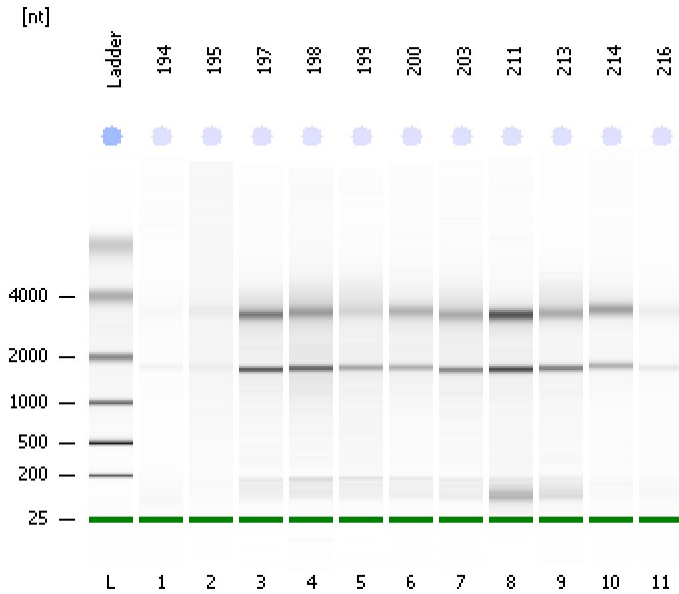


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electrophoresis File Run Summary



Instrument Information:

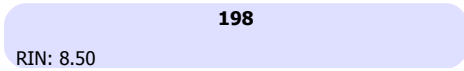
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
 Modified: 4/11/2019 4:03:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
194		✓	RIN: 7.30	
195		✓	RIN: 6.80	
197		✓	RIN:9	
198		✓	RIN: 8.50	
199		✓	RIN: 7.20	
200		✓	RIN: 8.80	
203		✓	RIN: 8.60	
211		✓	RIN: 9.20	
213		✓	RIN: 8.80	
214		✓	RIN: 9.30	
216		✓	RIN: 8.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 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/ 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

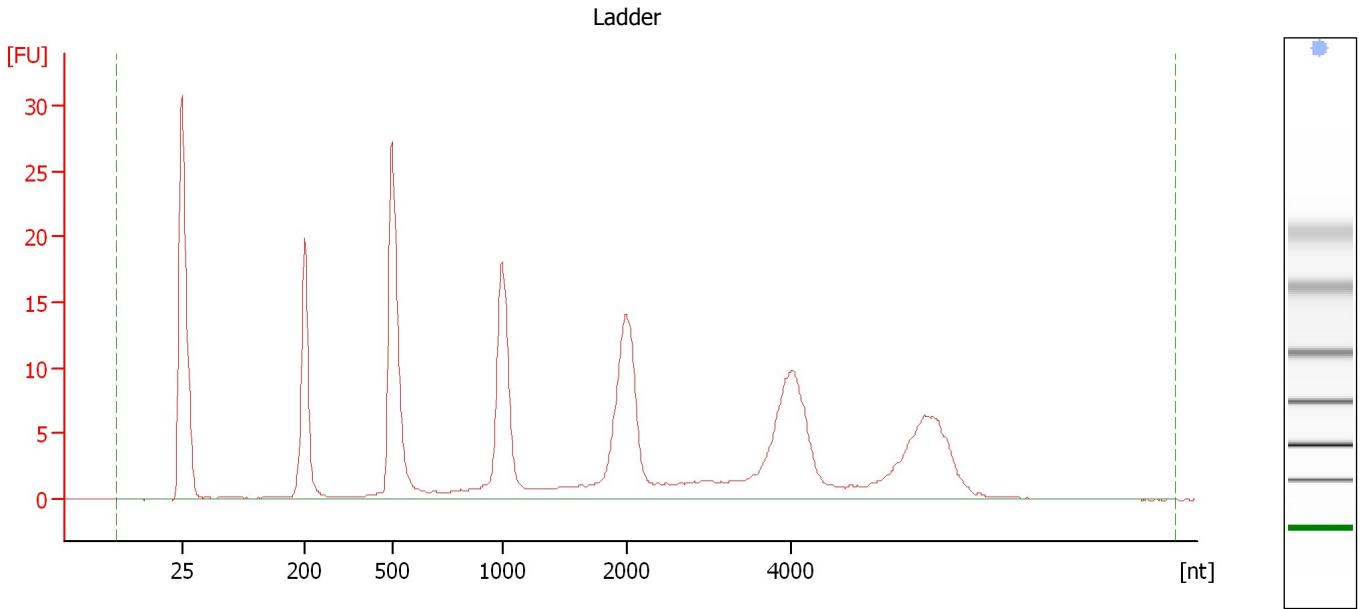
Ladder

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\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary



