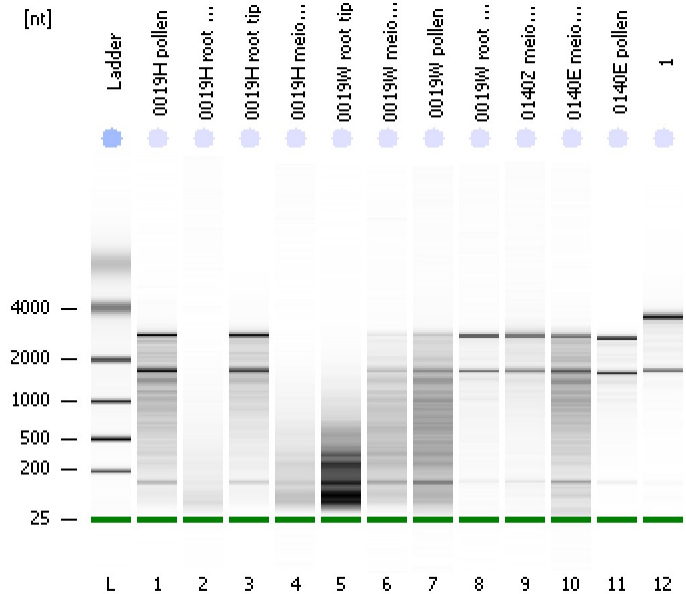


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

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\Plant RNA Nano.xsy

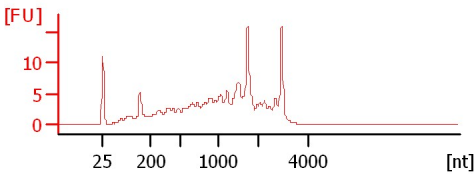
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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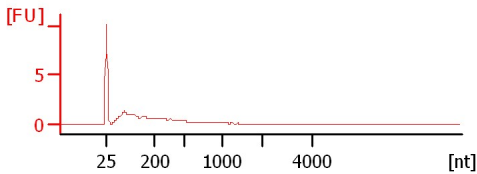
Chip Information:

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

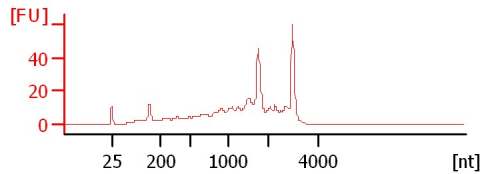
**0019H pollen**  
RIN: 5.60



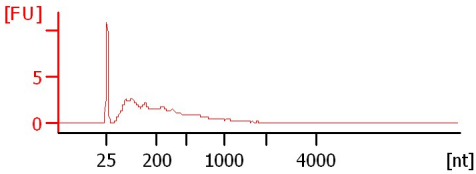
**0019H root base**  
RIN: 1.30



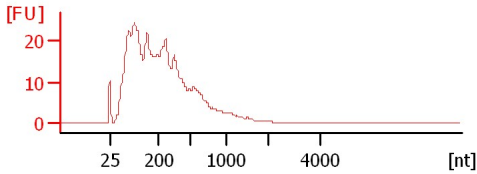
**0019H root tip**  
RIN: 6.30



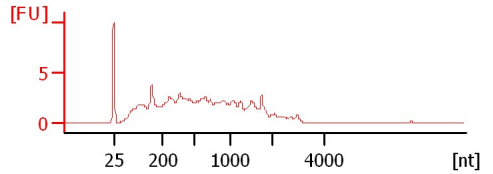
**0019H meiocyte**  
RIN: 2.10



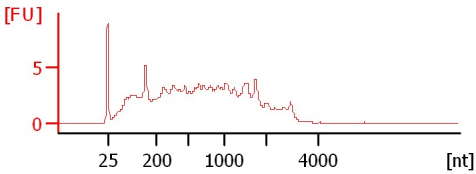
**0019W root tip**  
RIN: 2.10



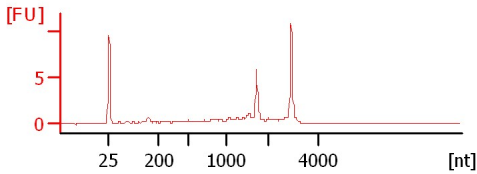
**0019W meiocyte**  
RIN: 3.40



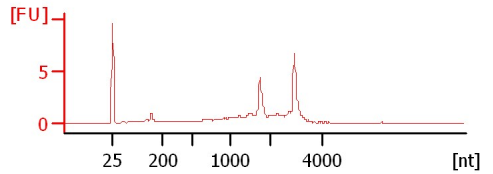
**0019W pollen**  
RIN: 3.20



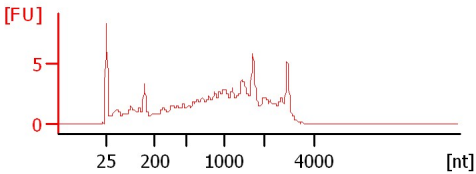
**0019W root base**  
RIN: 7.90



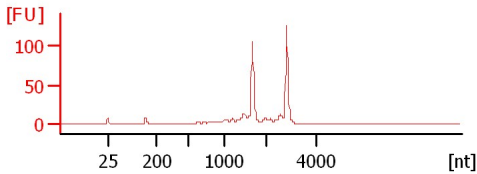
**0140Z meiocyte**  
RIN: 7.50



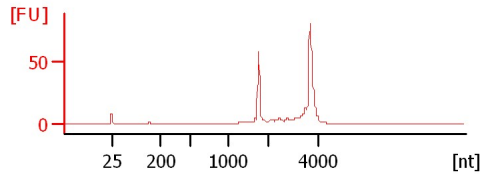
**0140E meiocyte**  
RIN: 4.70



**0140E pollen**  
RIN: 7.60



**1**  
RIN: 6.80



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
 Modified: 4/11/2014 11:14:34 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
0019H pollen		✓	RIN: 5.60	
0019H root base		✓	RIN: 1.30	
0019H root tip		✓	RIN: 6.30	
0019H meiocyte		✓	RIN: 2.10	
0019W root tip		✓	RIN: 2.10	
0019W meiocyte		✓	RIN: 3.40	
0019W pollen		✓	RIN: 3.20	
0019W root base		✓	RIN: 7.90	
0140Z meiocyte		✓	RIN: 7.50	
0140E meiocyte		✓	RIN: 4.70	
0140E pollen		✓	RIN: 7.60	
1		✓	RIN: 6.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

