

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

Created: 7/24/2014 1:48:39 PM  
Modified: 7/24/2014 2:11:47 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

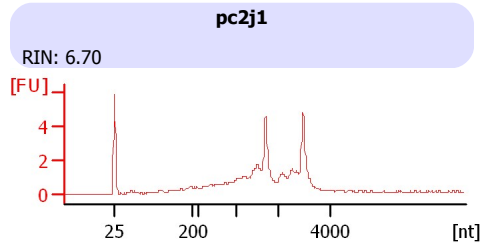
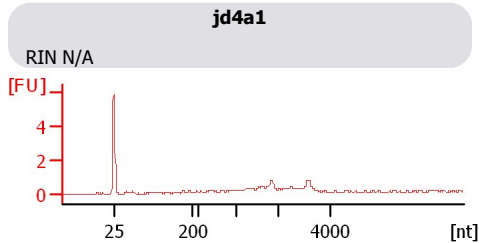
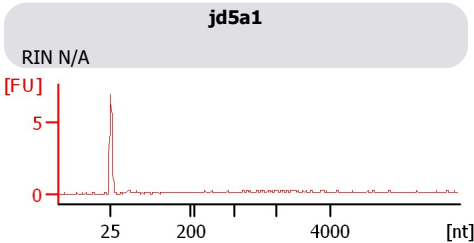
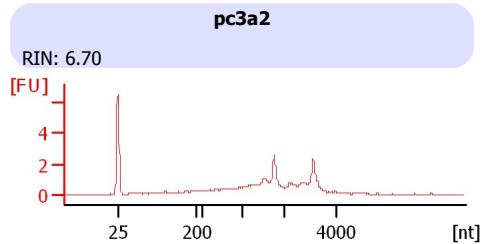
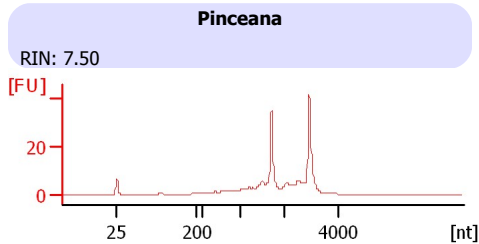
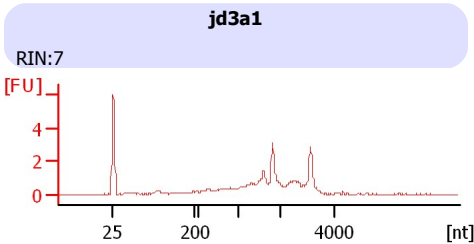
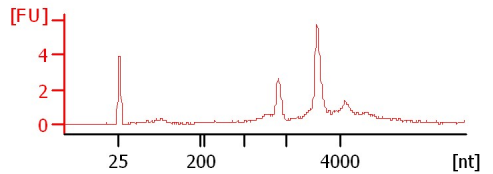
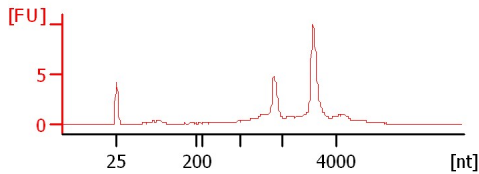
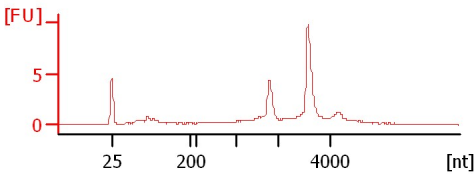
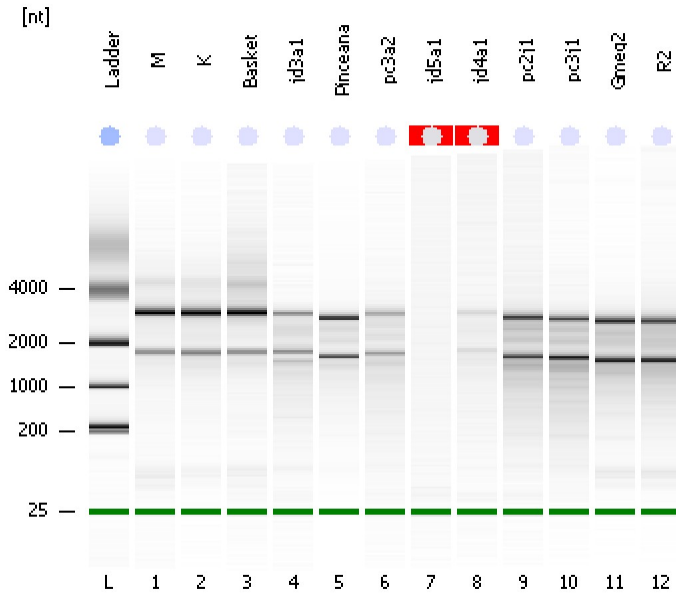
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



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

Sample Name	Sample Comment	Status	Result Label	Result Color
M		✓	RIN: 8.60	
K		✓	RIN: 8.50	
Basket		✓	RIN: 8.70	
jd3a1		✓	RIN:7	
Pinceana		✓	RIN: 7.50	
pc3a2		✓	RIN: 6.70	
jd5a1		✓	RIN N/A	
jd4a1		✓	RIN N/A	
pc2j1		✓	RIN: 6.70	
pc3j1		✓	RIN: 6.30	
Gmeg2		✓	RIN: 7.80	
R2		✓	RIN: 6.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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## 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

