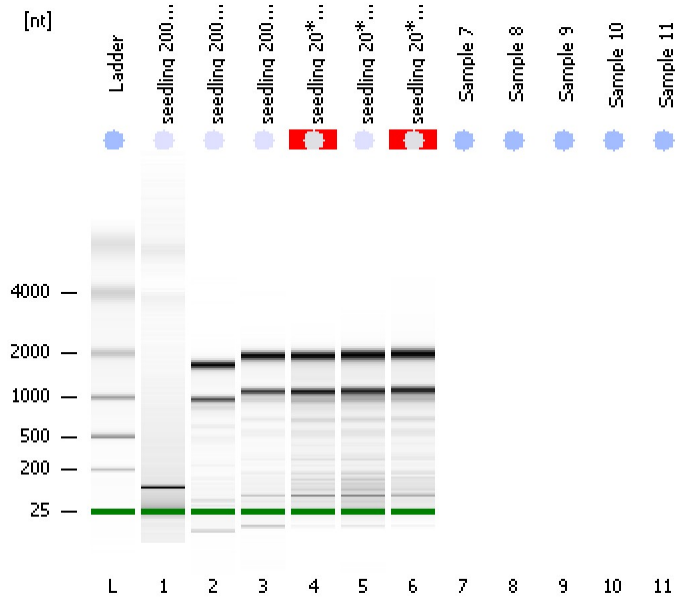


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electrophoresis File Run Summary



Instrument Information:

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

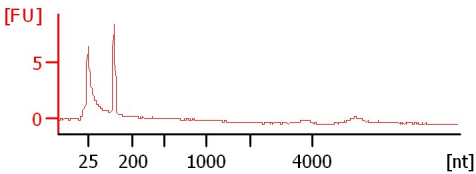
Assay Information:

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.

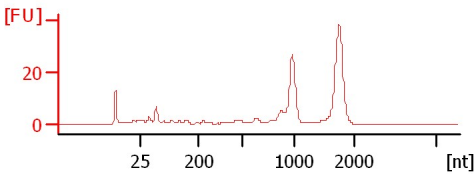
Chip Information:

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

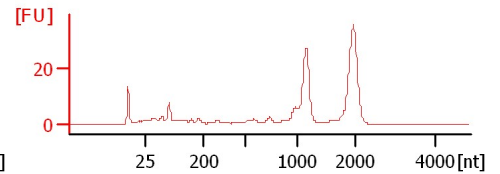
seedling 2000*9 1
RIN: 2.30



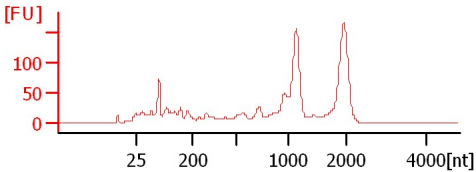
seedling 2000*9 2
RIN: 9.10



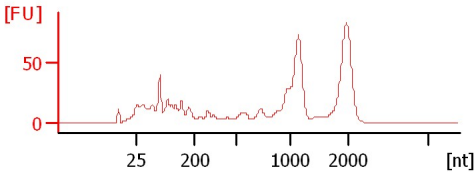
seedling 2000*9 3
RIN:9



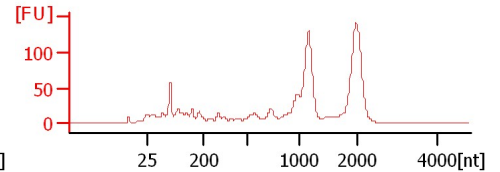
seedling 20*20 1
RIN N/A



seedling 20*20 2
RIN:9



seedling 20*20 3
RIN N/A



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
seedling 2000*9 1		✓	RIN: 2.30	
seedling 2000*9 2		✓	RIN: 9.10	
seedling 2000*9 3		✓	RIN:9	
seedling 20*20 1		✓	RIN N/A	
seedling 20*20 2		✓	RIN:9	
seedling 20*20 3		✓	RIN N/A	
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 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

