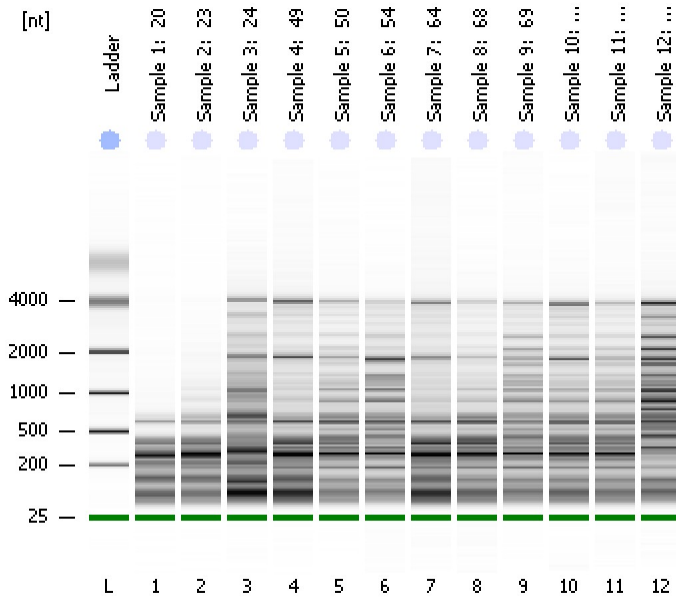


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electrophoresis File Run Summary



Instrument Information:

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

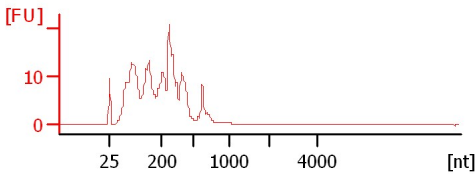
Assay Information:

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.

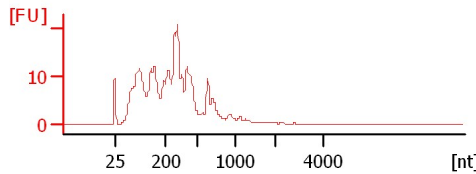
Chip Information:

