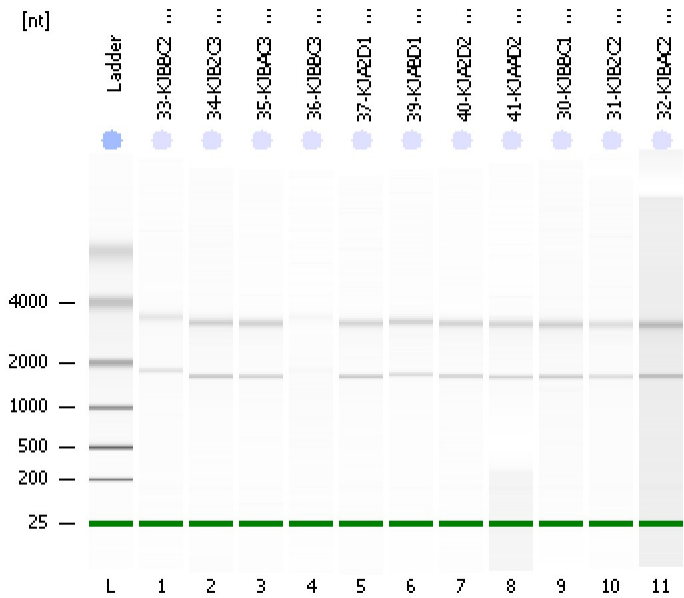


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

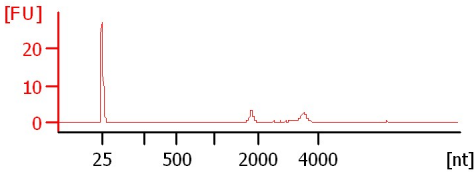
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

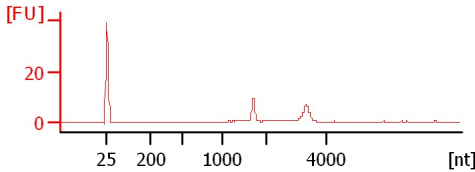
Chip Information:

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

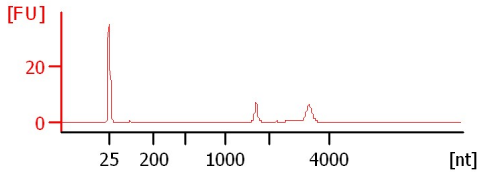
HiSeq1698 **33-KJBBC2_1.6XBC**
RIN: 8.80



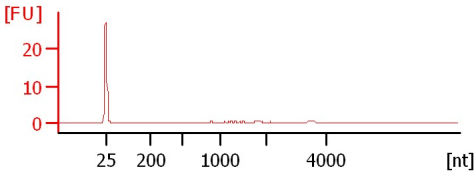
HiSeq1698 **34-KJB2C3_1.6XBC**
RIN: 10



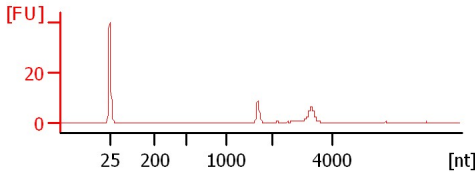
HiSeq1698 **35-KJBAC3_1.6XBC**
RIN: 9.90



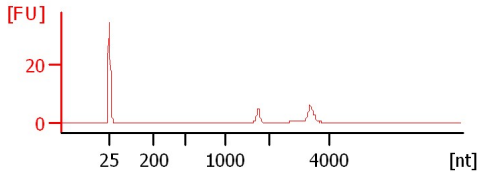
HiSeq1698 **36-KJBBC3_1.6XBC**
RIN: 4.10



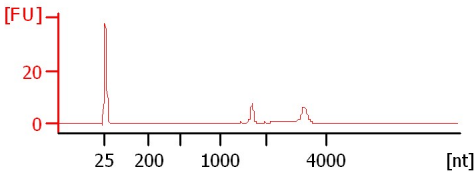
HiSeq1698 **37-KJA2D1_1.6XBC**
RIN: 10



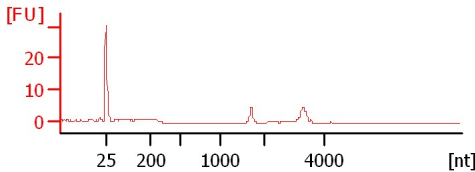
HiSeq1698 **39-KJABD1_1.6XBC**
RIN: 9.30



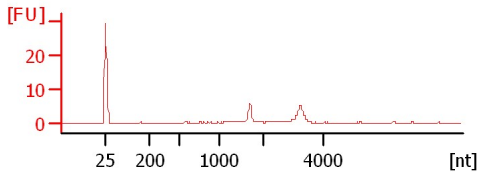
HiSeq1698 **40-KJA2D2_1.6XBC**
RIN: 9.80



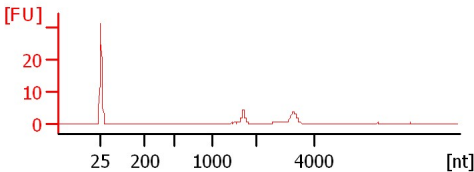
HiSeq1698 **41-KJAAD2_1.6XBC**
RIN: 10



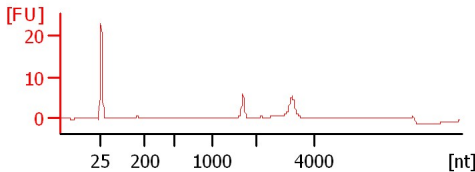
HiSeq1698 **30-KJBBC1_1.6XBC**
RIN: 8.50