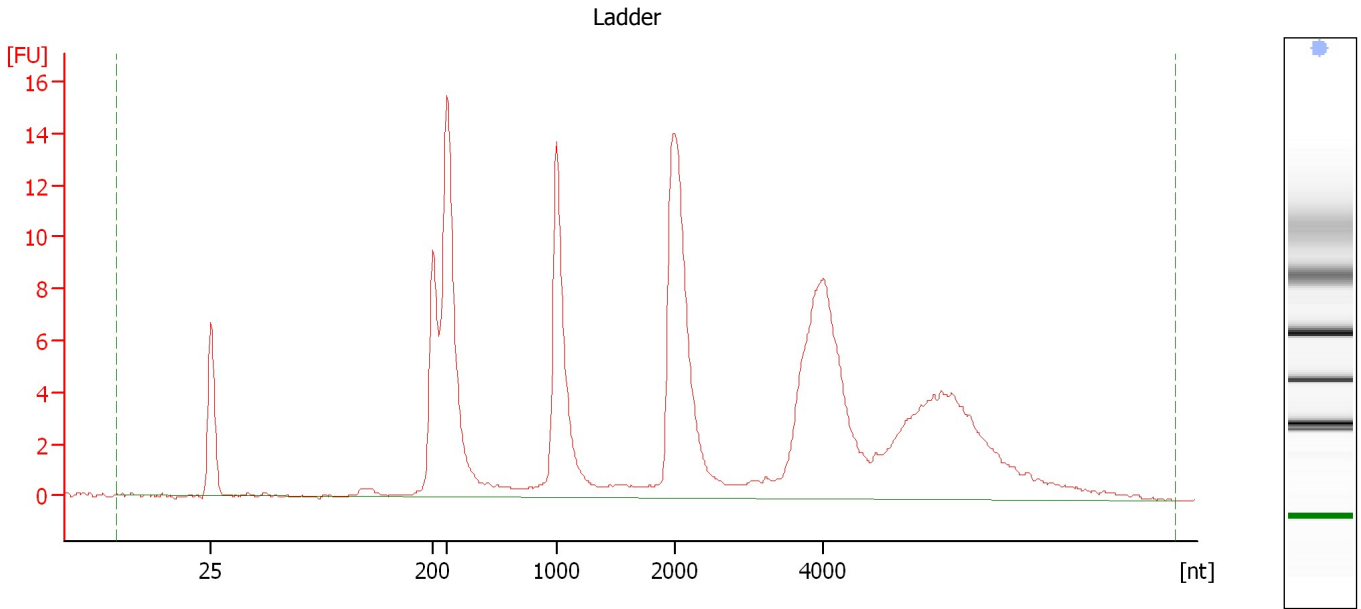
### Ladder

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

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**Electropherogram Summary**



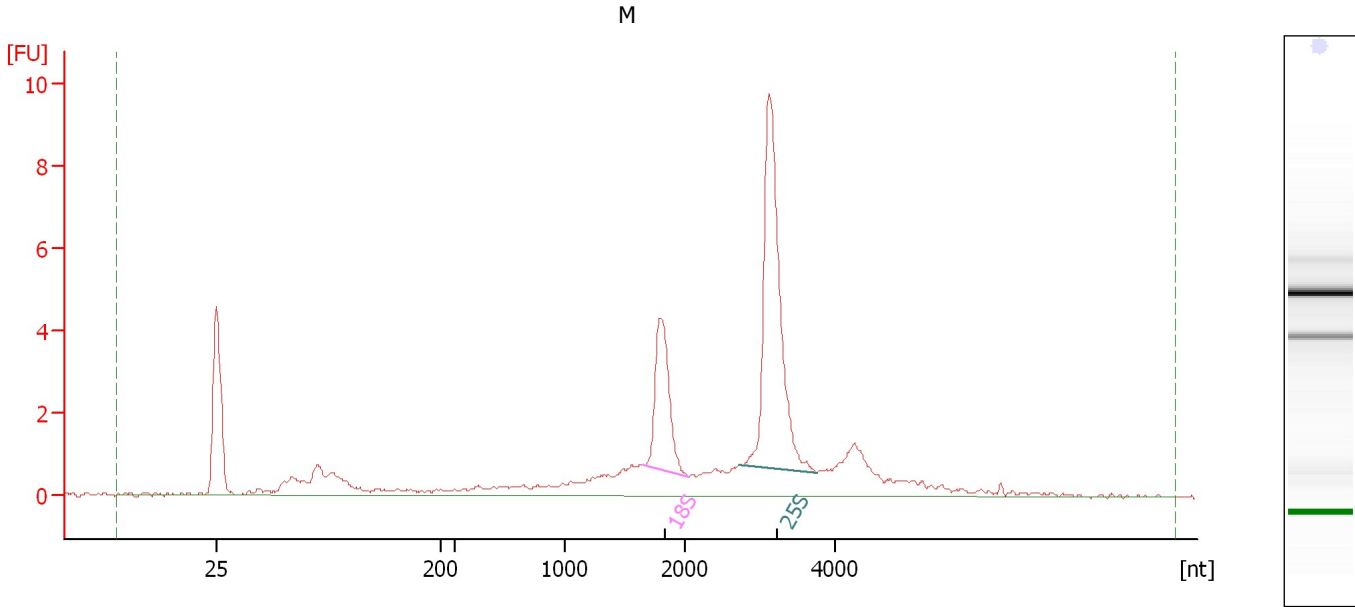
**Overall Results for Ladder**

RNA Area:	180.3	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : M**

RNA Area: 55.1                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 46 ng/μl            Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.5            Result Flagging Label: RIN: 8.60

