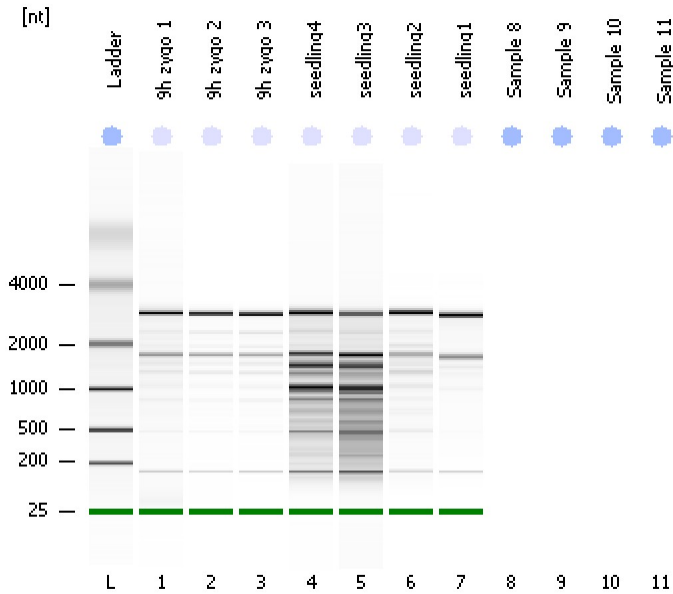


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

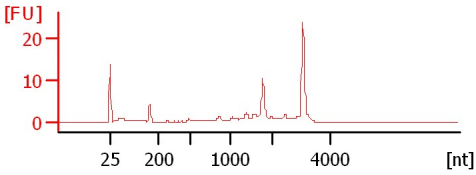
Assay Information:

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.

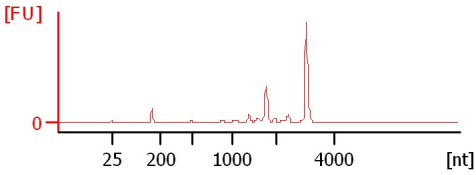
Chip Information:

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

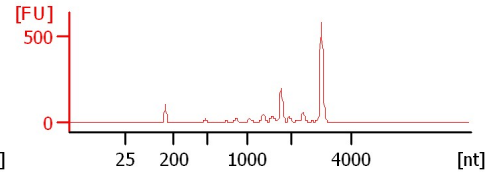
9h zygo 1
RIN: 8.20



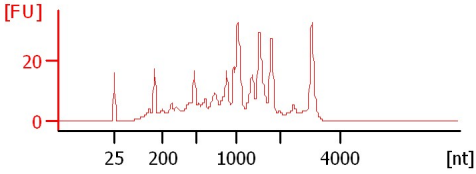
9h zygo 2
RIN: 8.20



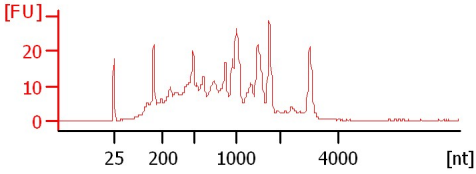
9h zygo 3
RIN: 8



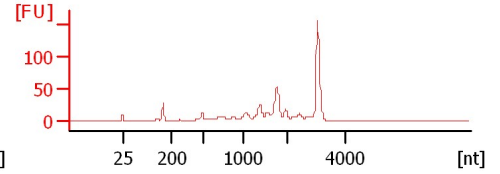
seedling4
RIN: 5.90



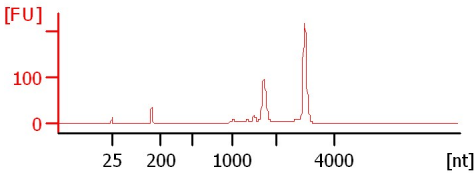
seedling3
RIN: 5.10



seedling2
RIN: 7.90



seedling1
RIN: 8.60



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
9h zygo 1		✓	RIN: 8.20	
9h zygo 2		✓	RIN: 8.20	
9h zygo 3		✓	RIN:8	
seedling4		✓	RIN: 5.90	
seedling3		✓	RIN: 5.10	
seedling2		✓	RIN: 7.90	
seedling1		✓	RIN: 8.60	
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:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 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