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

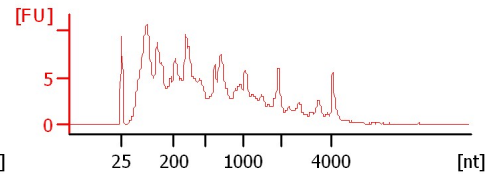
Sample 1: 20
Total RNA QC
RIN: 2.10



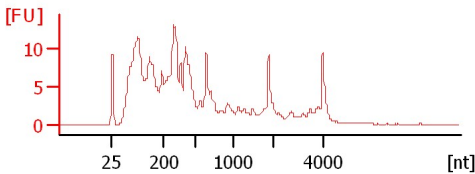
Sample 2: 23
Total RNA QC
RIN: 2.10



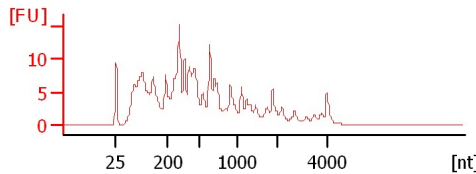
Sample 3: 24
Total RNA QC
RIN: 3.30



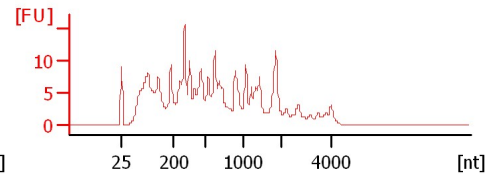
Sample 4: 49
Total RNA QC
RIN: 4.20



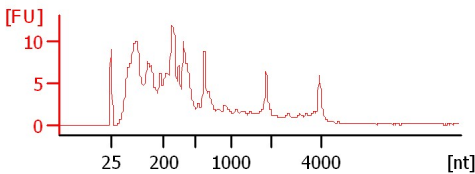
Sample 5: 50
Total RNA QC
RIN: 2.80



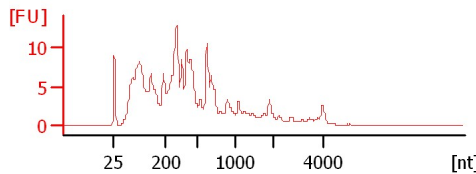
Sample 6: 54
Total RNA QC
RIN: 4.10



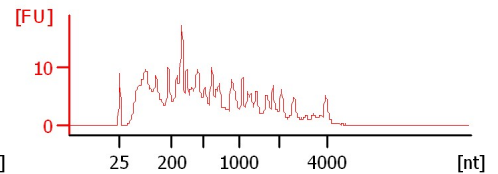
Sample 7: 64
Total RNA QC
RIN: 3.40



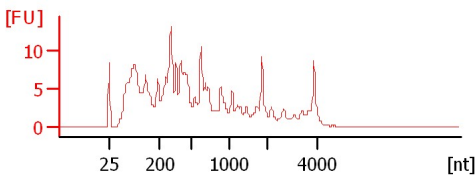
Sample 8: 68
Total RNA QC
RIN: 2.60



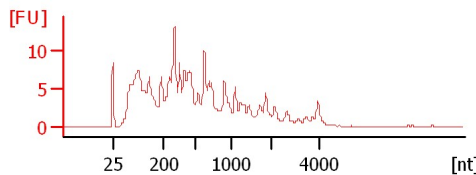
Sample 9: 69
Total RNA QC
RIN: 2.80



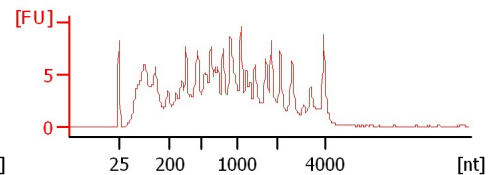
Sample 10: 73
Total RNA QC
RIN: 3.90



Sample 11: 75
Total RNA QC
RIN: 2.70



Sample 12: 78
Total RNA QC
RIN: 3.50



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
 Modified: 2/20/2015 11:12:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1: 20	Total RNA QC	✓	RIN: 2.10	
Sample 2: 23	Total RNA QC	✓	RIN: 2.10	
Sample 3: 24	Total RNA QC	✓	RIN: 3.30	
Sample 4: 49	Total RNA QC	✓	RIN: 4.20	
Sample 5: 50	Total RNA QC	✓	RIN: 2.80	
Sample 6: 54	Total RNA QC	✓	RIN: 4.10	
Sample 7: 64	Total RNA QC	✓	RIN: 3.40	
Sample 8: 68	Total RNA QC	✓	RIN: 2.60	
Sample 9: 69	Total RNA QC	✓	RIN: 2.80	
Sample 10: 73	Total RNA QC	✓	RIN: 3.90	
Sample 11: 75	Total RNA QC	✓	RIN: 2.70	
Sample 12: 78	Total RNA QC	✓	RIN: 3.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 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

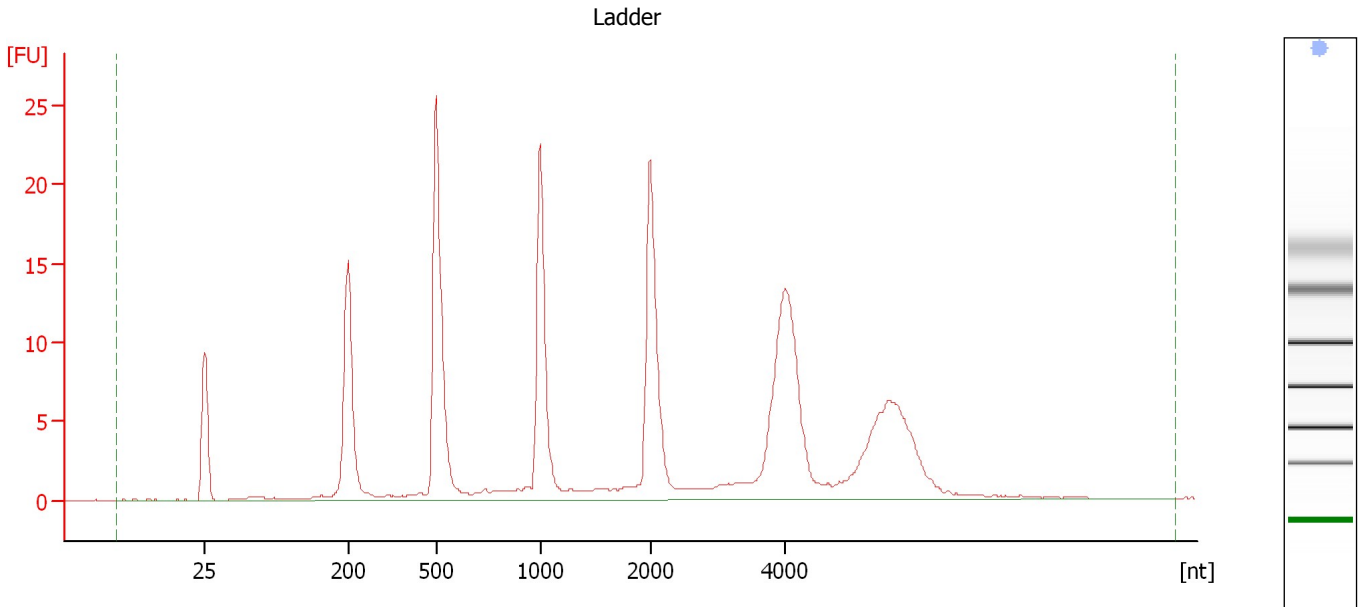
Ladder

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\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary



Overall Results for Ladder

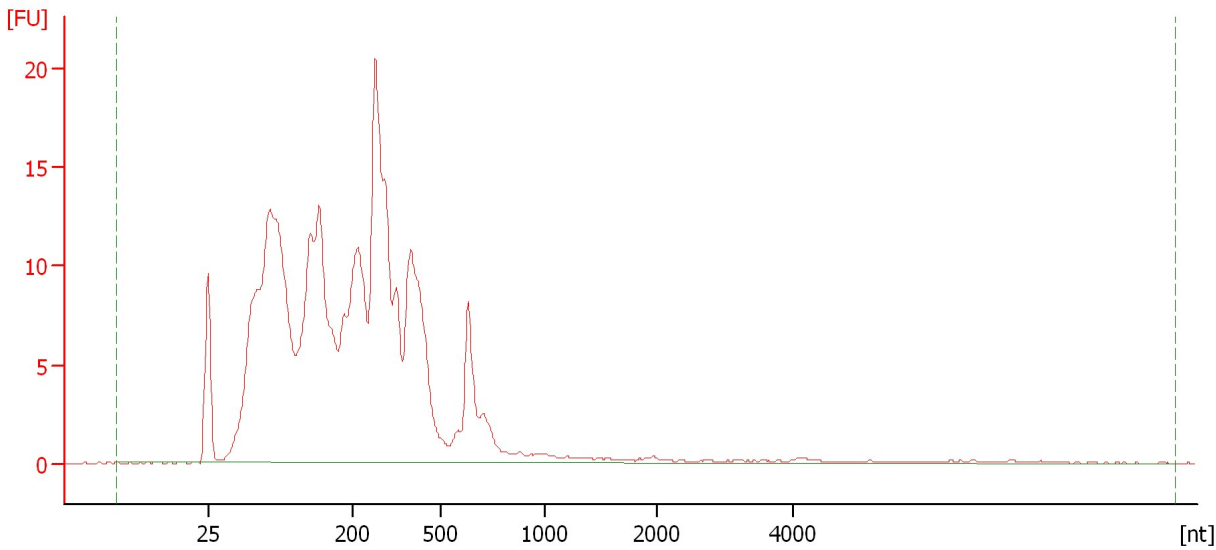
RNA Area:	202.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 1: 20 [Total RNA QC]