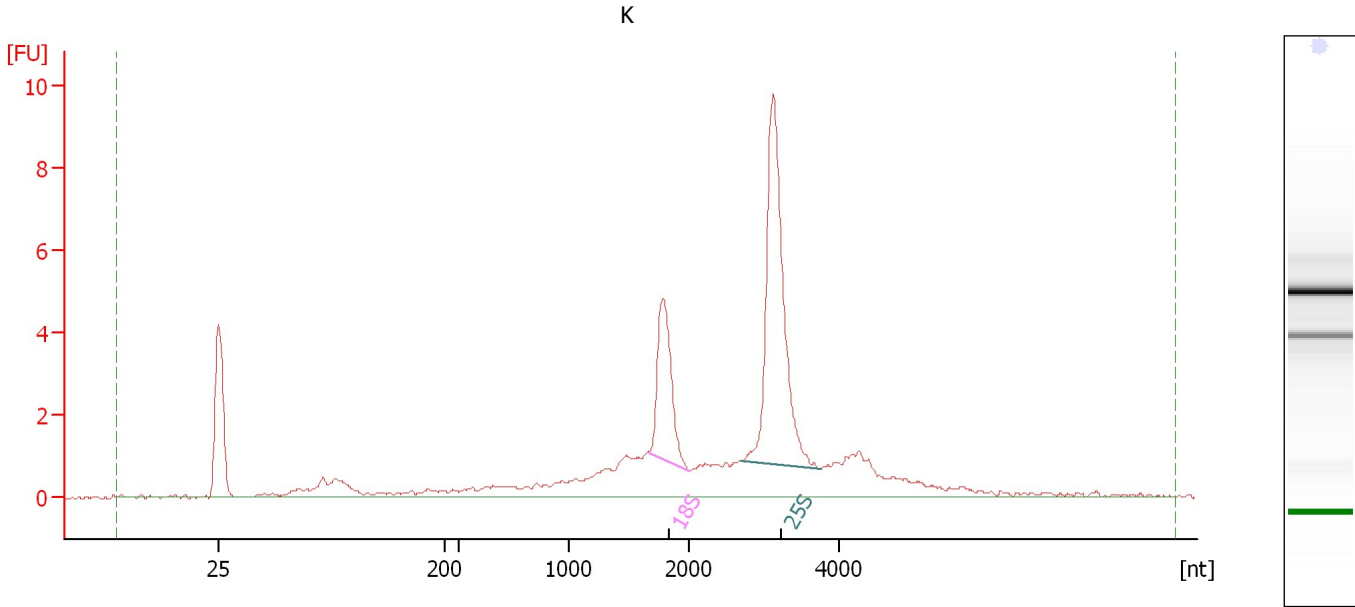
**Fragment table for sample 1 : M**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,049	6.2	11.2
25S	2,732	3,758	15.4	28.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : K**

RNA Area: 56.2                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 47 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.5              Result Flagging Label: RIN: 8.50

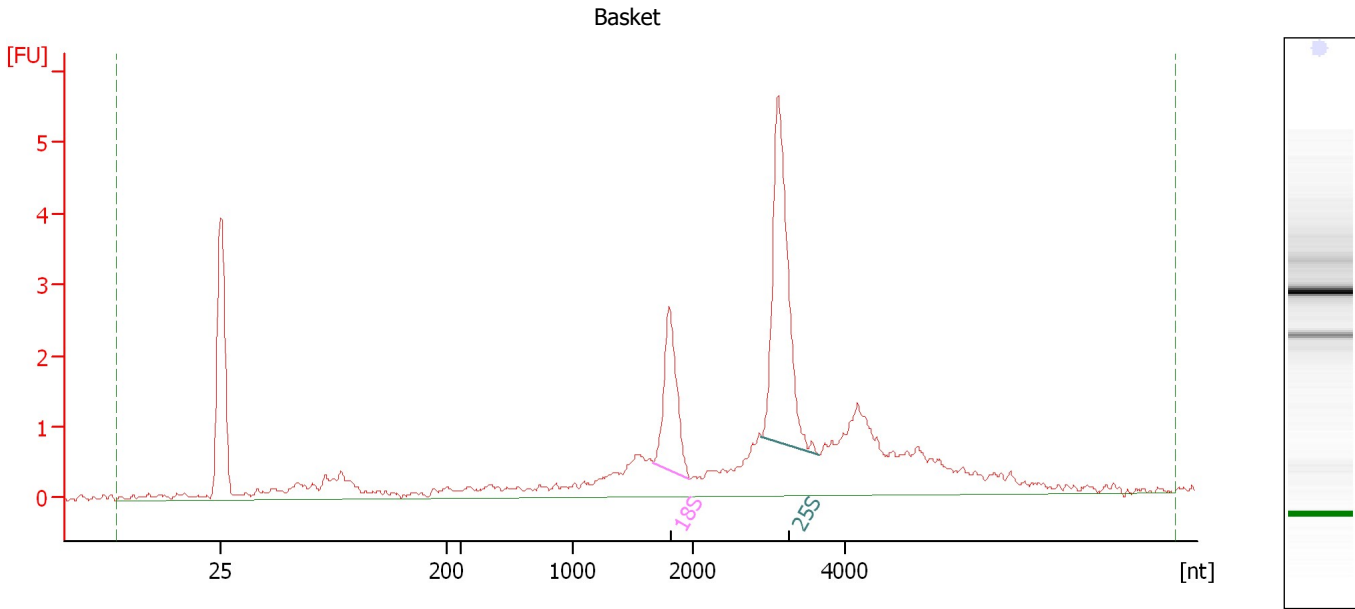
**Fragment table for sample 2 : K**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,996	6.4	11.3
25S	2,689	3,739	16.1	28.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Basket**

RNA Area: 39.9                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 33 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.3              Result Flagging Label: RIN: 8.70