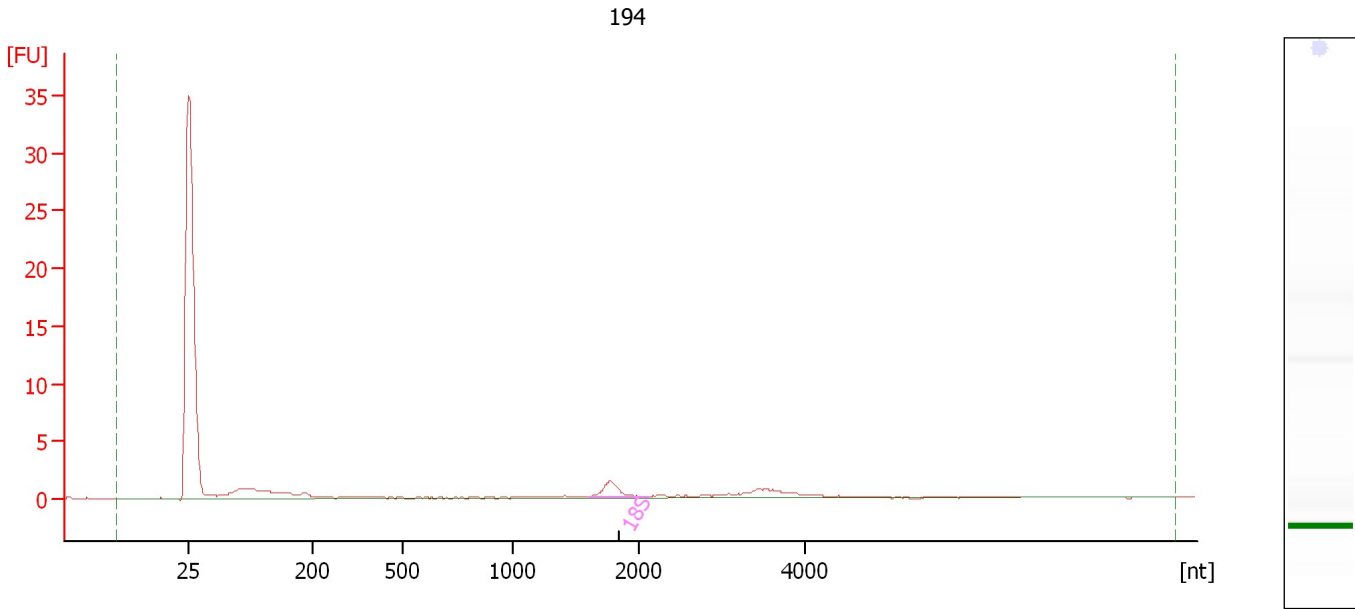
Overall Results for Ladder

RNA Area:	239.3	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\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 194

RNA Area:	23.4	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	98 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.30

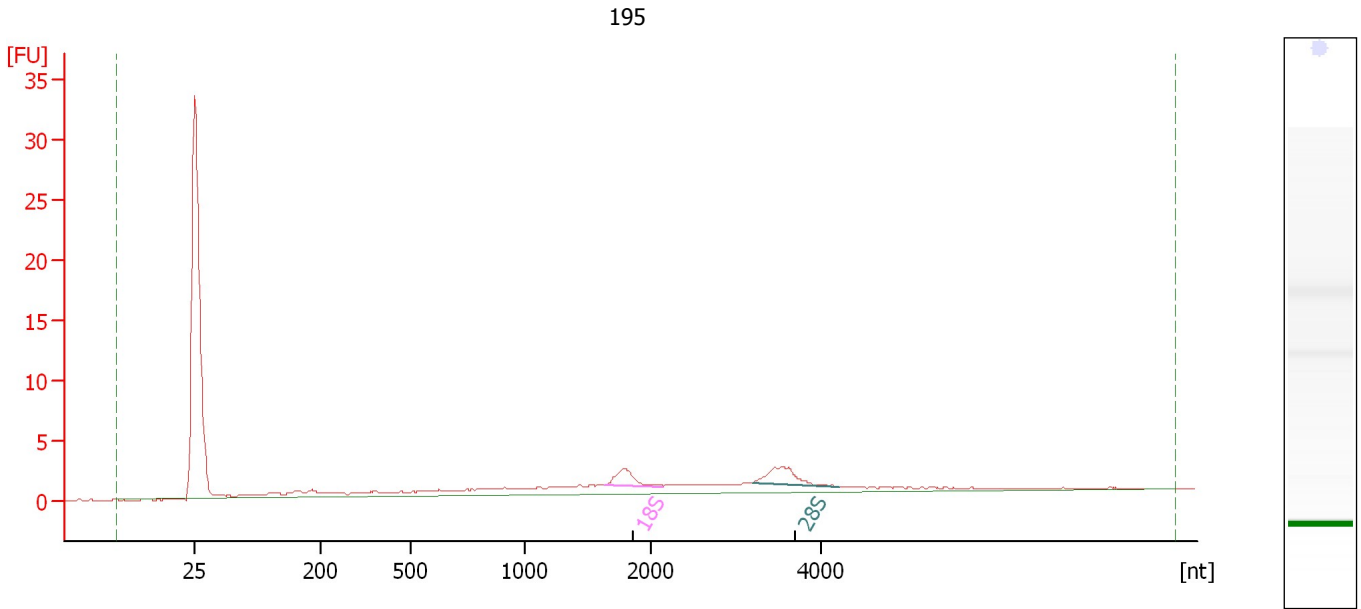
Fragment table for sample 1 : 194

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	2,108	2.6	11.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 195