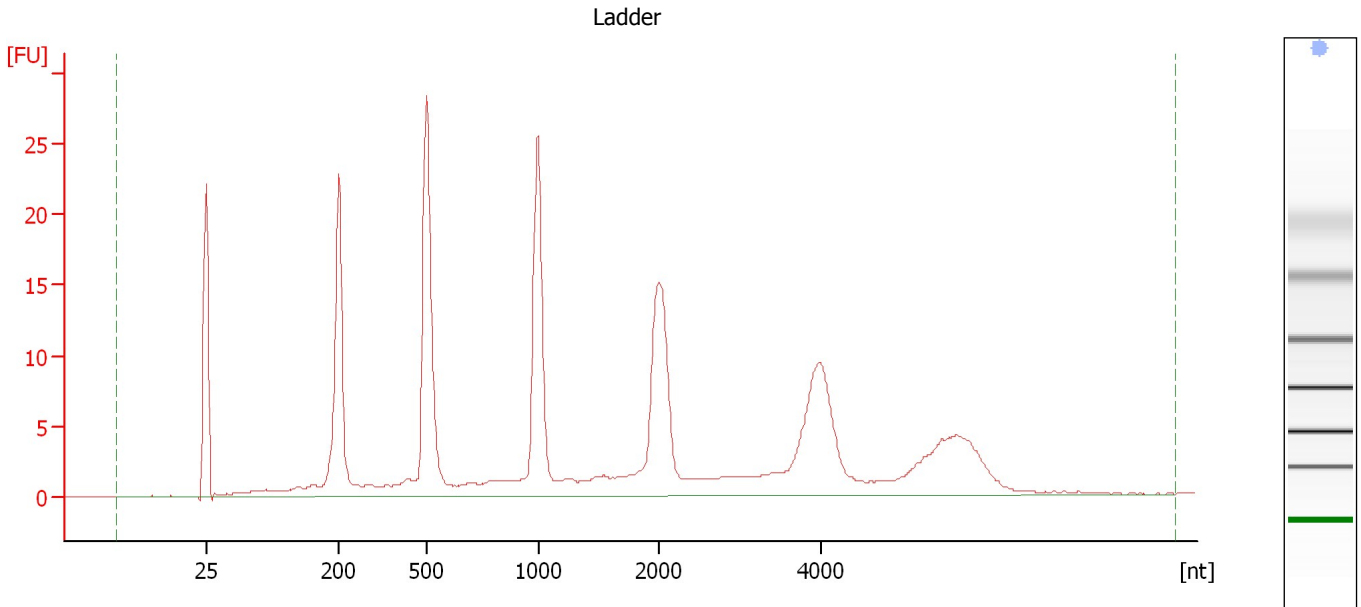
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary



