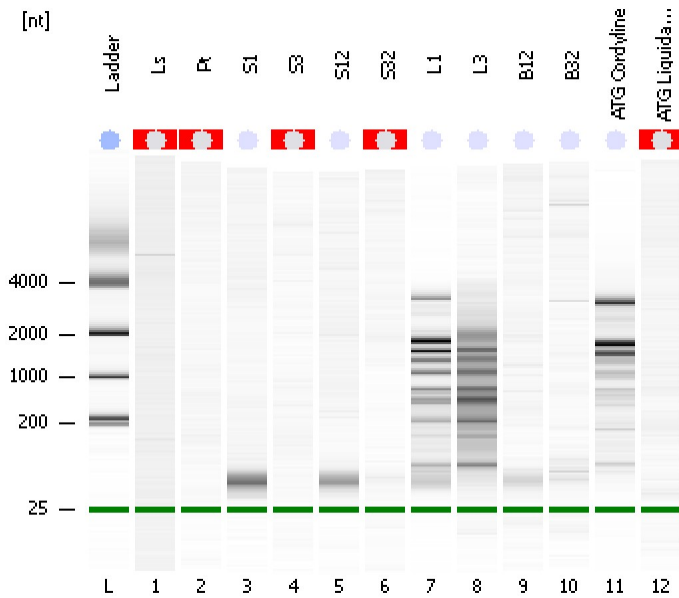


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

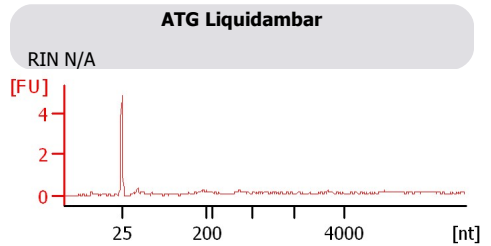
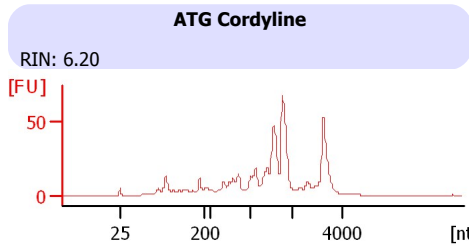
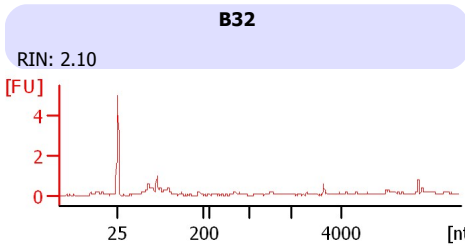
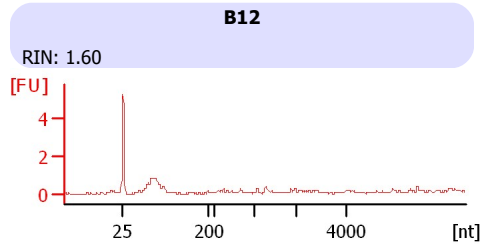
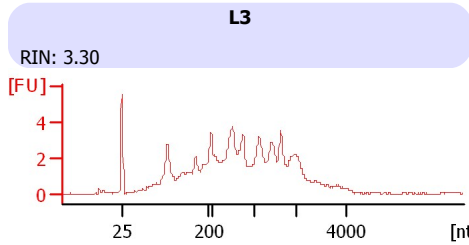
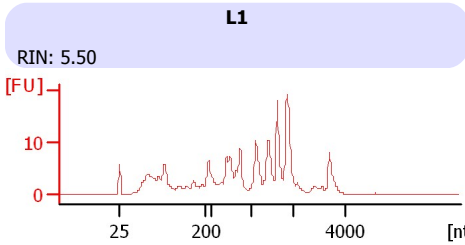
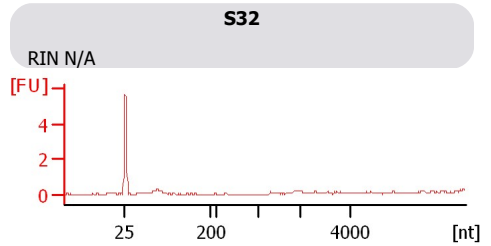
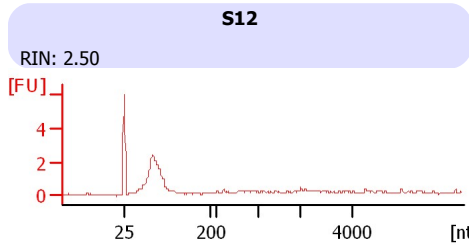
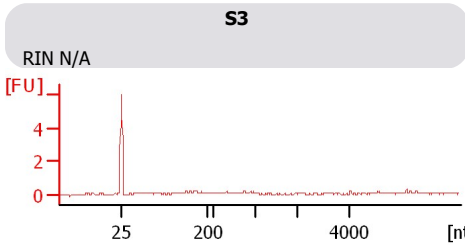
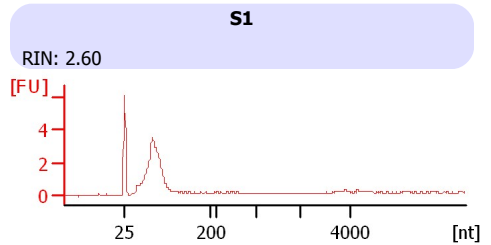
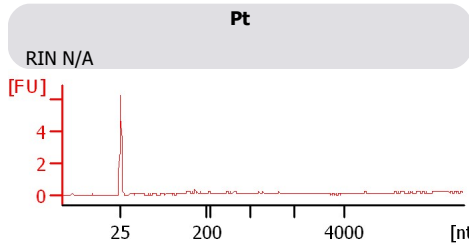
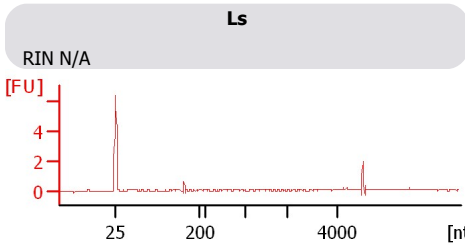
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
 Modified: 8/28/2014 5:03:31 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Ls		✓	RIN N/A	
Pt		✓	RIN N/A	
S1		✓	RIN: 2.60	
S3		✓	RIN N/A	
S12		✓	RIN: 2.50	
S32		✓	RIN N/A	
L1		✓	RIN: 5.50	
L3		✓	RIN: 3.30	
B12		✓	RIN: 1.60	
B32		✓	RIN: 2.10	
ATG Cordyline		✓	RIN: 6.20	
ATG Liquidambar		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