HiSeq1698 **31-KJB2C2_1.6XBC**
RIN: 8.60



HiSeq1698 **32-KJBAC2_1.6XBC**
RIN: 7.30



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
33-KJBBC2_1.6XBC	HiSeq1698	✓	RIN: 8.80	
34-KJB2C3_1.6XBC	HiSeq1698	✓	RIN:10	
35-KJBAC3_1.6XBC	HiSeq1698	✓	RIN: 9.90	
36-KJBBC3_1.6XBC	HiSeq1698	✓	RIN: 4.10	
37-KJA2D1_1.6XBC	HiSeq1698	✓	RIN:10	
39-KJABD1_1.6XBC	HiSeq1698	✓	RIN: 9.30	
40-KJA2D2_1.6XBC	HiSeq1698	✓	RIN: 9.80	
41-KJAAD2_1.6XBC	HiSeq1698	✓	RIN:10	
30-KJBBC1_1.6XBC	HiSeq1698	✓	RIN: 8.50	
31-KJB2C2_1.6XBC	HiSeq1698	✓	RIN: 8.60	
32-KJBAC2_1.6XBC	HiSeq1698	✓	RIN: 7.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ μ l] : 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

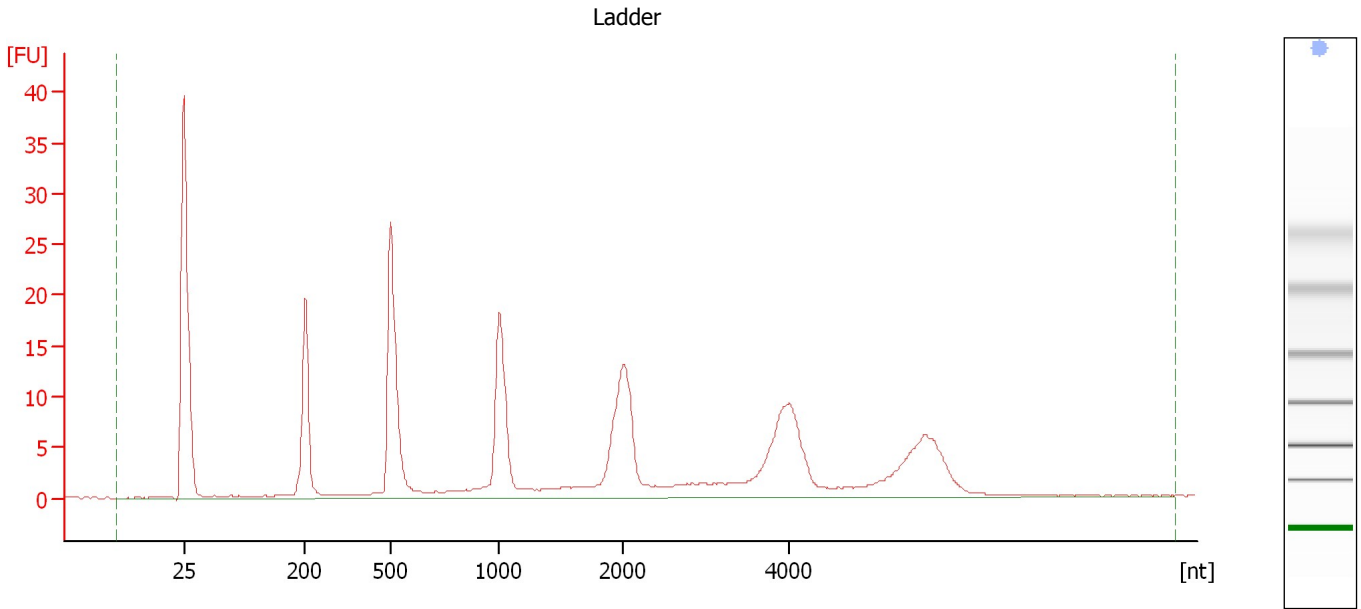
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary