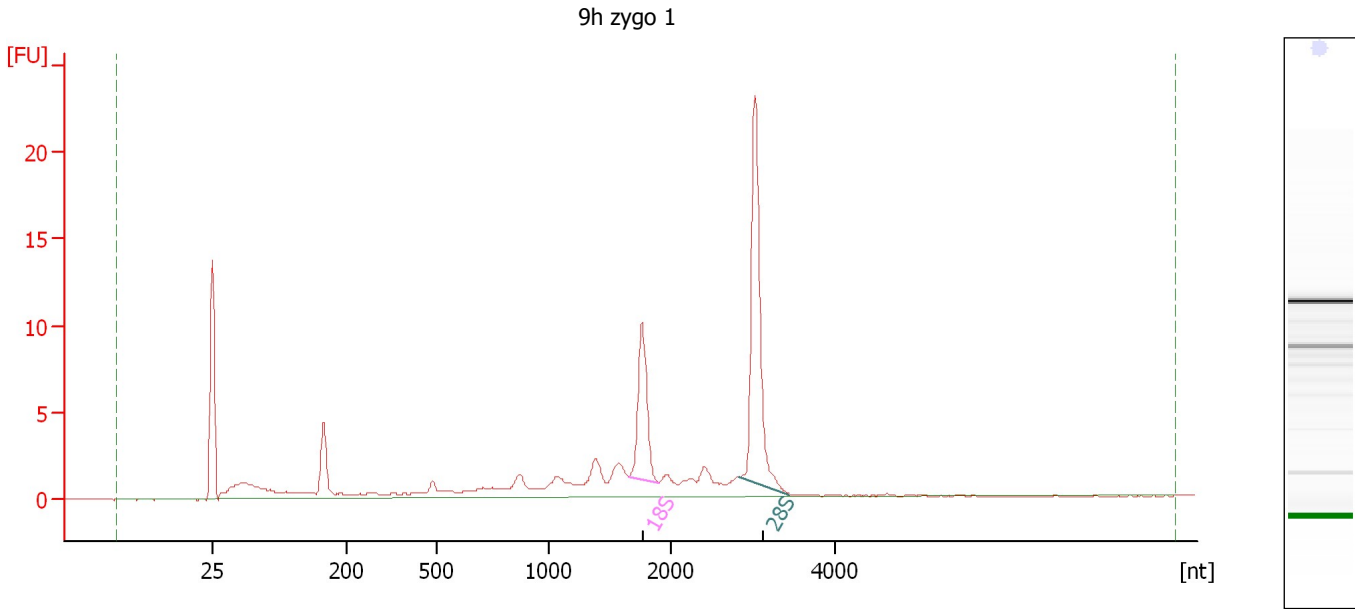
Overall Results for Ladder

RNA Area:	243.0	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 9h zygo 1

RNA Area: 84.8 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 349 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 8.20

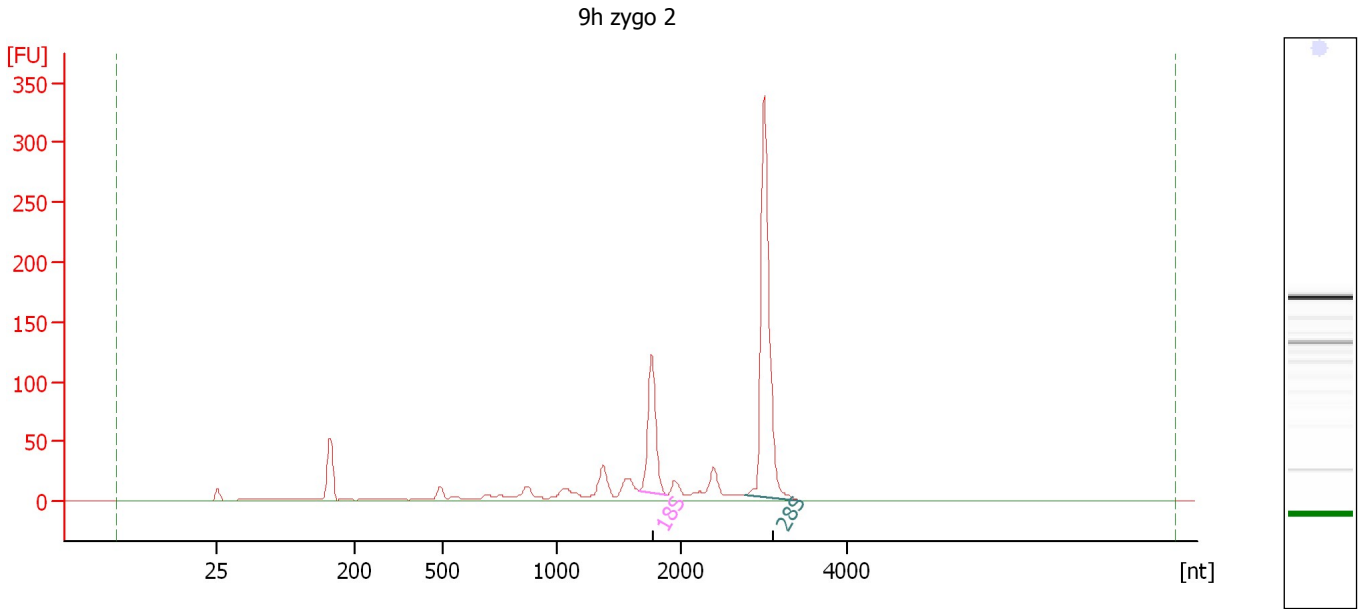
Fragment table for sample 1 : 9h zygo 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,900	9.5	11.1
28S	2,832	3,446	20.2	23.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9h zygo 2