## 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 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

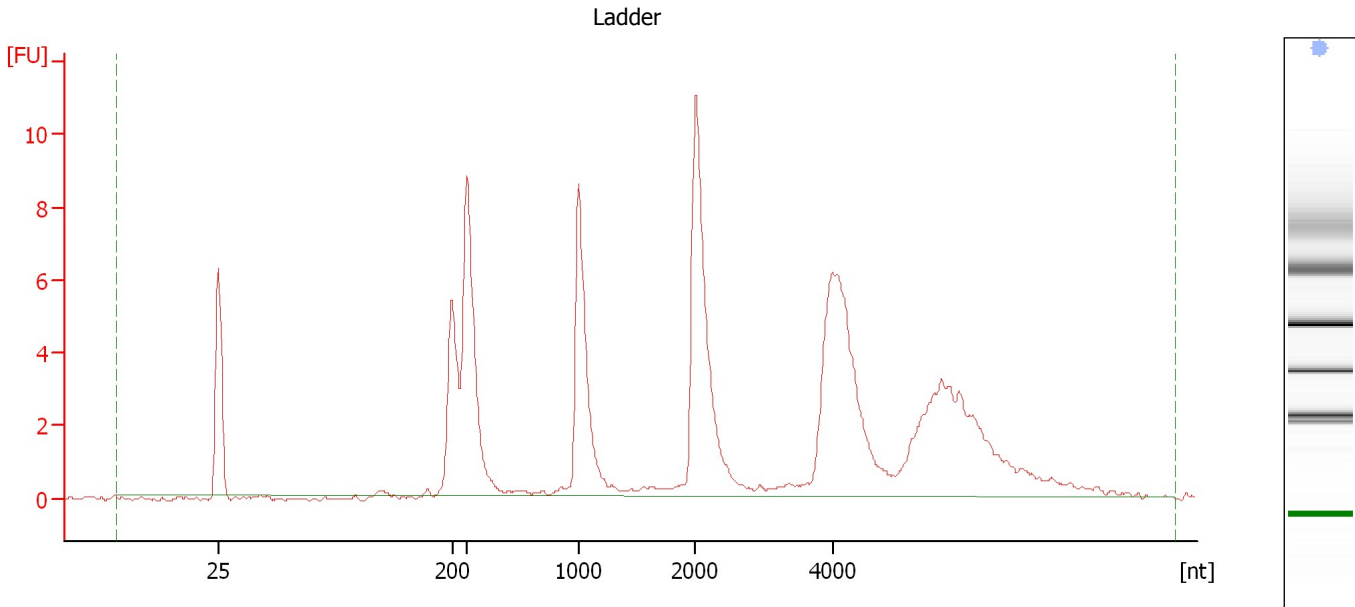
### Ladder

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\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary**