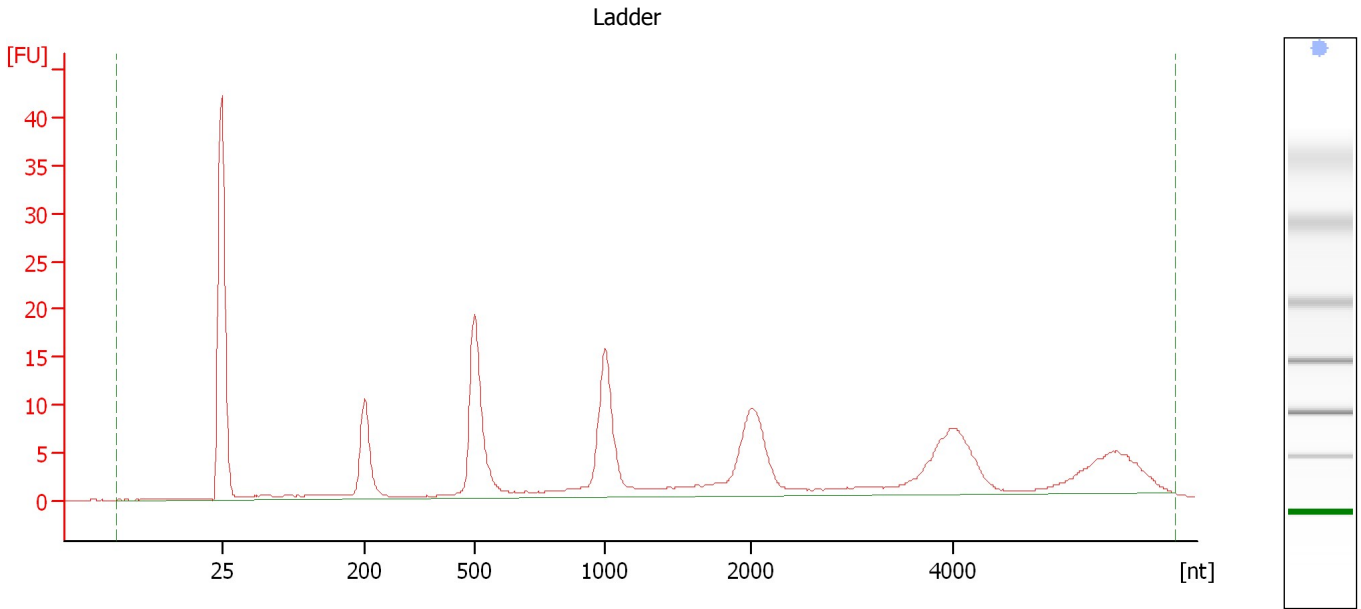
Ladder

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\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary



Overall Results for Ladder

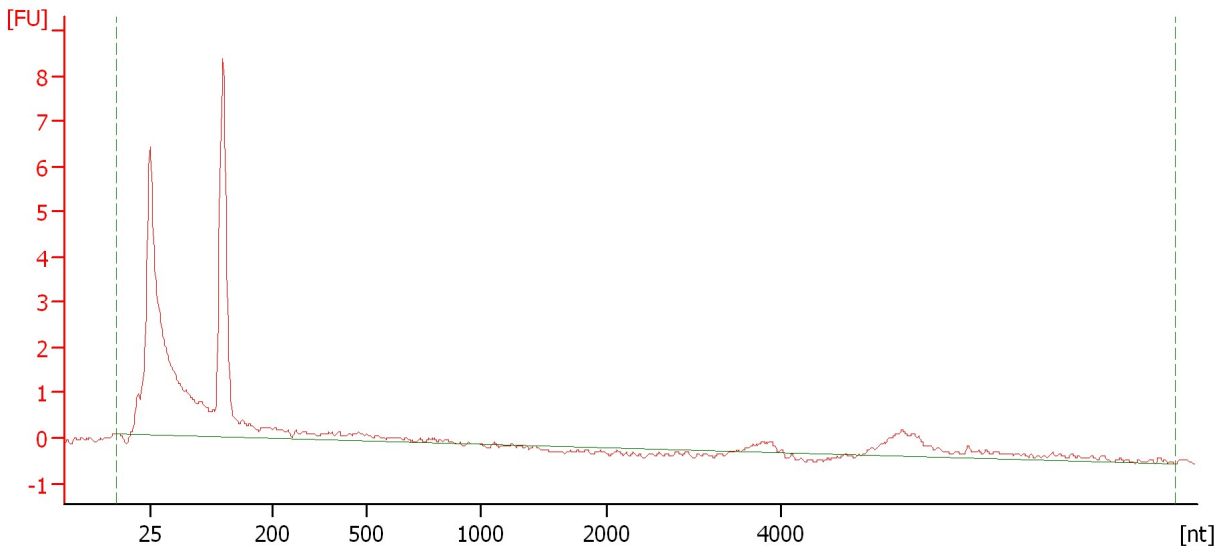
RNA Area:	190.8	Result Flagging Color:	
RNA Concentration:	1,000 pg/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...