Overall Results for sample 1 : Sample 1: 20

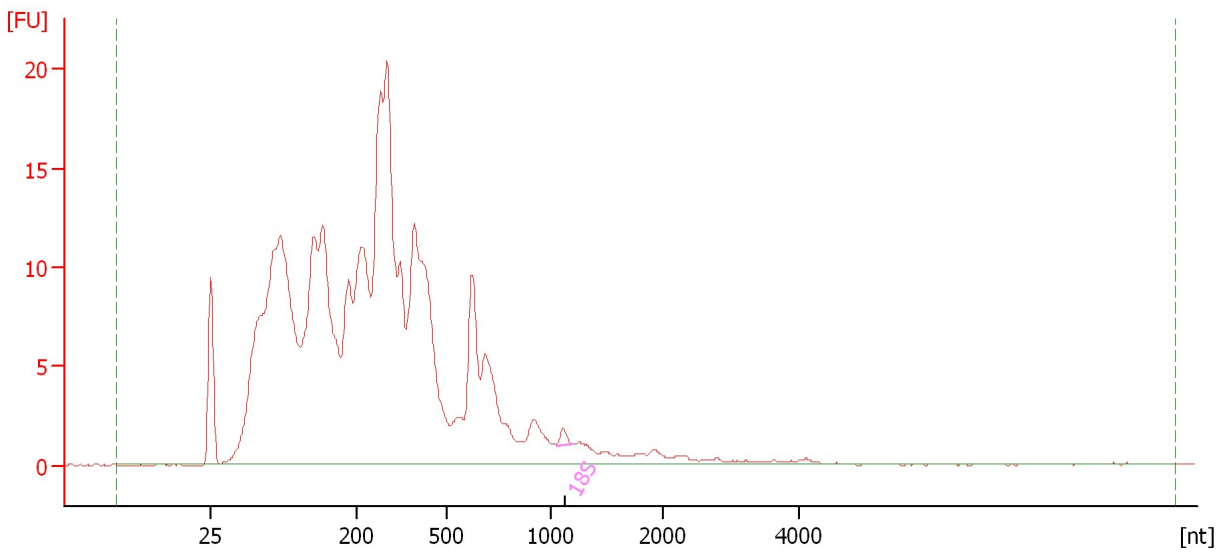
RNA Area:	308.7	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	228 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 2: 23 [Total RNA QC]



Overall Results for sample 2 : Sample 2: 23

RNA Area:	343.9	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	254 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Fragment table for sample 2 : Sample 2: 23

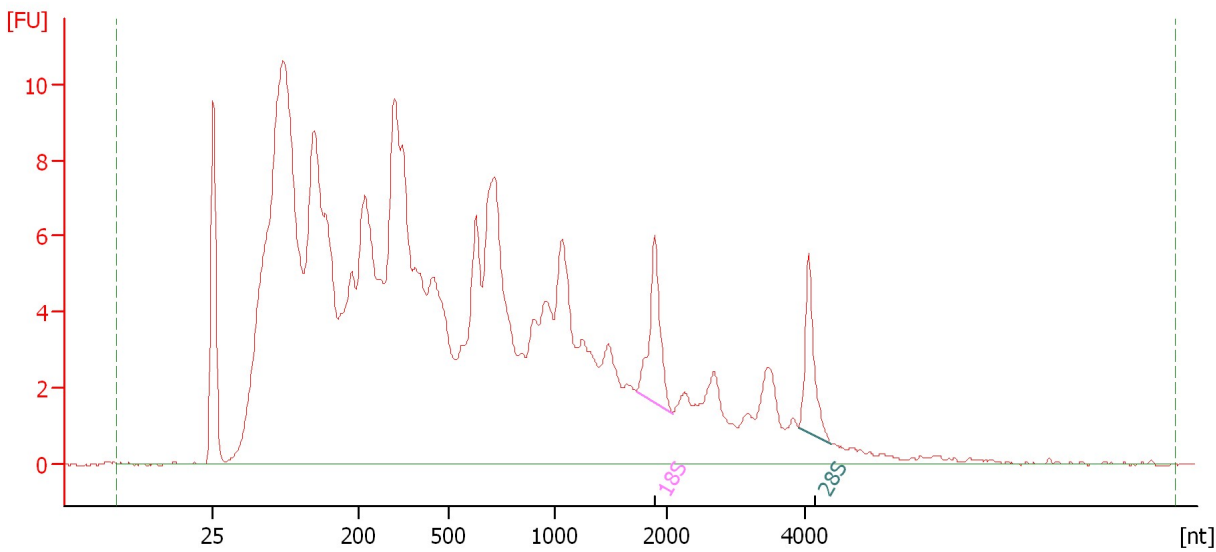
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,048	1,191	0.7	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 3: 24 [Total RNA QC]



