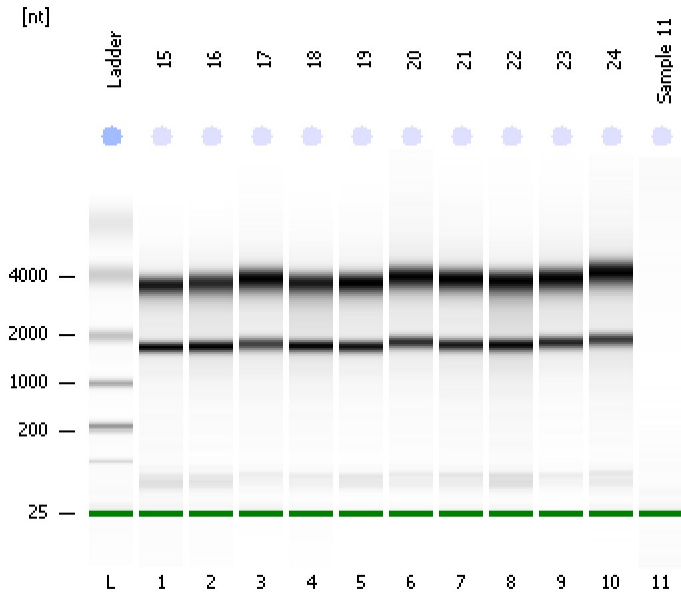


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

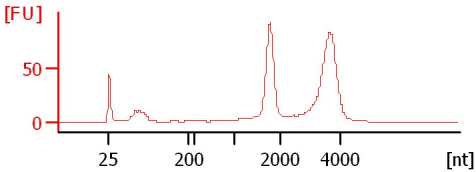
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

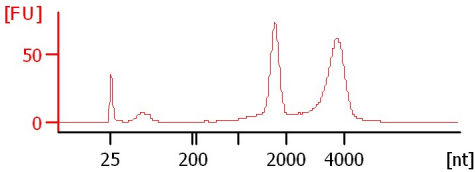
Chip Information:

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

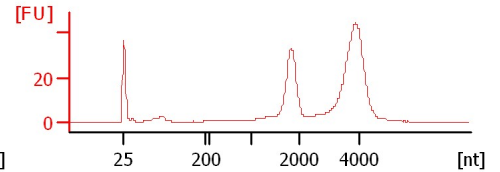
15
Annie QC
RIN:10



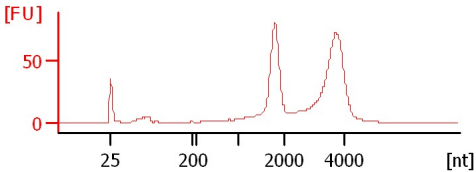
16
Annie QC
RIN: 9.90



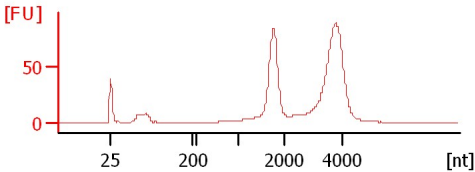
17
Annie QC
RIN:10



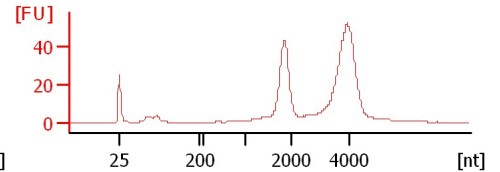
18
Annie QC
RIN: 9.90



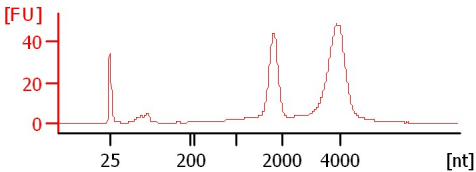
19
Annie QC
RIN:10



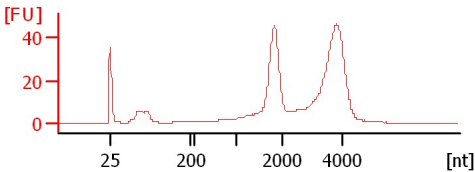
20
Annie QC
RIN:10



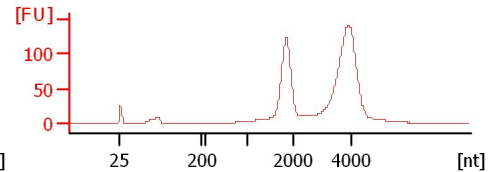
21
Annie QC
RIN: 9.90



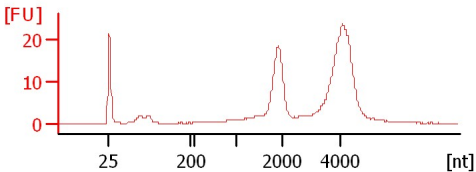
22
Annie QC
RIN: 9.90



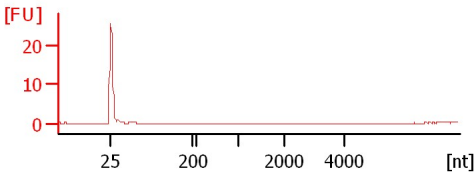
23
Annie QC
RIN:10



24
Annie QC
RIN:10



Sample 11
RIN:1



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
 Modified: 6/17/2016 2:53:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
15	Annie QC	✓	RIN:10	
16	Annie QC	✓	RIN: 9.90	
17	Annie QC	✓	RIN:10	
18	Annie QC	✓	RIN: 9.90	
19	Annie QC	✓	RIN:10	
20	Annie QC	✓	RIN:10	
21	Annie QC	✓	RIN: 9.90	
22	Annie QC	✓	RIN: 9.90	
23	Annie QC	✓	RIN:10	
24	Annie QC	✓	RIN:10	
Sample 11		✓	RIN:1	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 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