Overall Results for Ladder

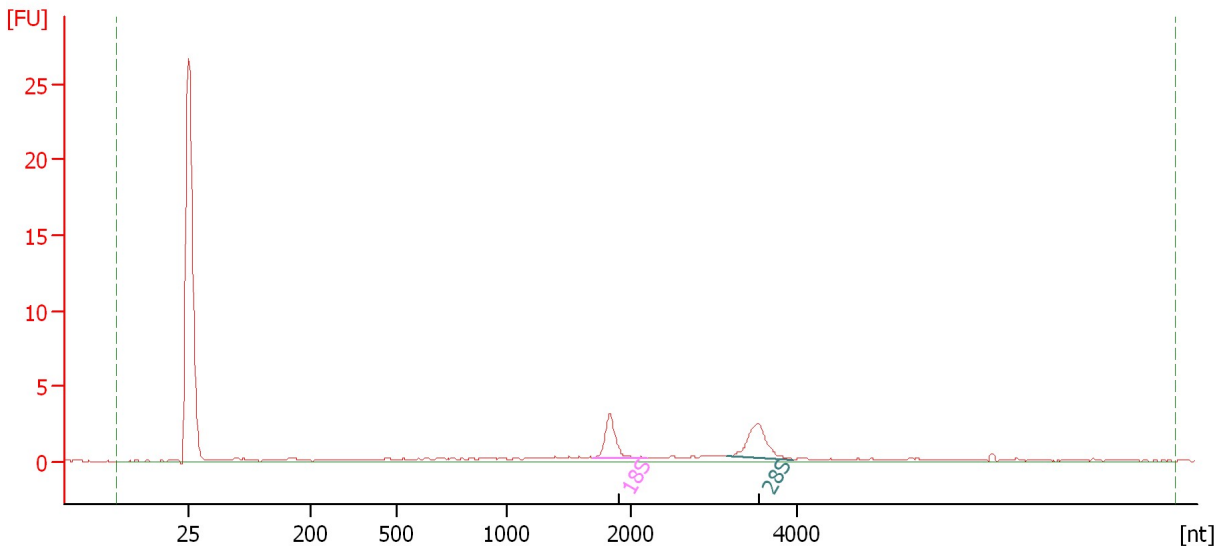
RNA Area:	216.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

33-KJBBC2_1.6XBC [HiSeq1698]



Overall Results for sample 1 : 33-KJBBC2_1.6XBC

RNA Area: 26.6 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 123 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.80

Fragment table for sample 1 : 33-KJBBC2_1.6XBC

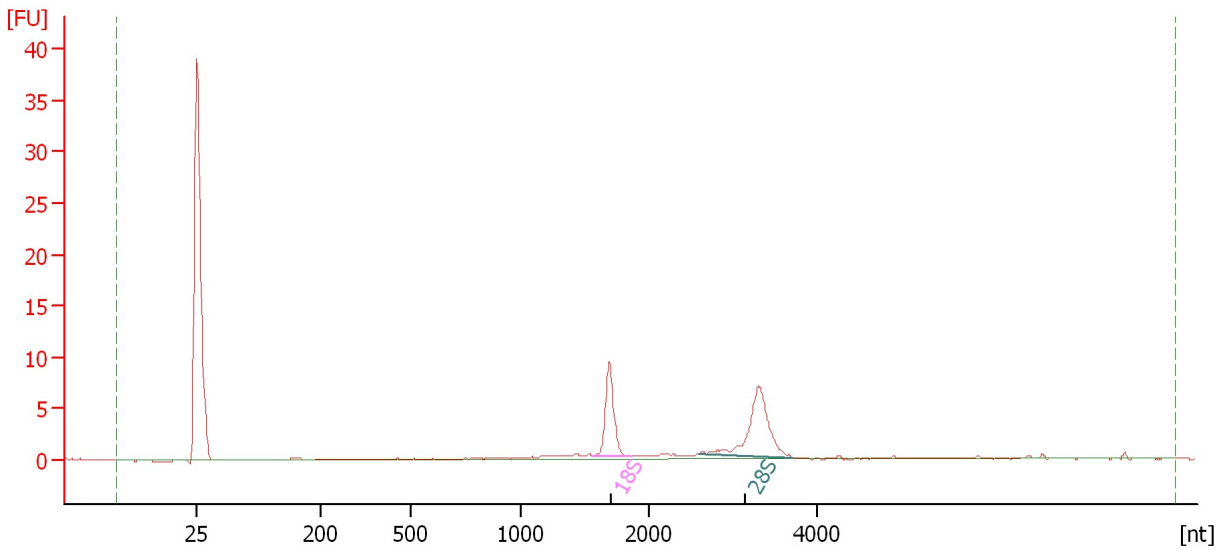
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,185	3.7	14.0
28S	3,137	3,948	4.7	17.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

34-KJB2C3_1.6XBC [HiSeq1698]



Overall Results for sample 2 : 34-KJB2C3 1.6XBC

RNA Area: 37.2 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 172 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:10