RNA Area: 52.9 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 221 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 6.80

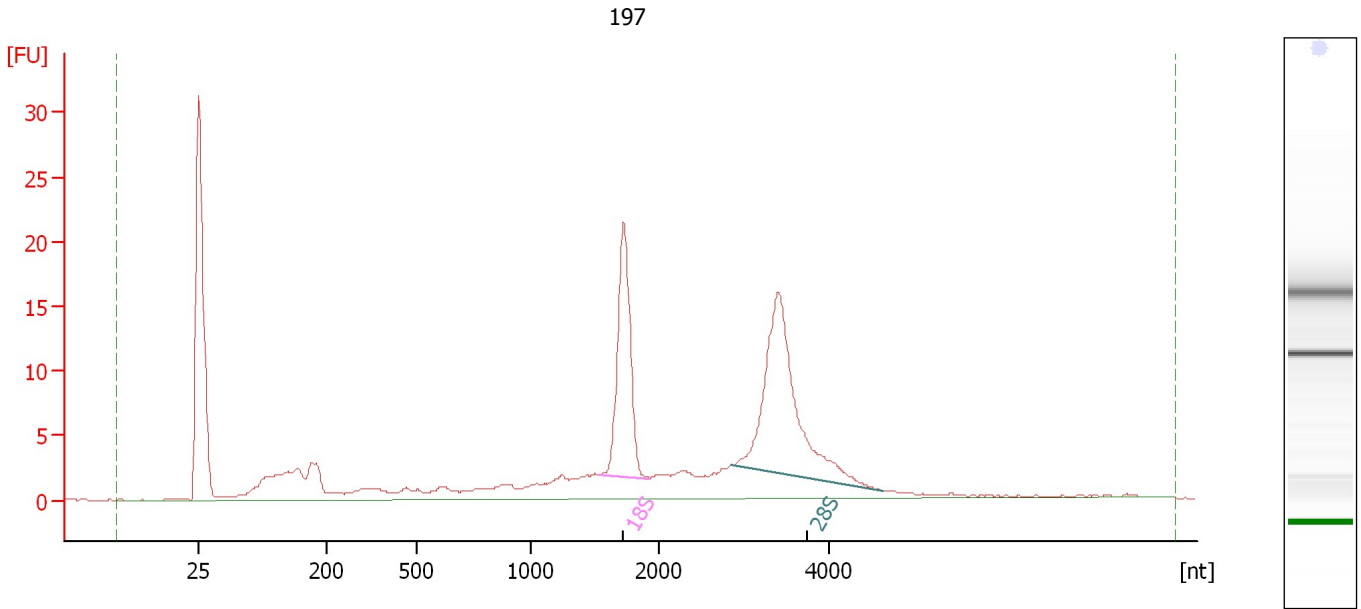
Fragment table for sample 2 : 195

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	2,138	3.0	5.7
28S	3,200	4,212	4.5	8.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 197

RNA Area: 186.0 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 777 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:9