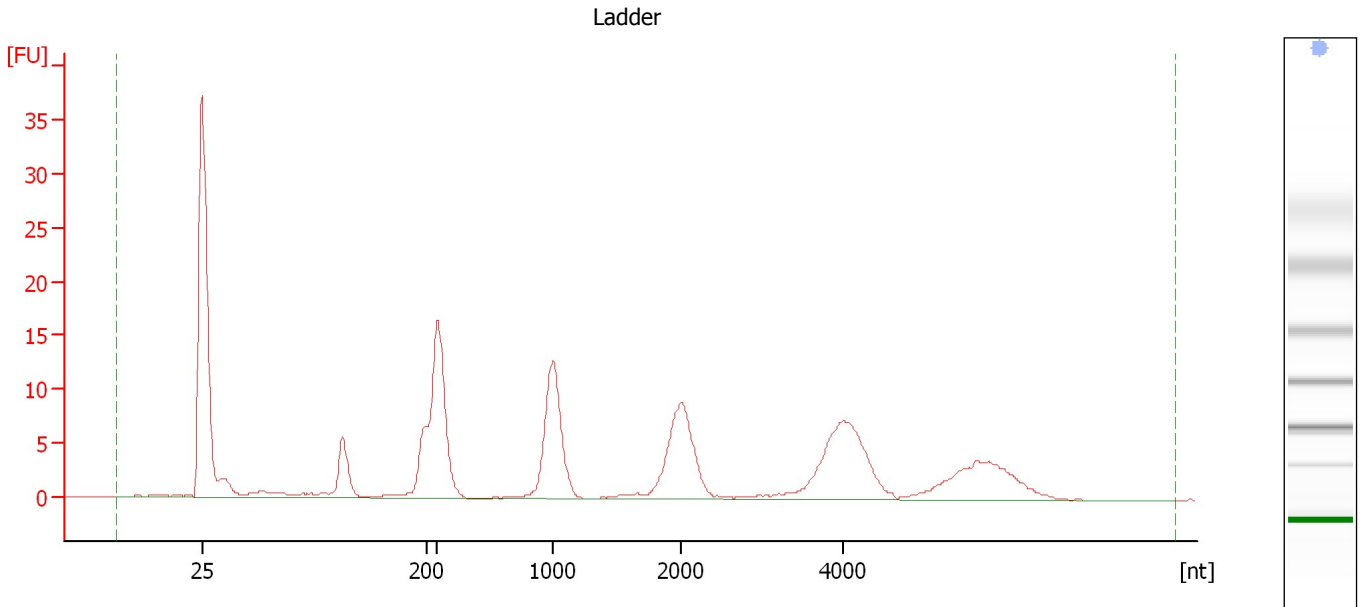
Ladder

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\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary



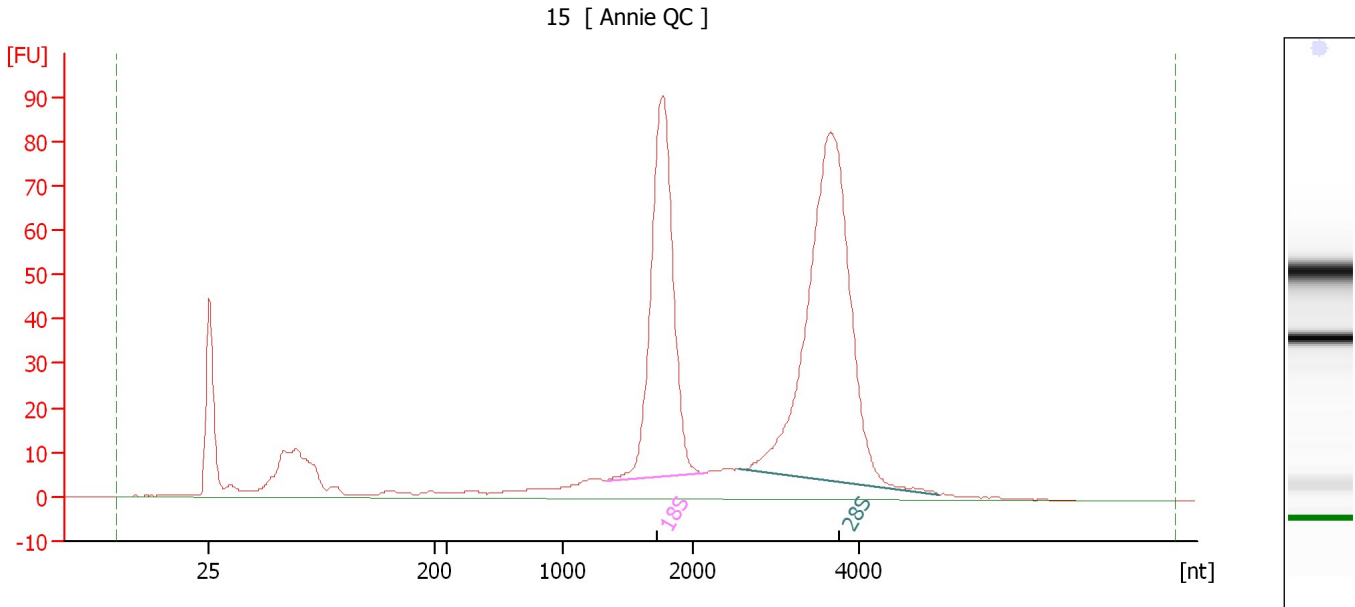
Overall Results for Ladder

RNA Area:	179.3	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\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 15