Overall Results for sample 3 : Sample 3: 24

RNA Area:	313.4	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	232 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 3.30

Fragment table for sample 3 : Sample 3: 24

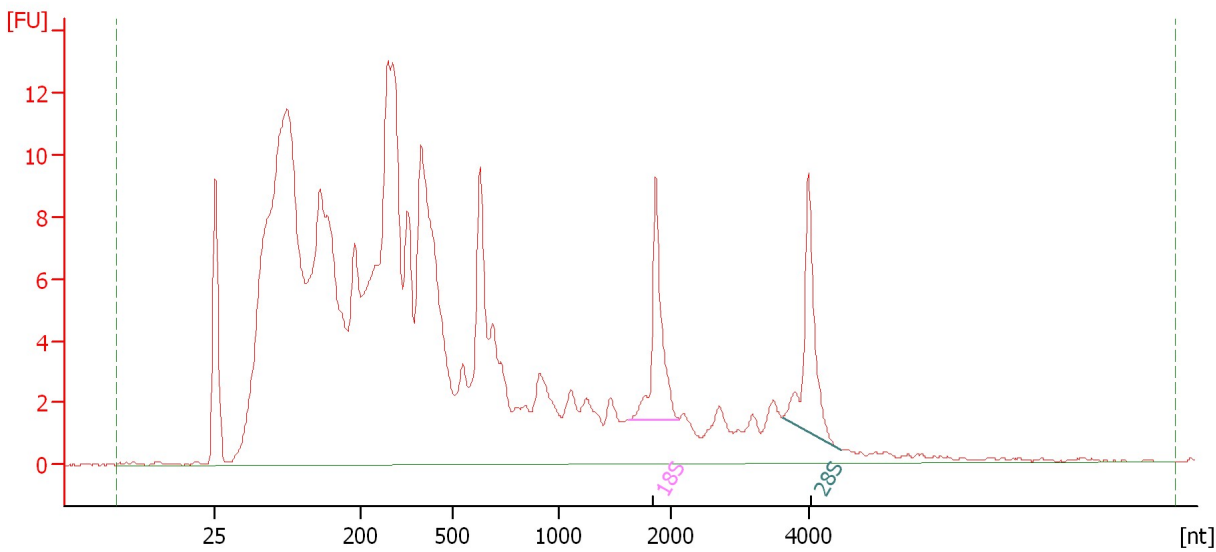
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,091	5.6	1.8
28S	3,919	4,399	4.3	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 4: 49 [Total RNA QC]



Overall Results for sample 4 : Sample 4: 49

RNA Area:	330.7	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	244 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 4.20

Fragment table for sample 4 : Sample 4: 49

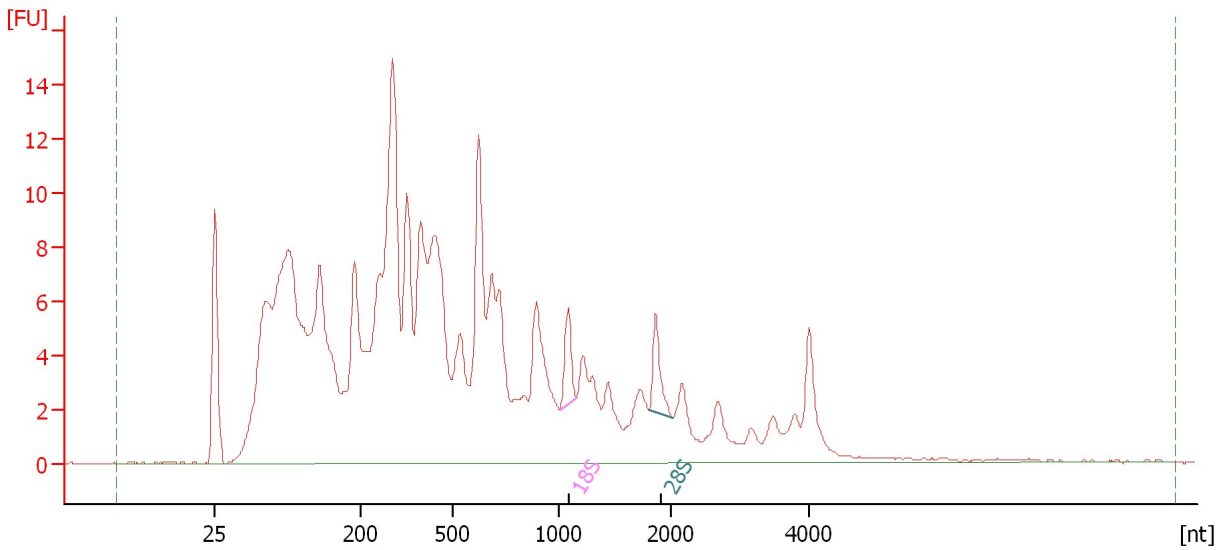
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	2,125	8.7	2.6
28S	3,621	4,454	9.2	2.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 5: 50 [Total RNA QC]



Overall Results for sample 5 : Sample 5: 50

RNA Area:	307.5	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	227 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 2.80