RNA Area: 793.0 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 3,263 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.7 Result Flagging Label: RIN: 8.20

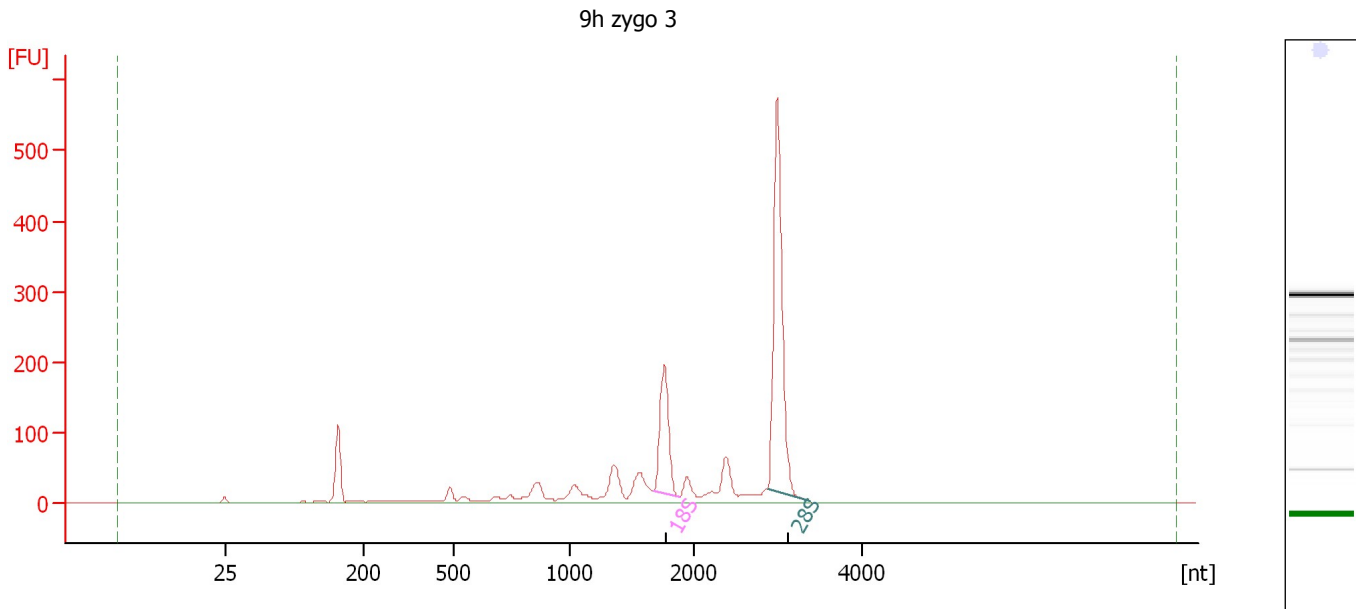
Fragment table for sample 2 : 9h zygo 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	1,880	115.5	14.6
28S	2,778	3,464	312.5	39.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9h zygo 3

RNA Area:	1,456.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	5,993 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN:8