RNA Area: 864.2 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 4,819 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:10

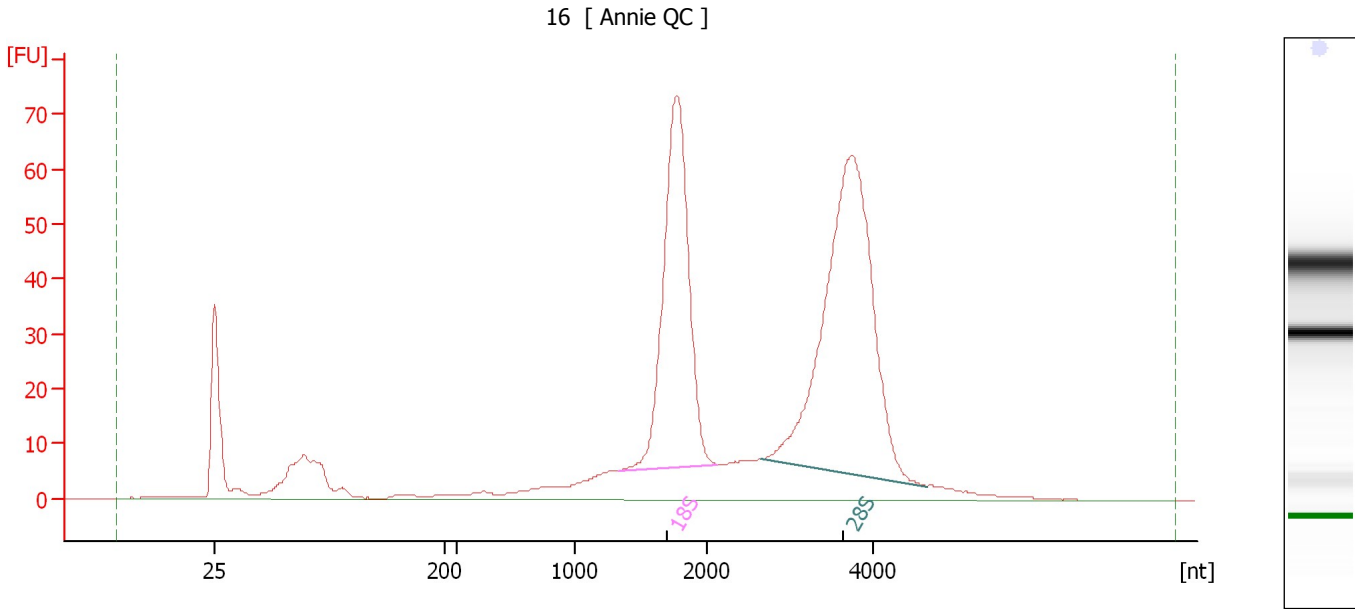
Fragment table for sample 1 : 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,335	2,159	225.9	26.1
28S	2,562	4,991	345.6	40.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 16

RNA Area: 773.5 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 4,313 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 9.90

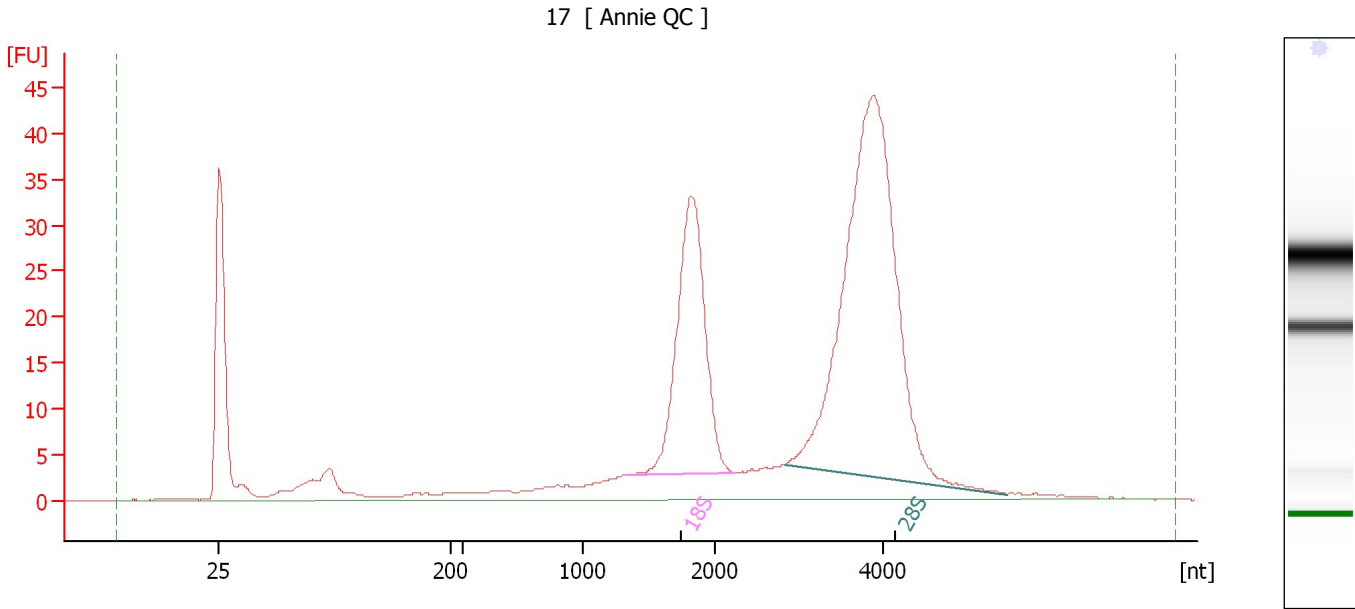
Fragment table for sample 2 : 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,338	2,122	202.0	26.1
28S	2,648	4,650	283.4	36.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 17