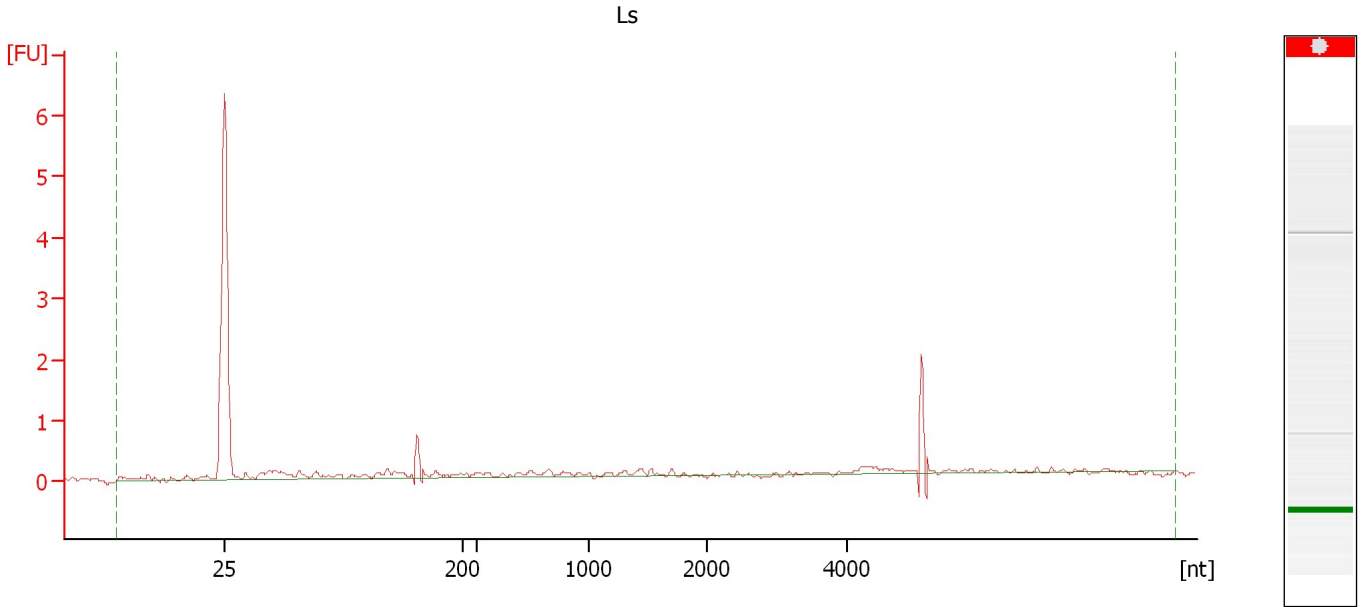
**Overall Results for Ladder**

RNA Area:	101.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



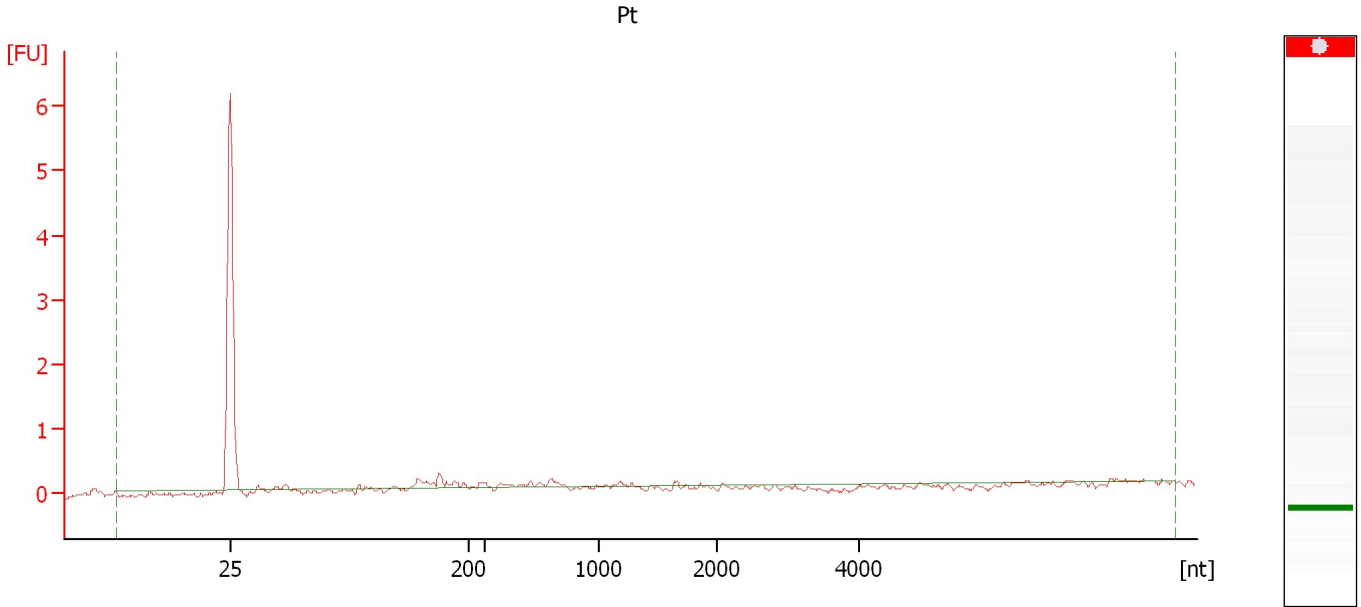
**Overall Results for sample 1 : Ls**

RNA Area:	6.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	10 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:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



