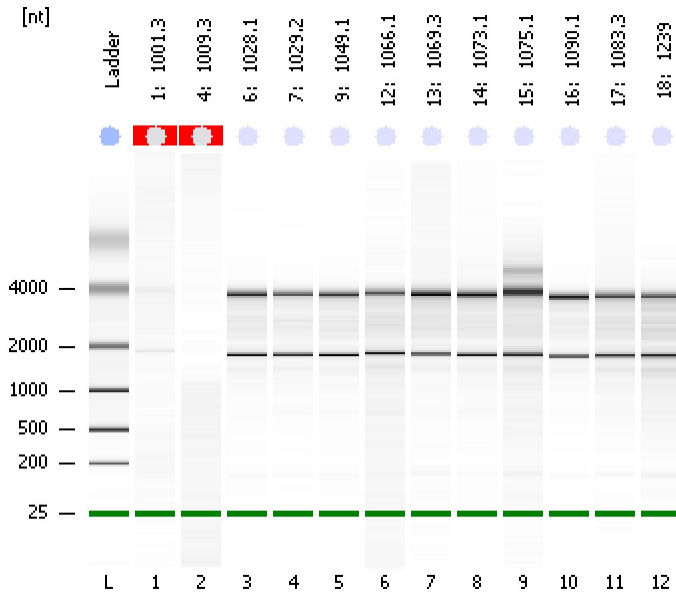


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electrophoresis File Run Summary



Instrument Information:

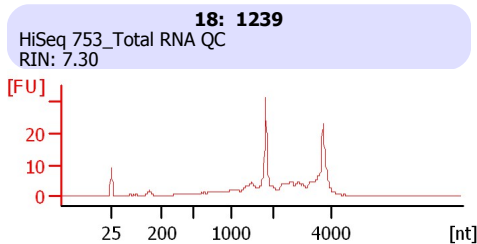
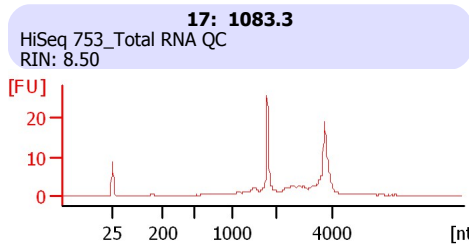
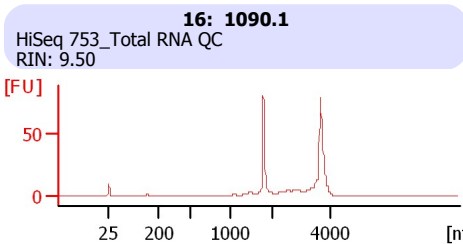
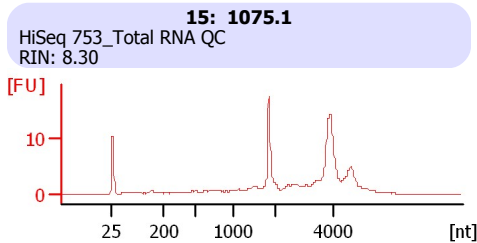
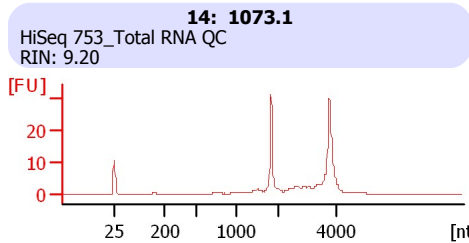
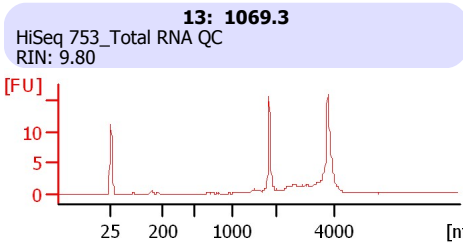
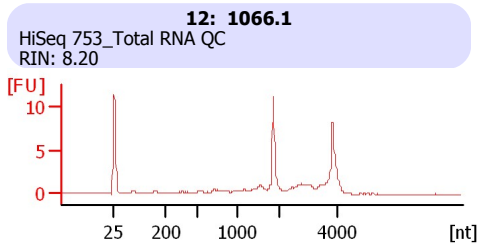
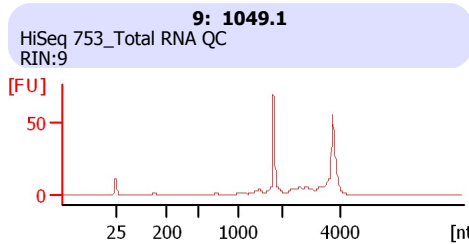
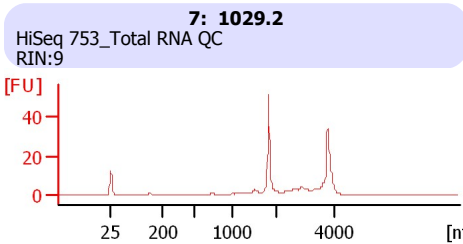
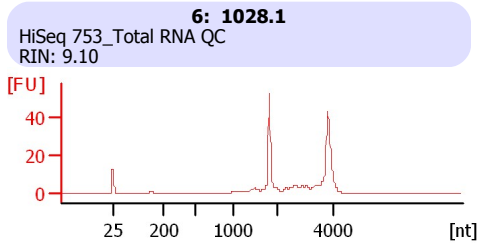
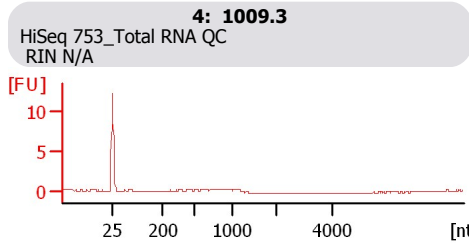
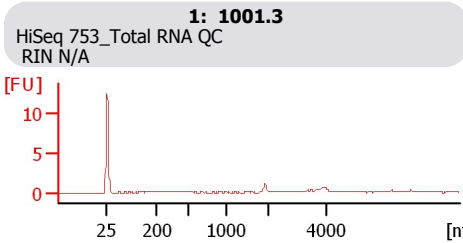
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1: 1001.3	HiSeq 753_Total RNA QC	✓	RIN N/A	
4: 1009.3	HiSeq 753_Total RNA QC	✓	RIN N/A	
6: 1028.1	HiSeq 753_Total RNA QC	✓	RIN: 9.10	
7: 1029.2	HiSeq 753_Total RNA QC	✓	RIN:9	
9: 1049.1	HiSeq 753_Total RNA QC	✓	RIN:9	
12: 1066.1	HiSeq 753_Total RNA QC	✓	RIN: 8.20	
13: 1069.3	HiSeq 753_Total RNA QC	✓	RIN: 9.80	
14: 1073.1	HiSeq 753_Total RNA QC	✓	RIN: 9.20	
15: 1075.1	HiSeq 753_Total RNA QC	✓	RIN: 8.30	
16: 1090.1	HiSeq 753_Total RNA QC	✓	RIN: 9.50	
17: 1083.3	HiSeq 753_Total RNA QC	✓	RIN: 8.50	
18: 1239	HiSeq 753_Total RNA QC	✓	RIN: 7.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 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