RNA Area: 465.9 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 2,598 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

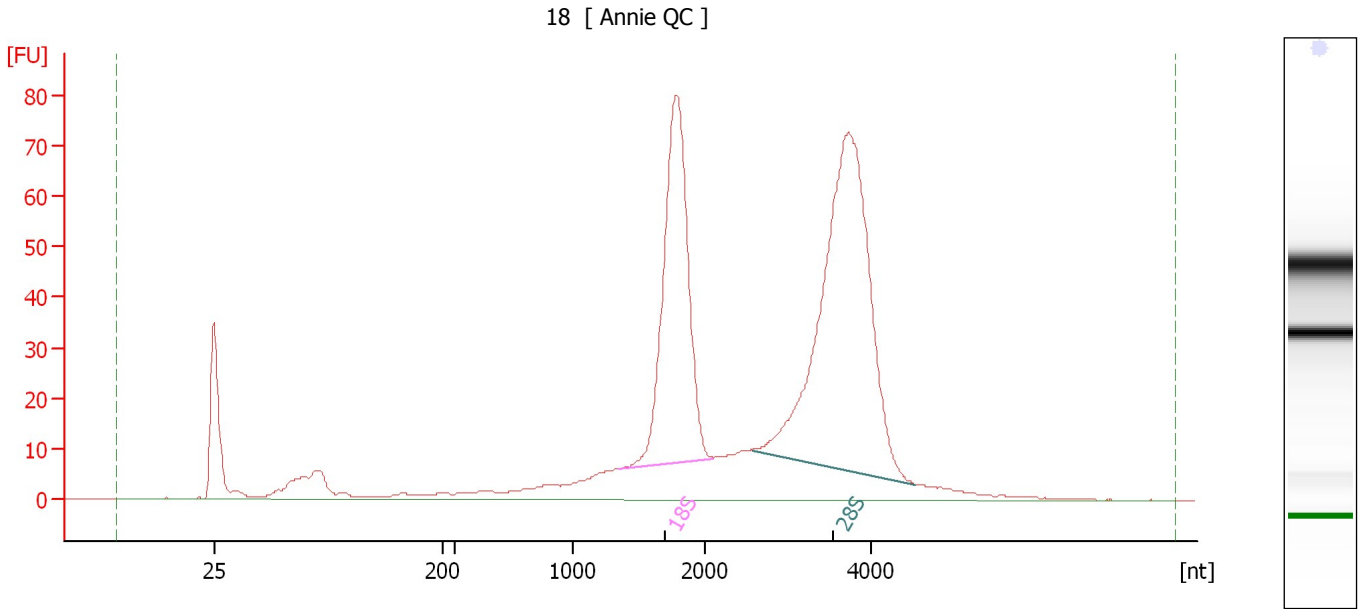
Fragment table for sample 3 : 17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,345	2,251	99.0	21.2
28S	2,836	5,483	210.3	45.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 18

RNA Area:	869.0	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	4,846 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.90

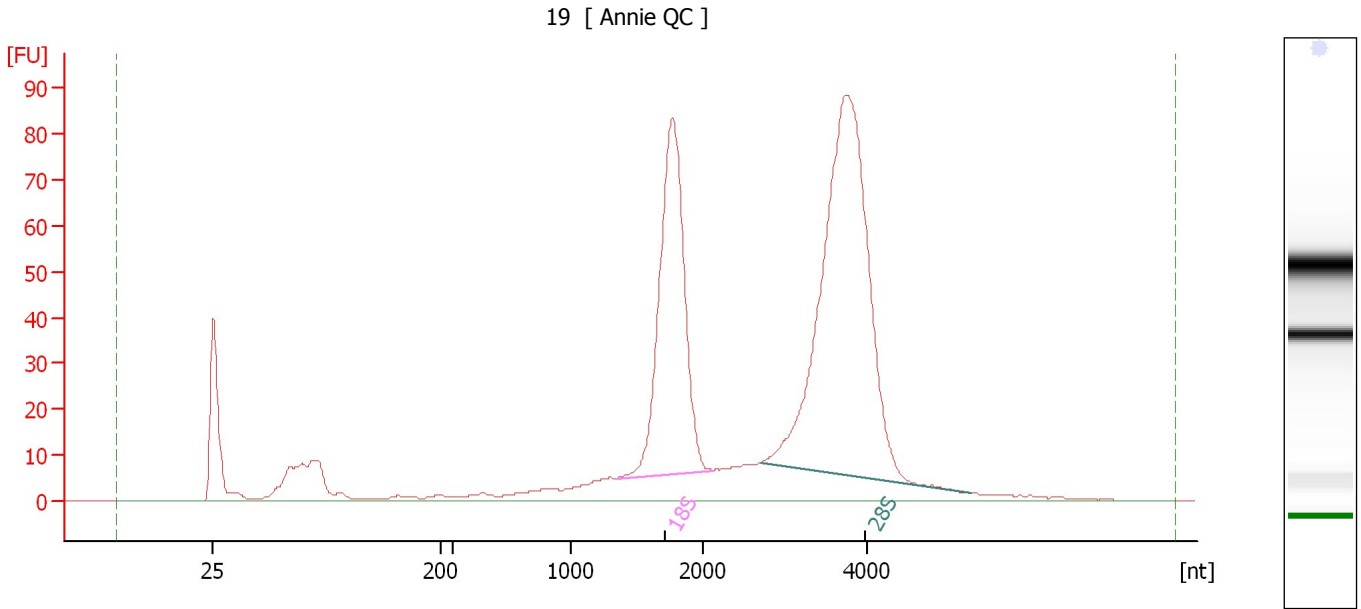
Fragment table for sample 4 : 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,352	2,109	212.2	24.4
28S	2,585	4,539	329.0	37.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 19