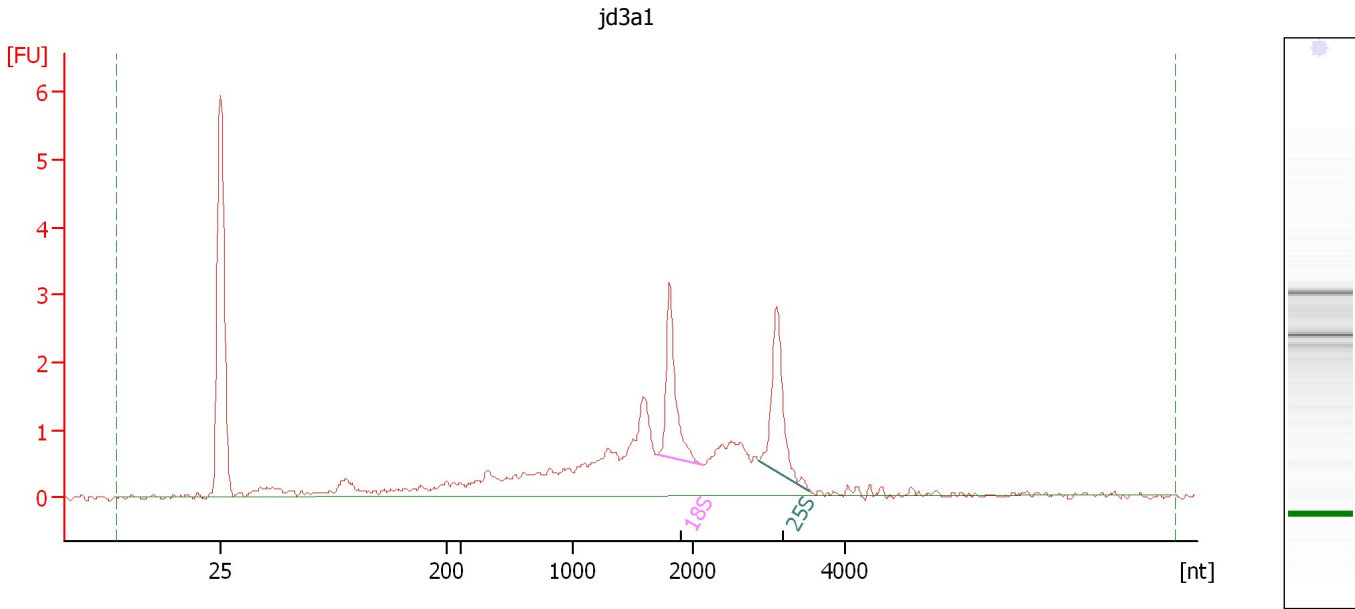
**Fragment table for sample 3 : Basket**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	1,971	3.5	8.7
25S	2,901	3,664	7.9	19.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : jd3a1**

RNA Area:	28.4	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	24 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]:	1.1	Result Flagging Label:	RIN:7

**Fragment table for sample 4 : jd3a1**

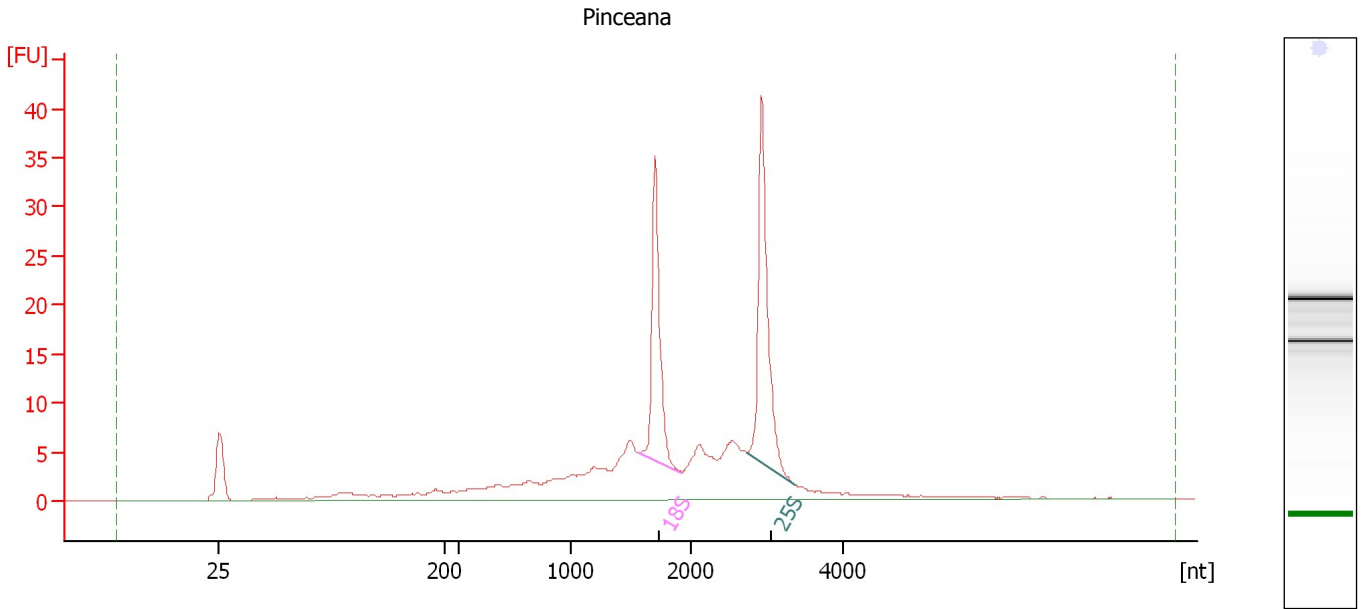
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	2,124	2.9	10.0
25S	2,859	3,522	3.0	10.6



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Pinceana**

RNA Area:	200.5	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	167 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]:	1.3	Result Flagging Label:	RIN: 7.50