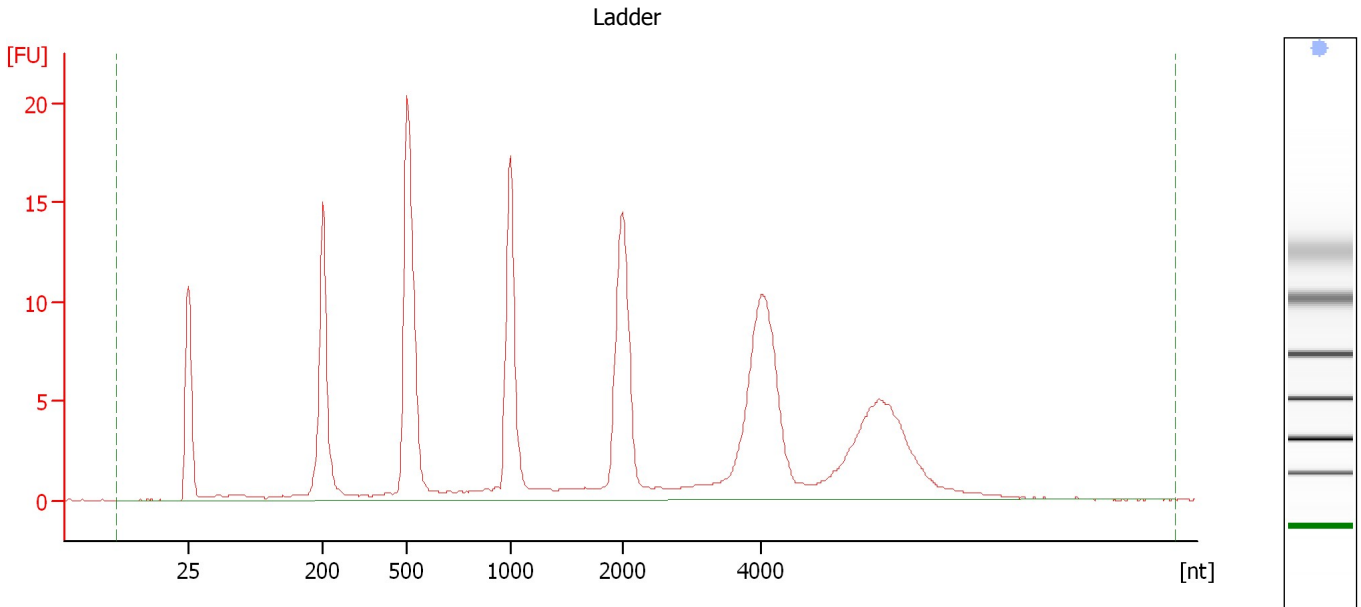
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary**



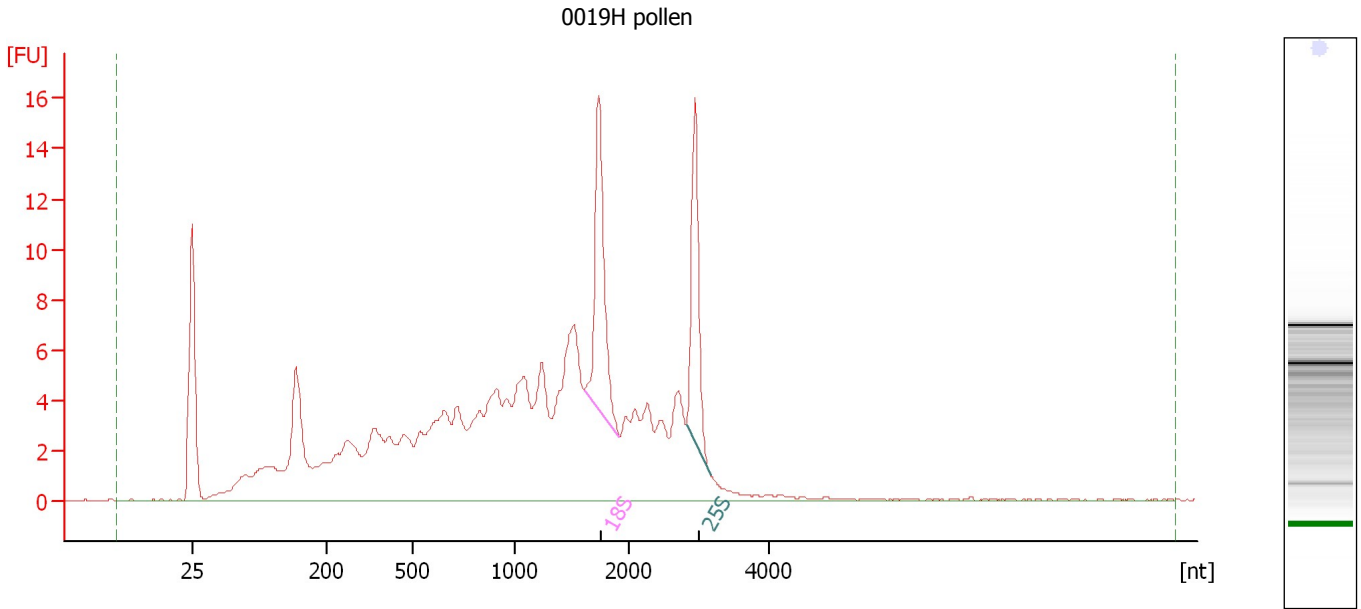
**Overall Results for Ladder**

RNA Area:	187.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 0019H pollen**