seedling 2000*9 1



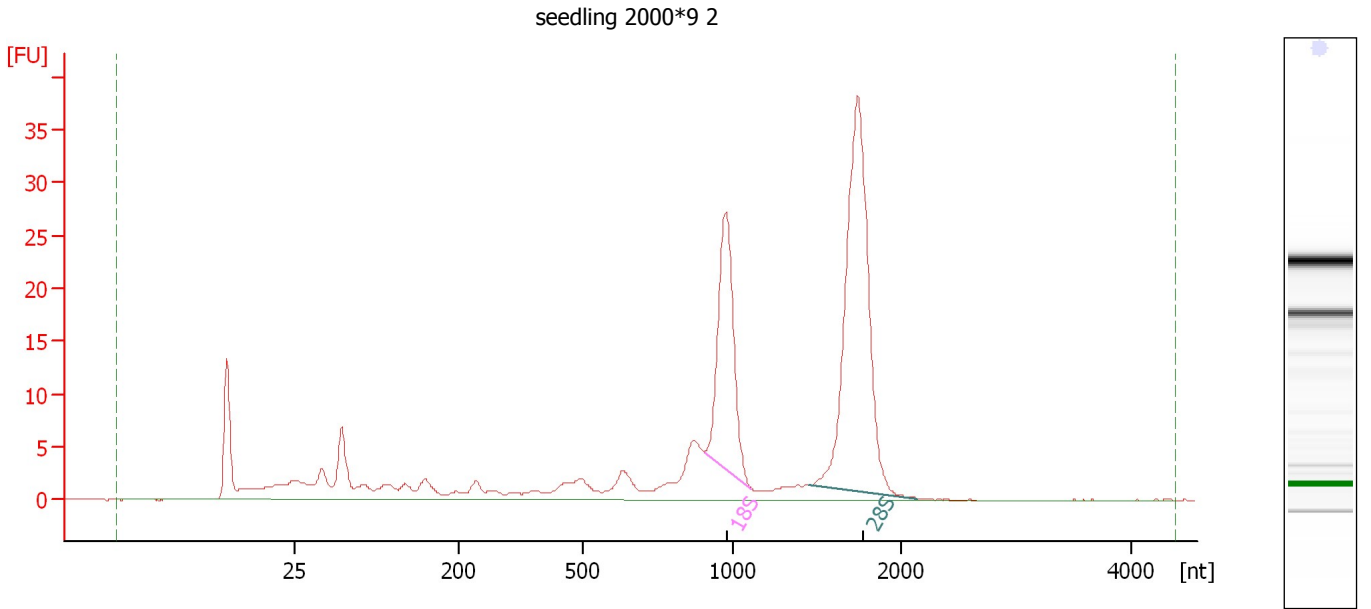
Overall Results for sample 1 : seedling 2000*9 1

RNA Area:	26.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	138 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : seedling 2000*9 2