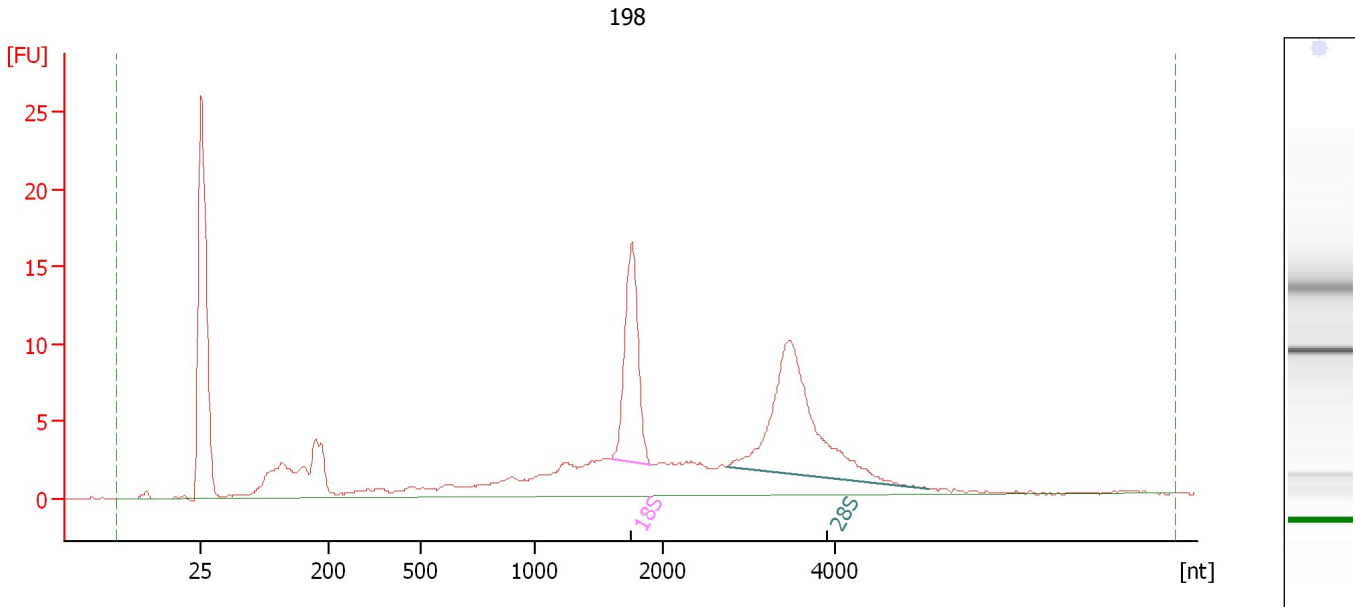
Fragment table for sample 3 : 197

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,527	1,918	30.7	16.5
28S	2,843	4,611	47.0	25.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 198

RNA Area: 168.0 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 702 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.50

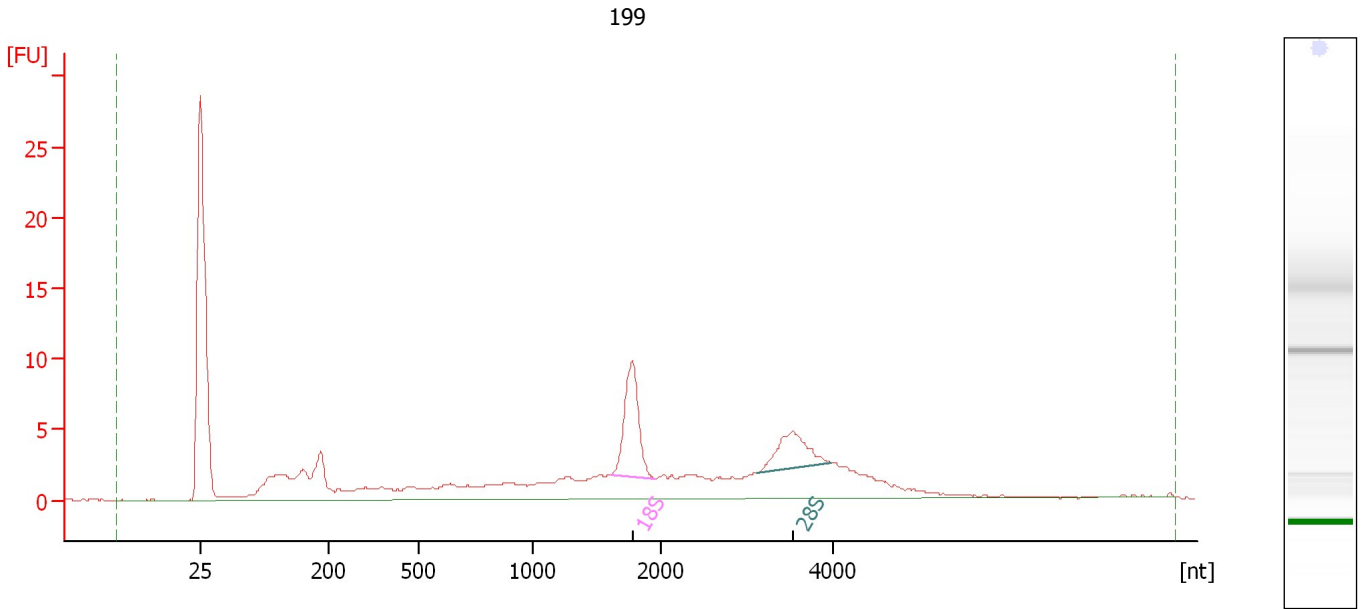
Fragment table for sample 4 : 198

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,903	23.7	14.1
28S	2,729	5,102	39.2	23.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 199

RNA Area: 130.5 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 545 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.20