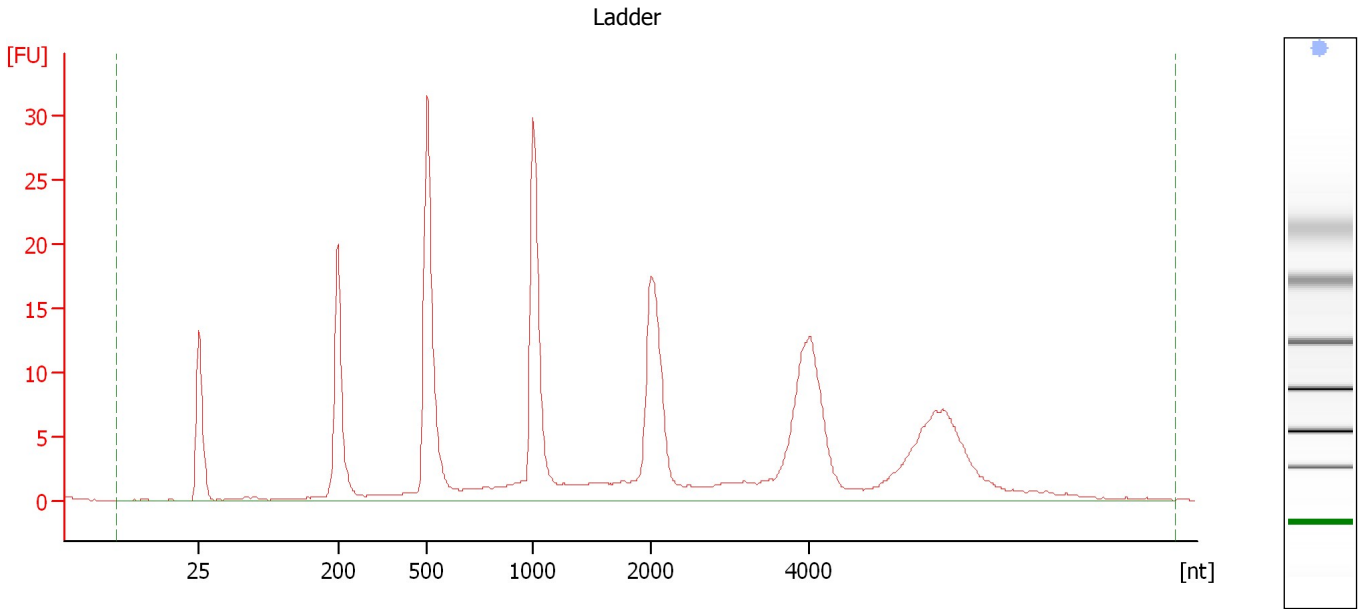
Ladder

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\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary



Overall Results for Ladder

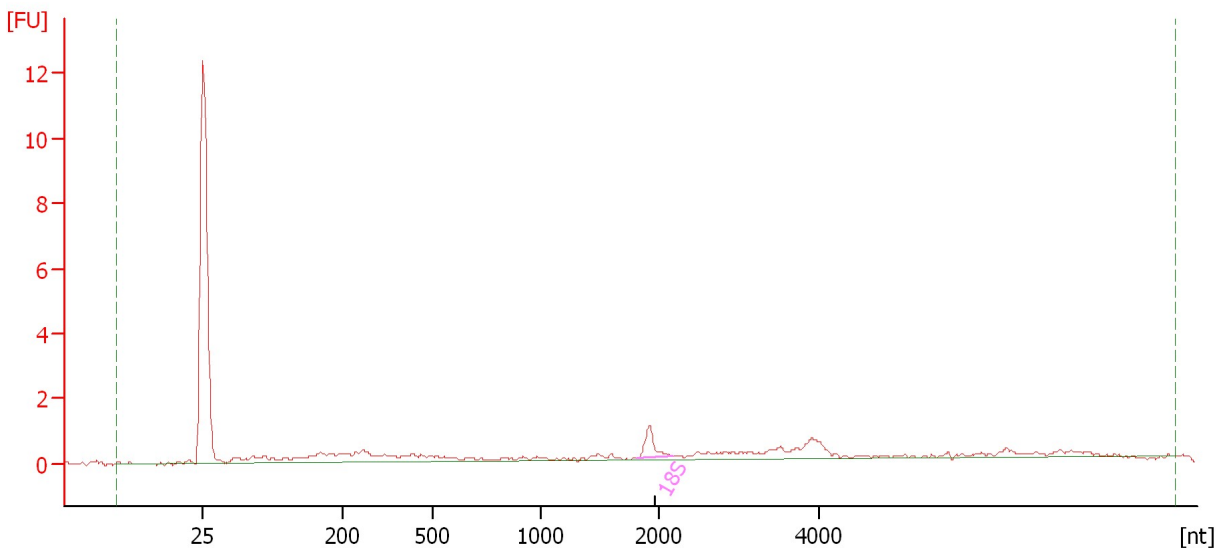
RNA Area:	263.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

1: 1001.3 [HiSeq 753_Total RNA QC]



Overall Results for sample 1 : 1: 1001.3

RNA Area:	15.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 1 : 1: 1001.3

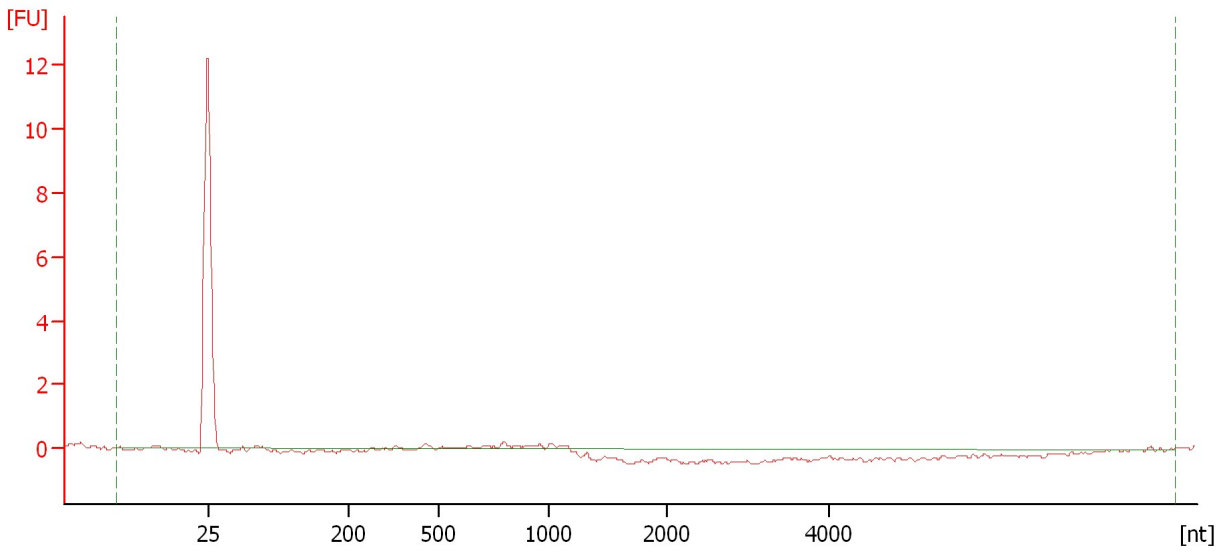
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,805	2,165	1.1	7.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

4: 1009.3 [HiSeq 753_Total RNA QC]



Overall Results for sample 2 : 4: 1009.3

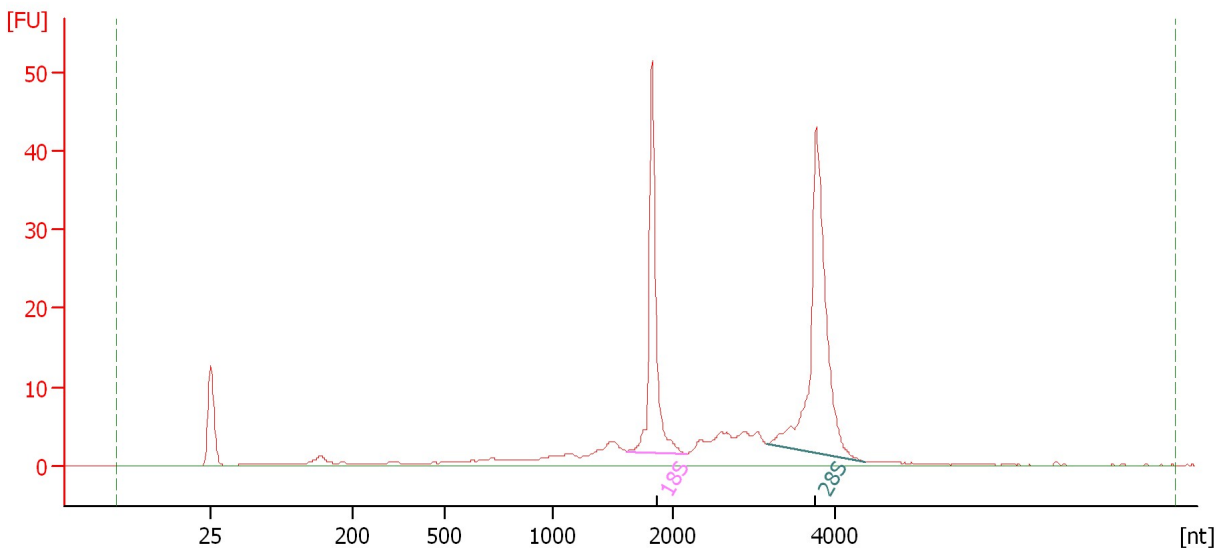
RNA Area:	1.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
 Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