Fragment table for sample 5 : Sample 5: 50

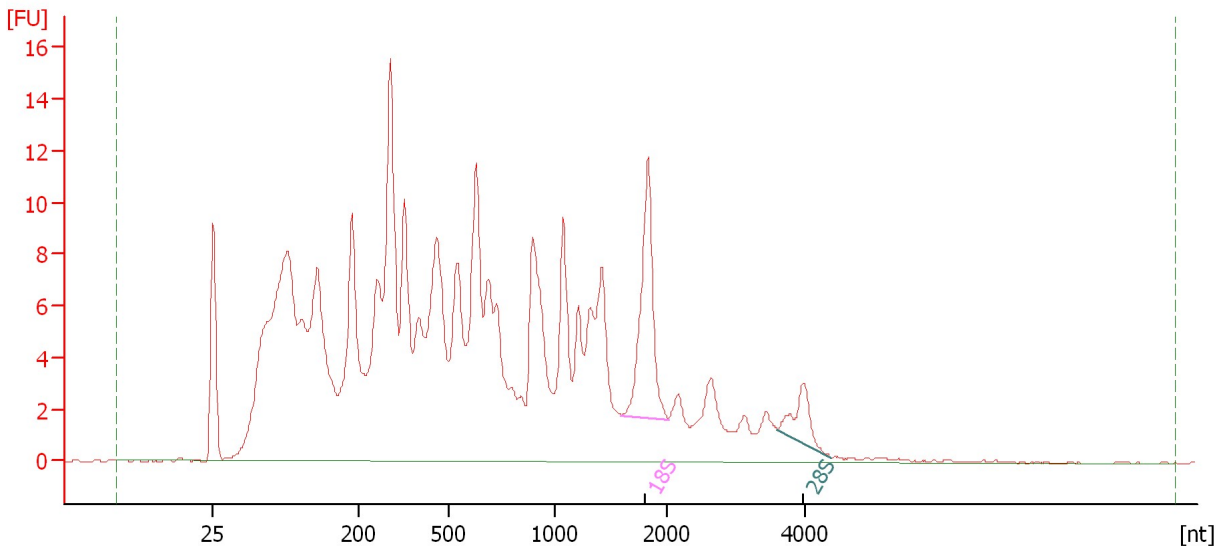
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,022	1,164	2.8	0.9
28S	1,801	2,033	3.2	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 6: 54 [Total RNA QC]



Overall Results for sample 6 : Sample 6: 54

RNA Area:	335.0	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	248 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 4.10

Fragment table for sample 6 : Sample 6: 54

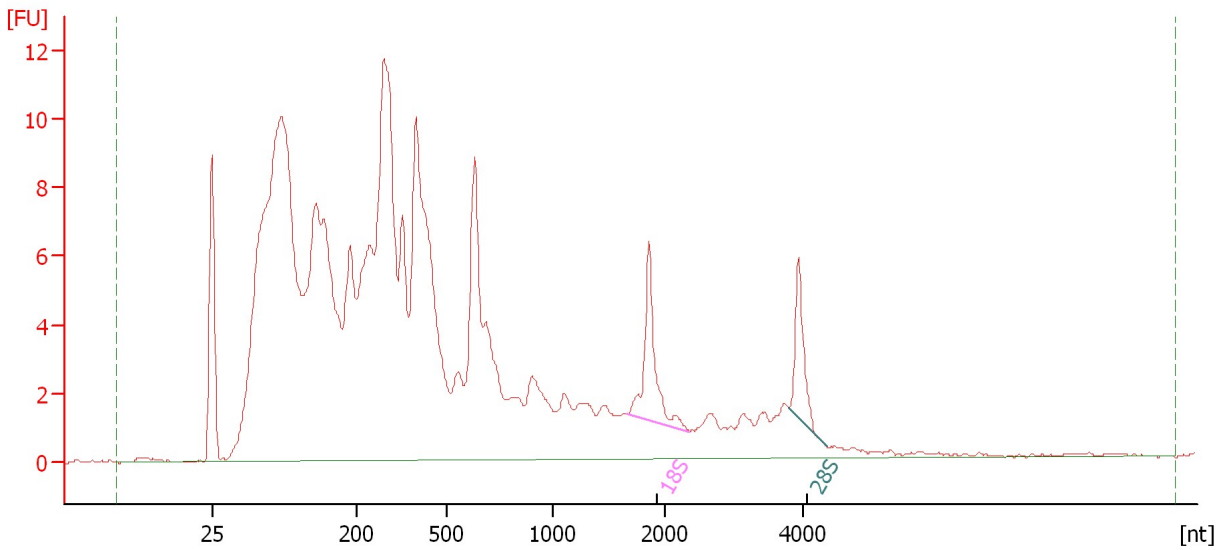
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	2,029	14.0	4.2
28S	3,609	4,383	3.6	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 7: 64 [Total RNA QC]



Overall Results for sample 7 : Sample 7: 64

RNA Area: 290.0 RNA Integrity Number (RIN): 3.4 (B.02.08)
RNA Concentration: 214 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 3.40

