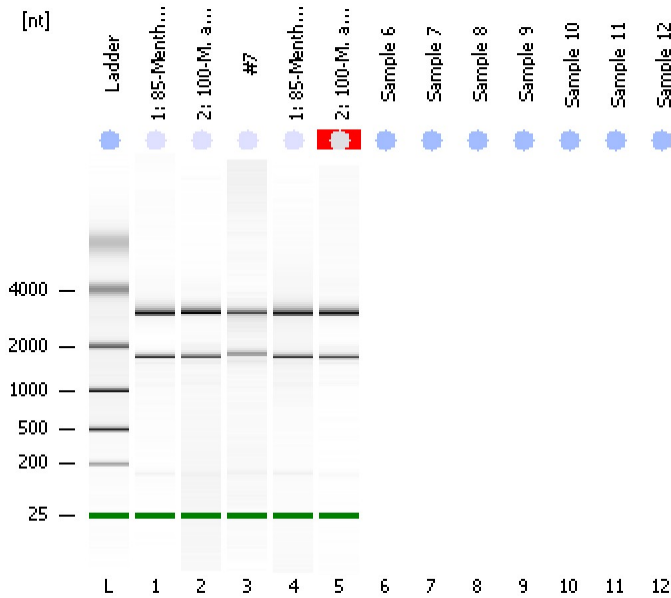


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
 Modified: 12/22/2016 5:21:24 PM

Electrophoresis File Run Summary



Instrument Information:

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

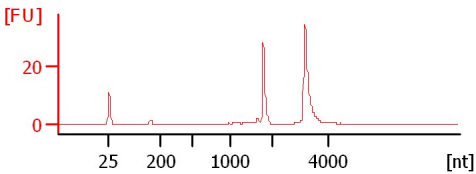
Assay Information:

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.

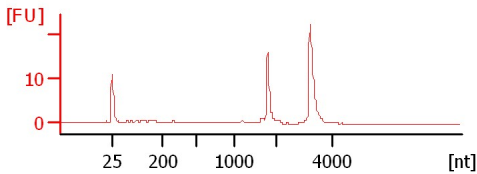
Chip Information:

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

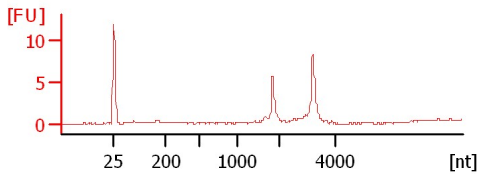
1: 85-Mentha suaveolens 10021
 QC_145
 RIN: 9.70



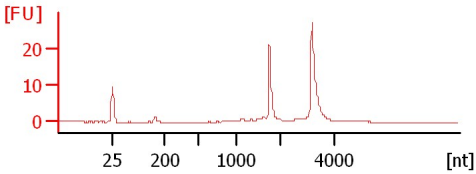
2: 100-M. aquatica 10172
 QC_145
 RIN: 9.60



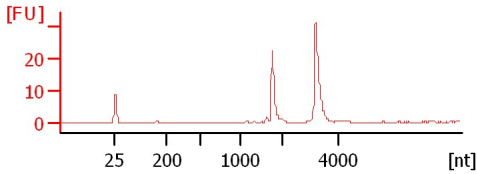
#7
 HiSeq_787 Total RNA QC
 RIN: 8.80



1: 85-Mentha suaveolens 10021
 QC_145
 RIN: 9.70



2: 100-M. aquatica 10172
 QC_145
 RIN: N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1: 85-Mentha suaveolens 10021	QC_145	✓	RIN: 9.70	
2: 100-M. aquatica 10172	QC_145	✓	RIN: 9.60	
#7	HiSeq_787 Total RNA QC	✓	RIN: 8.80	
1: 85-Mentha suaveolens 10021	QC_145	✓	RIN: 9.70	
2: 100-M. aquatica 10172	QC_145	✓	RIN N/A	
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 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/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