6: 1028.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 3 : 6: 1028.1

RNA Area:	199.5	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.10

Fragment table for sample 3 : 6: 1028.1

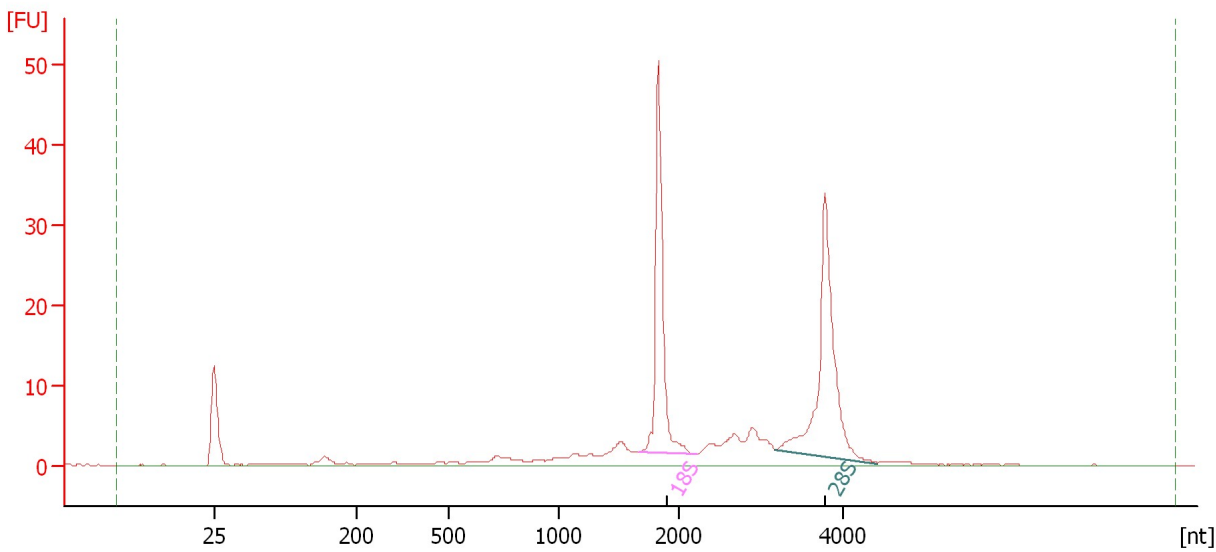
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	2,172	42.0	21.1
28S	3,162	4,363	64.5	32.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

7: 1029.2 [HiSeq 753_Total RNA QC]



Overall Results for sample 4 : 7: 1029.2

RNA Area: 169.3 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 96 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN:9

Fragment table for sample 4 : 7: 1029.2

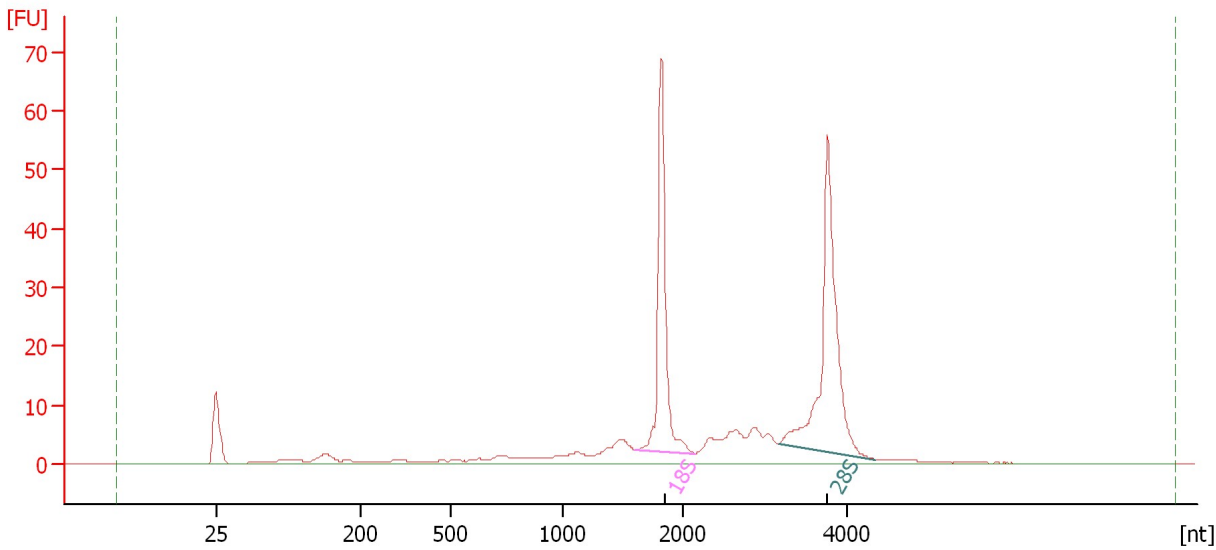
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	2,200	39.9	23.6
28S	3,171	4,431	48.7	28.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