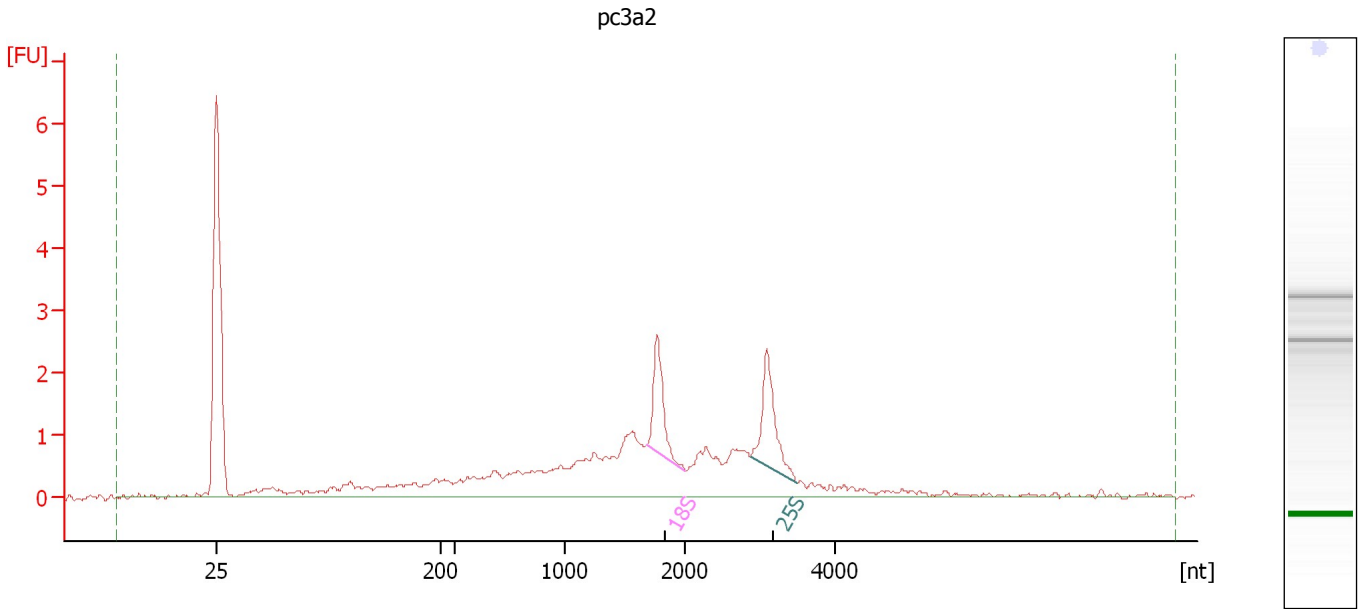
**Fragment table for sample 5 : Pinceana**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,917	29.0	14.5
25S	2,746	3,368	37.9	18.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : pc3a2**

RNA Area: 32.4                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 27 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2              Result Flagging Label: RIN: 6.70

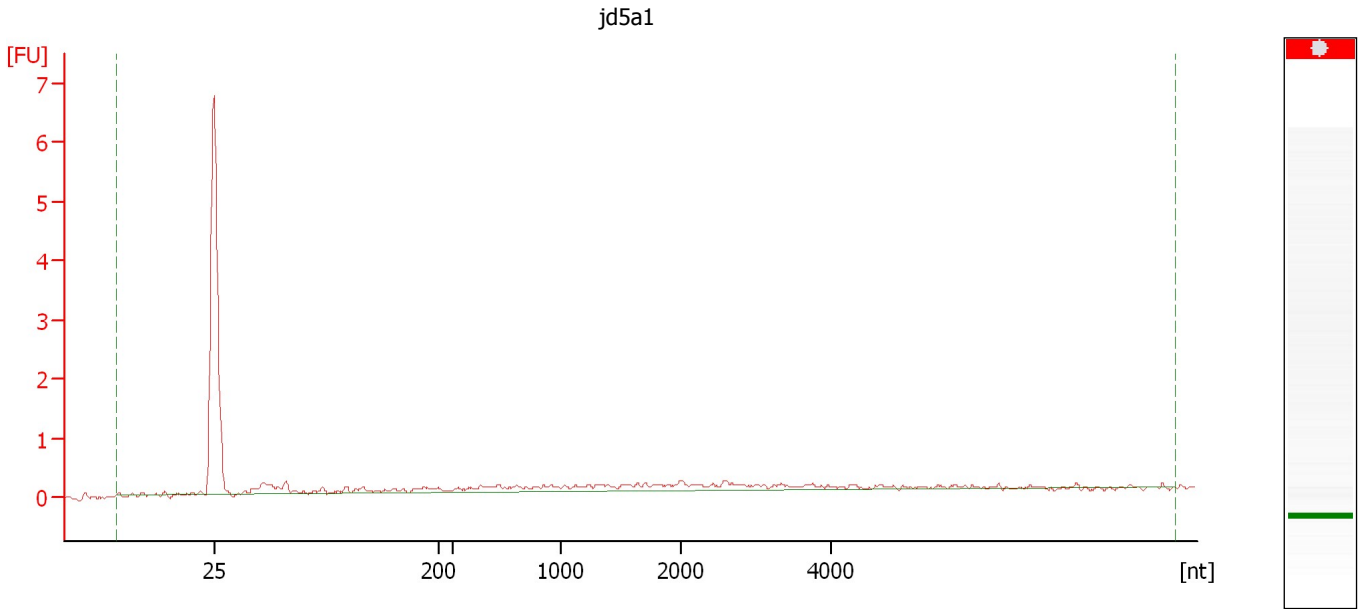
**Fragment table for sample 6 : pc3a2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,006	2.2	6.7
25S	2,875	3,487	2.6	7.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Electropherogram Summary Continued ...**