RNA Area: 208.5                      RNA Integrity Number (RIN): 5.6 (B.02.08)  
RNA Concentration: 167 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8                      Result Flagging Label: RIN: 5.60

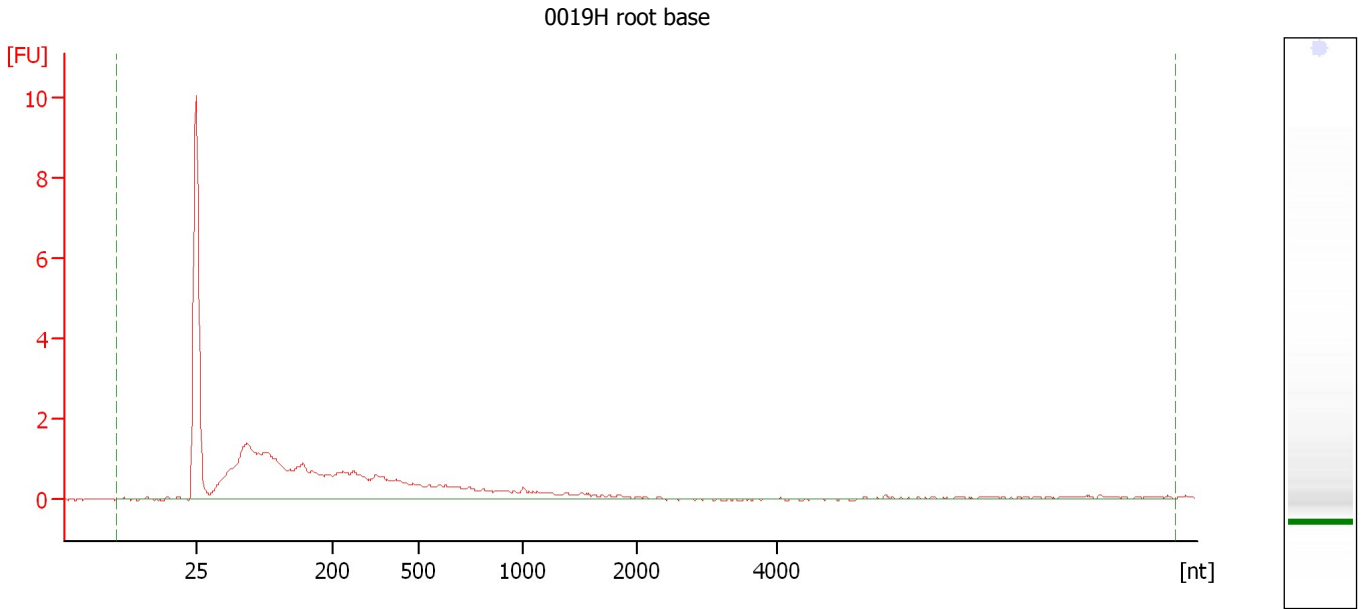
**Fragment table for sample 1 : 0019H pollen**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,918	14.1	6.8
25S	2,830	3,166	10.9	5.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



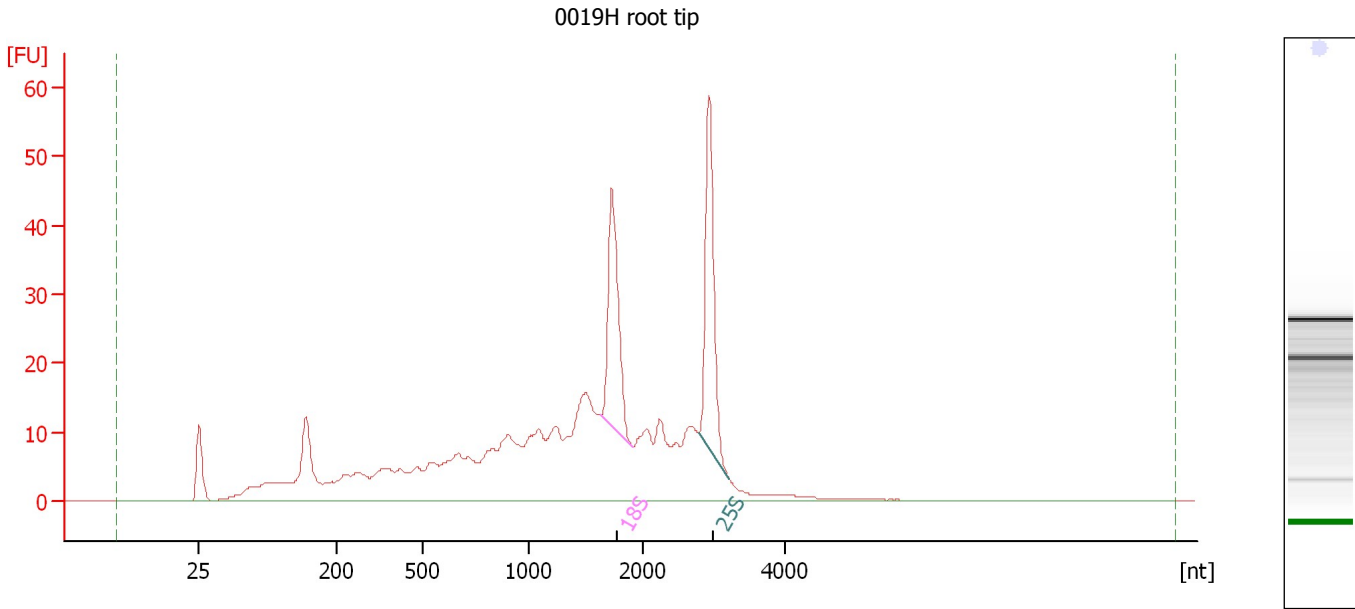
**Overall Results for sample 2 : 0019H root base**

RNA Area:	31.4	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	25 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 0019H root tip**

RNA Area: 517.6                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 415 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 6.30