9: 1049.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 5 : 9: 1049.1

RNA Area: 249.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 142 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN:9

Fragment table for sample 5 : 9: 1049.1

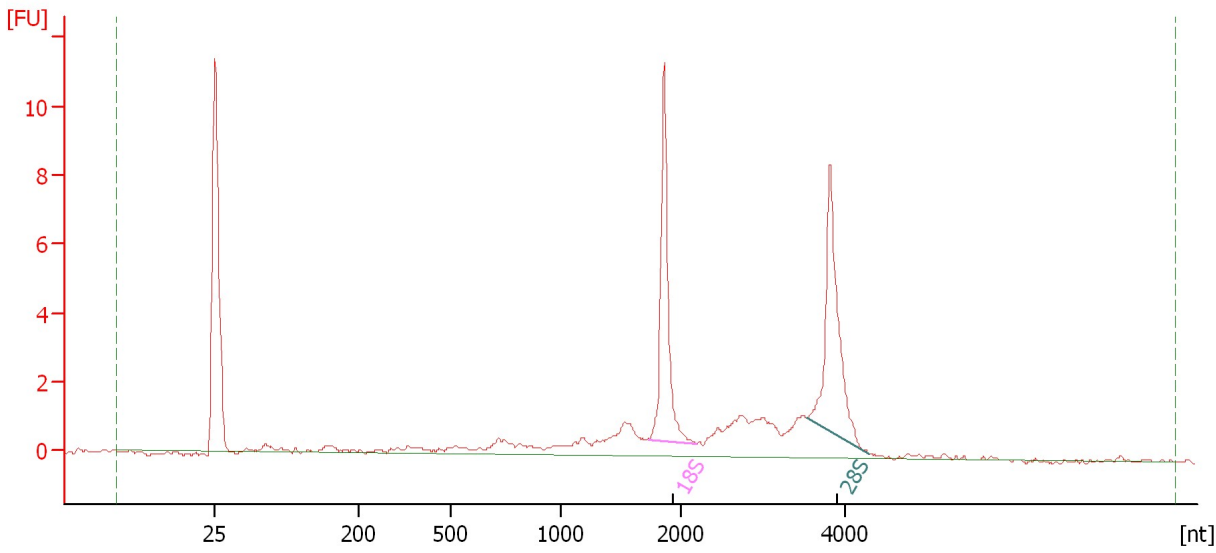
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	2,124	56.8	22.7
28S	3,156	4,345	78.9	31.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

12: 1066.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 6 : 12: 1066.1

RNA Area: 45.9 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 26 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.20

Fragment table for sample 6 : 12: 1066.1

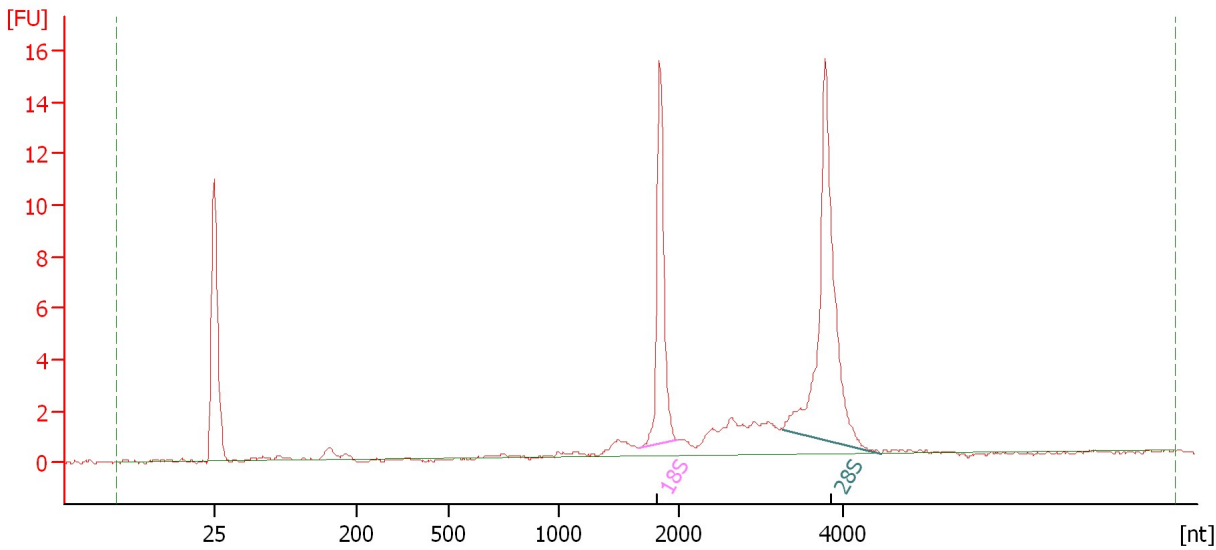
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,730	2,175	9.2	20.1
28S	3,524	4,283	9.8	21.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
 Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

13: 1069.3 [HiSeq 753_Total RNA QC]