Fragment table for sample 2 : 34-KJB2C3 1.6XBC

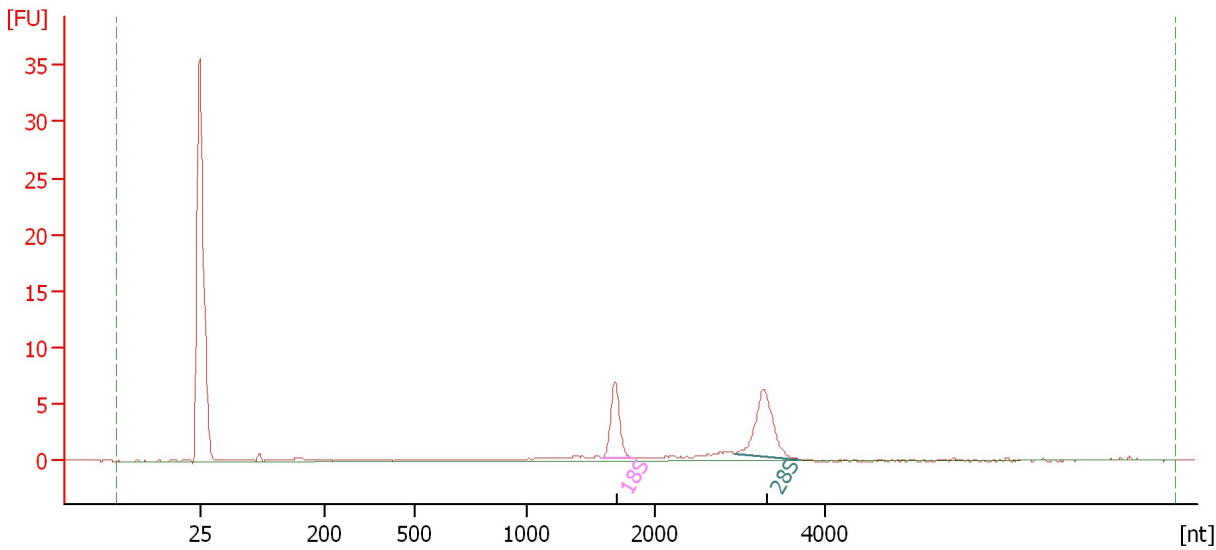
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,866	9.9	26.5
28S	2,608	3,709	14.9	39.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

35-KJBAC3_1.6XBC [HiSeq1698]



Overall Results for sample 3 : 35-KJBAC3 1.6XBC

RNA Area: 33.2 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 154 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.90

Fragment table for sample 3 : 35-KJBAC3 1.6XBC

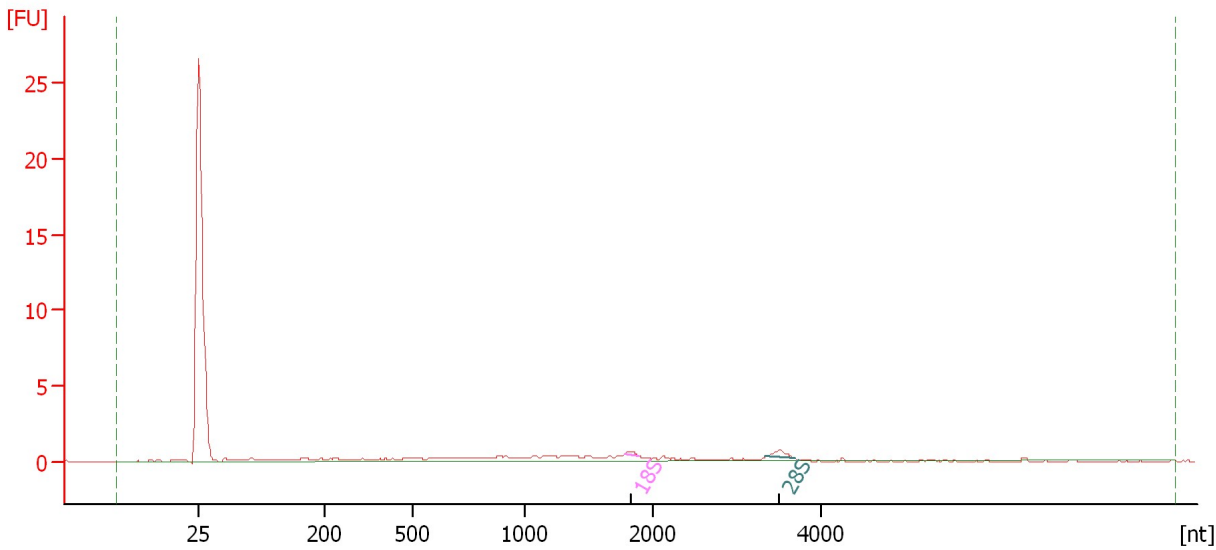
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,836	7.4	22.3
28S	2,947	3,739	11.3	34.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

36-KJBBC3_1.6XBC [HiSeq1698]



Overall Results for sample 4 : 36-KJBBC3_1.6XBC

RNA Area: 10.5 RNA Integrity Number (RIN): 4.1 (B.02.08)
RNA Concentration: 49 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.7 Result Flagging Label: RIN: 4.10