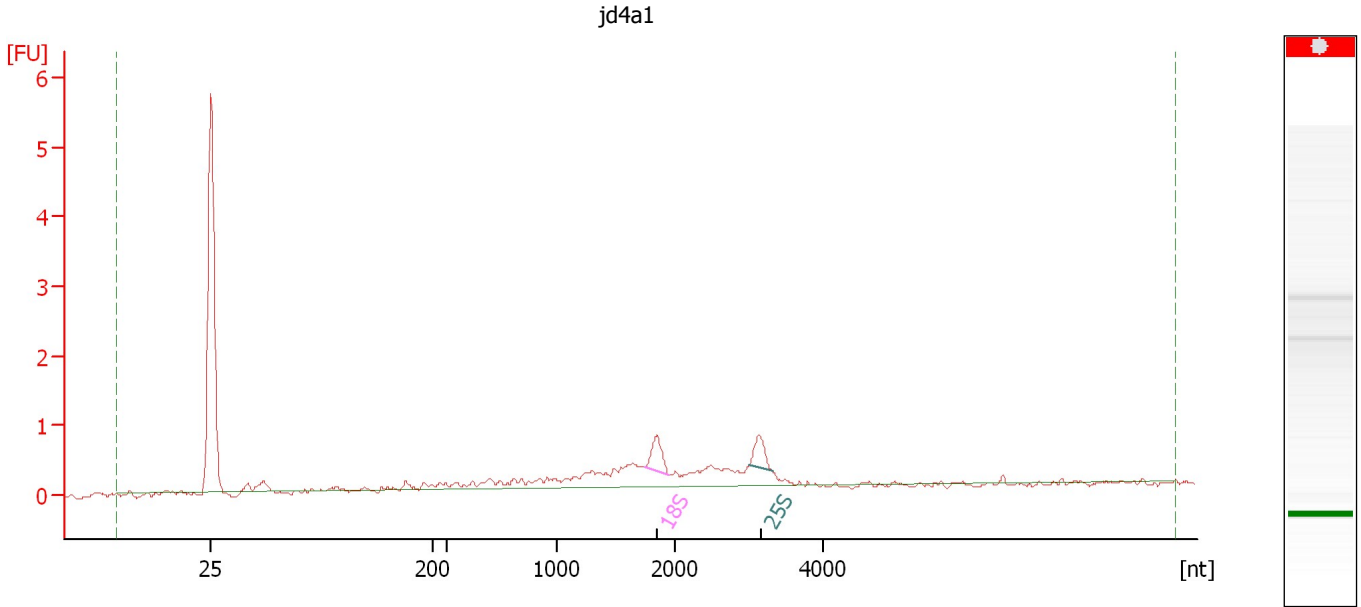
**Overall Results for sample 7 : jd5a1**

RNA Area:	7.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

Created: 7/24/2014 1:48:39 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : jd4a1**

RNA Area:	9.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.8	Result Flagging Label:	RIN N/A

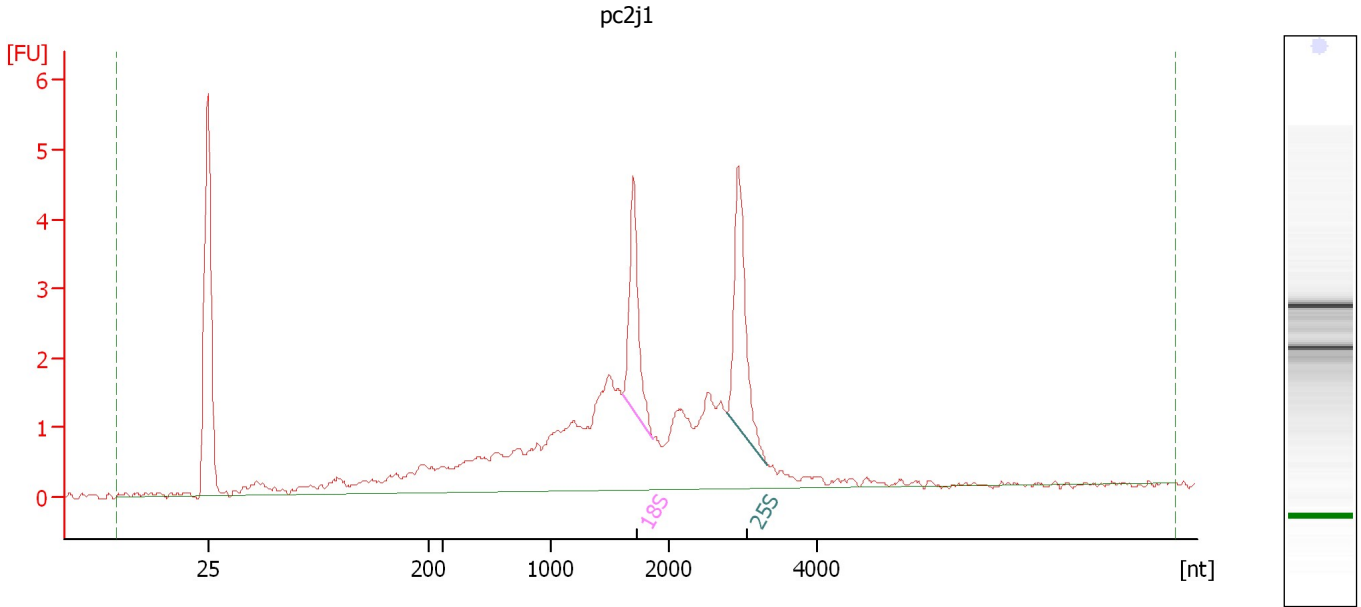
**Fragment table for sample 8 : jd4a1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,747	1,954	0.6	6.5
25S	3,007	3,309	0.5	5.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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Modified: 7/24/2014 2:11:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : pc2j1**

RNA Area: 45.5                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 38 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3              Result Flagging Label: RIN: 6.70