Overall Results for sample 7 : 13: 1069.3

RNA Area:	56.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

Fragment table for sample 7 : 13: 1069.3

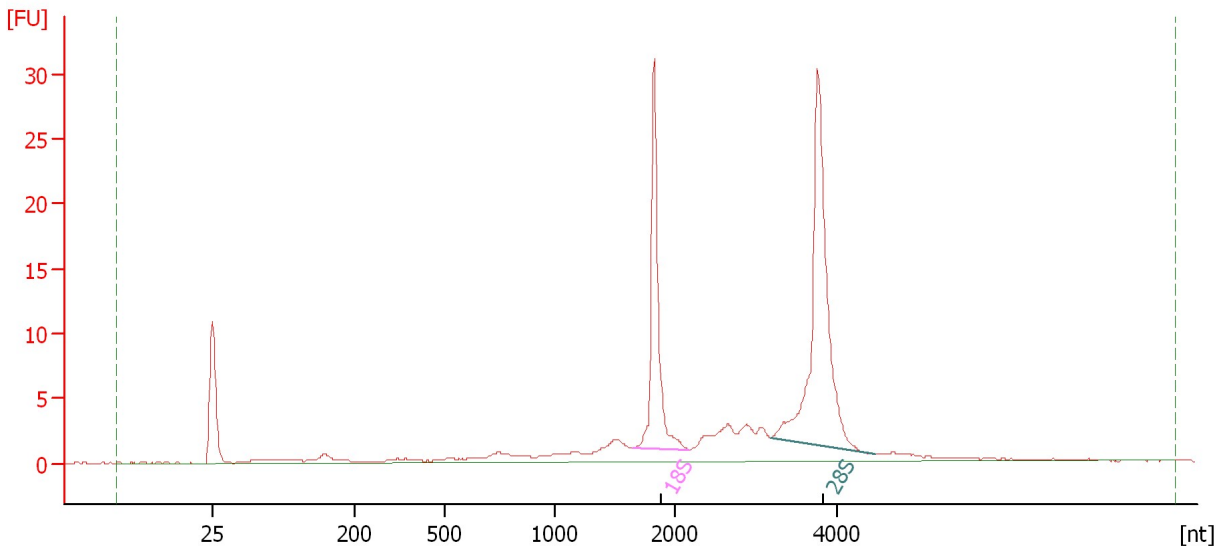
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	1,976	11.8	21.1
28S	3,263	4,470	22.2	39.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

14: 1073.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 8 : 14: 1073.1

RNA Area: 126.3 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 72 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.20

Fragment table for sample 8 : 14: 1073.1

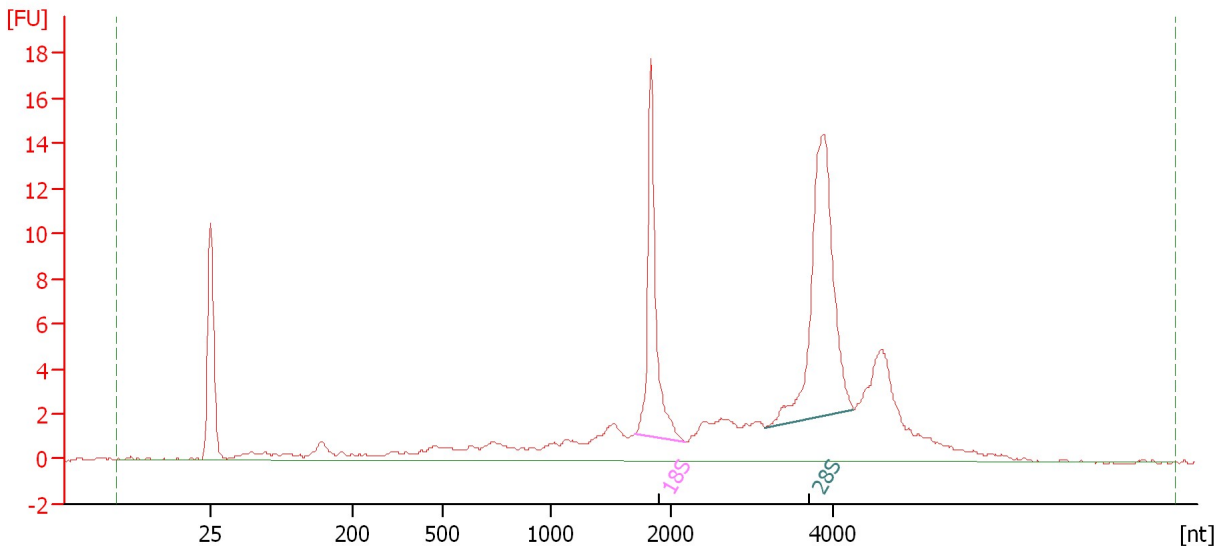
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	2,172	25.7	20.4
28S	3,174	4,465	43.9	34.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