Fragment table for sample 4 : 36-KJBBC3_1.6XBC

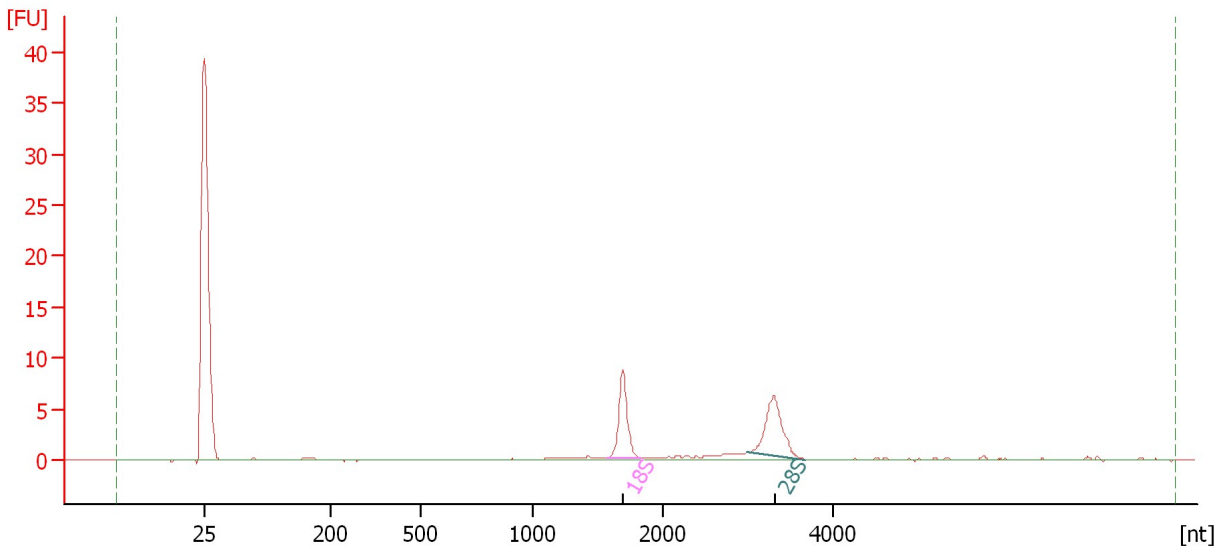
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,785	1,893	0.3	2.4
28S	3,339	3,679	0.7	6.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

37-KJA2D1_1.6XBC [HiSeq1698]



Overall Results for sample 5 : 37-KJA2D1_1.6XBC

RNA Area: 37.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 173 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN:10

Fragment table for sample 5 : 37-KJA2D1_1.6XBC

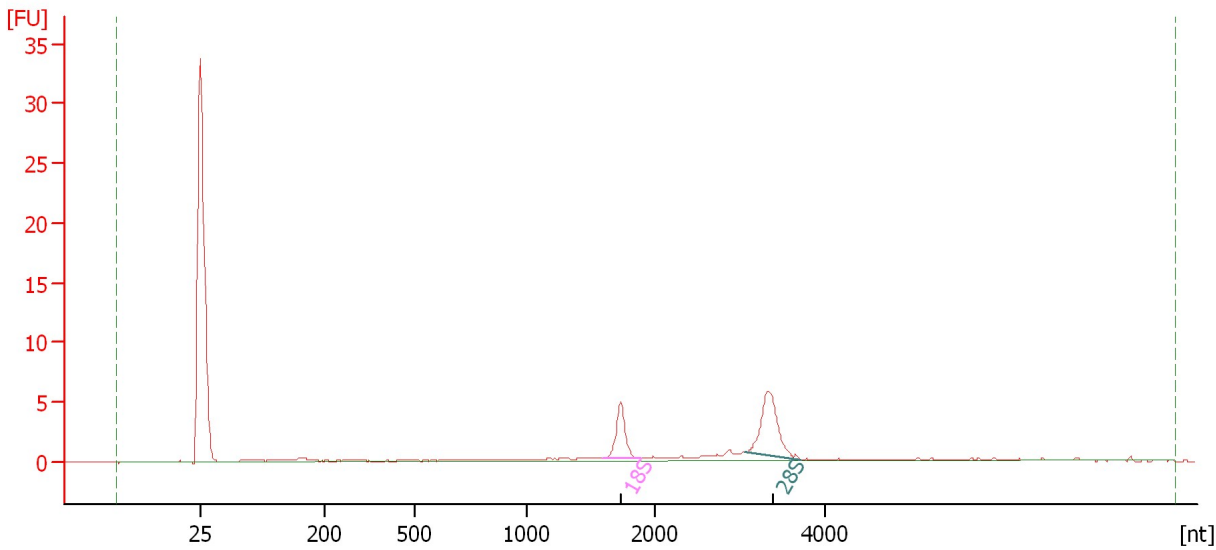
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,840	9.3	24.8
28S	2,994	3,667	10.6	28.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

39-KJABD1_1.6XBC [HiSeq1698]



Overall Results for sample 6 : 39-KJABD1_1.6XBC

RNA Area: 30.8 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 143 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.30

Fragment table for sample 6 : 39-KJABD1_1.6XBC

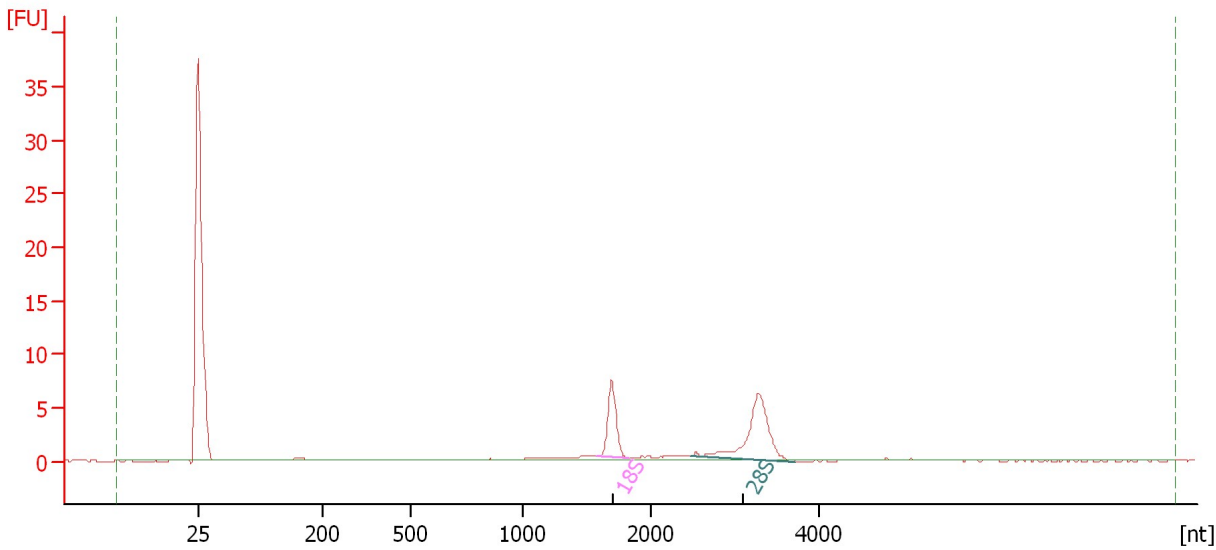
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,903	5.5	17.7
28S	3,073	3,727	9.6	31.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