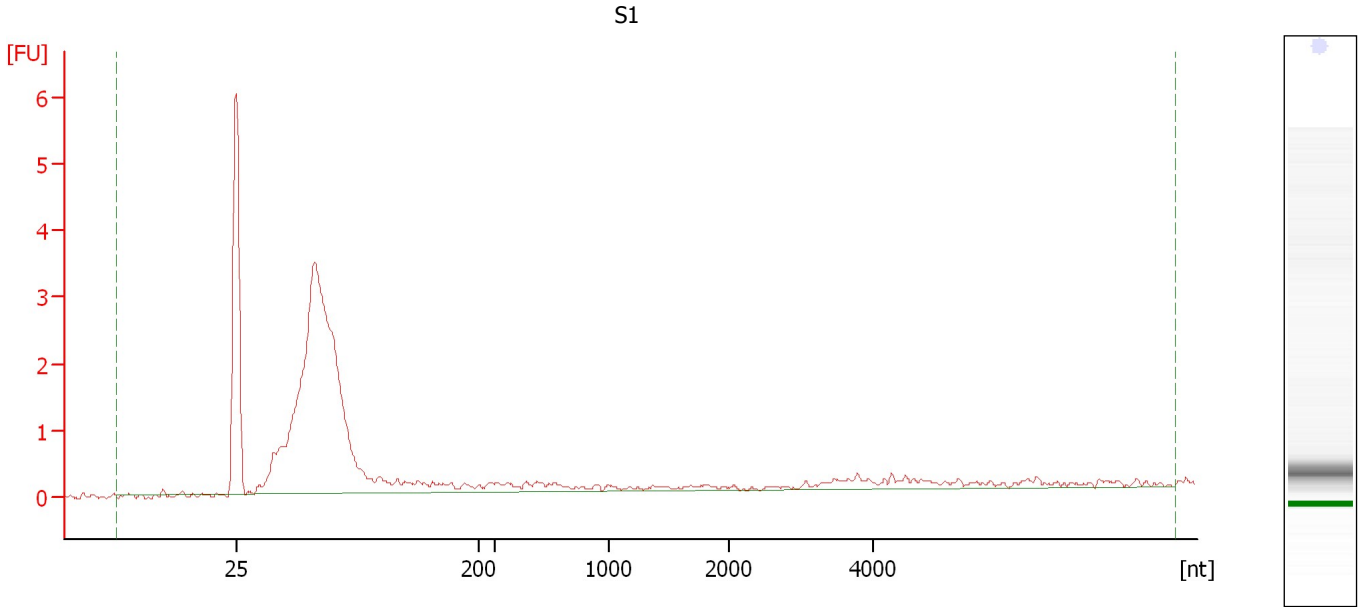
**Overall Results for sample 2 : Pt**

RNA Area:	1.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



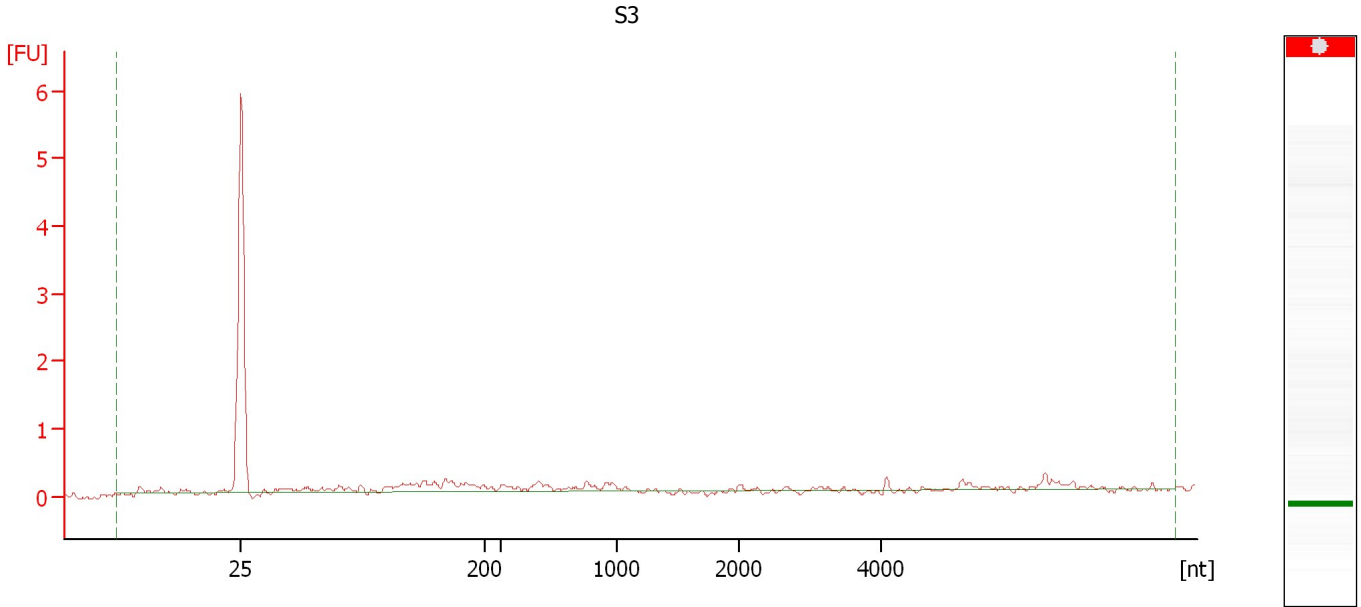
**Overall Results for sample 3 : S1**

RNA Area:	32.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	48 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: 2.60

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : S3**

RNA Area:	4.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 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