RNA Area: 252.8 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 1,325 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.10

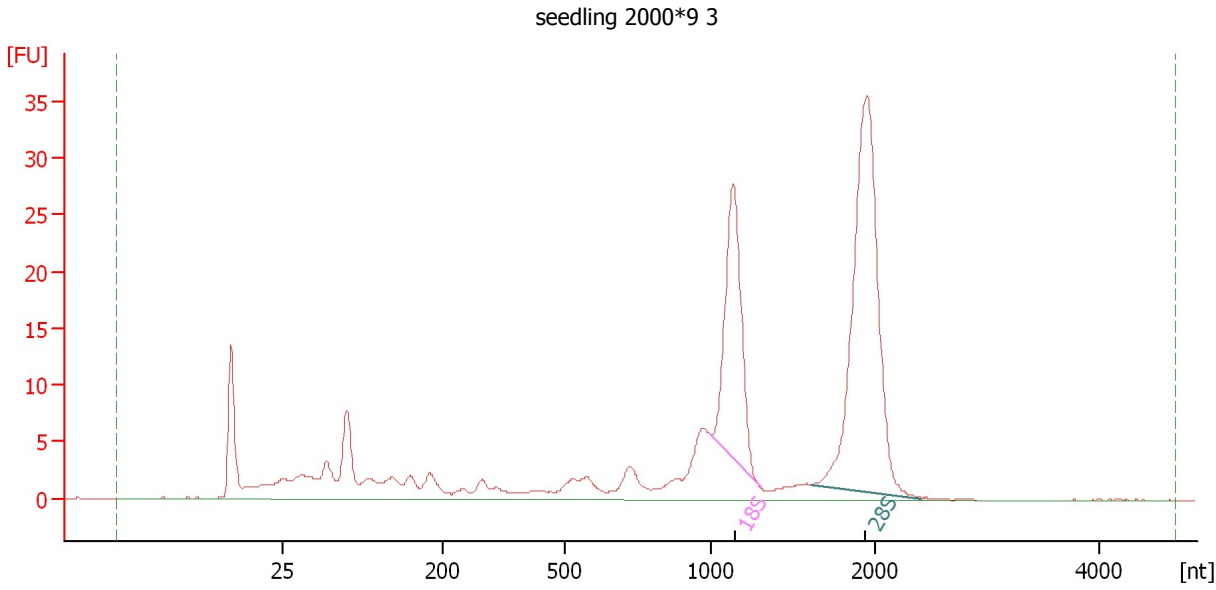
Fragment table for sample 2 : seedling 2000*9 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	904	1,110	42.2	16.7
28S	1,455	2,137	83.3	32.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : seedling 2000*9 3

RNA Area: 278.7 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 1,461 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:9