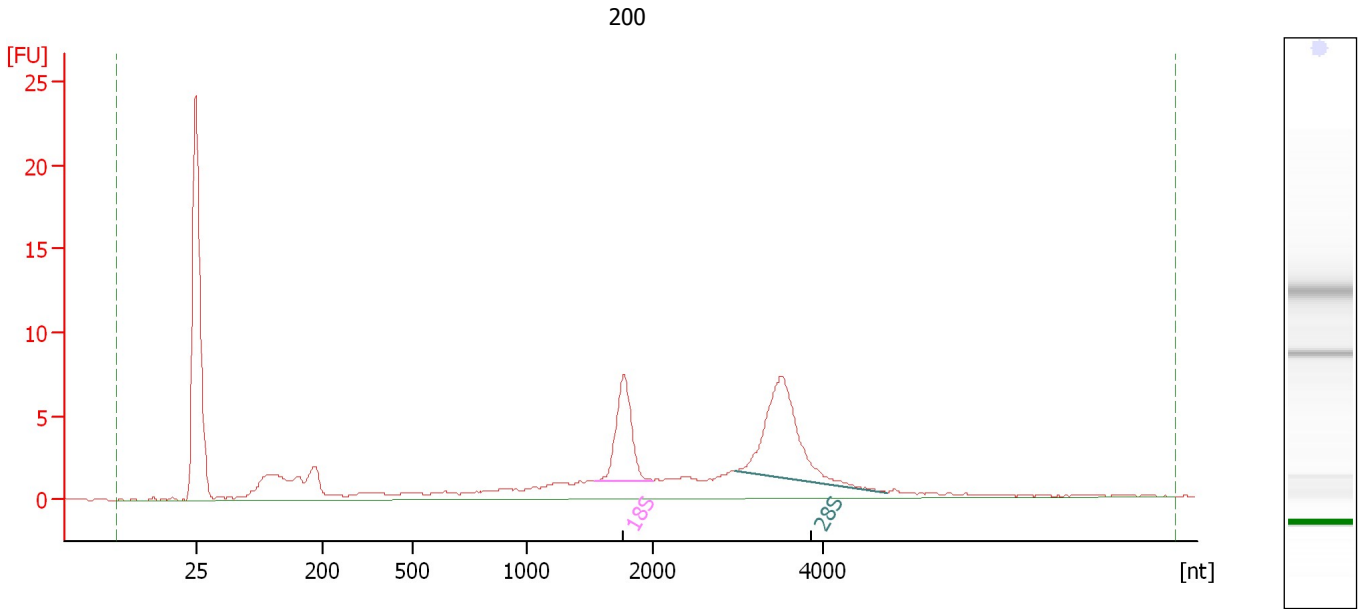
Fragment table for sample 5 : 199

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,952	14.2	10.9
28S	3,105	3,981	8.3	6.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 200

RNA Area:	101.3	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	423 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.80

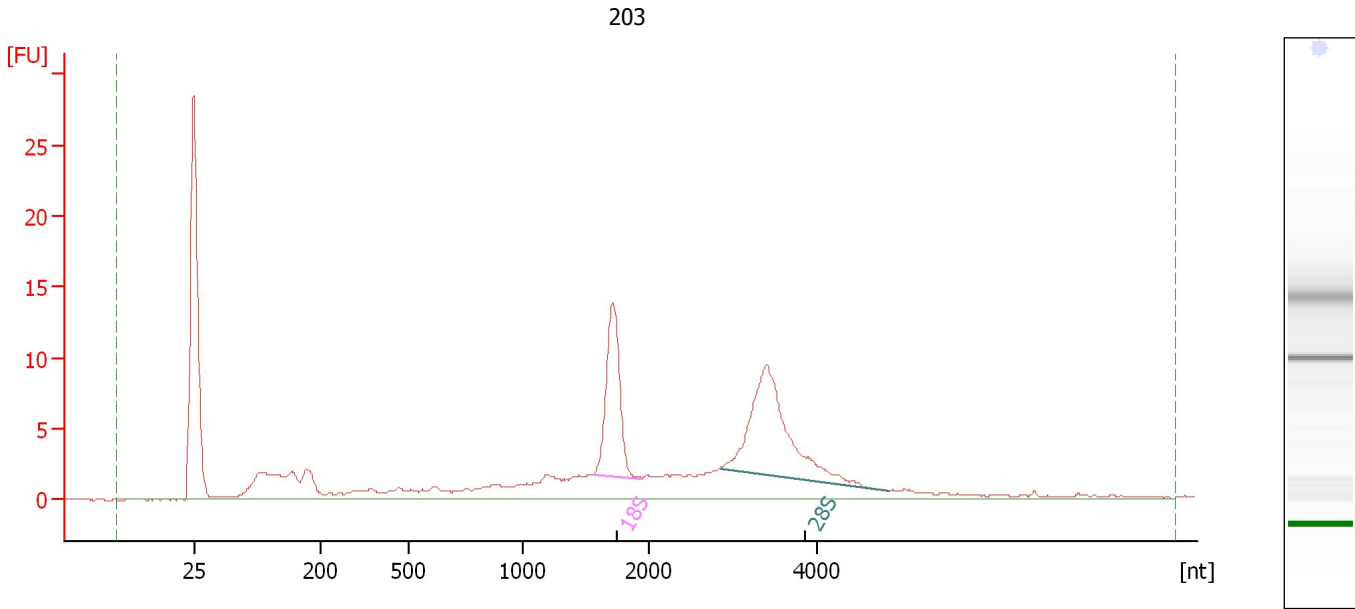
Fragment table for sample 6 : 200

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,991	12.0	11.8
28S	2,972	4,751	21.3	21.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 203

RNA Area:	152.6	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	638 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.60