Fragment table for sample 7 : Sample 7: 64

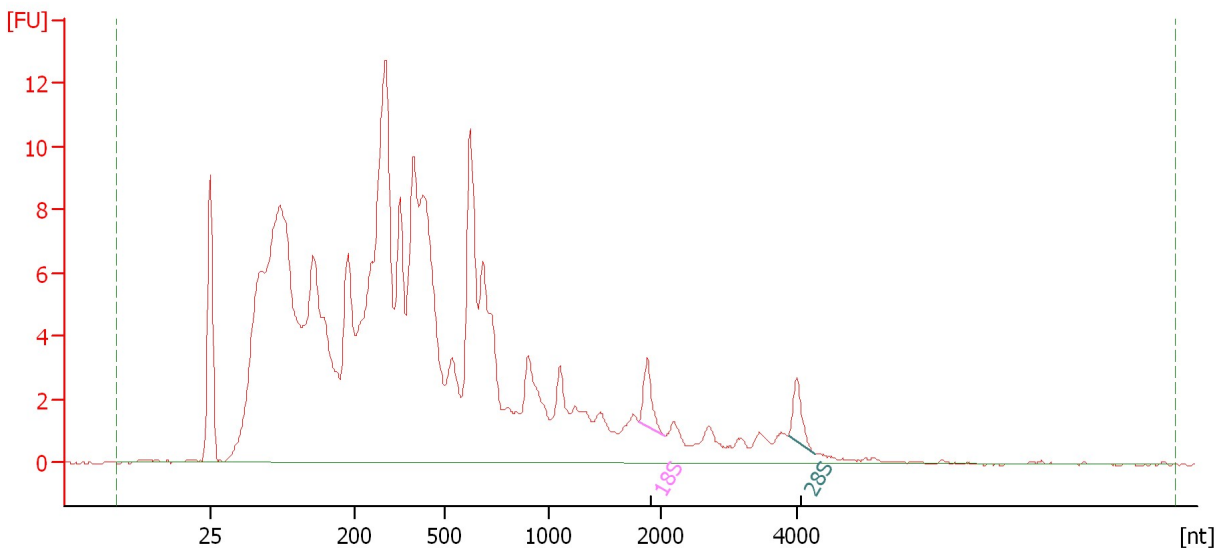
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,369	6.4	2.2
28S	3,797	4,355	4.1	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 8: 68 [Total RNA QC]



Overall Results for sample 8 : Sample 8: 68

RNA Area: 266.2 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 197 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 2.60

Fragment table for sample 8 : Sample 8: 68

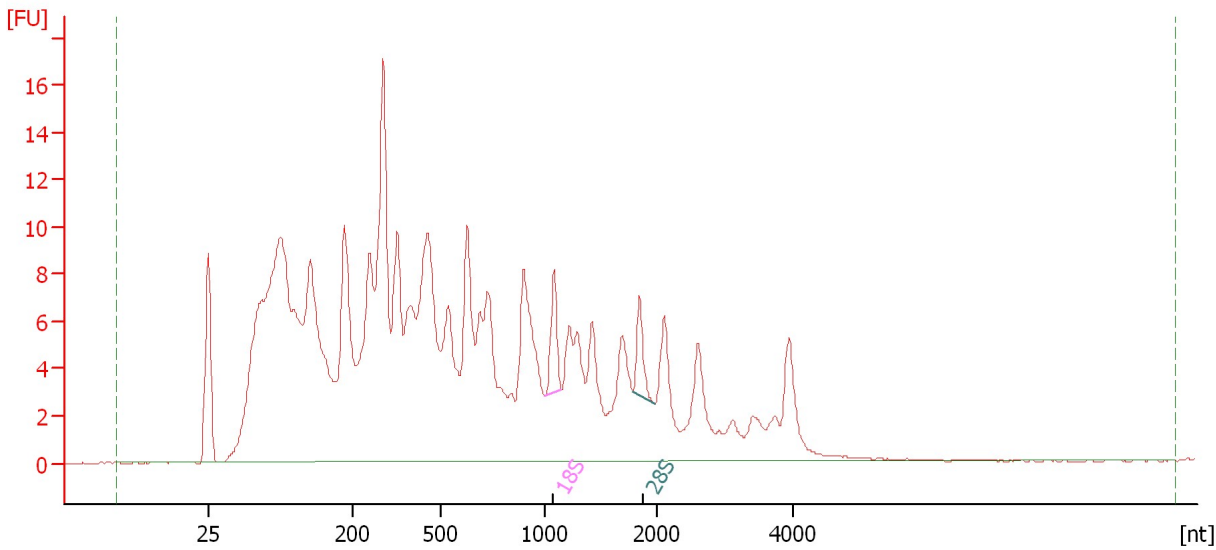
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,803	2,055	2.1	0.8
28S	3,863	4,253	1.8	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 9: 69 [Total RNA QC]



Overall Results for sample 9 : Sample 9: 69

RNA Area: 365.7 RNA Integrity Number (RIN): 2.8 (B.02.08)
RNA Concentration: 270 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 2.80