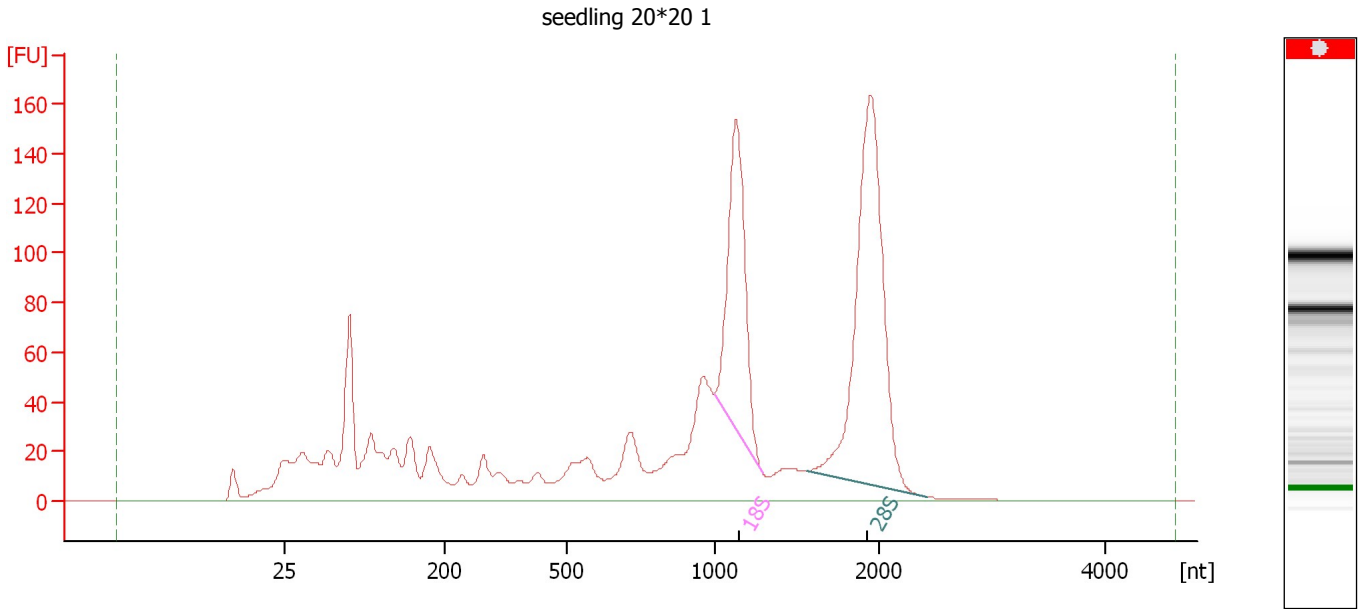
Fragment table for sample 3 : seedling 2000*9 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,000	1,301	43.7	15.7
28S	1,608	2,417	85.8	30.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : seedling 20*20 1

RNA Area: 1,835.7 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 9,624 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN N/A

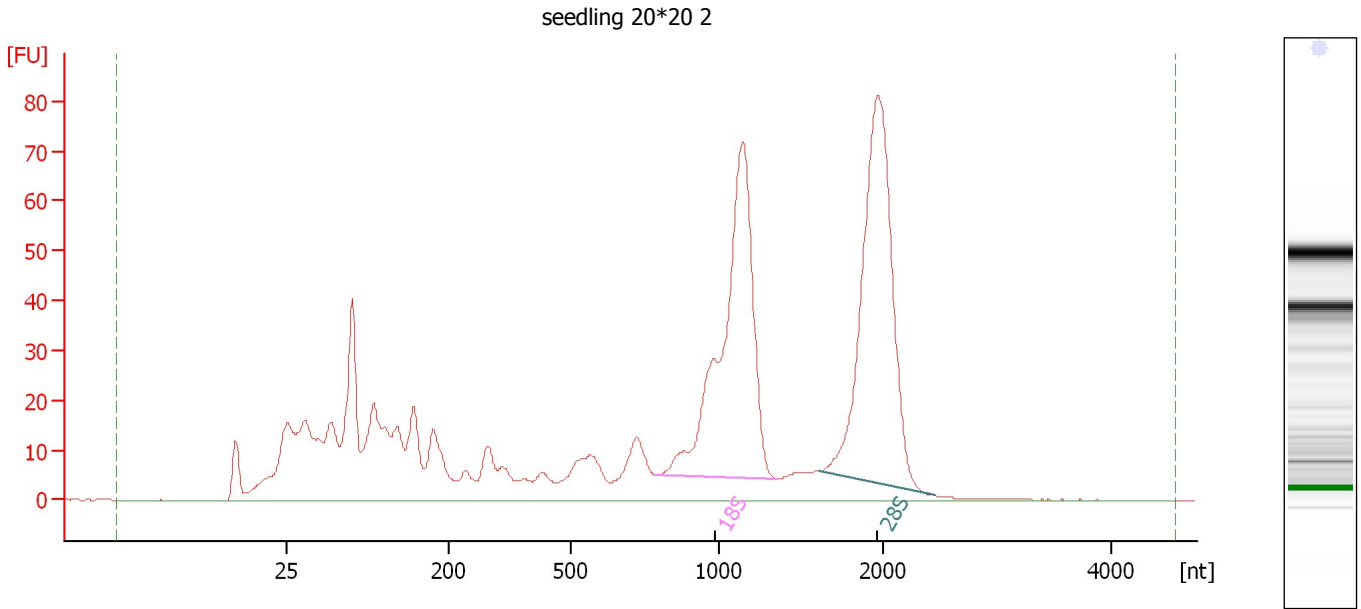
Fragment table for sample 4 : seedling 20*20 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	998	1,290	238.1	13.0
28S	1,557	2,425	412.0	22.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : seedling 20*20 2