RNA Area: 940.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 5,244 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

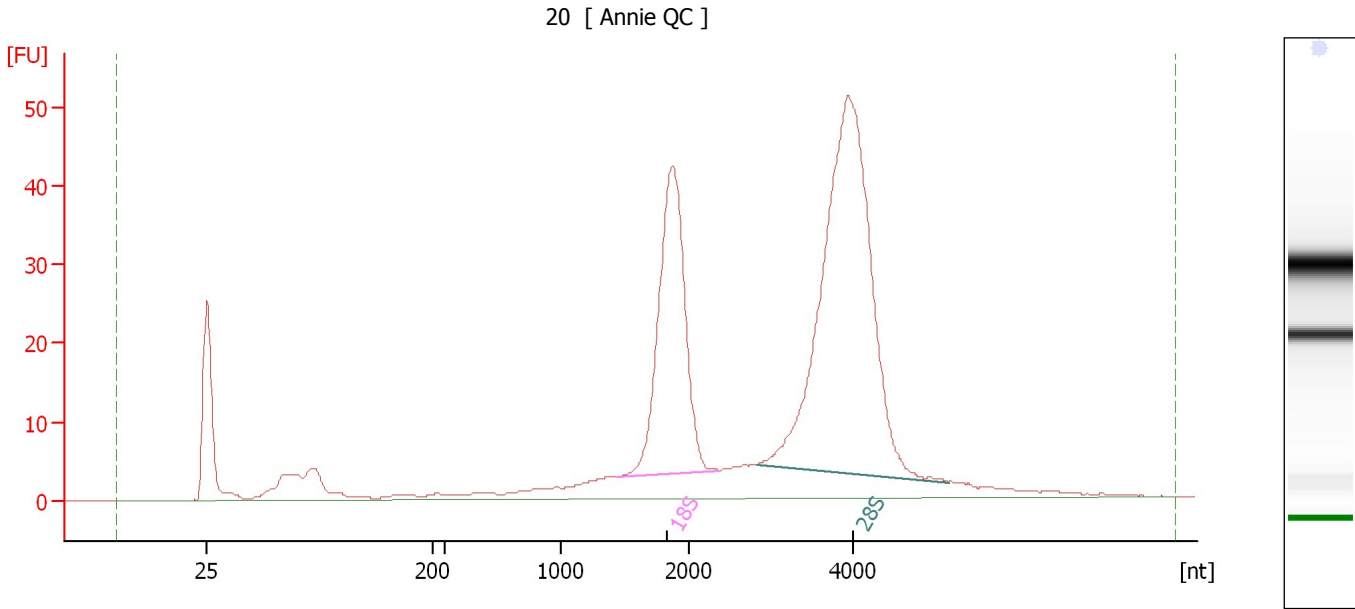
Fragment table for sample 5 : 19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,351	2,134	228.9	24.3
28S	2,701	5,239	395.2	42.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 20

RNA Area: 539.9 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 3,011 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

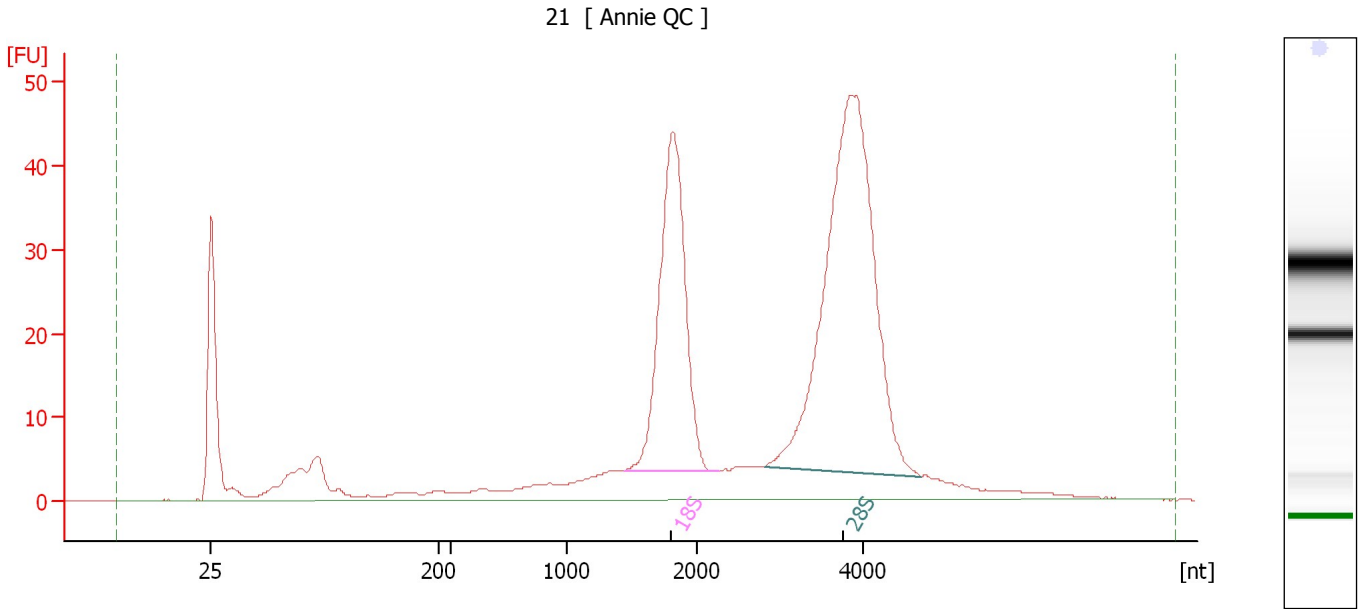
Fragment table for sample 6 : 20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,439	2,367	121.9	22.6
28S	2,811	5,159	236.4	43.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 21