**Fragment table for sample 3 : 0019H root tip**

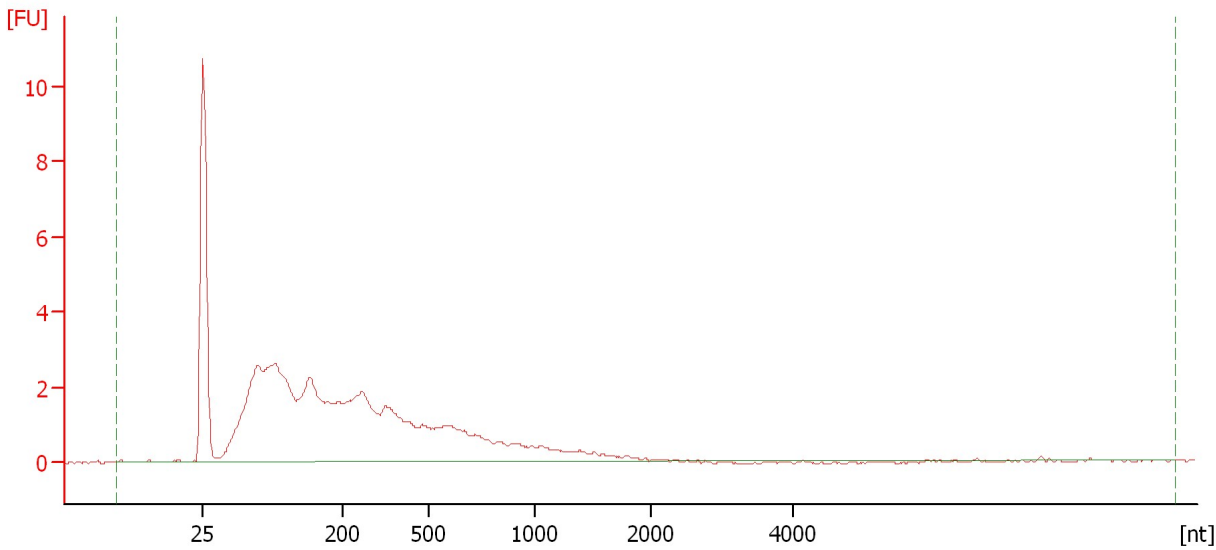
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,907	43.8	8.5
25S	2,784	3,221	47.5	9.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**

0019H meiocyte



**Overall Results for sample 4 : 0019H meiocyte**

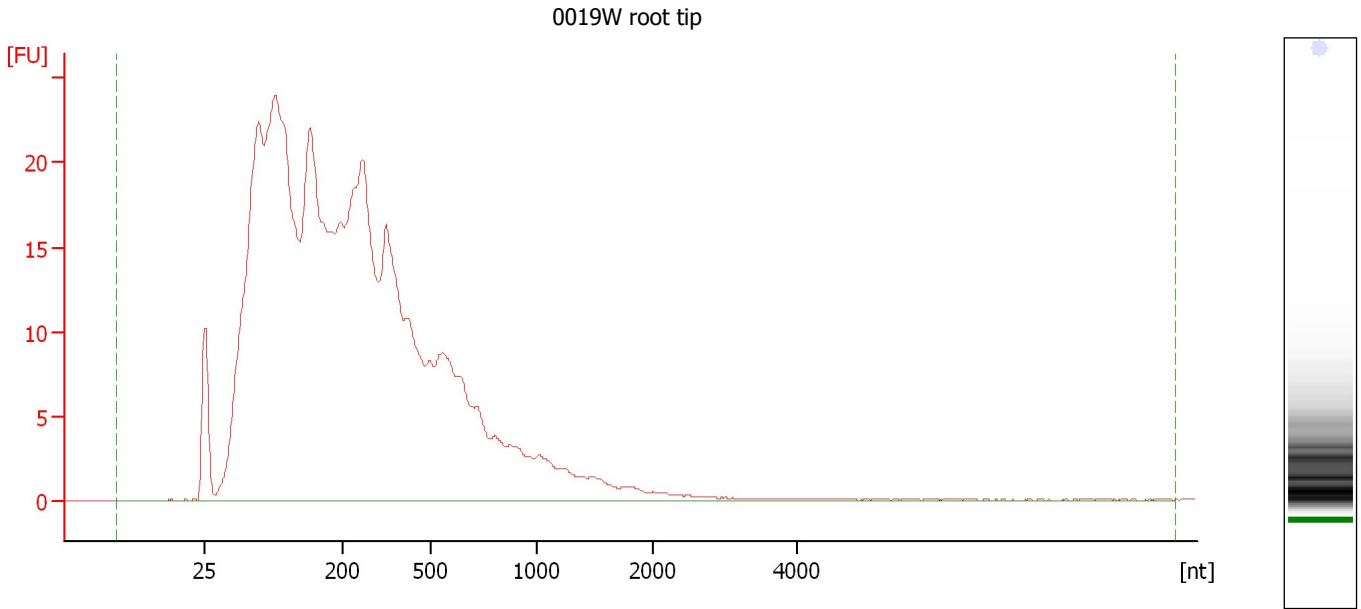
RNA Area:	64.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