15: 1075.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 9 : 15: 1075.1

RNA Area:	127.0	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.30

Fragment table for sample 9 : 15: 1075.1

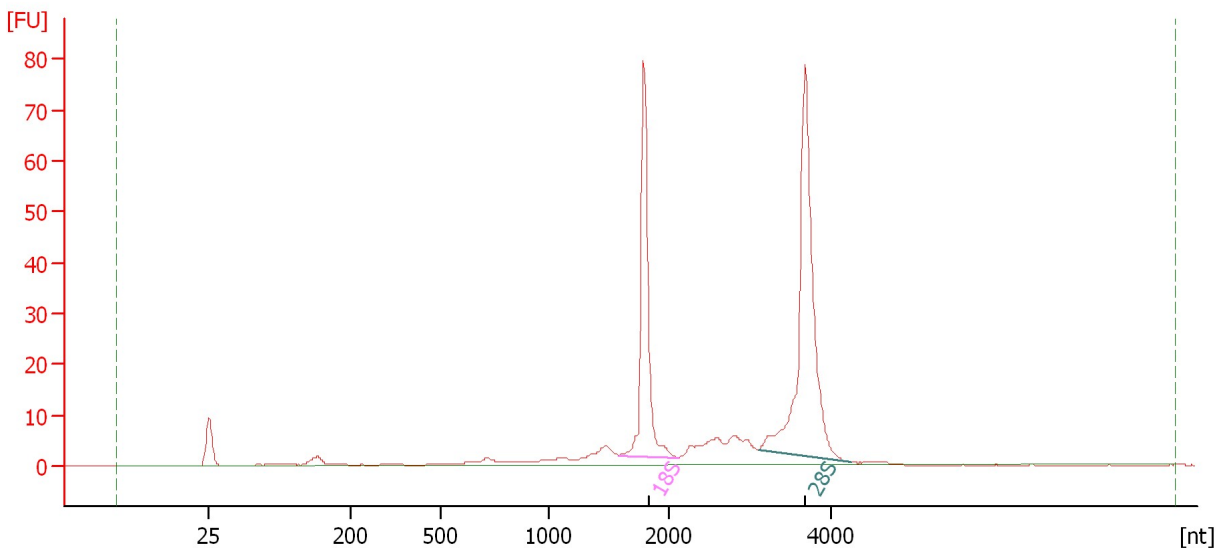
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,171	16.5	13.0
28S	3,163	4,248	28.4	22.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

16: 1090.1 [HiSeq 753_Total RNA QC]



Overall Results for sample 10 : 16: 1090.1

RNA Area:	265.3	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	151 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

Fragment table for sample 10 : 16: 1090.1

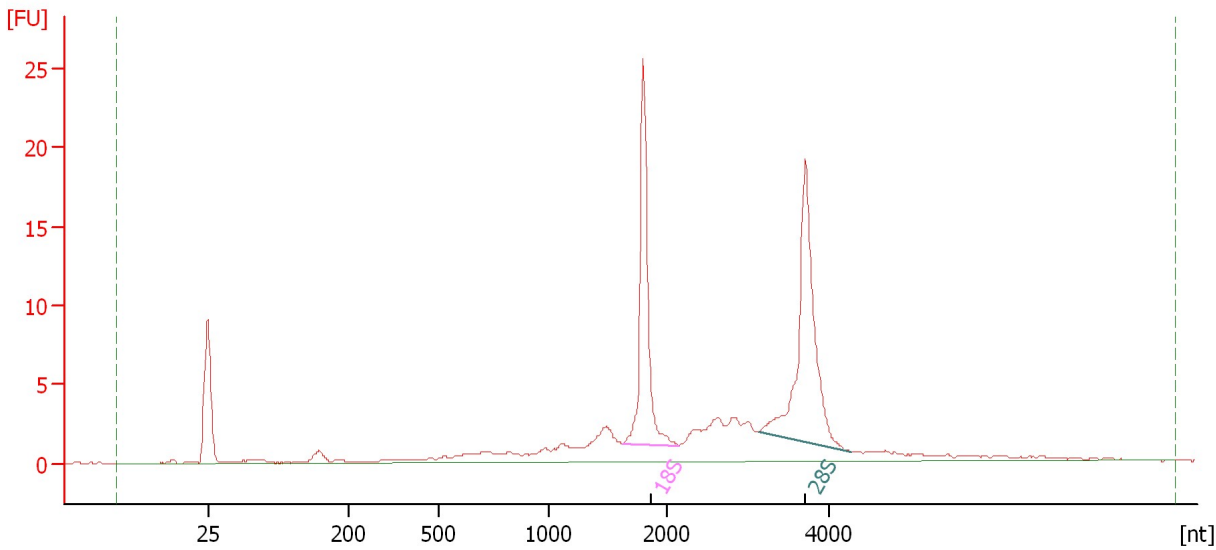
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	2,104	64.7	24.4
28S	3,098	4,251	109.4	41.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
 Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

17: 1083.3 [HiSeq 753_Total RNA QC]



Overall Results for sample 11 : 17: 1083.3

RNA Area:	113.5	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	65 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.50

Fragment table for sample 11 : 17: 1083.3

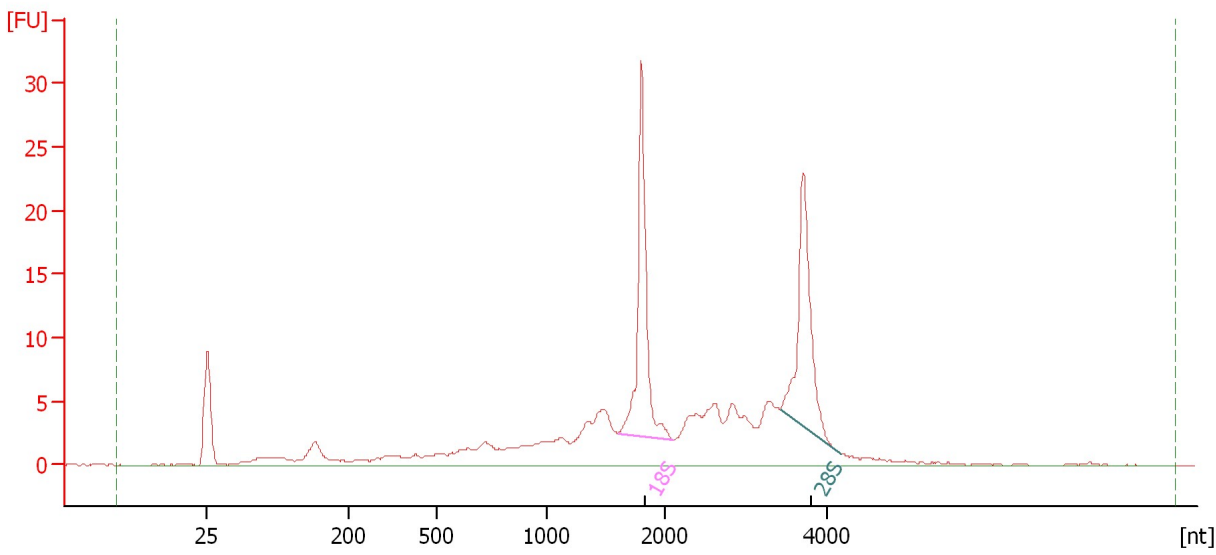
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,129	21.9	19.3
28S	3,126	4,281	28.8	25.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Electropherogram Summary Continued ...