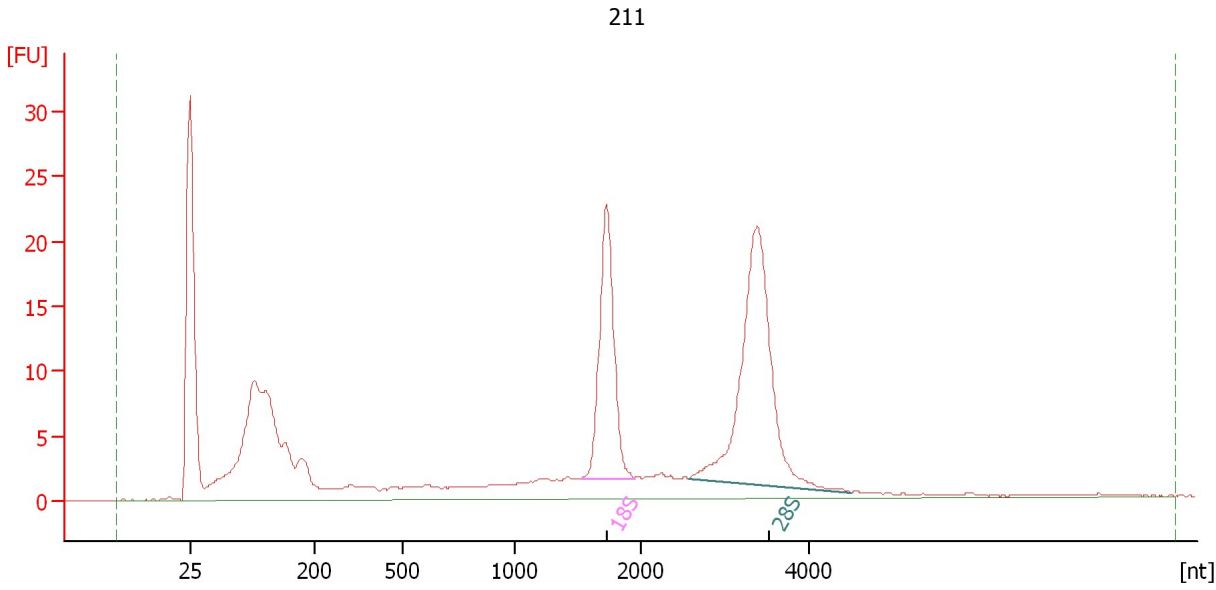
Fragment table for sample 7 : 203

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,939	20.6	13.5
28S	2,847	4,837	31.1	20.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 211

RNA Area:	256.5	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	1,072 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

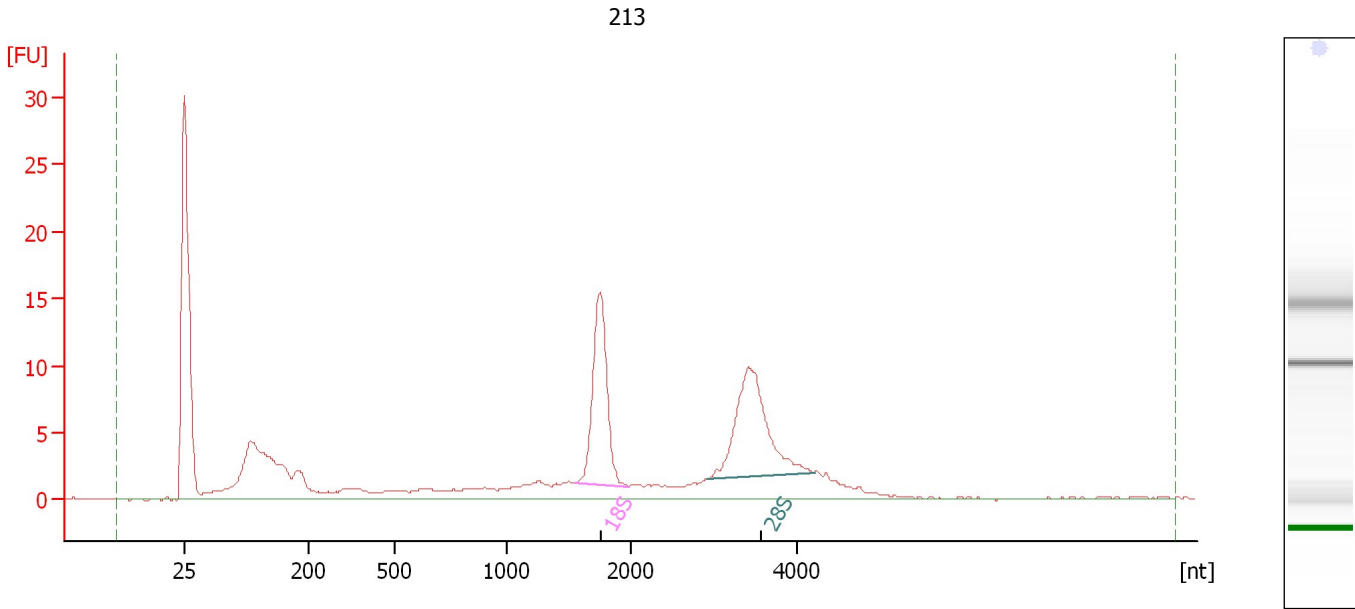
Fragment table for sample 8 : 211

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,520	1,945	38.4	15.0
28S	2,569	4,513	64.2	25.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 213