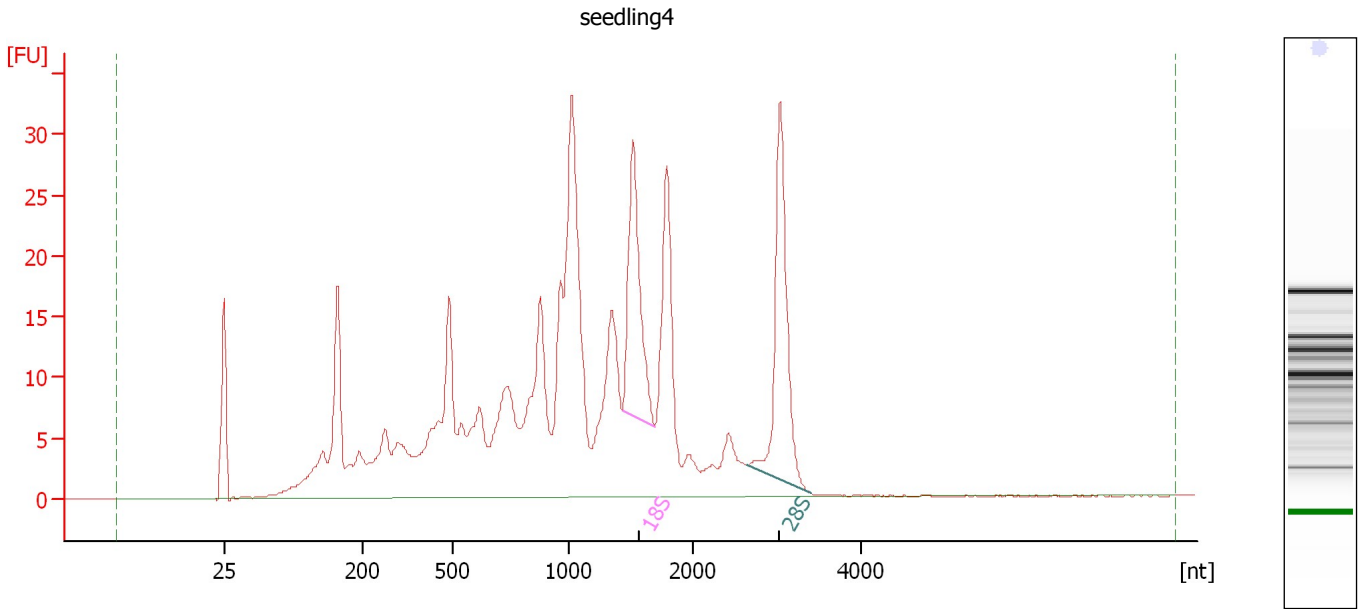
Fragment table for sample 3 : 9h zygo 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	1,878	186.8	12.8
28S	2,879	3,390	514.9	35.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : seedling4

RNA Area: 463.0 RNA Integrity Number (RIN): 5.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 1,905 pg/μl
rRNA Ratio [28s / 18s]: 1.2
Result Flagging Color:
Result Flagging Label: RIN: 5.90