18: 1239 [HiSeq 753_Total RNA QC]



Overall Results for sample 12 : 18: 1239

RNA Area:	189.2	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	108 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.30

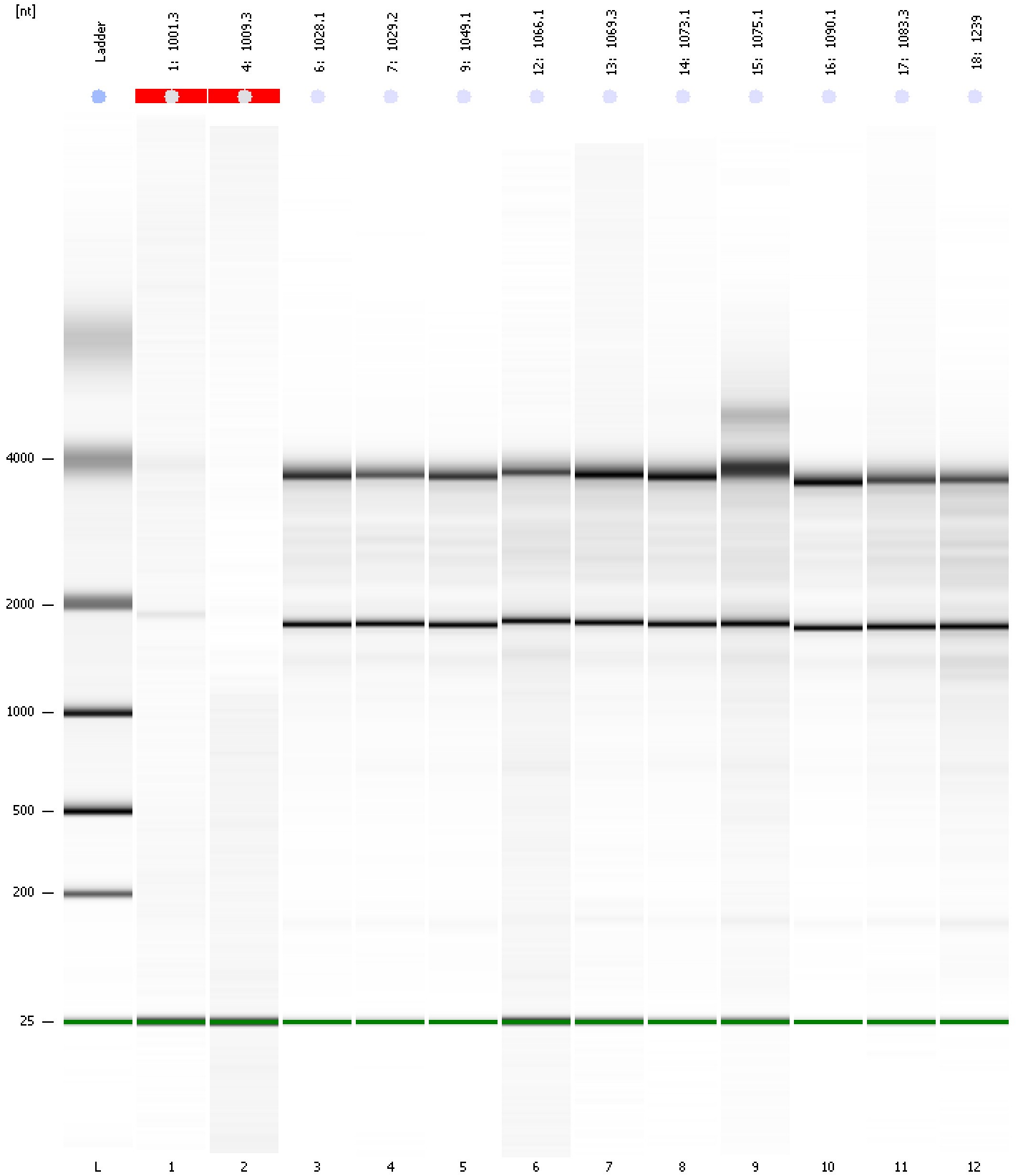
Fragment table for sample 12 : 18: 1239

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	2,101	28.4	15.0
28S	3,433	4,192	25.4	13.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
Modified: 11/18/2016 12:13:00 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-18\2016-11-18_002.xad

Created: 11/18/2016 11:49:12 AM
 Modified: 11/18/2016 12:13:00 PM

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		11/18/2016 12:12:59 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\2016-11-18\2016-11-18_002.xad)		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/18/2016 11:49:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1