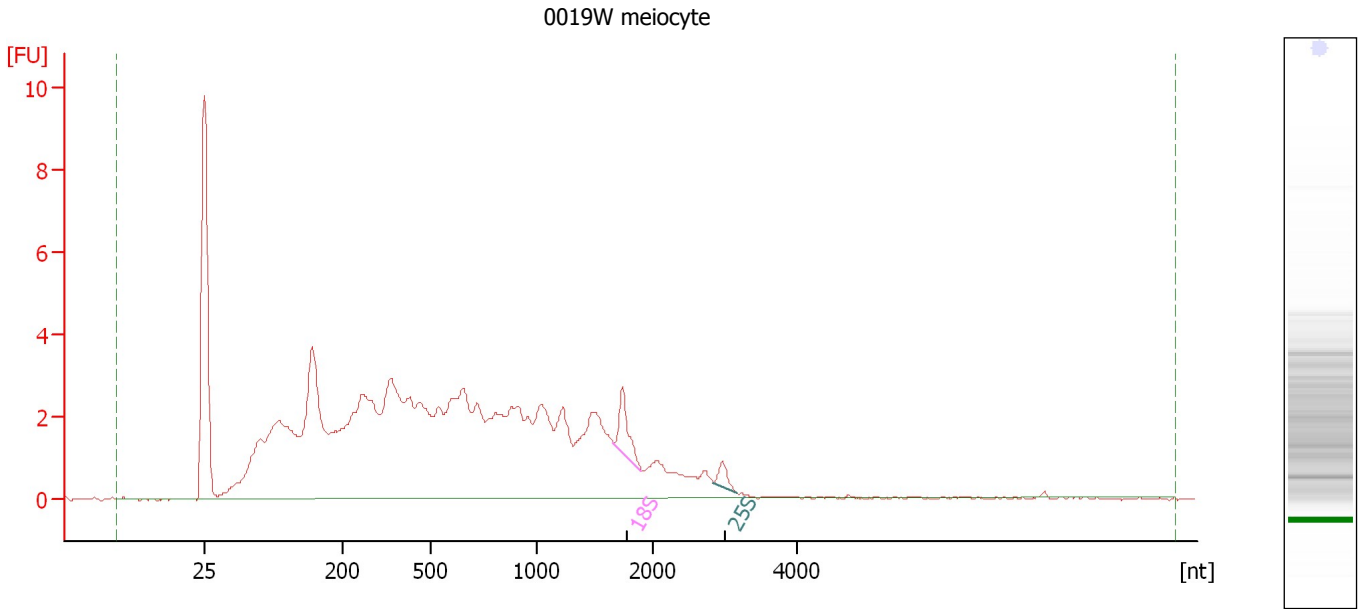
**Overall Results for sample 5 : 0019W root tip**

RNA Area:	612.3	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	491 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
 Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 0019W meiocyte**

RNA Area:	115.0	RNA Integrity Number (RIN):	3.4 (B.02.08)
RNA Concentration:	92 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 3.40

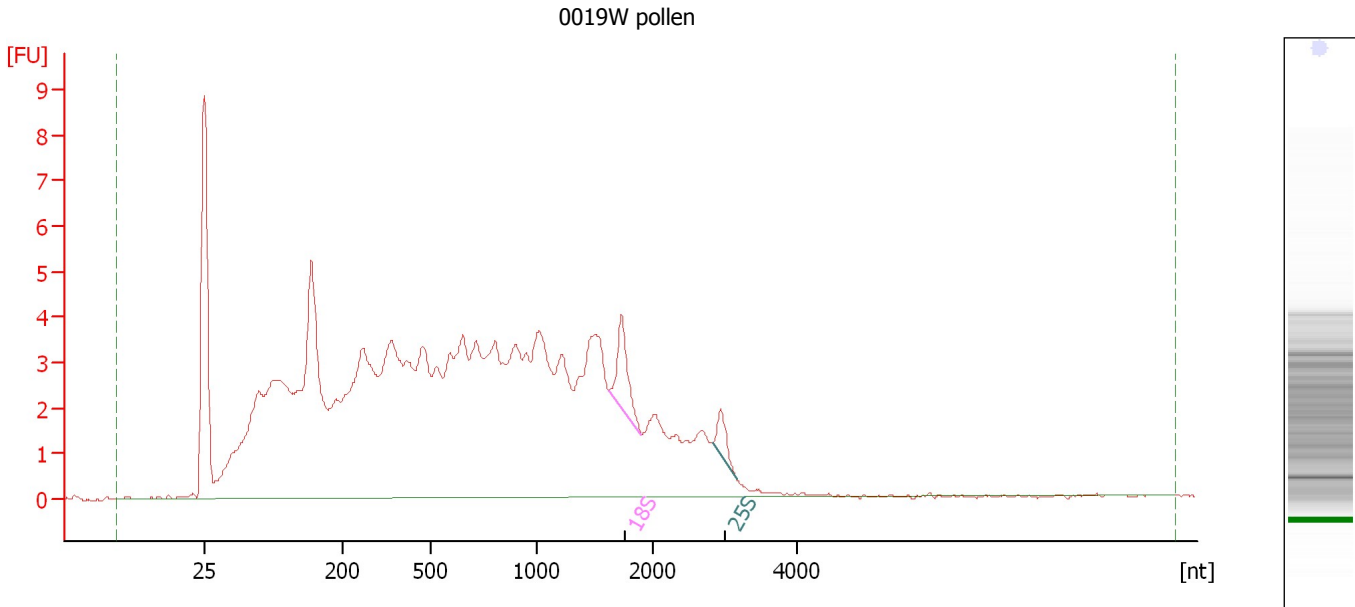
**Fragment table for sample 6 : 0019W meiocyte**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,904	1.7	1.5
25S	2,844	3,171	0.6	0.5

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
 Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 0019W pollen**

RNA Area:	172.9	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	139 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.4	Result Flagging Label:	RIN: 3.20