RNA Area:	549.0	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	3,062 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

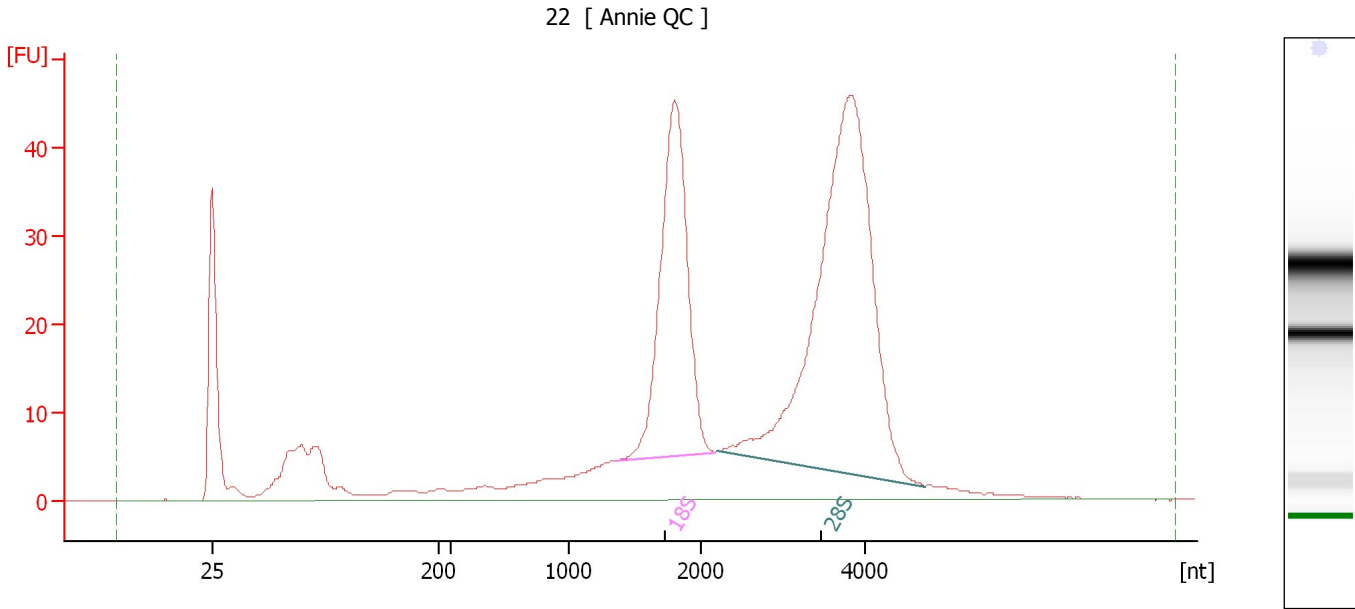
Fragment table for sample 7 : 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,437	2,250	123.2	22.4
28S	2,806	4,708	221.7	40.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 22

RNA Area:	607.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	3,389 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.90

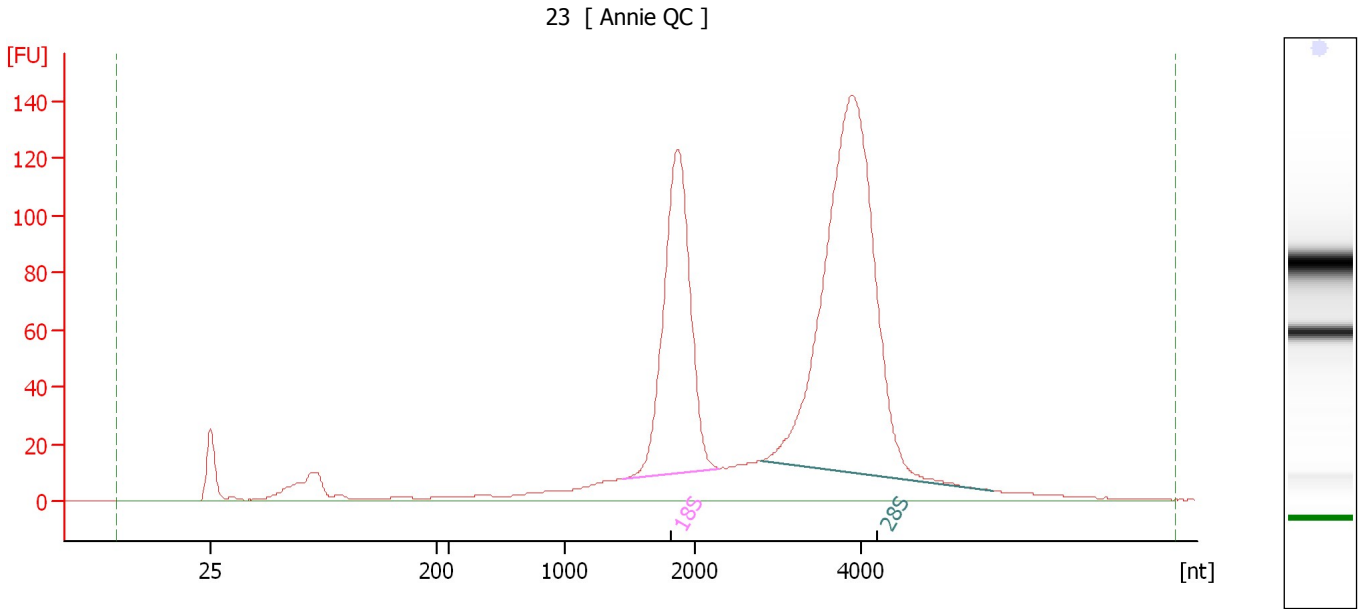
Fragment table for sample 8 : 22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,349	2,173	128.2	21.1
28S	2,199	4,716	237.3	39.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 23