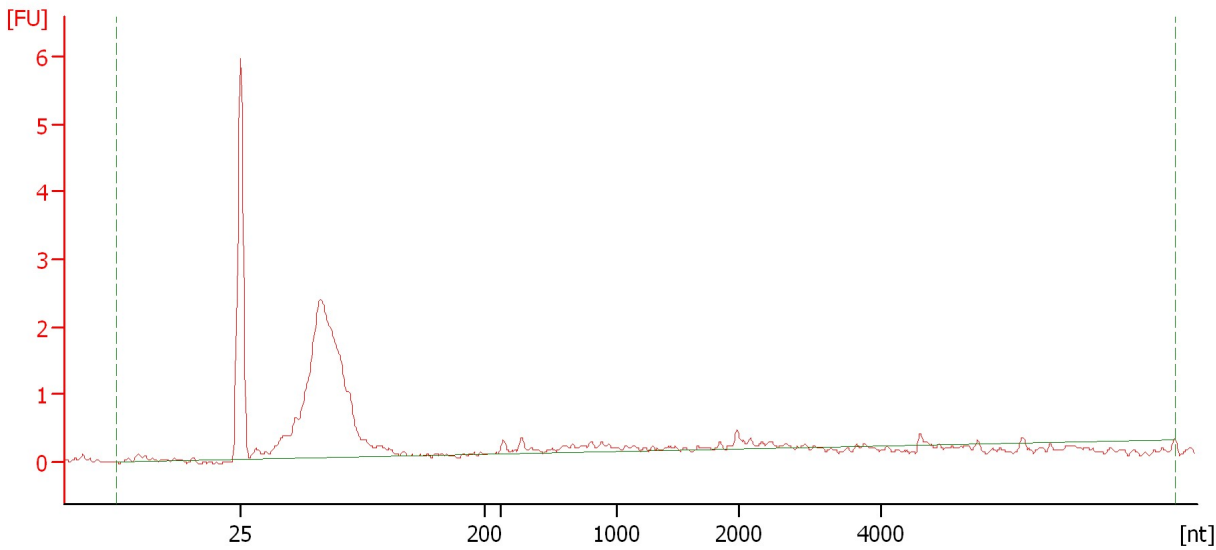


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**

S12



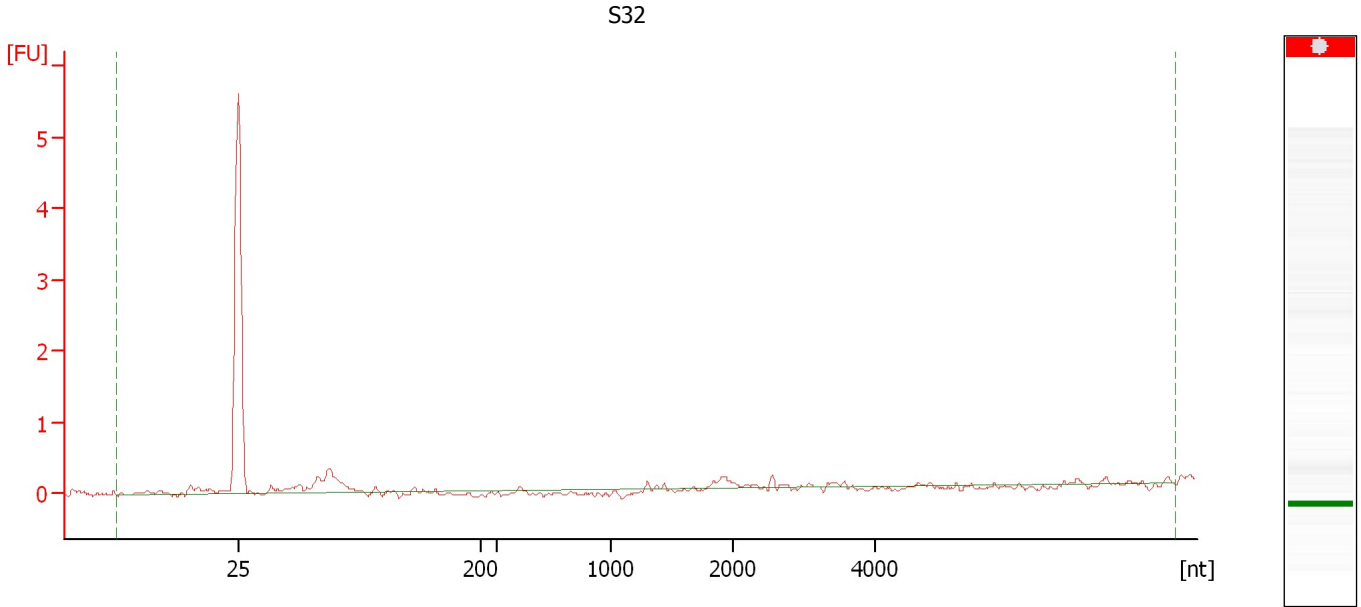
**Overall Results for sample 5 : S12**

RNA Area:	18.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	28 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: 2.50

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



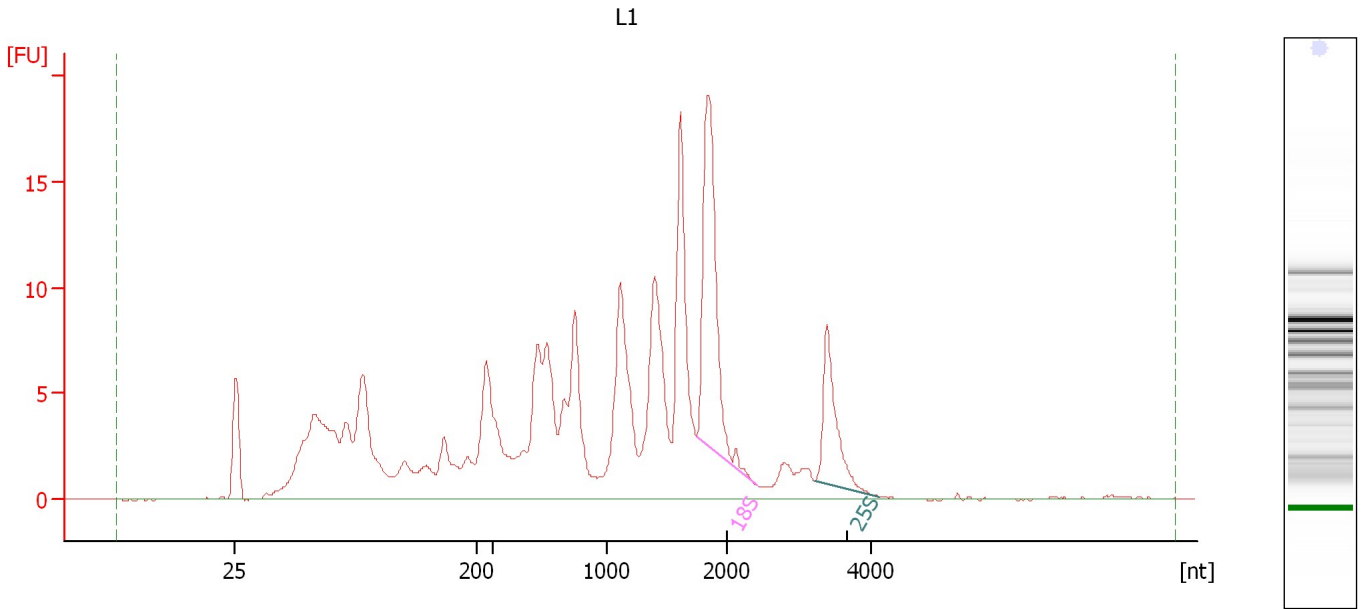
**Overall Results for sample 6 : S32**

RNA Area:	3.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 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:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : L1**

RNA Area: 236.6                      RNA Integrity Number (RIN): 5.5 (B.02.08)  
RNA Concentration: 351 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.4                      Result Flagging Label: RIN: 5.50