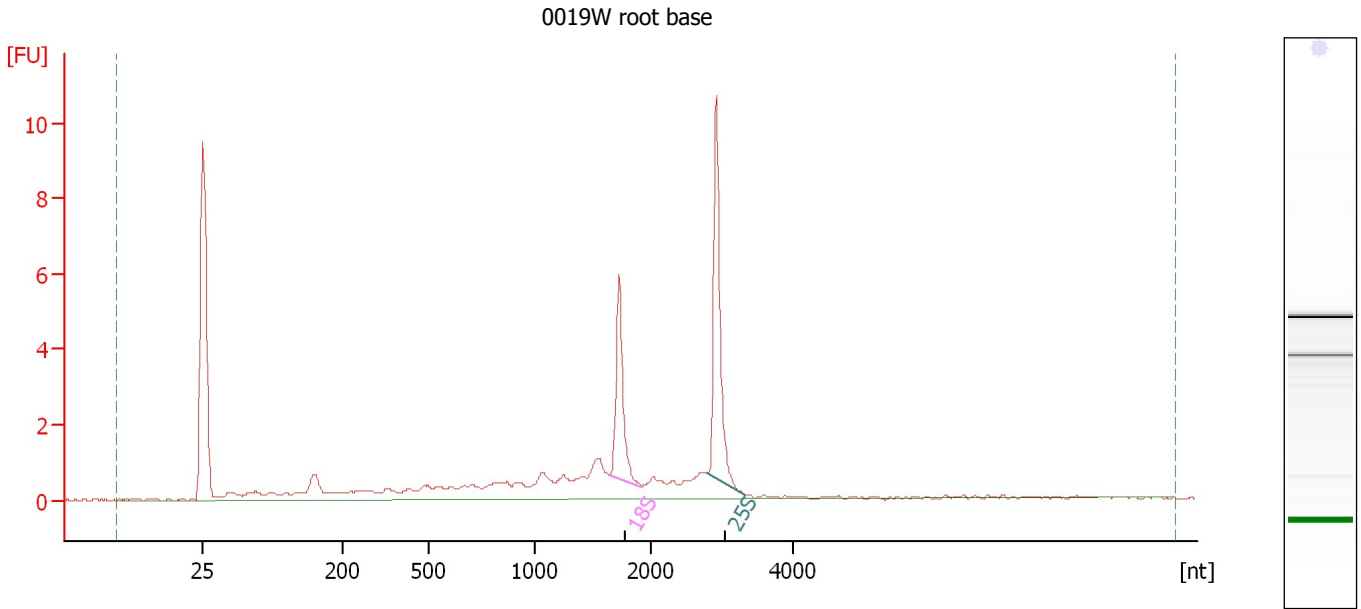
**Fragment table for sample 7 : 0019W pollen**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,904	2.6	1.5
25S	2,844	3,171	1.0	0.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 0019W root base**

RNA Area: 37.5                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 30 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.7              Result Flagging Label: RIN: 7.90

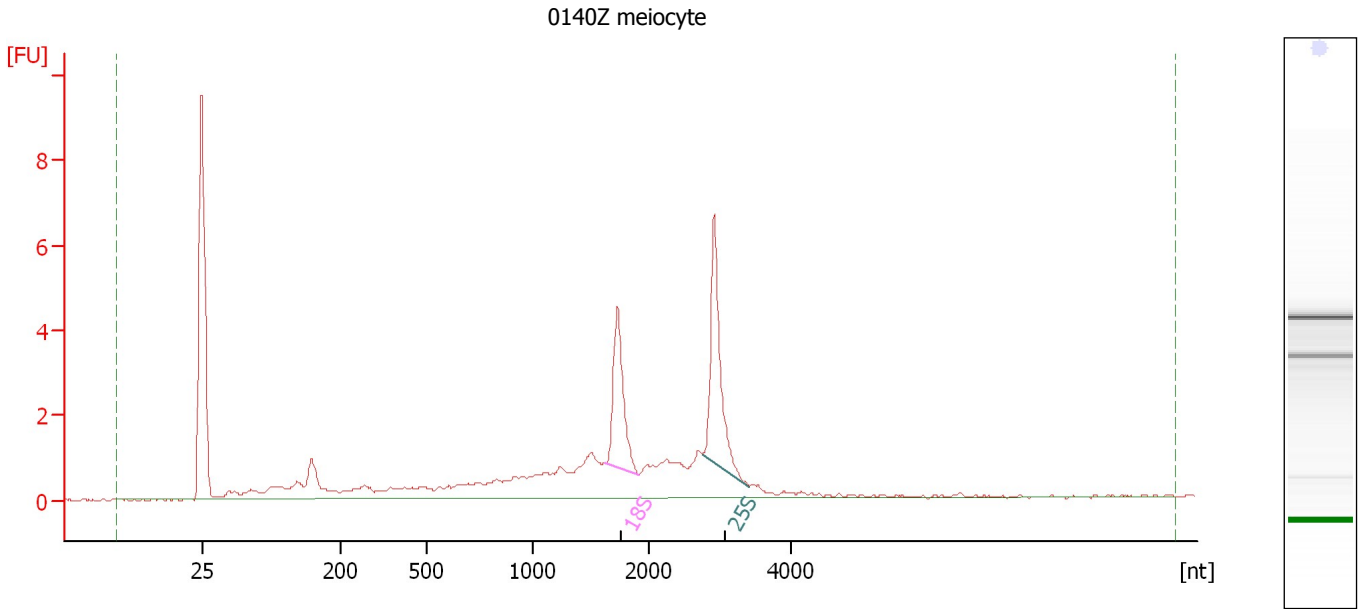
**Fragment table for sample 8 : 0019W root base**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,922	4.5	12.1
25S	2,799	3,307	7.6	20.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 0140Z meiocyte**

RNA Area: 41.4 RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 33 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.50