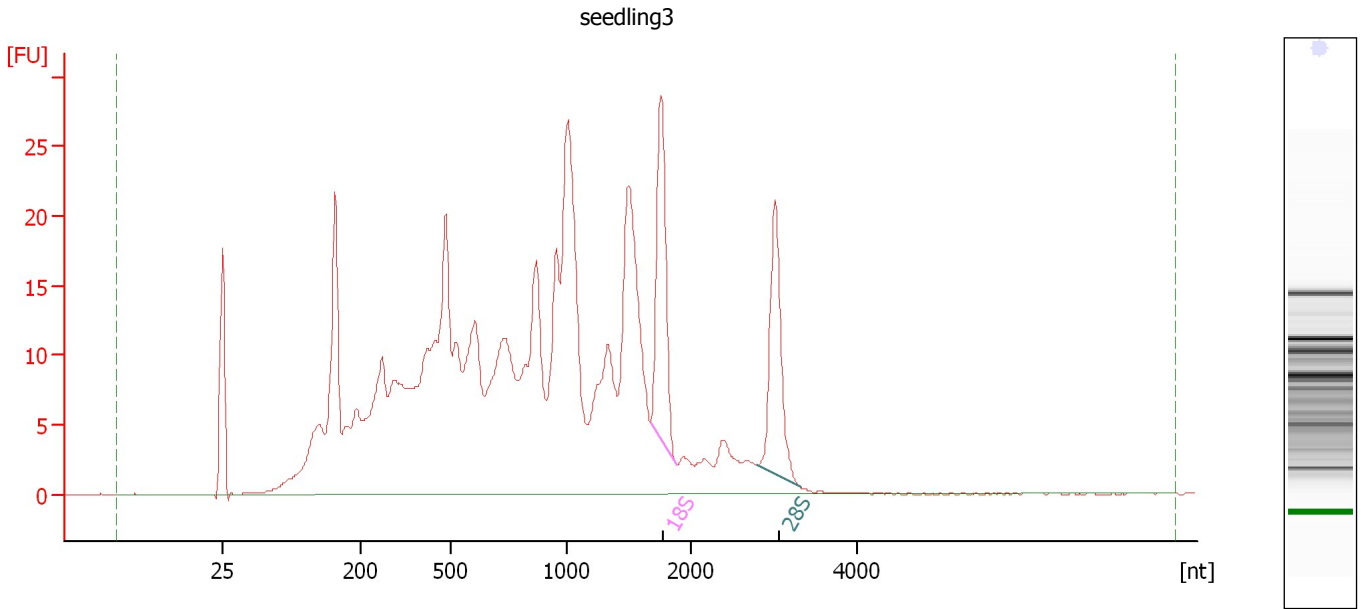
Fragment table for sample 4 : seedling4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,434	1,690	31.4	6.8
28S	2,649	3,416	38.7	8.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : seedling3

RNA Area:	529.0	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	2,177 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 5.10

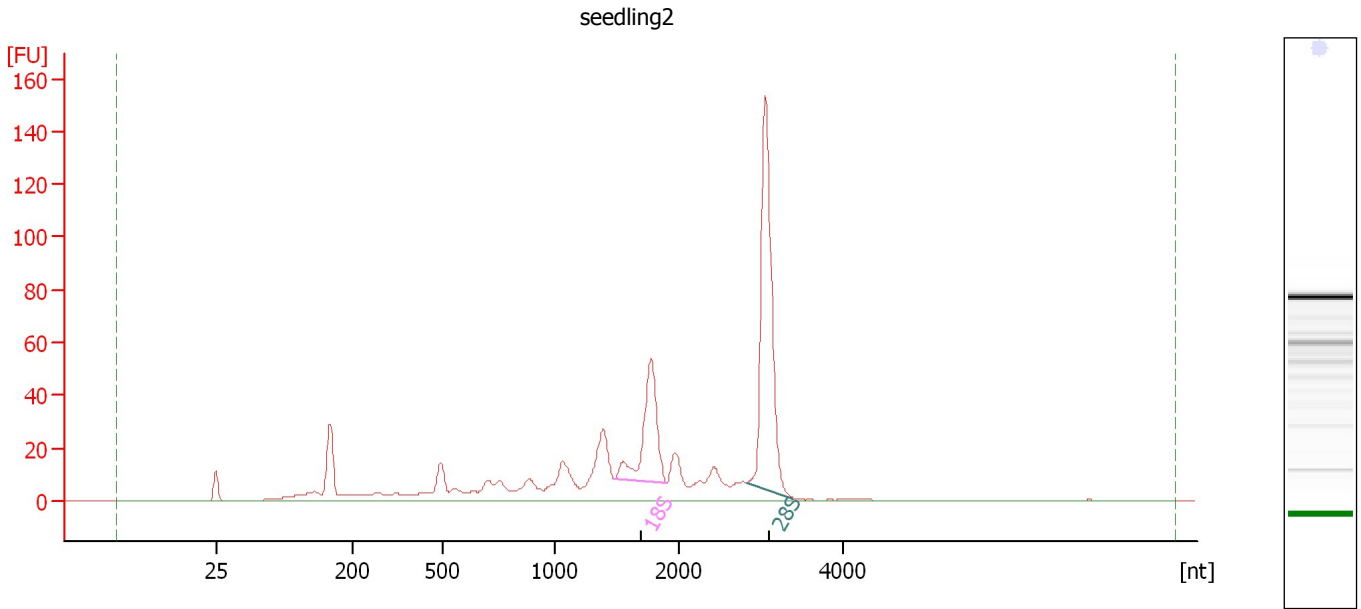
Fragment table for sample 5 : seedling3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	1,885	26.8	5.1
28S	2,789	3,315	23.2	4.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : seedling2

