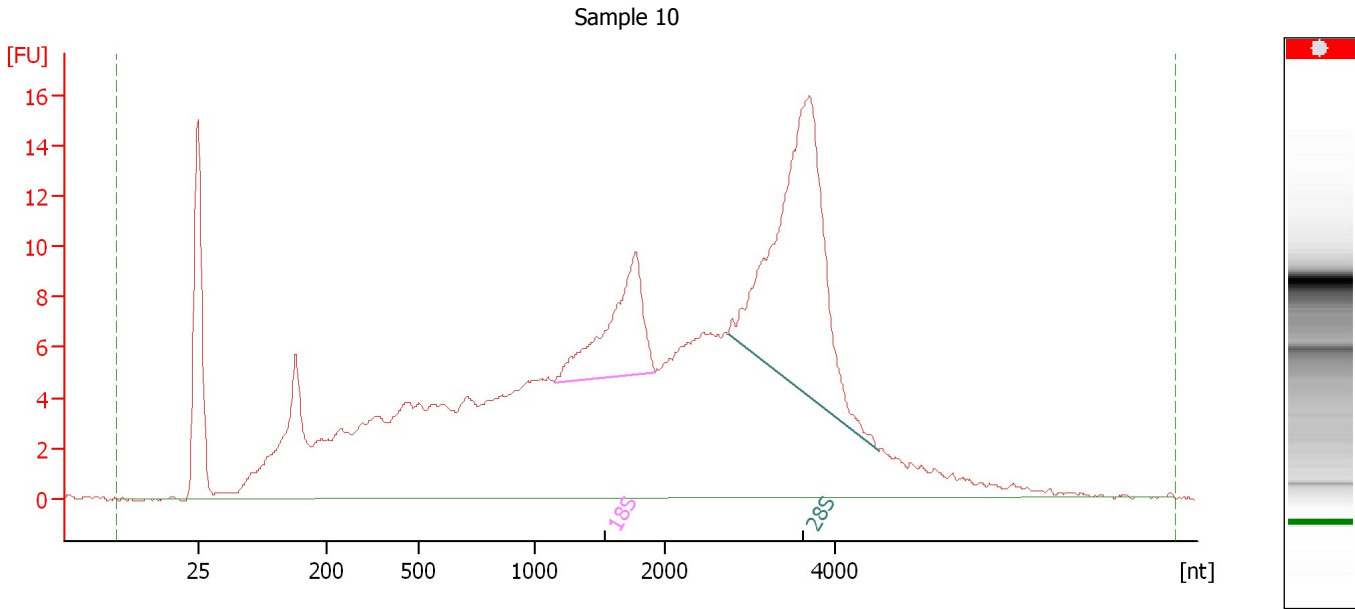
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,834	16.0	1.9
28S	3,588	3,675	0.1	0.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	389.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,380 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : Sample 10

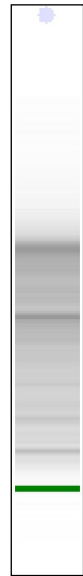
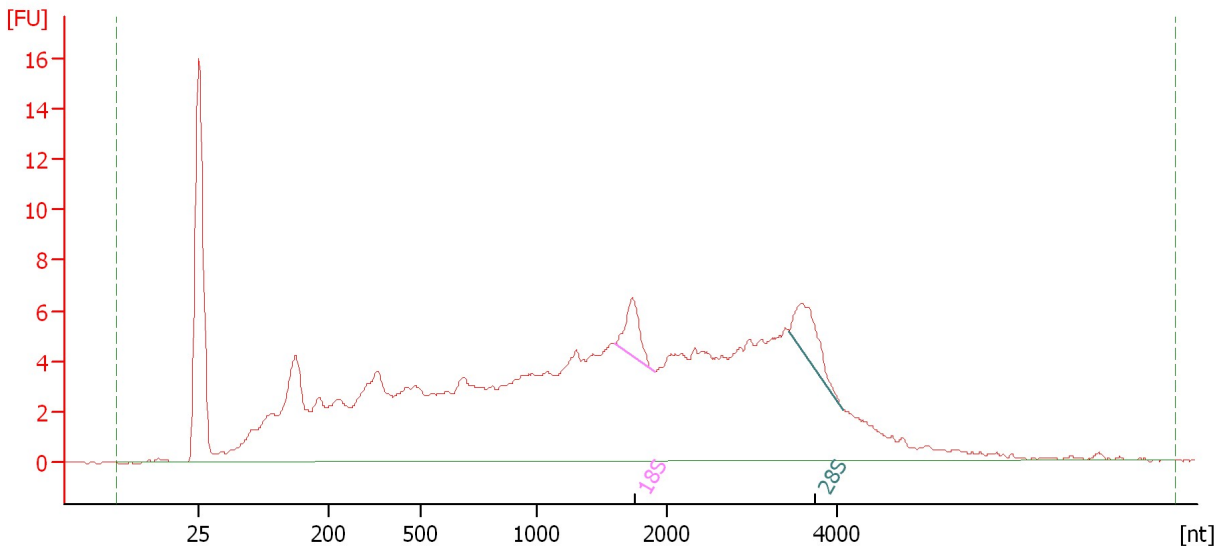
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,152	1,930	20.4	5.3
28S	2,745	4,510	58.8	15.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area:	261.4	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	927 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 3.10