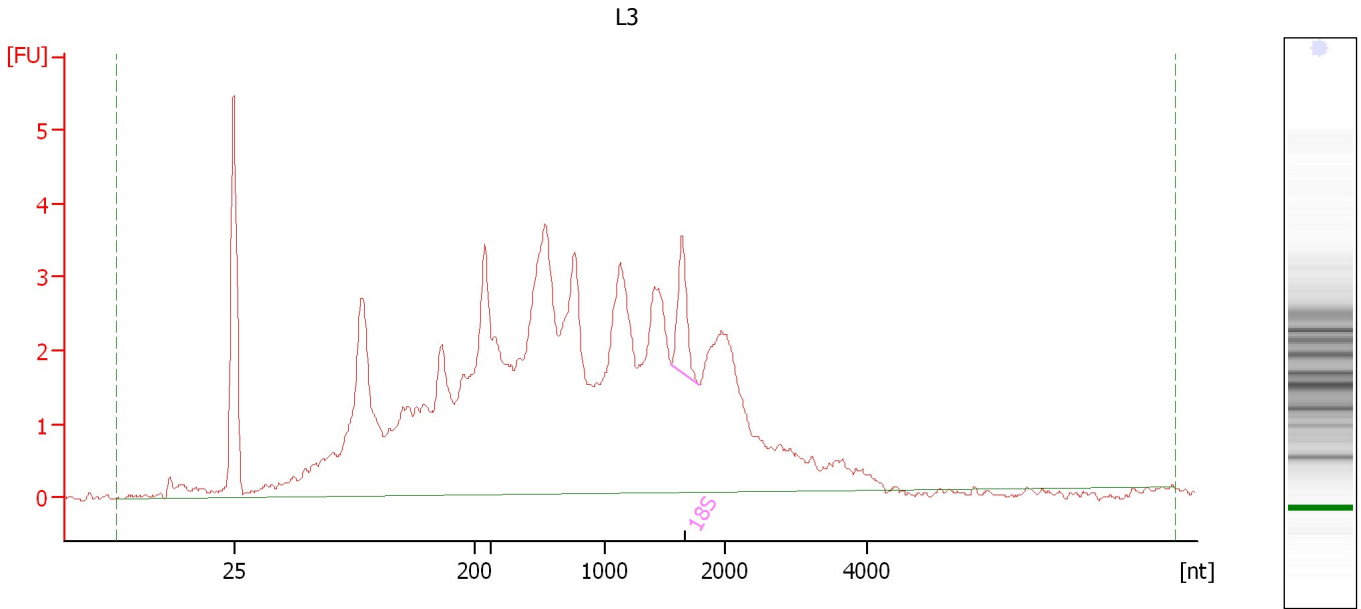
**Fragment table for sample 7 : L1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,394	24.6	10.4
25S	3,220	4,135	9.9	4.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : L3**

RNA Area:	103.6	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	154 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: 3.30

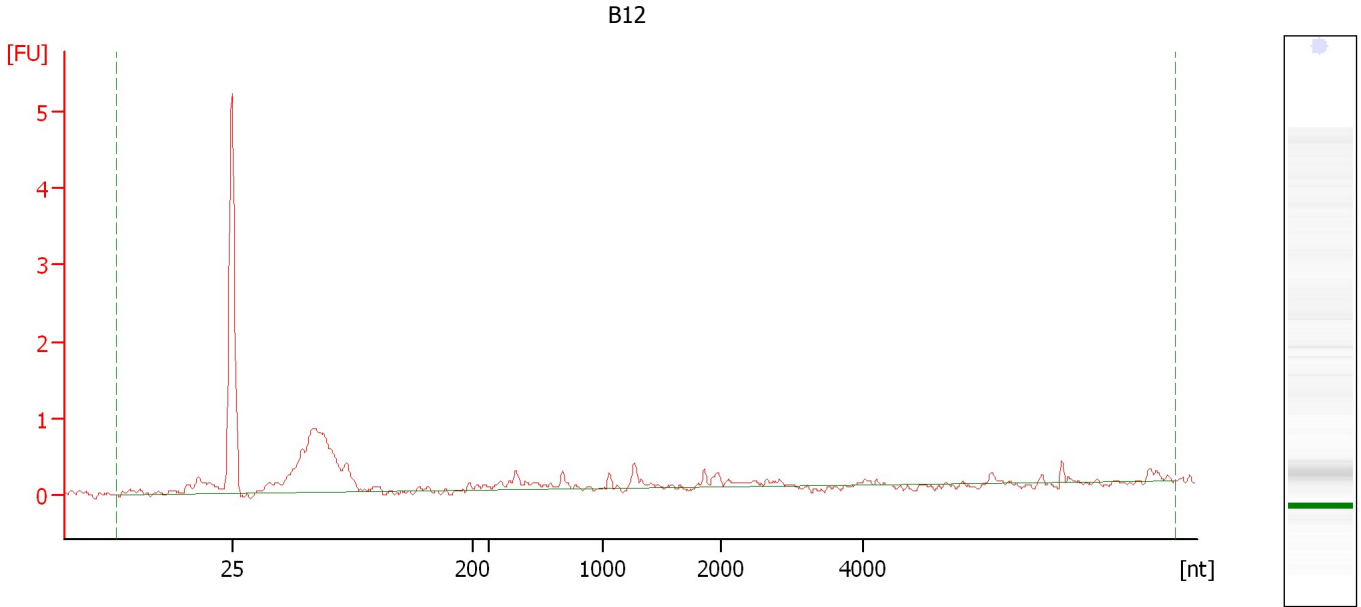
**Fragment table for sample 8 : L3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,770	2.0	1.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