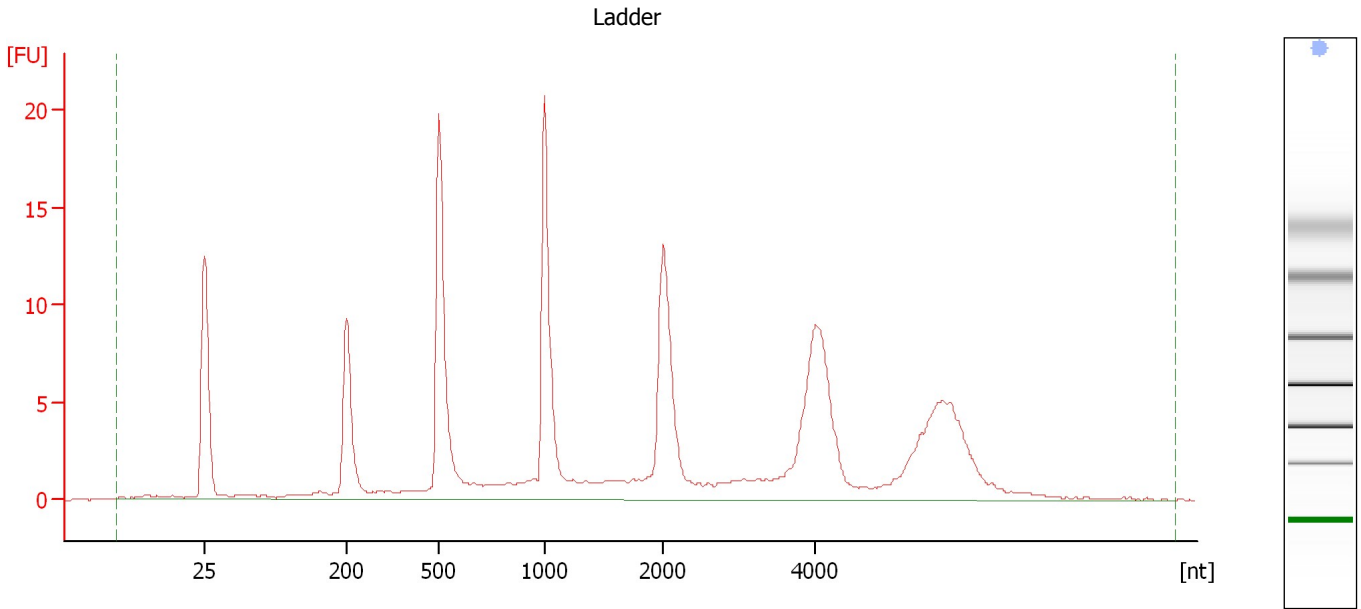
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary



Overall Results for Ladder

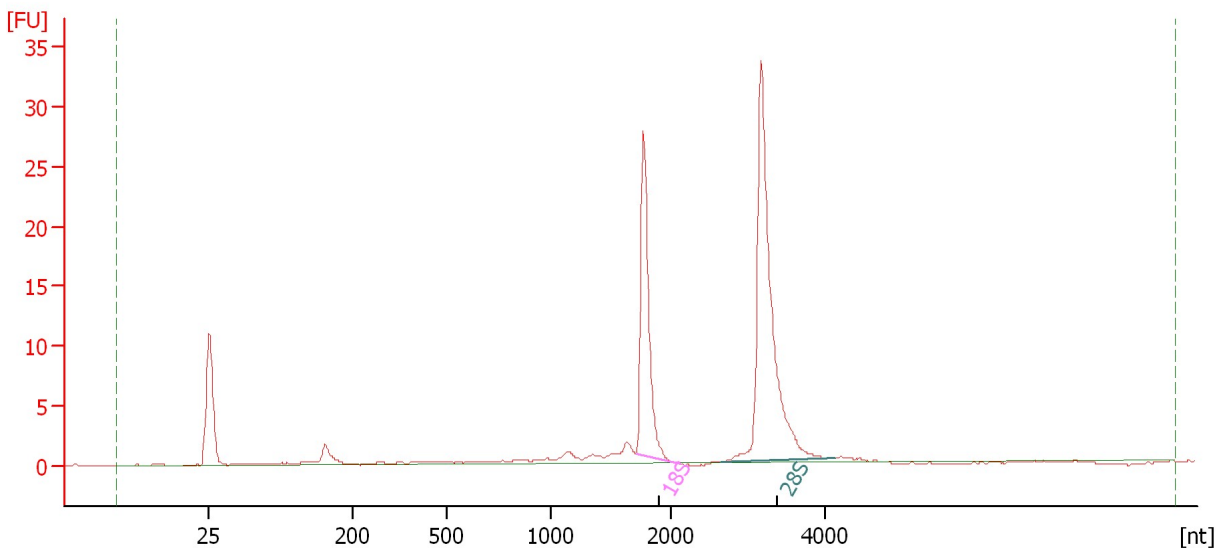
RNA Area:	176.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary Continued ...