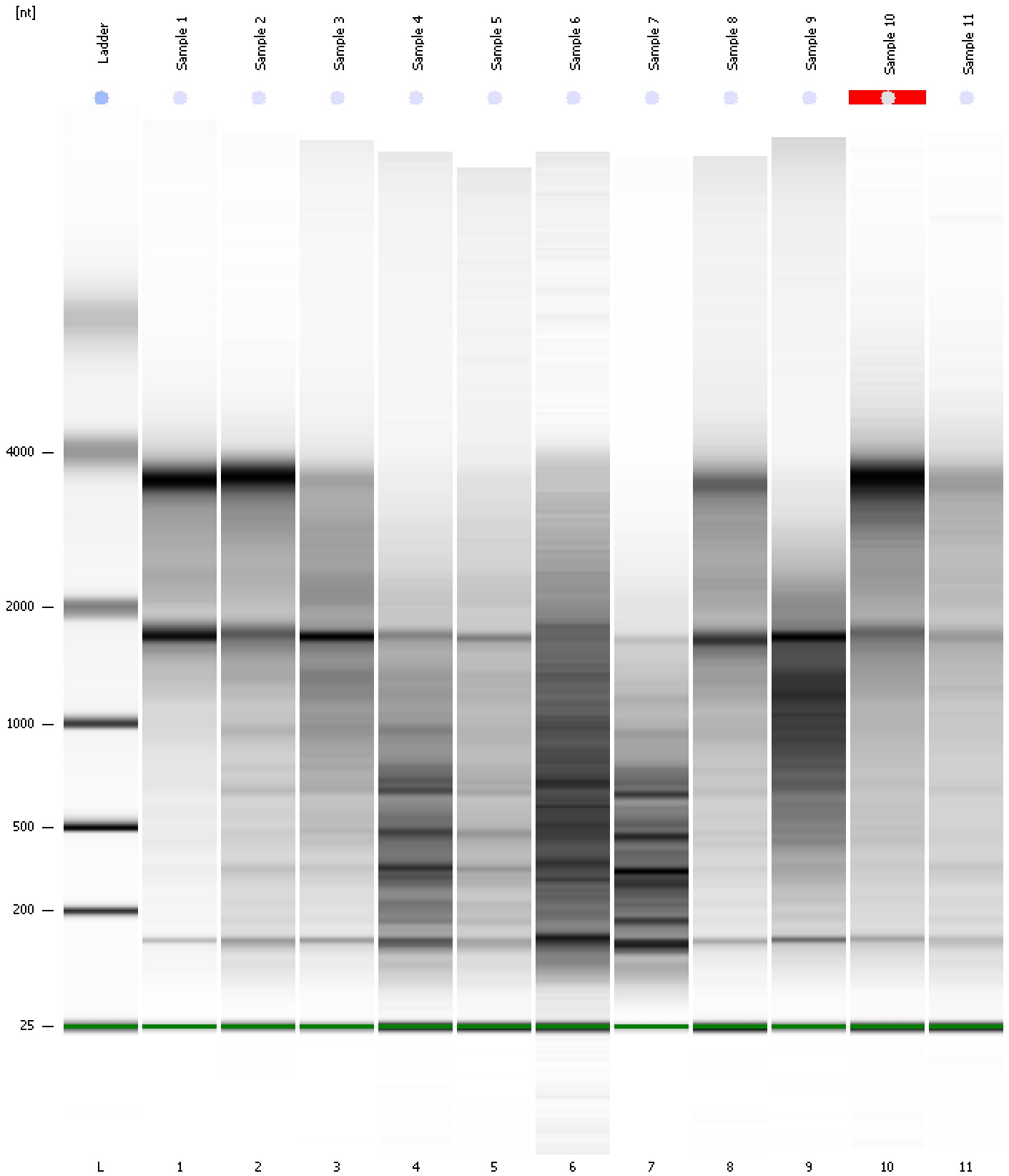
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,906	4.0	1.5
28S	3,431	4,056	5.0	1.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
Modified: 12/9/2015 3:13:50 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad

Created: 12/9/2015 2:50:57 PM
 Modified: 12/9/2015 3:13:50 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/9/2015 3:13:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-09\2015-12-09_003.xad)		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/9/2015 2:51:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1