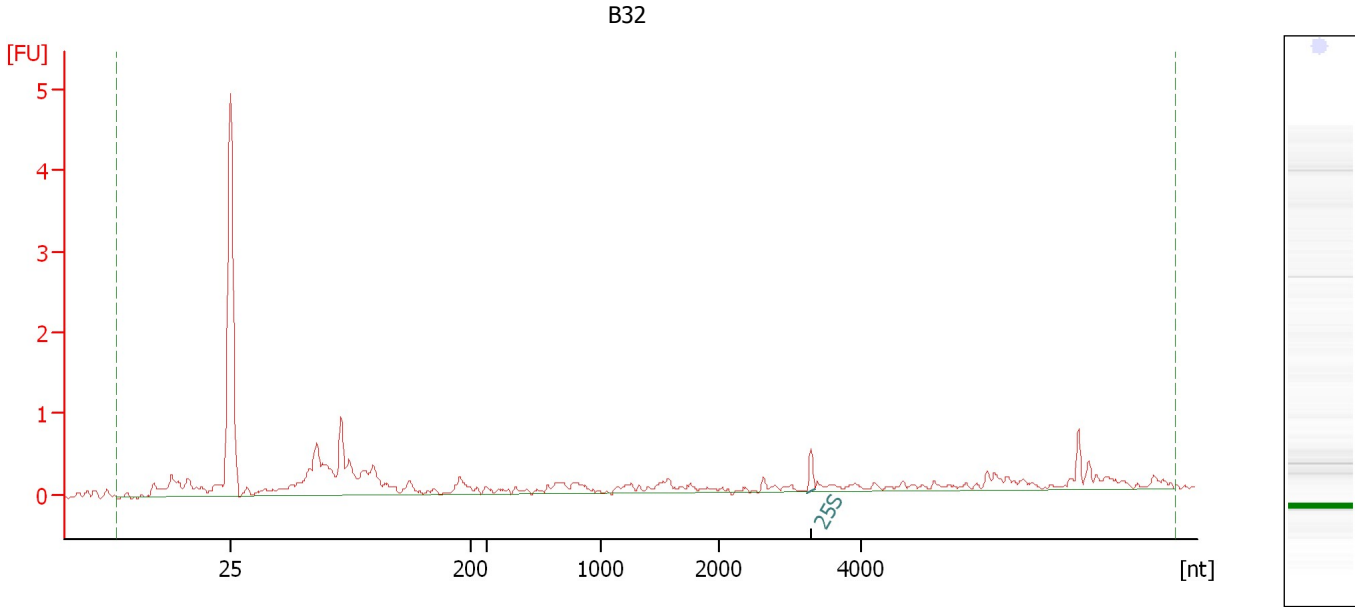
**Overall Results for sample 9 : B12**

RNA Area:	10.2	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	15 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: 1.60

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : B32**

RNA Area:	12.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	19 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

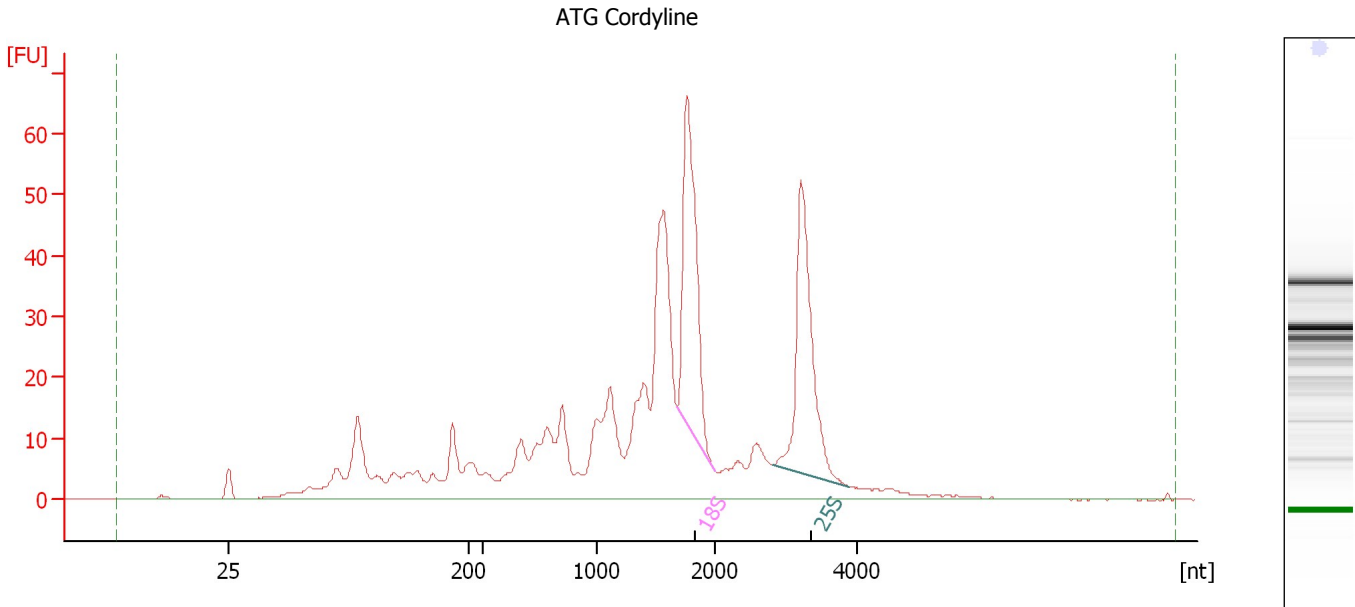
**Fragment table for sample 10 : B32**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,240	3,361	0.2	1.7

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
 Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : ATG Cordyline**

RNA Area:	649.1	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	963 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]:	0.9	Result Flagging Label:	RIN: 6.20