1: 85-Mentha suaveolens 10021 [QC_145]



Overall Results for sample 1 : 1: 85-Mentha suaveolens 10021

RNA Area: 98.9 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 84 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.70

Fragment table for sample 1 : 1: 85-Mentha suaveolens 10021

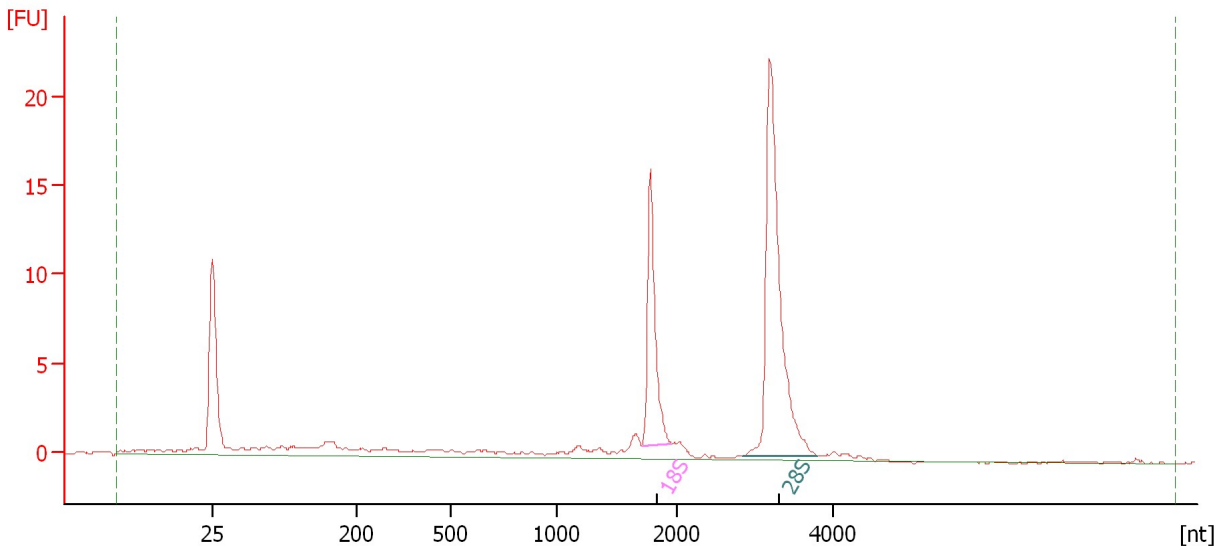
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	2,129	25.4	25.6
28S	2,643	4,126	50.0	50.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary Continued ...