RNA Area:	161.2	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	674 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.80

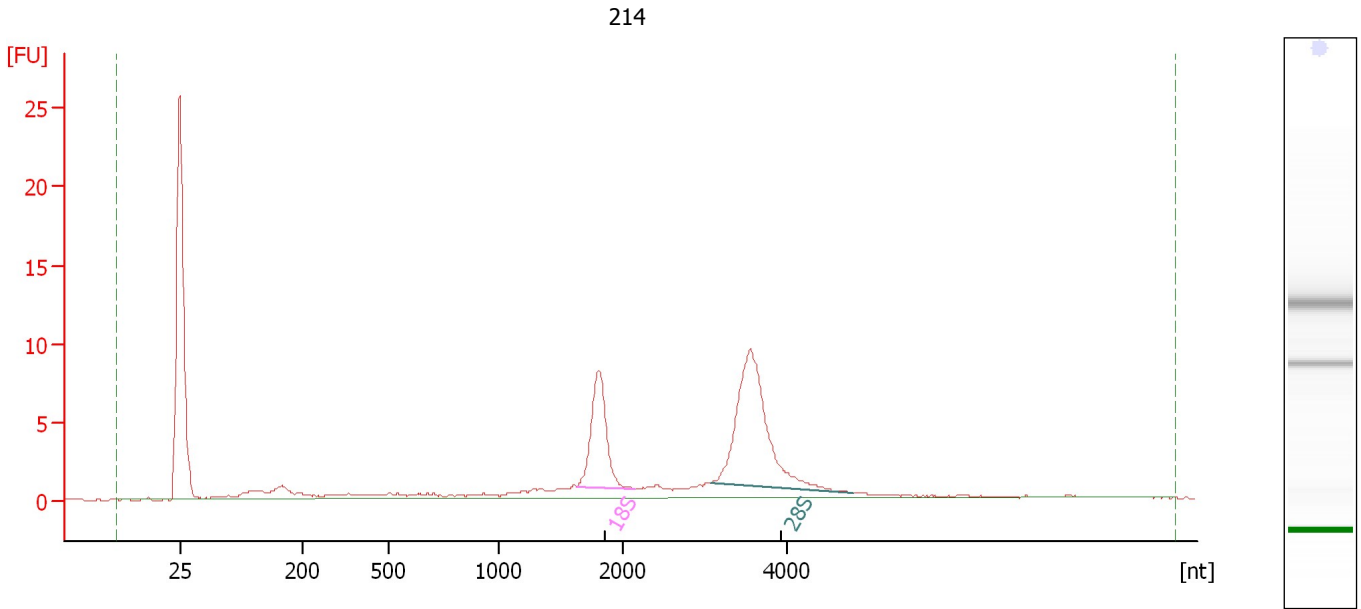
Fragment table for sample 9 : 213

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,984	25.8	16.0
28S	2,932	4,225	28.0	17.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 214

RNA Area: 81.2 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 339 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.30

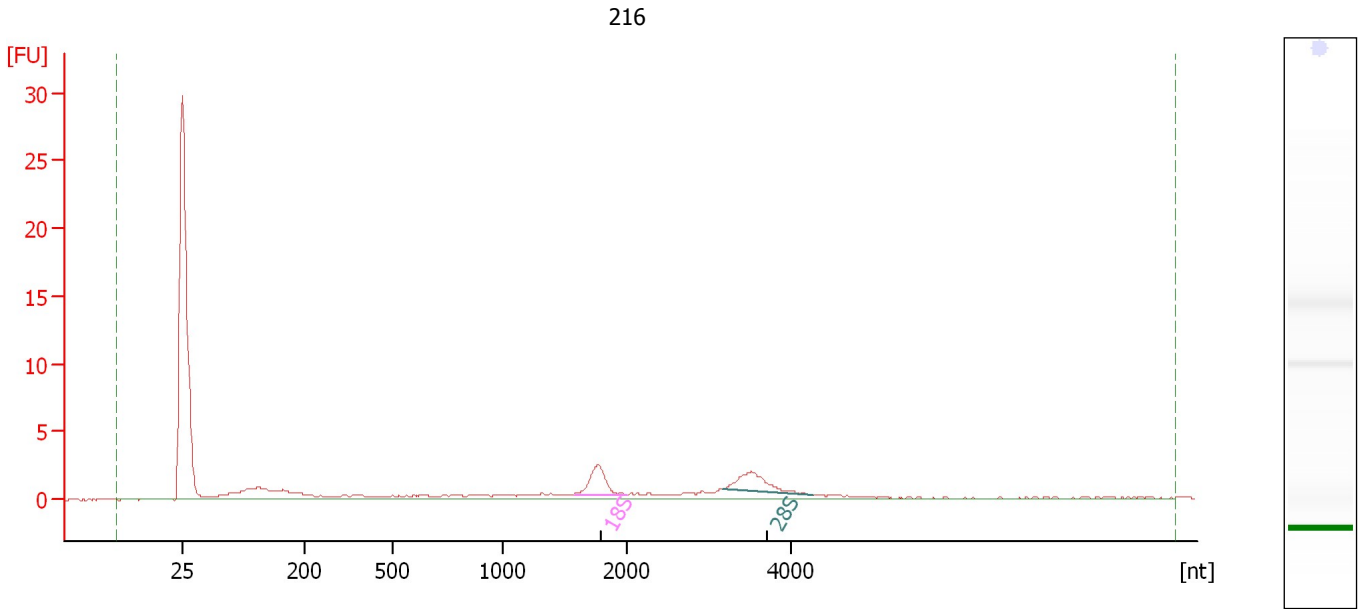
Fragment table for sample 10 : 214

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,154	14.4	17.7
28S	3,067	4,802	28.5	35.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 216