40-KJA2D2_1.6XBC [HiSeq1698]



Overall Results for sample 7 : 40-KJA2D2_1.6XBC

RNA Area: 34.3 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 159 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.80

Fragment table for sample 7 : 40-KJA2D2_1.6XBC

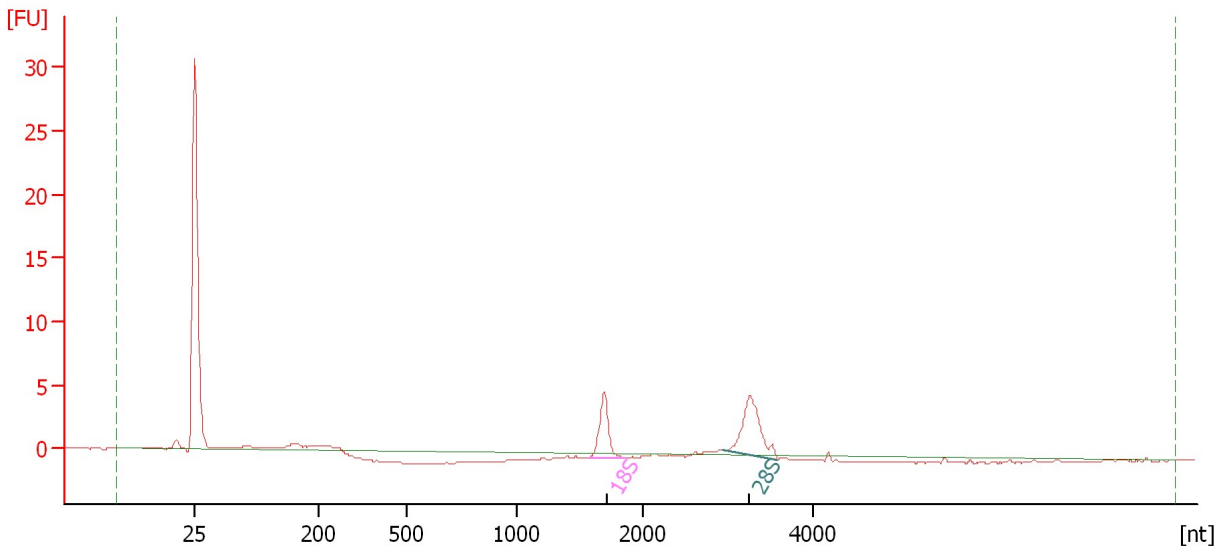
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,842	7.4	21.7
28S	2,494	3,719	13.7	39.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

41-KJAAD2_1.6XBC [HiSeq1698]



Overall Results for sample 8 : 41-KJAAD2_1.6XBC

RNA Area: 22.7 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 105 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN:10

Fragment table for sample 8 : 41-KJAAD2_1.6XBC

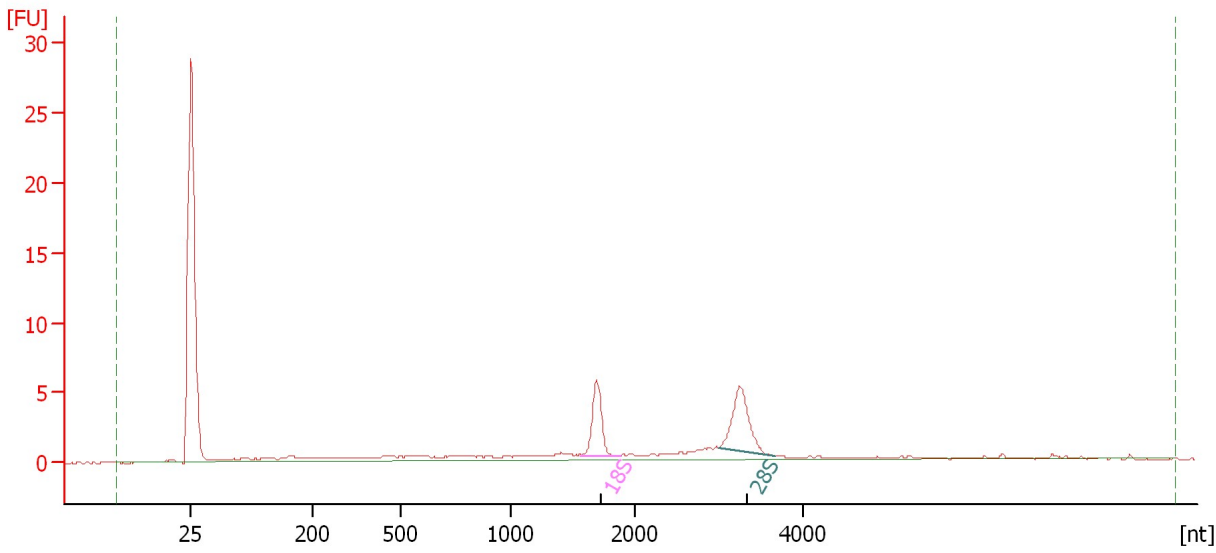
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,847	5.8	25.6
28S	2,939	3,587	9.1	40.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