RNA Area: 1,505.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 8,395 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

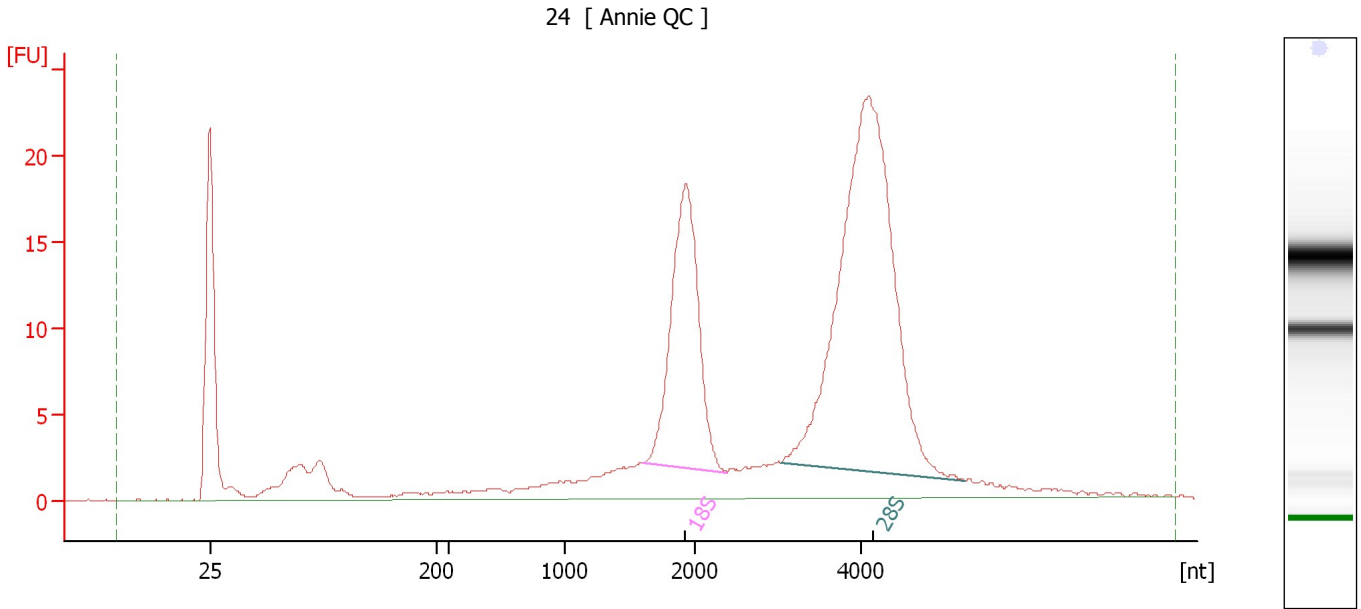
Fragment table for sample 9 : 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,436	2,289	357.5	23.7
28S	2,782	5,608	676.8	45.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 24

RNA Area:	270.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	1,509 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN:10