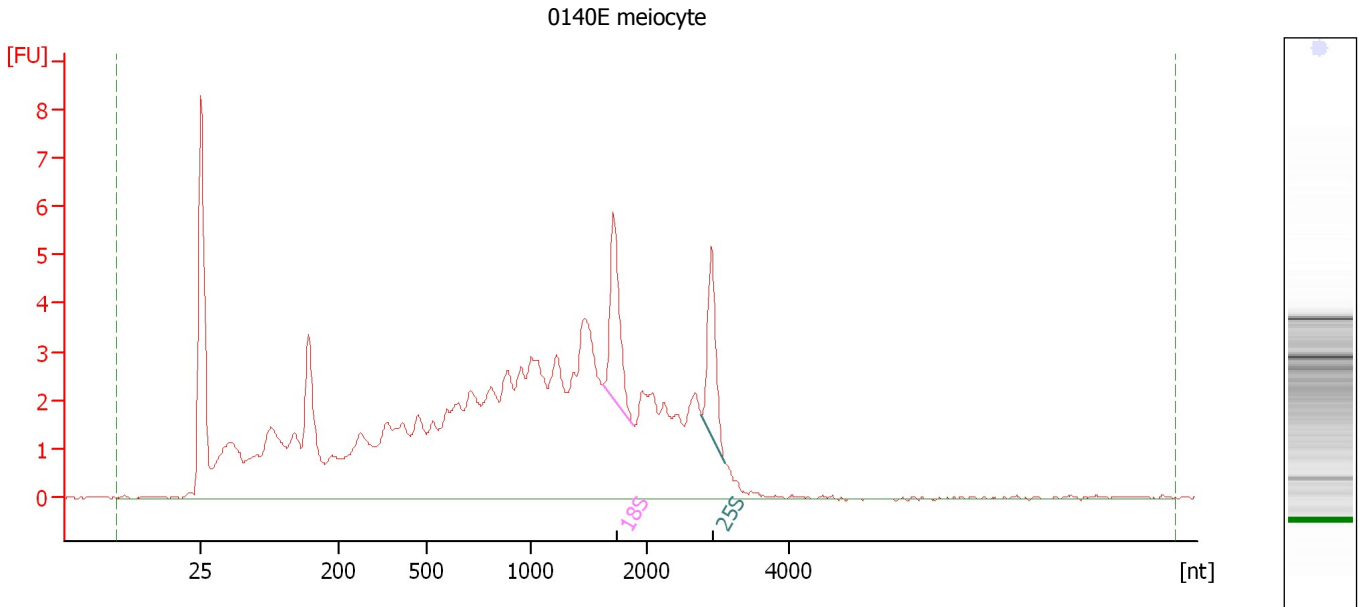
**Fragment table for sample 9 : 0140Z meiocyte**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,911	4.6	11.1
25S	2,754	3,412	6.3	15.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 0140E meiocyte**

RNA Area: 123.2 RNA Integrity Number (RIN): 4.7 (B.02.08)  
RNA Concentration: 99 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 4.70

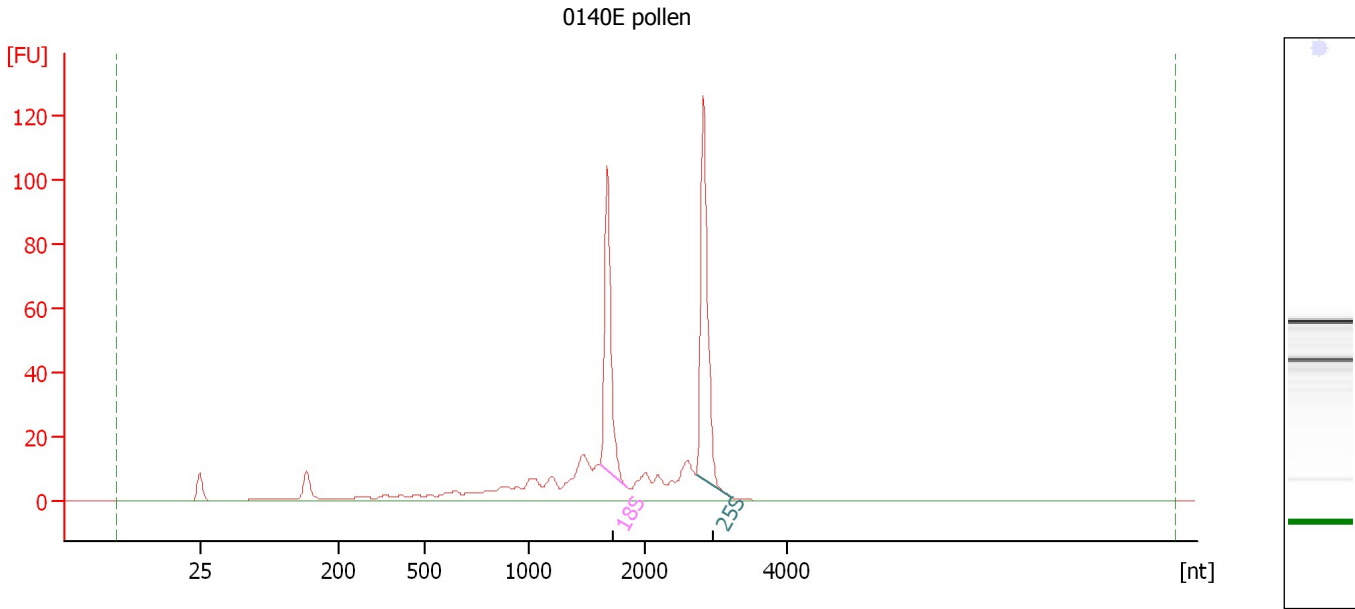
**Fragment table for sample 10 : 0140E meiocyte**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,873	4.4	3.6
25S	2,769	3,099	3.5	2.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 0140E pollen**

RNA Area: 417.1 RNA Integrity Number (RIN): 7.6 (B.02.08)  
RNA Concentration: 334 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.60