30-KJBBC1_1.6XBC [HiSeq1698]



Overall Results for sample 9 : 30-KJBBC1_1.6XBC

RNA Area: 42.8 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 198 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.50

Fragment table for sample 9 : 30-KJBBC1_1.6XBC

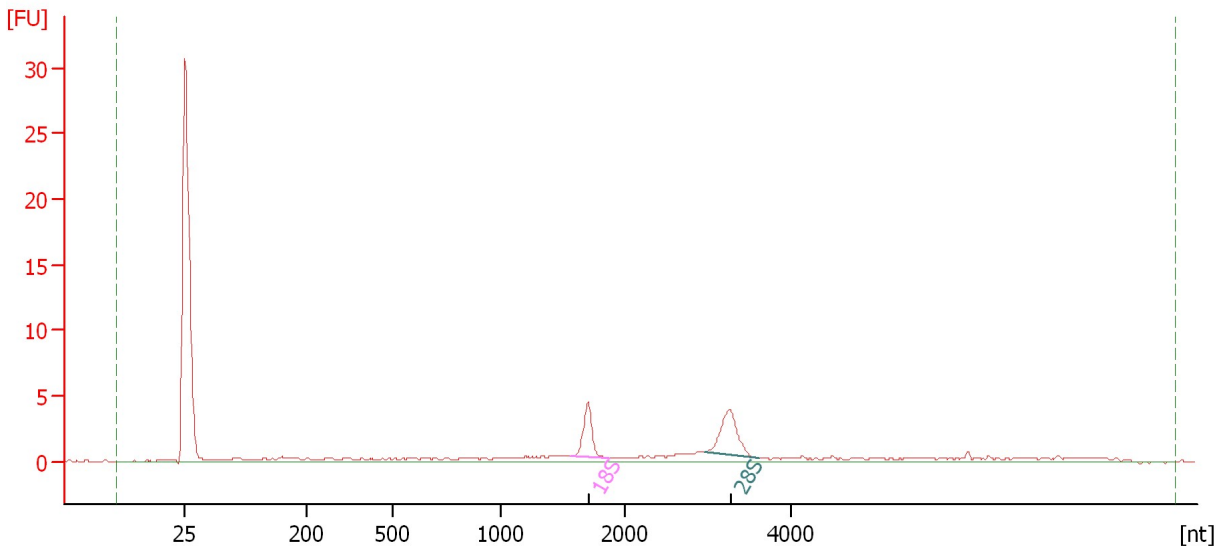
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,877	6.2	14.4
28S	2,994	3,660	8.4	19.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

31-KJB2C2_1.6XBC [HiSeq1698]



Overall Results for sample 10 : 31-KJB2C2 1.6XBC

RNA Area:	43.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	199 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.60

Fragment table for sample 10 : 31-KJB2C2 1.6XBC

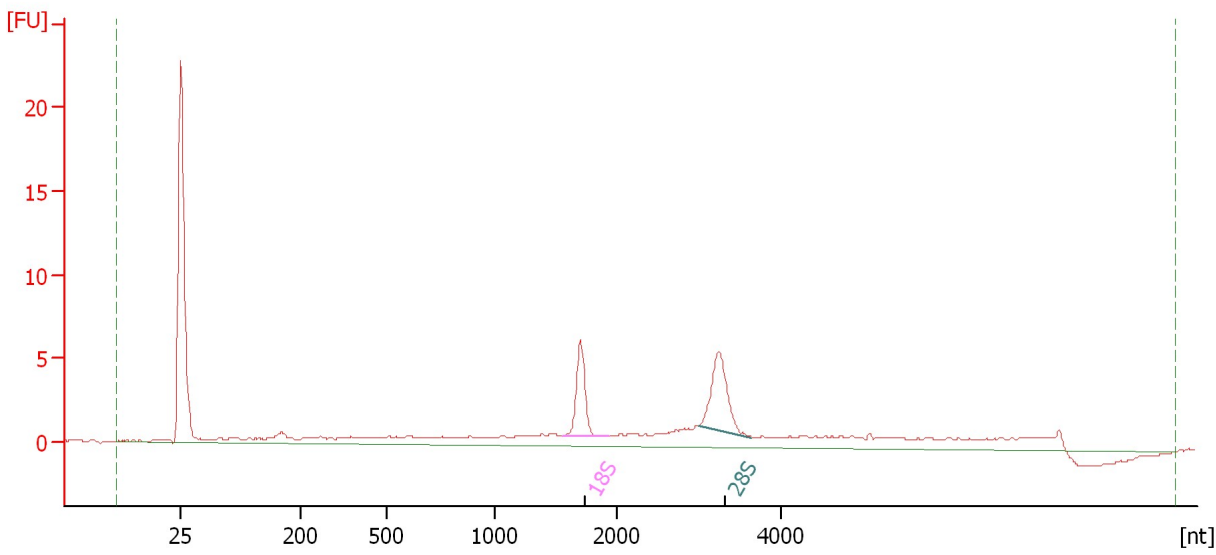
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	1,863	4.7	11.0
28S	2,973	3,608	6.5	15.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Electropherogram Summary Continued ...