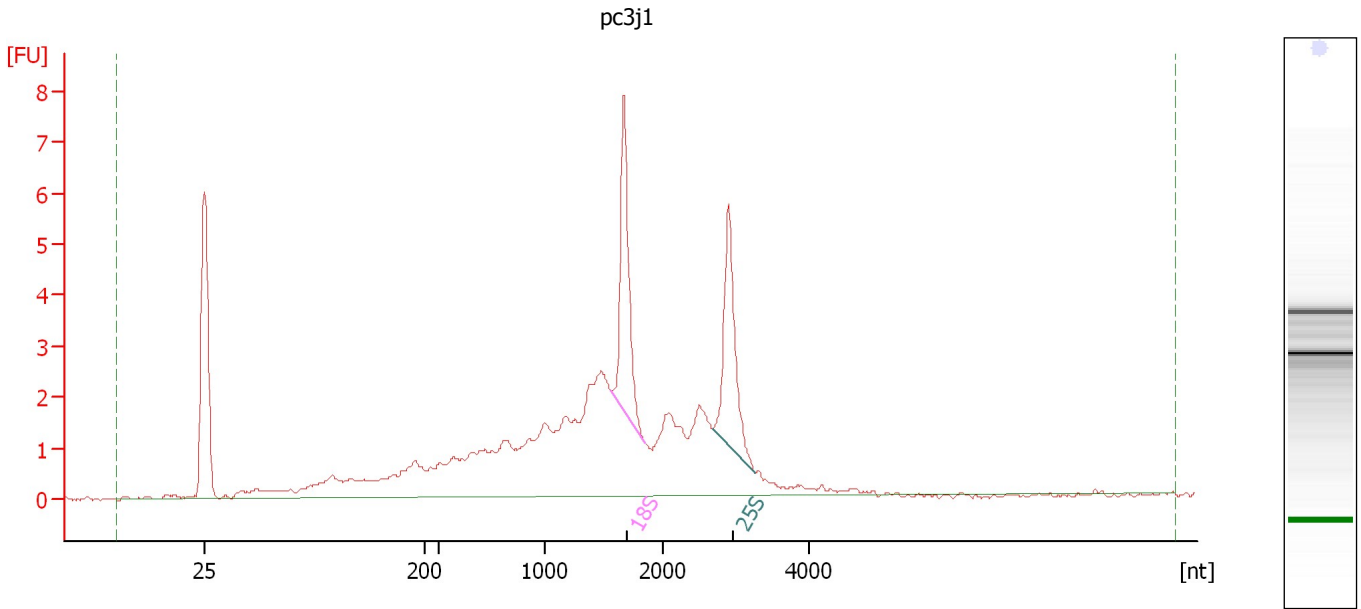
**Fragment table for sample 9 : pc2j1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,861	3.7	8.0
25S	2,777	3,342	4.6	10.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

Created: 7/24/2014 1:48:39 PM  
Modified: 7/24/2014 2:11:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : pc3j1**

RNA Area: 66.6                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 55 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.9                      Result Flagging Label: RIN: 6.30

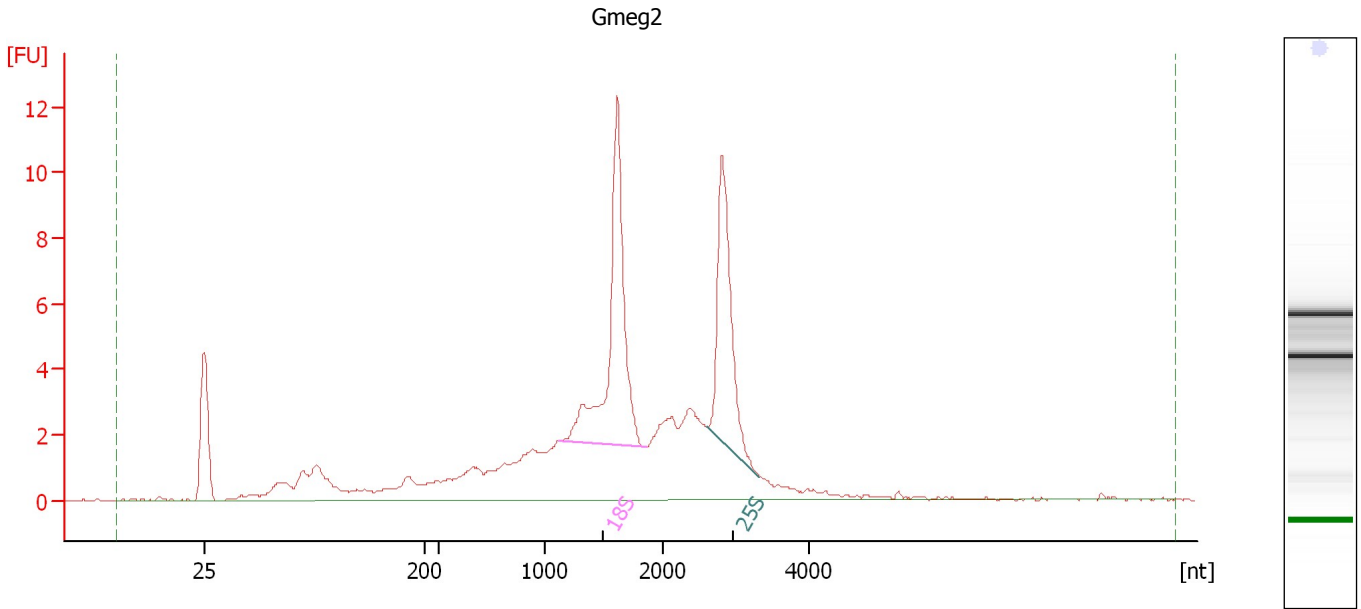
**Fragment table for sample 10 : pc3j1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,848	6.3	9.5
25S	2,676	3,259	5.8	8.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

Created: 7/24/2014 1:48:39 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Gmeg2**

RNA Area:	104.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	87 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]:	0.7	Result Flagging Label:	RIN: 7.80