RNA Area: 633.0 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 2,605 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 7.90

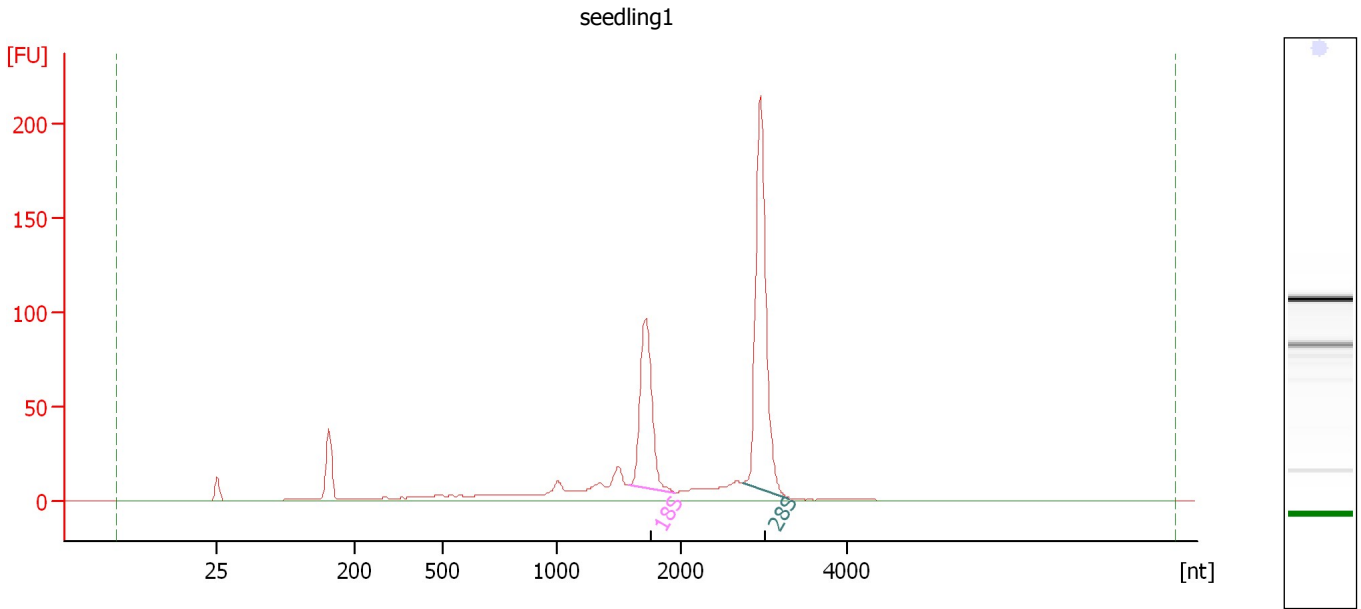
Fragment table for sample 6 : seedling2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,480	1,896	78.6	12.4
28S	2,817	3,388	171.0	27.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : seedling1

RNA Area:	630.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	2,593 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.60