32-KJBAC2_1.6XBC [HiSeq1698]



Overall Results for sample 11 : 32-KJBAC2 1.6XBC

RNA Area: 68.4 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 316 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.30

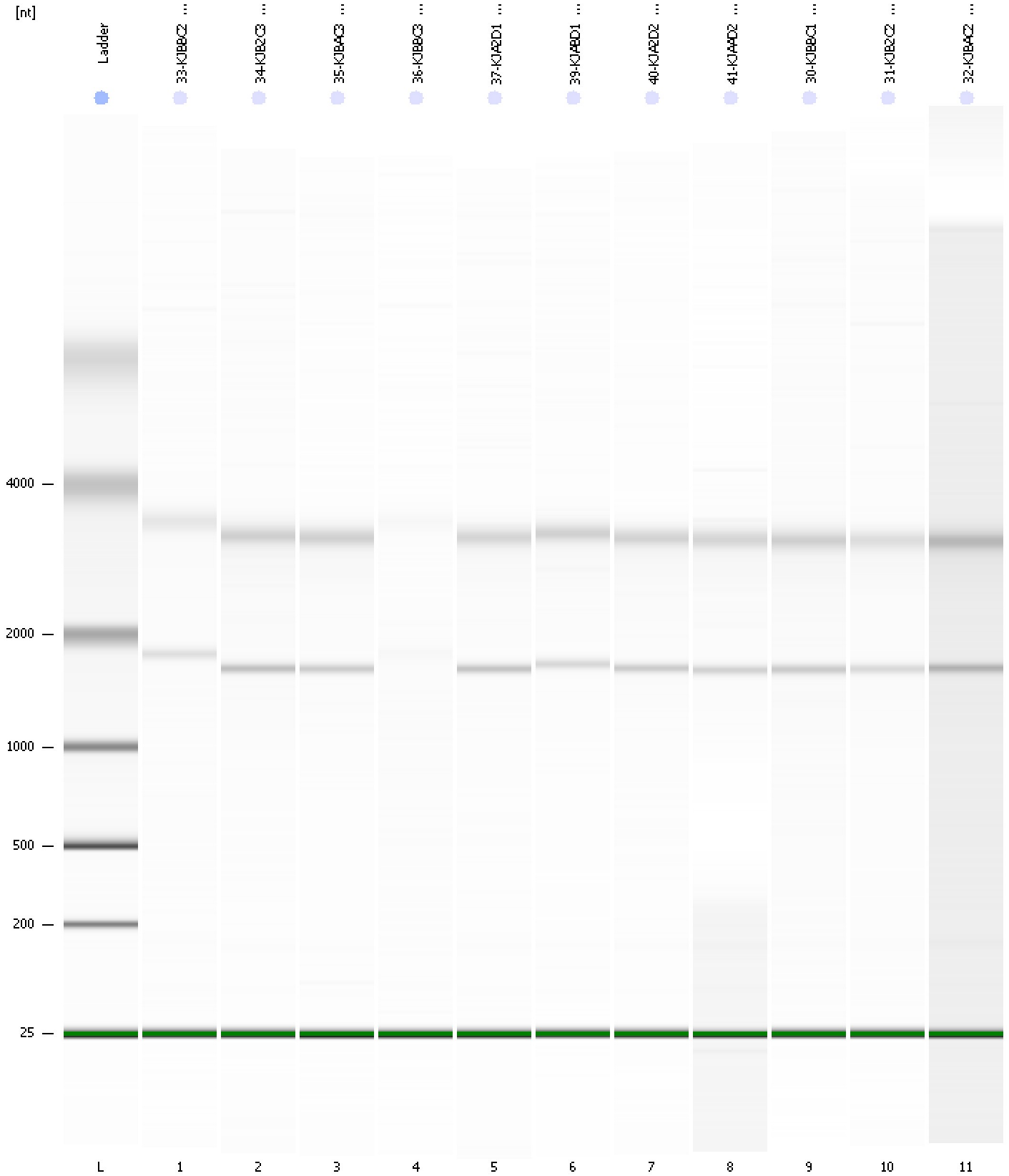
Fragment table for sample 11 : 32-KJBAC2 1.6XBC

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	1,936	6.3	9.2
28S	2,989	3,643	8.3	12.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
Modified: 4/4/2019 11:42:09 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad

Created: 4/4/2019 11:20:02 AM
 Modified: 4/4/2019 11:42:09 AM

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		4/4/2019 11:42:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-04\2019-04-04_004.xad)		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2019 11:20:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1