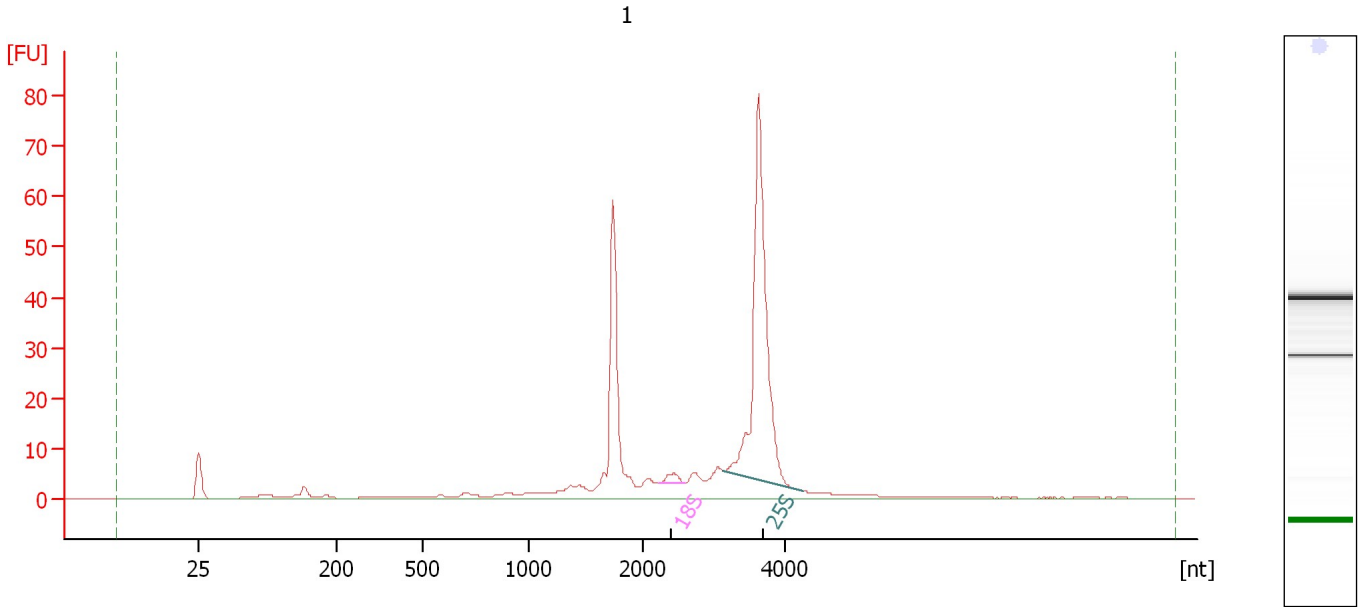
**Fragment table for sample 11 : 0140E pollen**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,853	79.6	19.1
25S	2,724	3,205	95.7	22.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 1**

RNA Area:	269.6	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	216 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	36.1	Result Flagging Label:	RIN: 6.80

**Fragment table for sample 12 : 1**

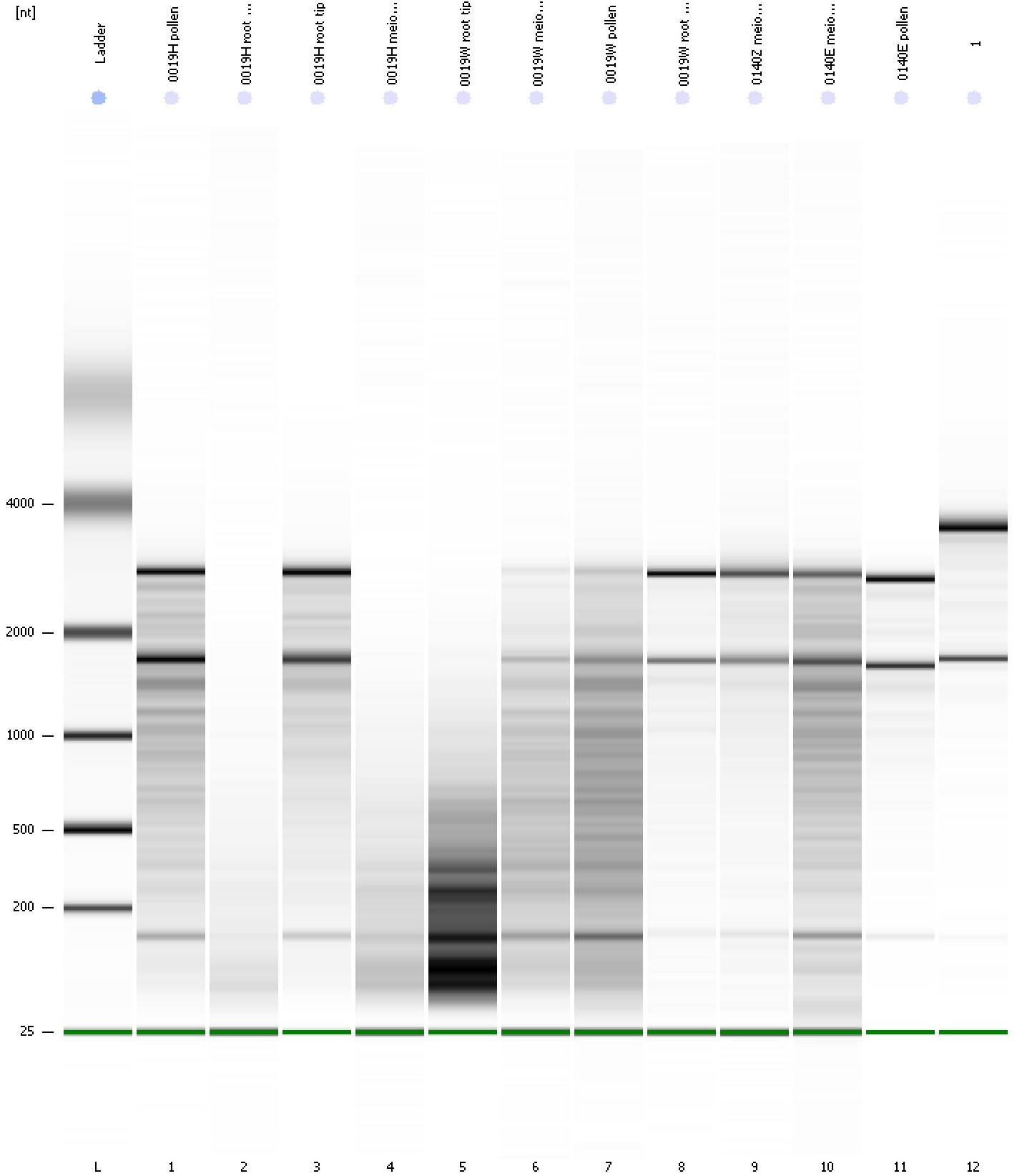
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,227	2,603	2.8	1.1
25S	3,145	4,260	102.8	38.1



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
Modified: 4/11/2014 11:14:34 AM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-11\2014-04-11\_001.xad

Created: 4/11/2014 10:46:32 AM  
 Modified: 4/11/2014 11:14:34 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/11/2014 11:10:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-11\2014-04-11_001.xad)		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2014 10:46:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1