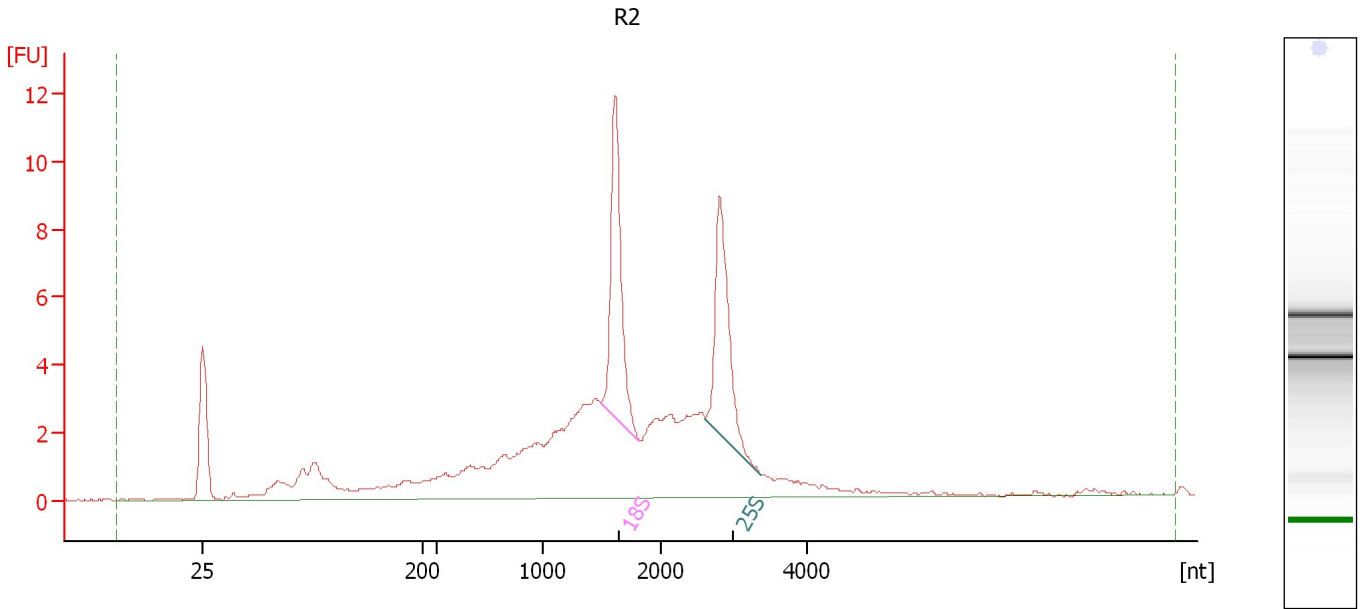
**Fragment table for sample 11 : Gmeg2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,119	1,858	18.8	18.0
25S	2,618	3,317	13.1	12.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

Created: 7/24/2014 1:48:39 PM  
Modified: 7/24/2014 2:11:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : R2**

RNA Area: 104.5                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 87 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.9              Result Flagging Label: RIN: 6.70

**Fragment table for sample 12 : R2**

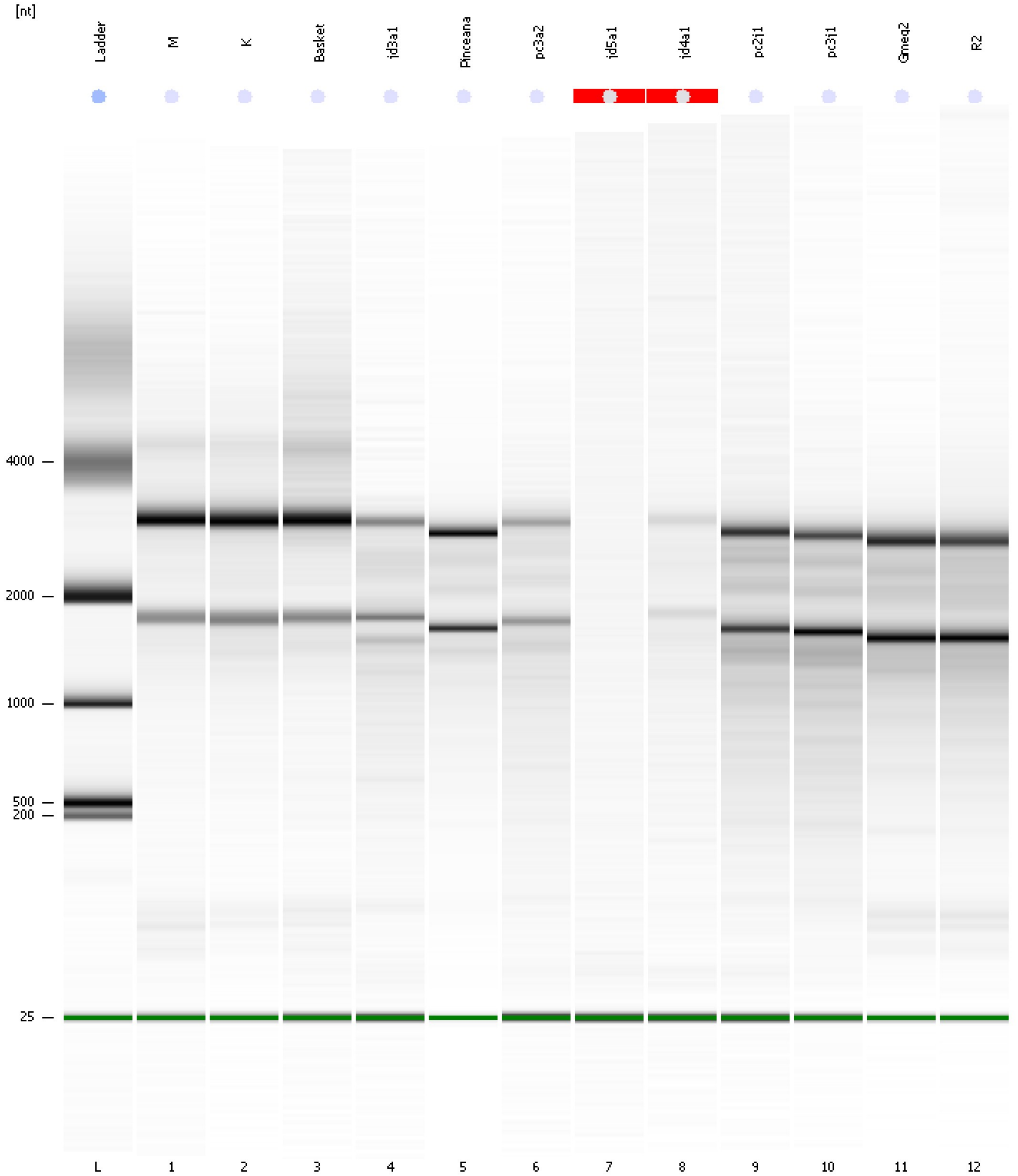
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,820	11.7	11.2
25S	2,618	3,363	10.6	10.2



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_004.xad

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**Gel Image**



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Created: 7/24/2014 1:48:39 PM  
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**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		7/24/2014 2:11:42 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\2014-07-24\2014-07-24_004.xad)		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/24/2014 1:48:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1