RNA Area:	39.9	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	167 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.30

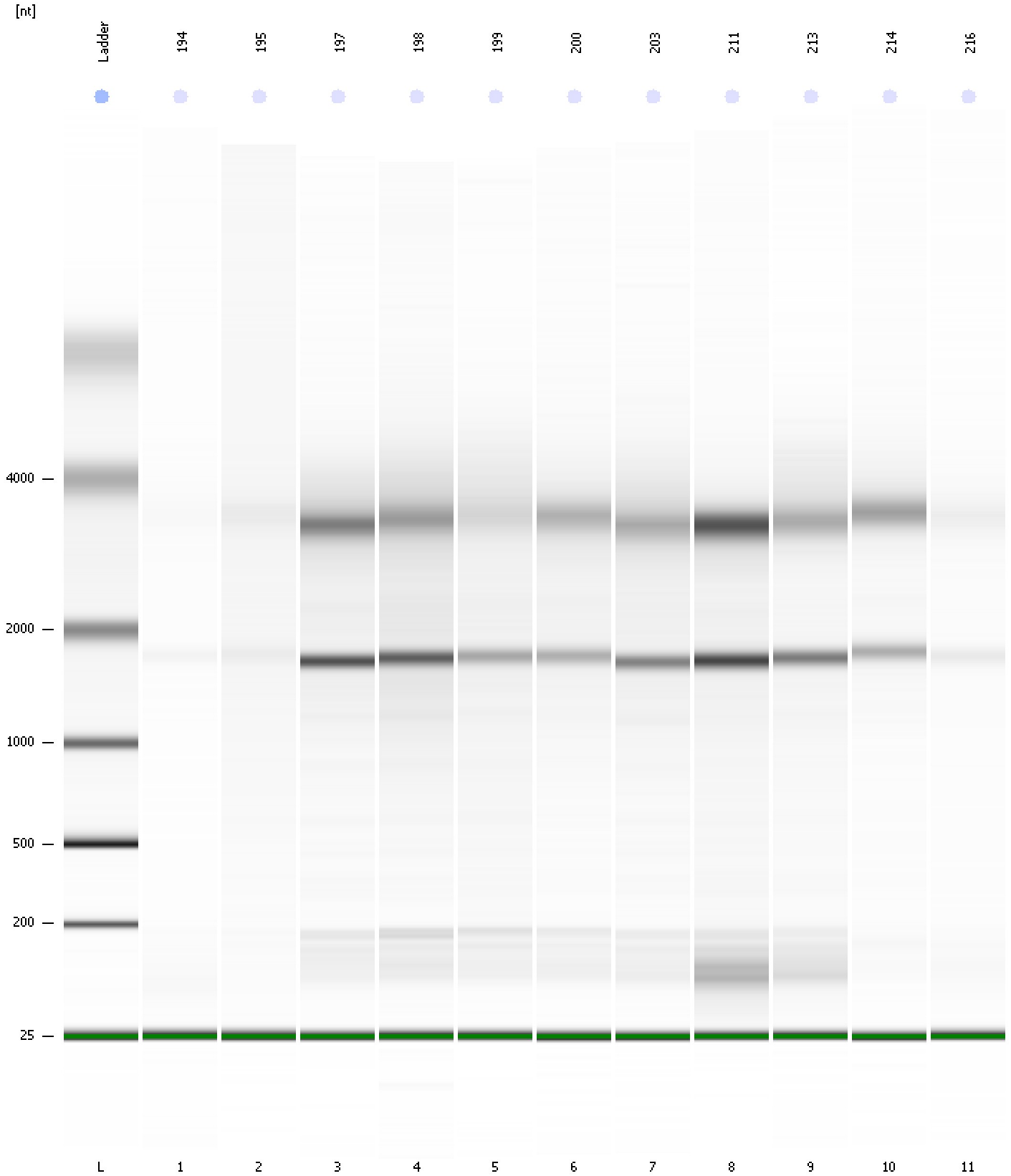
Fragment table for sample 11 : 216

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	2,000	4.3	10.9
28S	3,168	4,272	4.7	11.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
Modified: 4/11/2019 4:03:53 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad

Created: 4/11/2019 3:41:01 PM
 Modified: 4/11/2019 4:03:53 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		4/11/2019 4:03:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_002.xad)		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2019 3:41:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1