Fragment table for sample 9 : Sample 9: 69

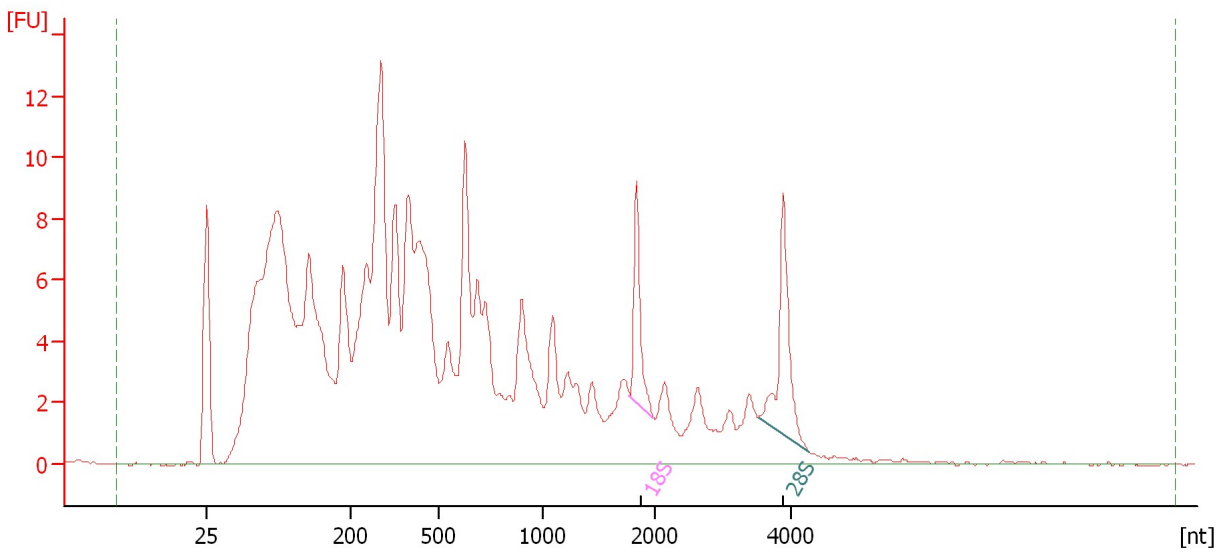
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,000	1,144	4.0	1.1
28S	1,791	1,984	3.2	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 10: 73 [Total RNA QC]



Overall Results for sample 10 : Sample 10: 73

RNA Area:	298.1	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	220 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 3.90

Fragment table for sample 10 : Sample 10: 73

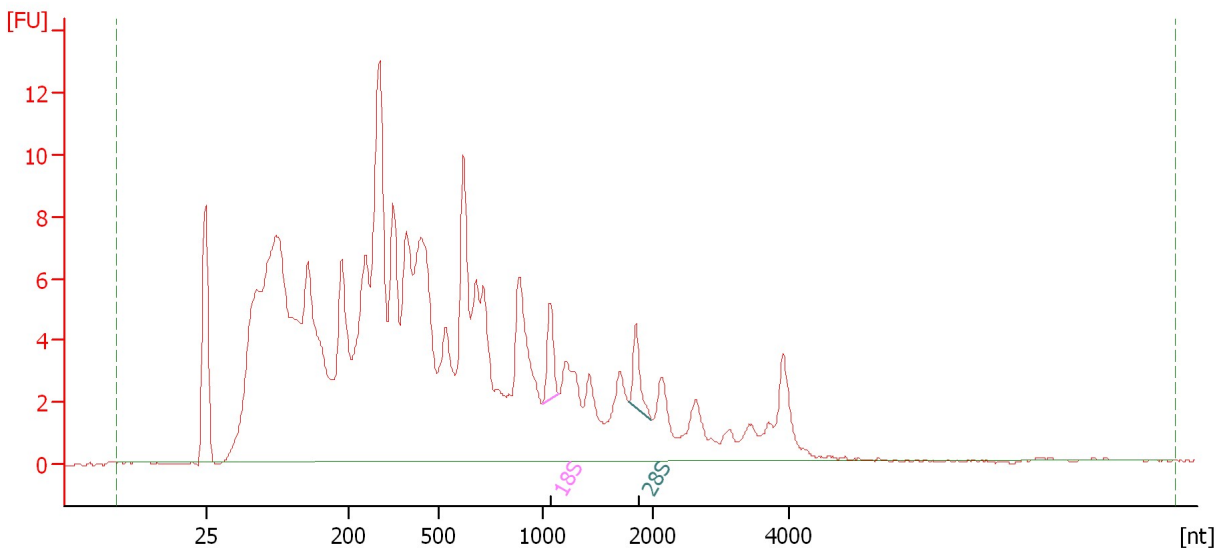
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,779	1,992	5.7	1.9
28S	3,524	4,277	8.3	2.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 11: 75 [Total RNA QC]



Overall Results for sample 11 : Sample 11: 75

RNA Area: 274.3 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 203 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 2.70

Fragment table for sample 11 : Sample 11: 75

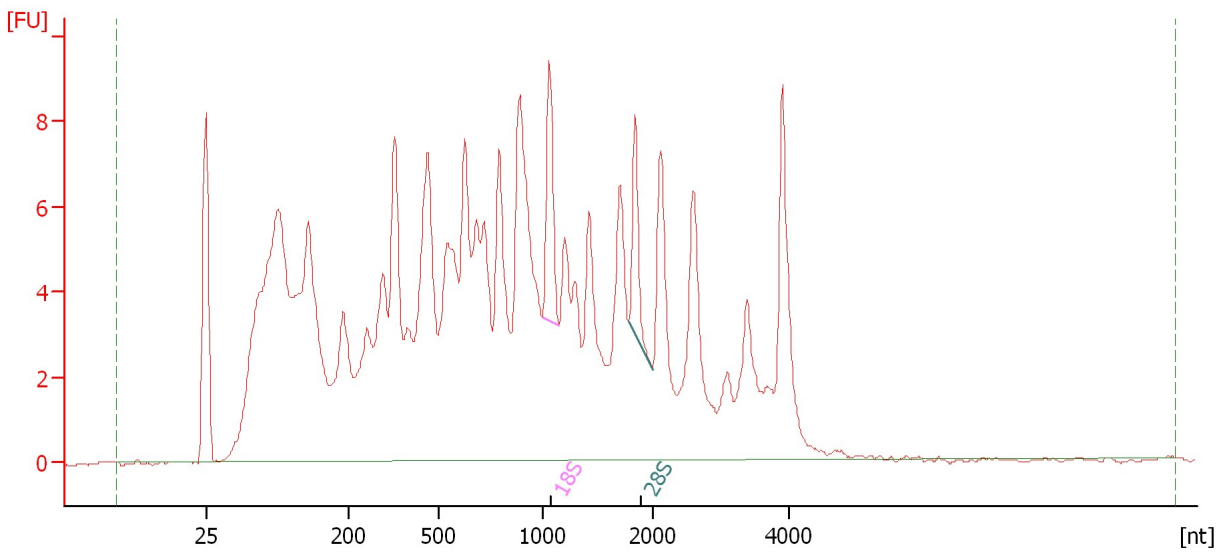
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,003	1,158	2.4	0.9
28S	1,787	1,991	2.3	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Electropherogram Summary Continued ...