RNA Area: 1,063.3 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 5,574 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:9

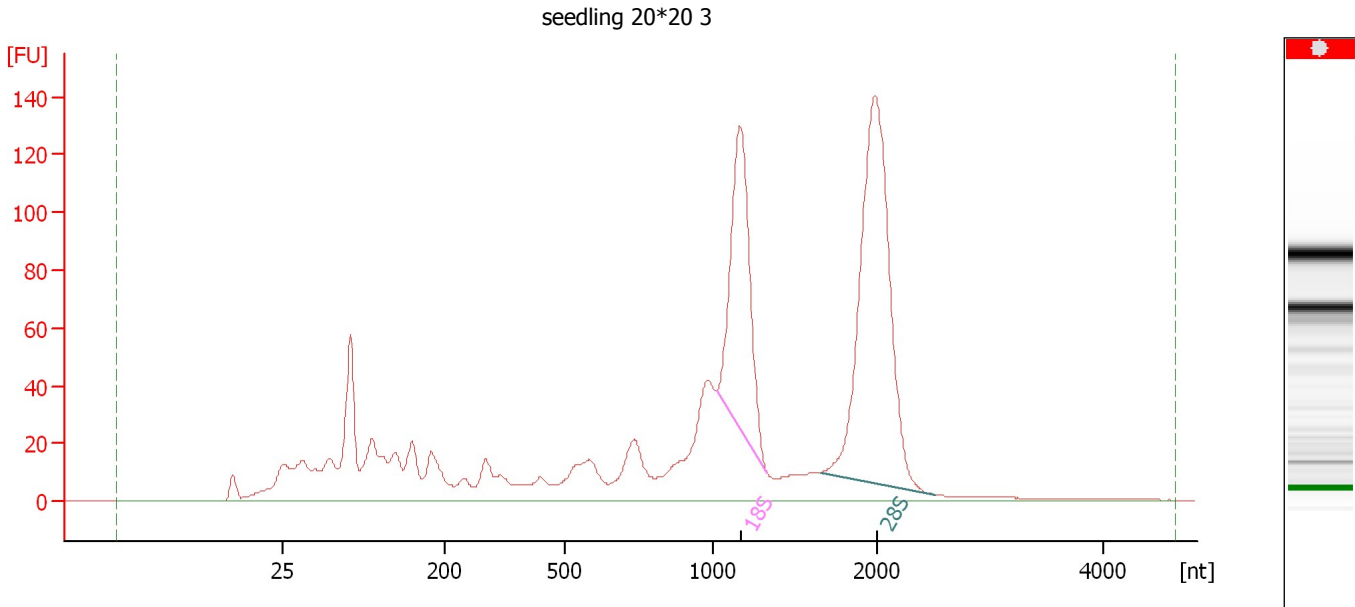
Fragment table for sample 5 : seedling 20*20 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	787	1,351	229.3	21.6
28S	1,610	2,451	231.5	21.8


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : seedling 20*20 3

RNA Area:	1,556.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8,162 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN N/A