2: 100-M. aquatica 10172 [QC_145]



Overall Results for sample 2 : 2: 100-M. aquatica 10172

RNA Area: 78.6 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 67 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 9.60

Fragment table for sample 2 : 2: 100-M. aquatica 10172

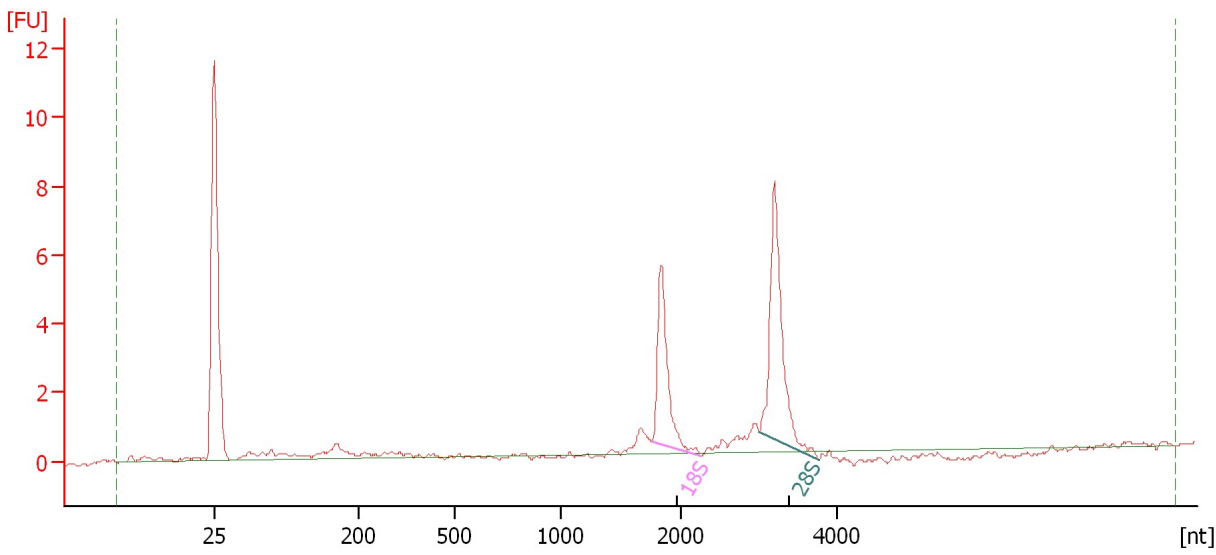
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	1,952	14.5	18.4
28S	2,835	3,800	32.1	40.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary Continued ...

#7 [HiSeq_787 Total RNA QC]



Overall Results for sample 3 : #7

RNA Area:	26.4	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.80

Fragment table for sample 3 : #7

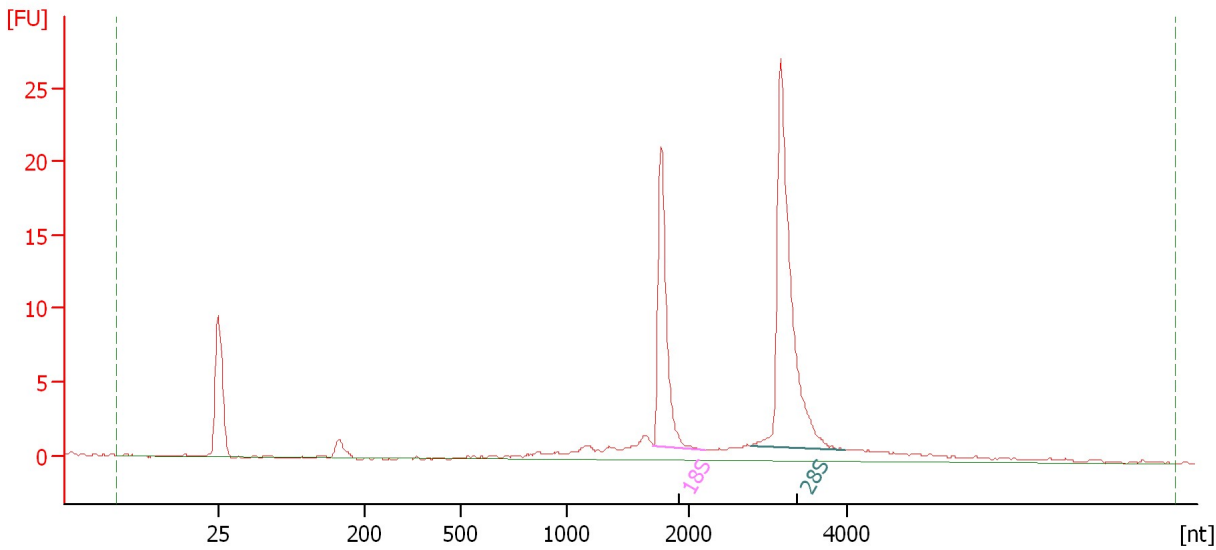
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,759	2,244	6.0	22.9
28S	2,999	3,767	9.3	35.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary Continued ...