**Fragment table for sample 11 : ATG Cordyline**

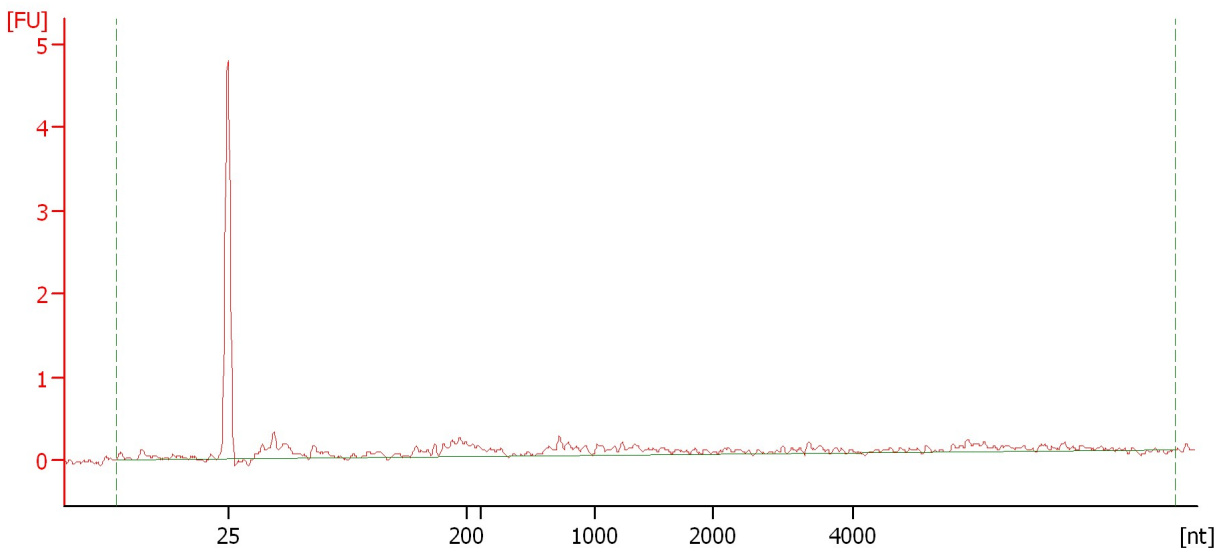
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	1,989	83.1	12.8
25S	2,817	3,895	76.7	11.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Electropherogram Summary Continued ...**

ATG Liquidambar



**Overall Results for sample 12 : ATG Liquidambar**

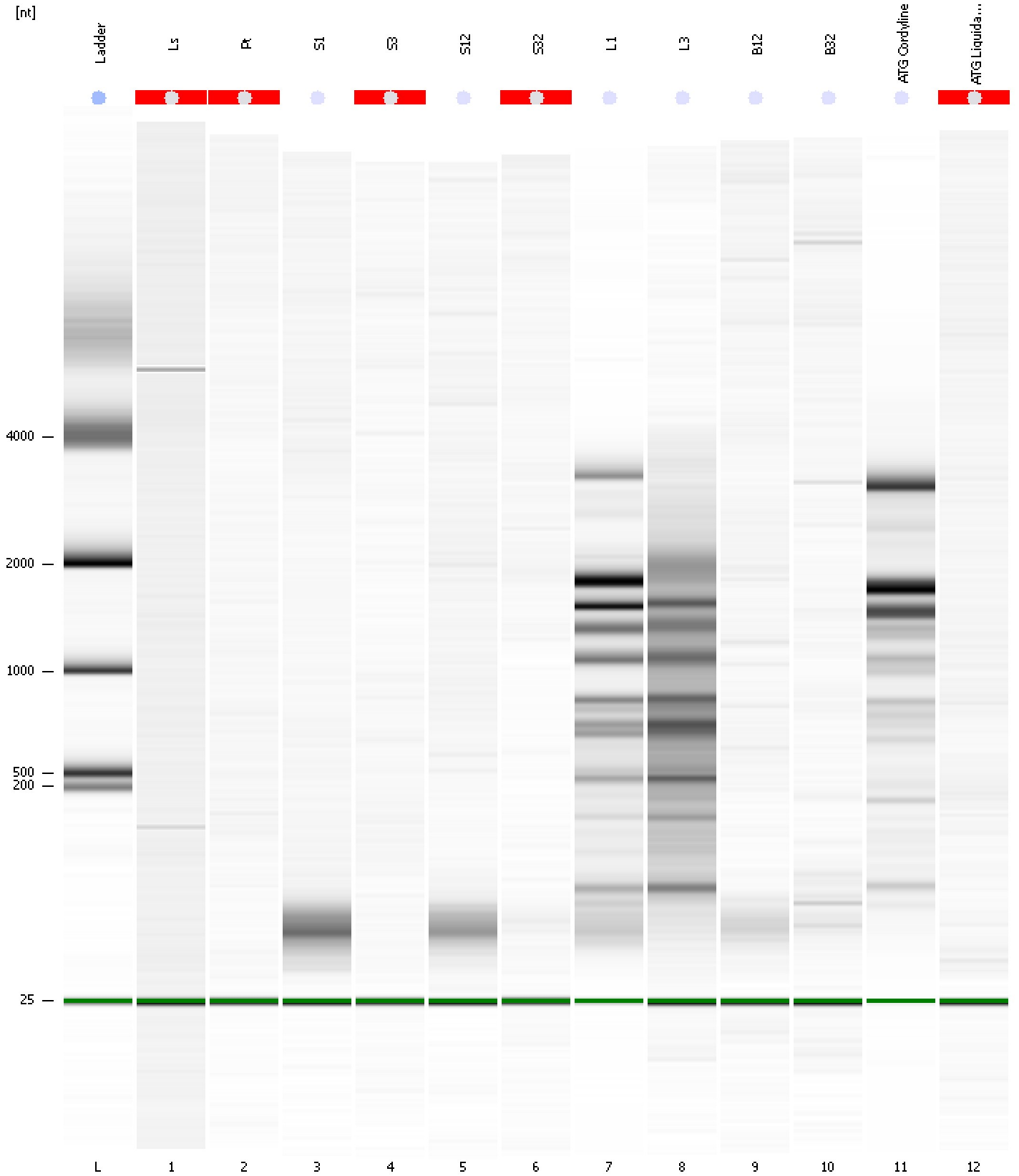
RNA Area:	6.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
Modified: 8/28/2014 5:03:31 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28\_003.xad

Created: 8/28/2014 4:39:42 PM  
 Modified: 8/28/2014 5:03:31 PM

**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		8/28/2014 5:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-08-28\2014-08-28_003.xad)		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/28/2014 4:39:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1