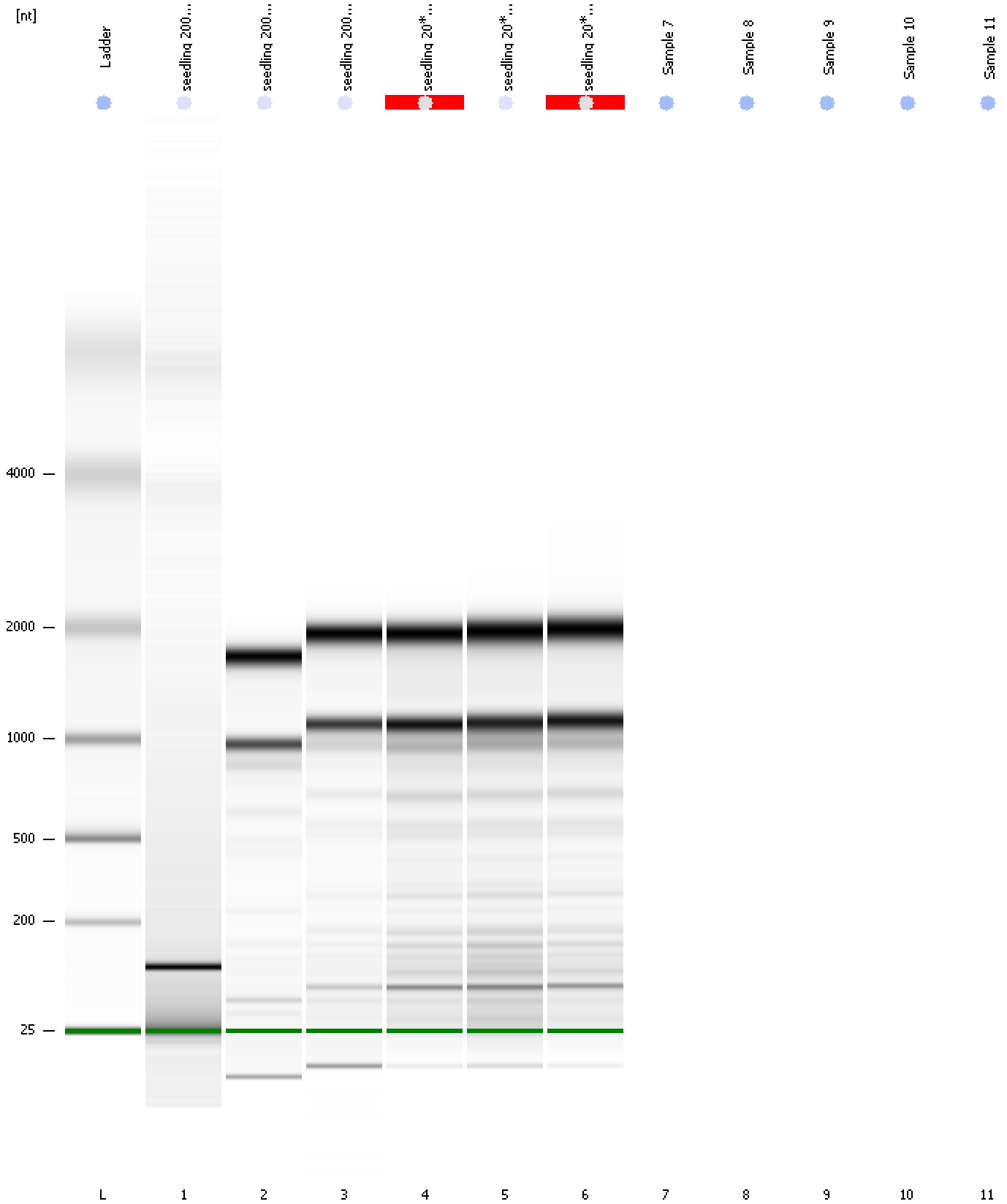
Fragment table for sample 6 : seedling 20*20 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,021	1,334	220.4	14.2
28S	1,654	2,511	390.4	25.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
Modified: 11/17/2016 1:50:37 PM

Invalid Samples

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.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-17\2016-11-17_001.xad

Created: 11/17/2016 1:34:48 PM
 Modified: 11/17/2016 1:50:37 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		11/17/2016 1:50:33 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\2016-11-17\2016-11-17_001.xad)		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/17/2016 1:34:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1