1: 85-Mentha suaveolens 10021 [QC_145]



Overall Results for sample 4 : 1: 85-Mentha suaveolens 10021

RNA Area: 94.9 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 81 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.70

Fragment table for sample 4 : 1: 85-Mentha suaveolens 10021

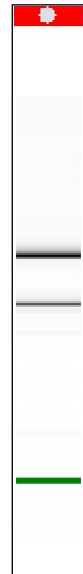
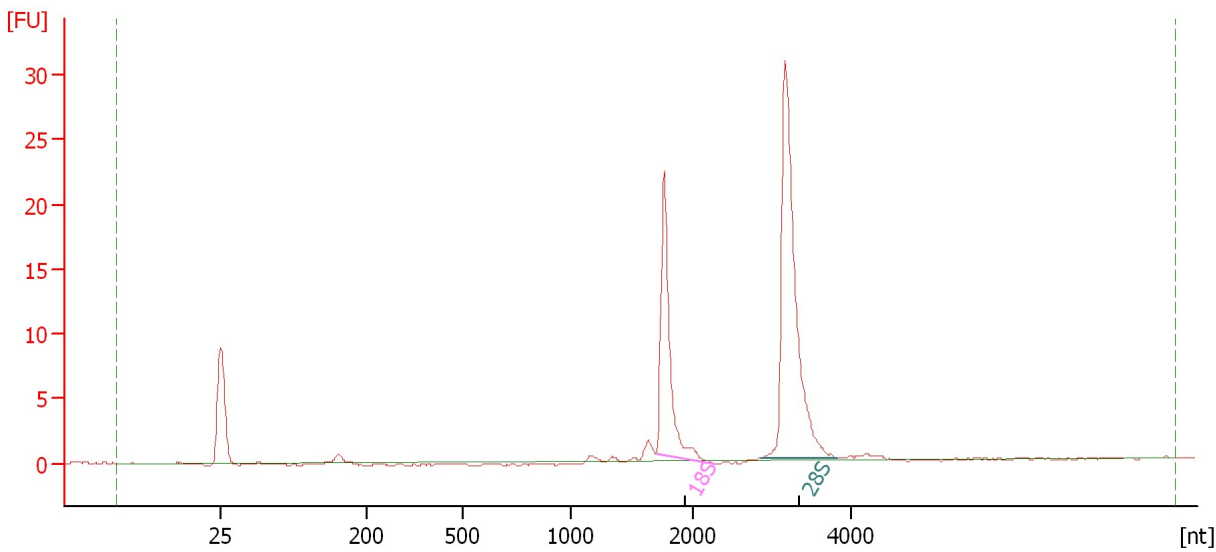
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,206	19.7	20.8
28S	2,778	3,976	38.4	40.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Electropherogram Summary Continued ...