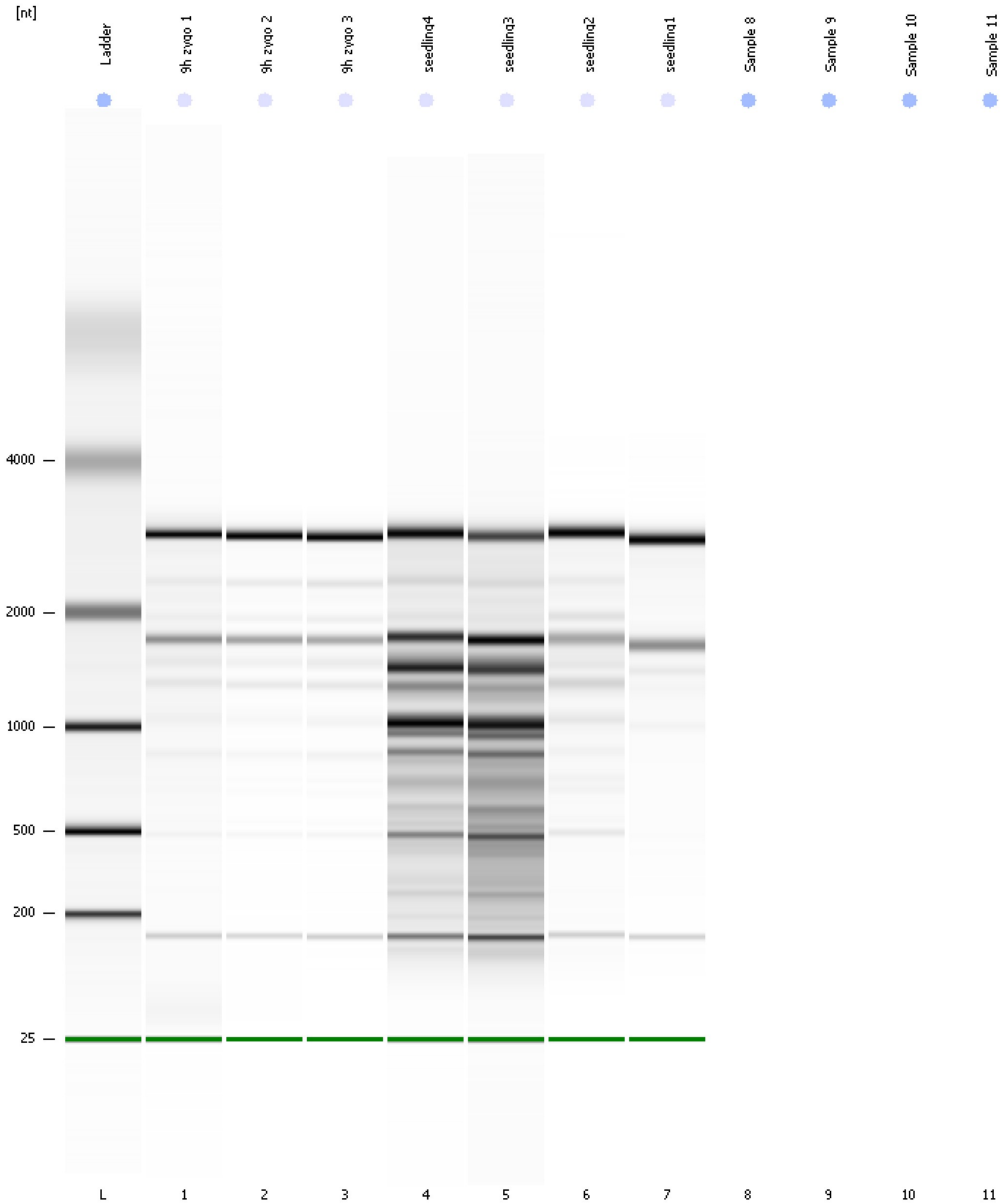
Fragment table for sample 7 : seedling1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,949	129.2	20.5
28S	2,739	3,309	234.9	37.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
Modified: 6/13/2013 1:54:22 PM

Invalid Samples

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:\...ents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad

Created: 6/13/2013 1:31:52 PM
 Modified: 6/13/2013 1:54:22 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		6/13/2013 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-13\2013-06-13_004.xad)		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/13/2013 1:31:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1