Fragment table for sample 10 : 24

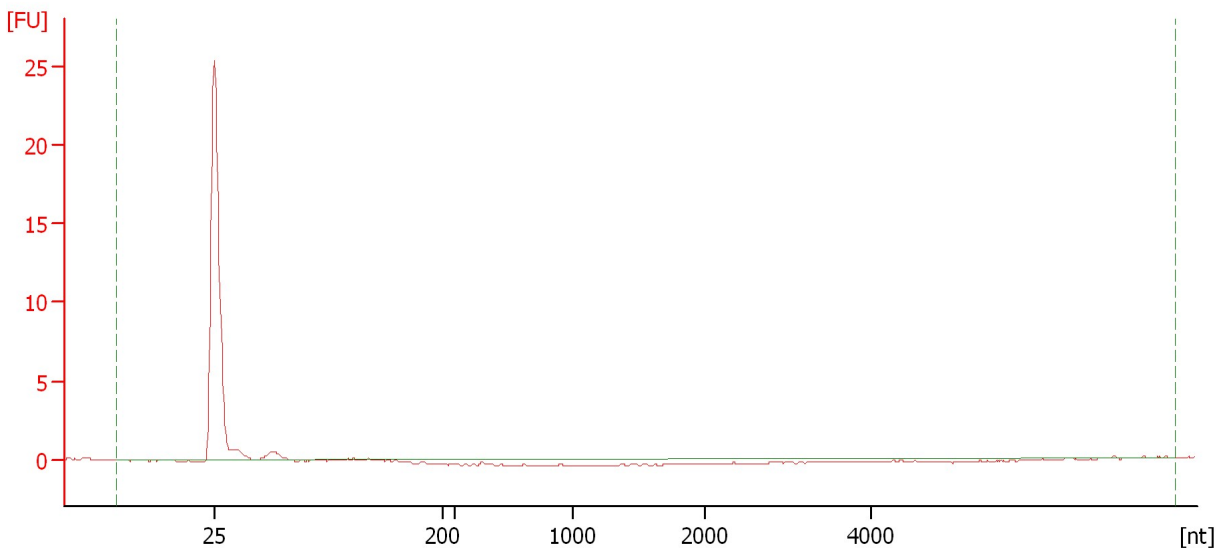
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	2,380	52.6	19.4
28S	3,028	5,258	115.6	42.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Electropherogram Summary Continued ...

Sample 11



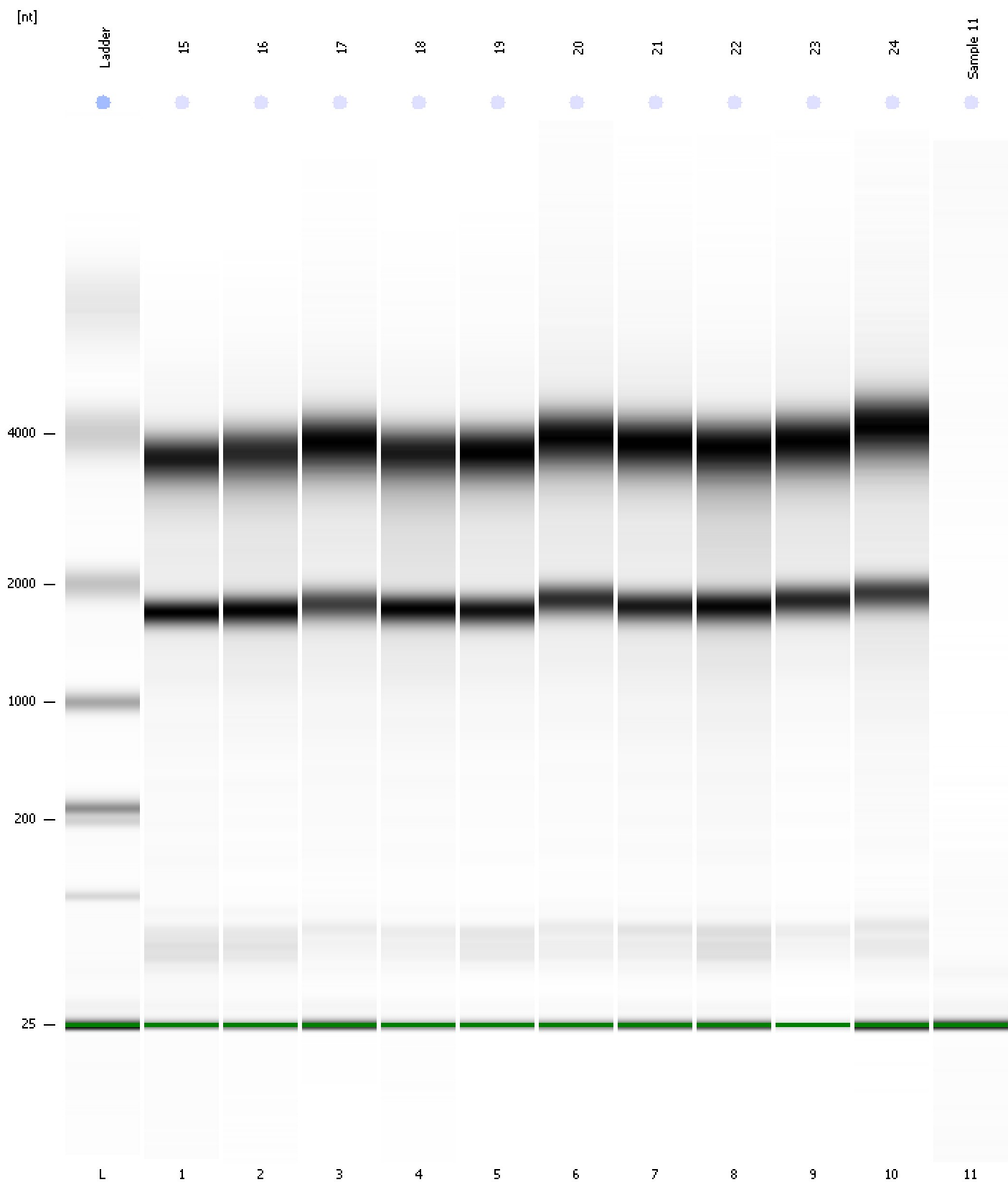
Overall Results for sample 11 : Sample 11

RNA Area:	3.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	20 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
Modified: 6/17/2016 2:53:51 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-17\2016-06-17_003.xad

Created: 6/17/2016 2:31:50 PM
 Modified: 6/17/2016 2:53:51 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		6/17/2016 2:53:50 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\2016-06-17\2016-06-17_003.xad)		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/17/2016 2:31:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1