2: 100-M. aquatica 10172 [QC_145]



Overall Results for sample 5 : 2: 100-M. aquatica 10172

RNA Area: 71.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 61 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN N/A

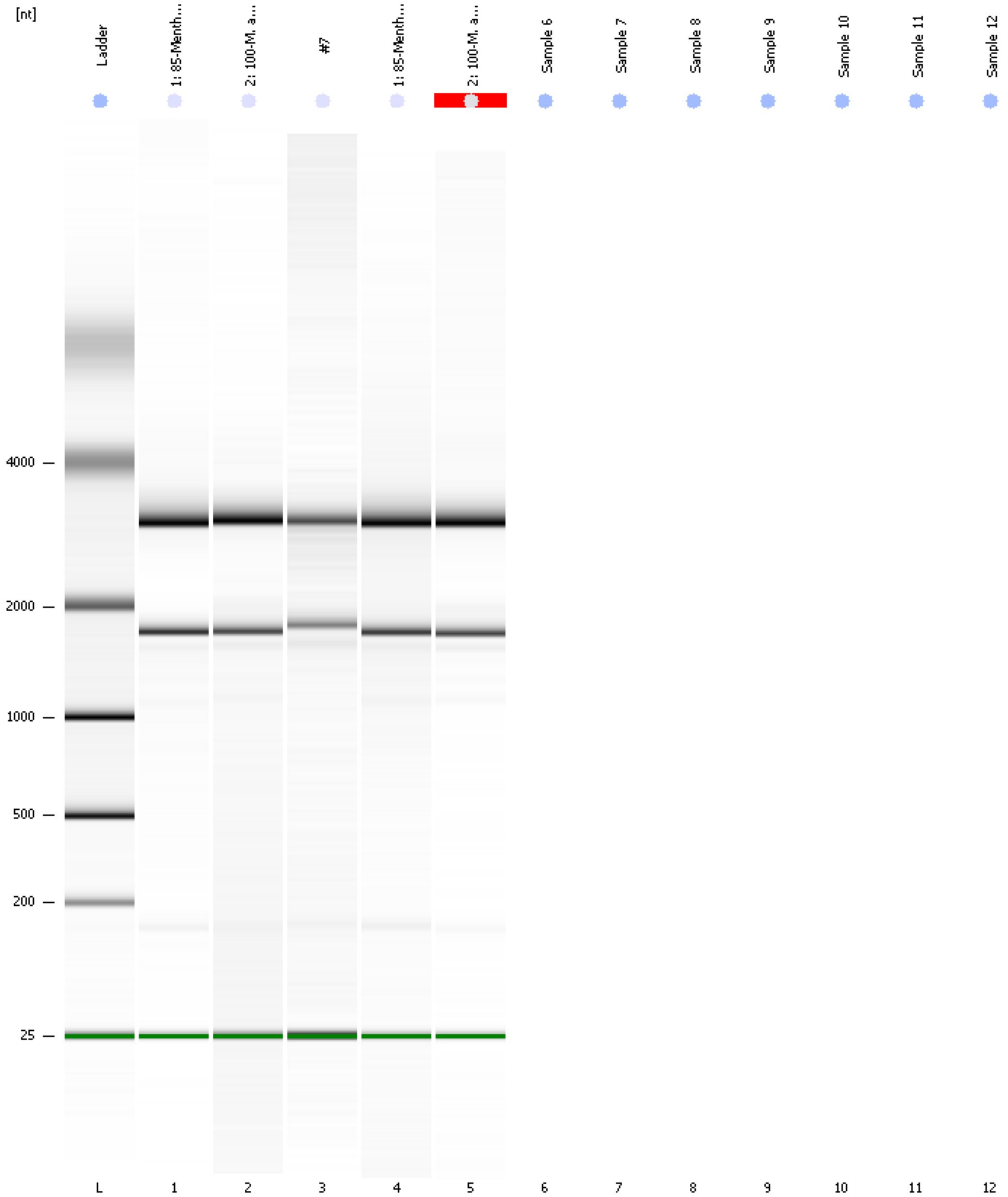
Fragment table for sample 5 : 2: 100-M. aquatica 10172

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,262	22.6	31.7
28S	2,858	3,821	43.2	60.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
Modified: 12/22/2016 5:21:24 PM

Invalid Samples

- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- Sample 11 has not been run, no results available.
- Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad

Created: 12/22/2016 5:07:09 PM
 Modified: 12/22/2016 5:21:24 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		12/22/2016 5:21:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-22\2016-12-22_004.xad)		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/22/2016 5:07:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1