Sample 12: 78 [Total RNA QC]



Overall Results for sample 12 : Sample 12: 78

RNA Area: 273.3 RNA Integrity Number (RIN): 3.5 (B.02.08)
RNA Concentration: 202 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 3.50

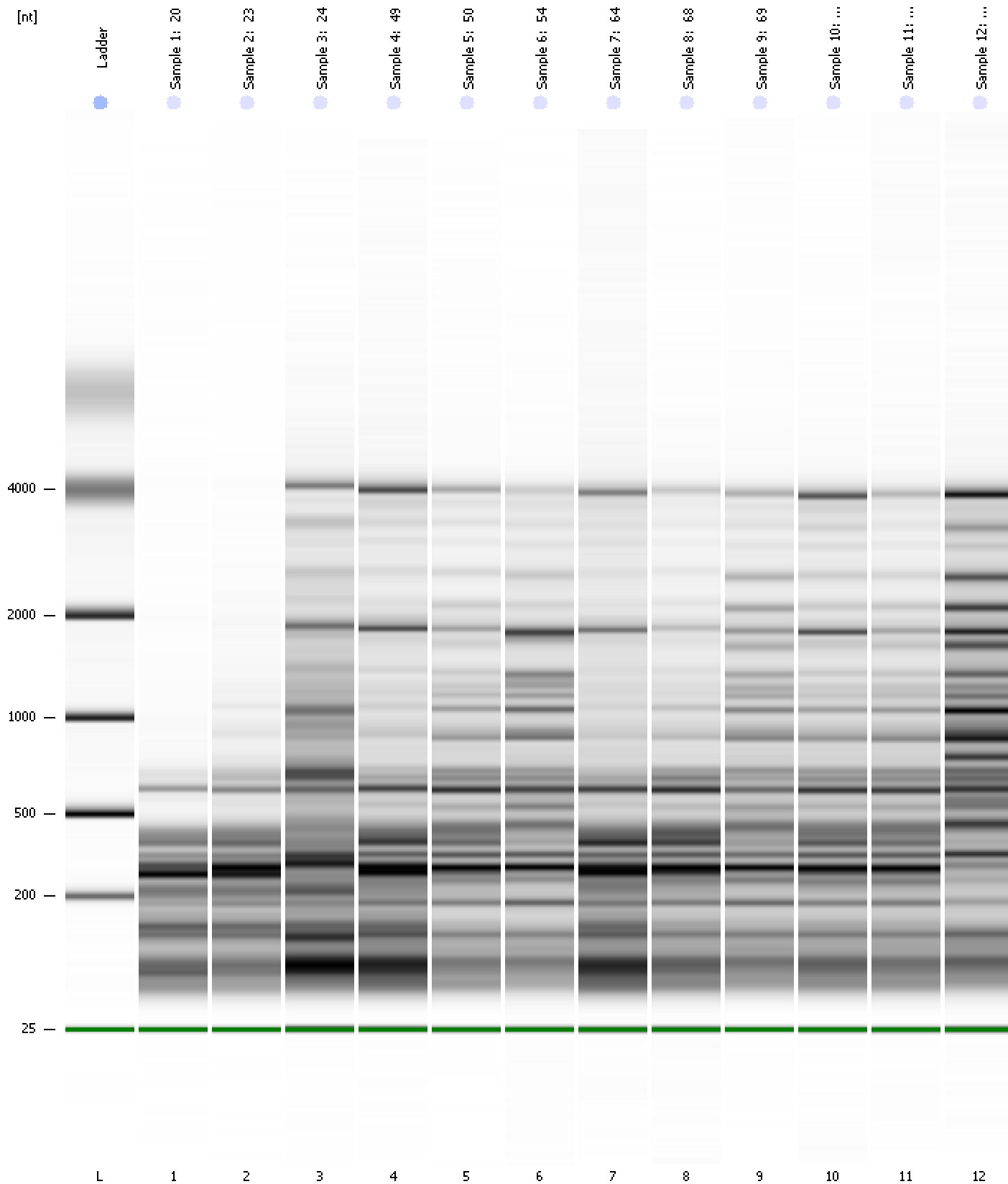
Fragment table for sample 12 : Sample 12: 78

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,003	1,158	4.9	1.8
28S	1,787	2,001	3.8	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
Modified: 2/20/2015 11:12:24 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad

Created: 2/20/2015 10:48:30 AM
 Modified: 2/20/2015 11:12:24 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		2/20/2015 11:12:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-20\2015-02-20_003.xad)		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/20/2015 10:48:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1