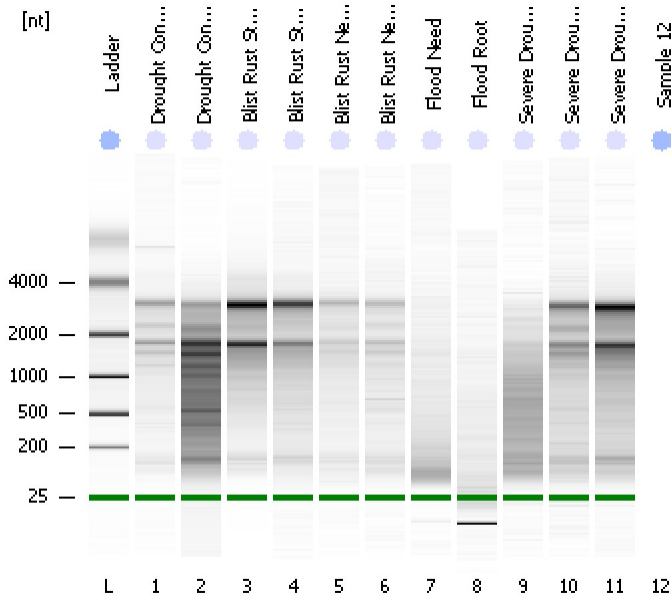


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 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)

© Copyright 2003 - 2009 Agilent Technologies, Inc.

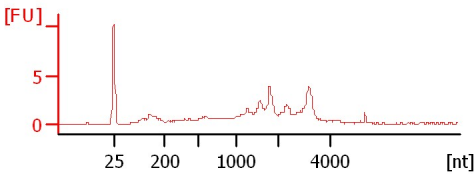
#### Chip Information:

Chip Lot #:

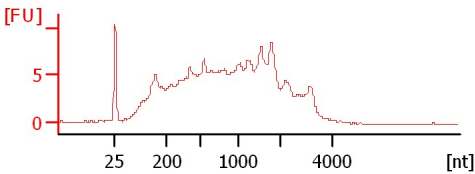
Reagent Kit Lot #:

Chip Comments:

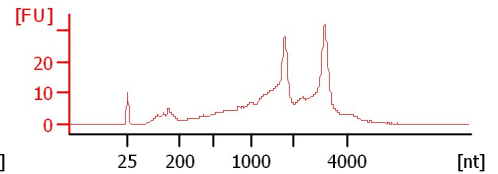
**Drought Cont Need Bef**  
RIN: 6.60



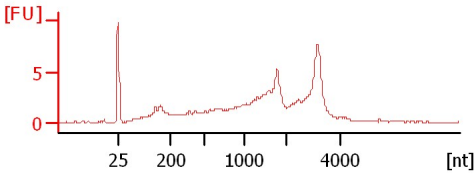
**Drought Cont Need Aft**  
RIN: 3.20



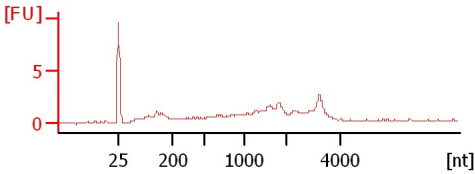
**Blist Rust Stem Susc**  
RIN: 7.70



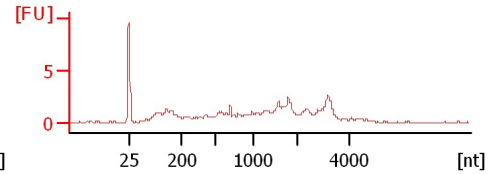
**Blist Rust Stem Res**  
RIN: 6.50



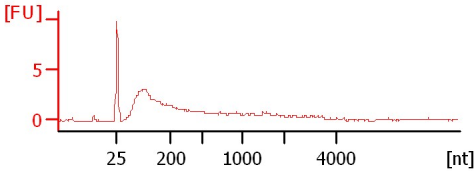
**Blist Rust Need Susc**  
RIN: 4.30



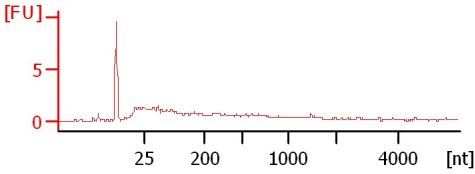
**Blist Rust Need Res**  
RIN: 4.30



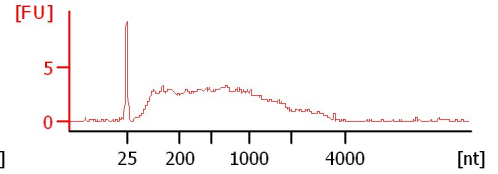
**Flood Need**  
RIN: 2.30



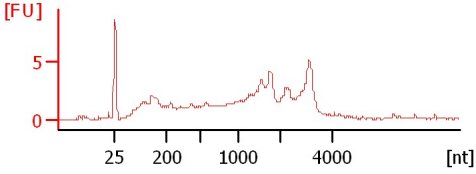
**Flood Root**  
RIN: 2.60



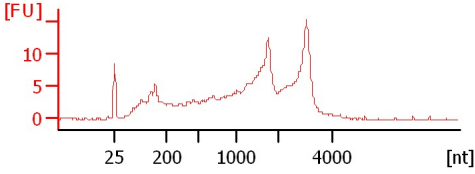
**Severe Drought Root**  
RIN: 2.30



**Severe Drought Needle**  
RIN: 5.20



**Severe Drought Stem**  
RIN: 7.70



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
 Modified: 5/12/2014 12:01:23 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Drought Cont Need Bef		✓	RIN: 6.60	
Drought Cont Need Aft		✓	RIN: 3.20	
Blist Rust Stem Susc		✓	RIN: 7.70	
Blist Rust Stem Res		✓	RIN: 6.50	
Blist Rust Need Susc		✓	RIN: 4.30	
Blist Rust Need Res		✓	RIN: 4.30	
Flood Need		✓	RIN: 2.30	
Flood Root		✓	RIN: 2.60	
Severe Drought Root		✓	RIN: 2.30	
Severe Drought Needle		✓	RIN: 5.20	
Severe Drought Stem		✓	RIN: 7.70	
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 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/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**

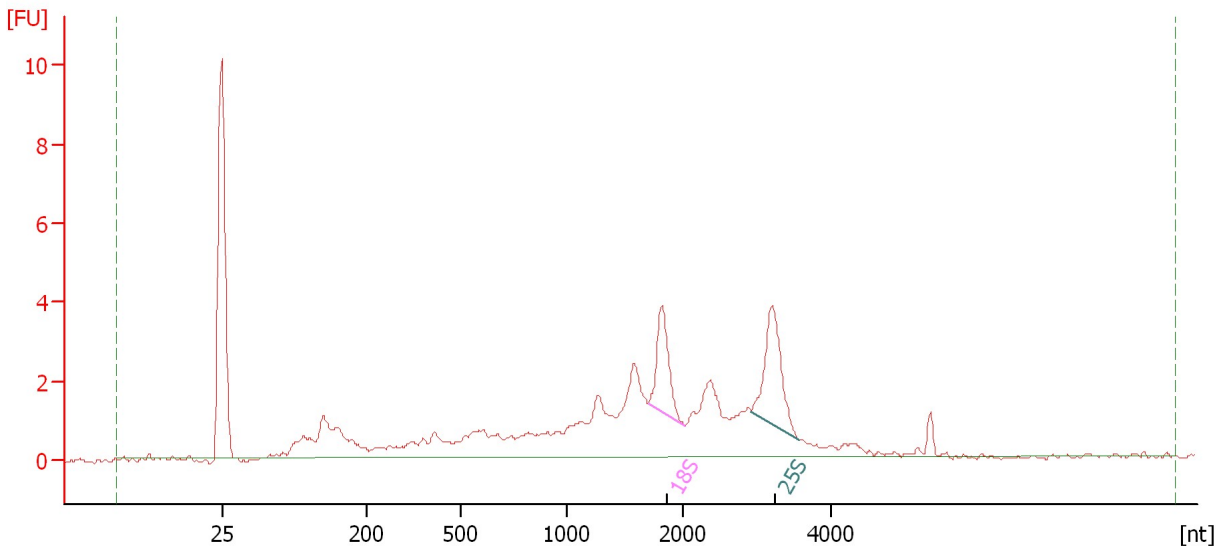
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary**

Drought Cont Need Bef



**Overall Results for sample 1 : Drought Cont Need Bef**

RNA Area: 57.1 RNA Integrity Number (RIN): 6.6 (B.02.08)  
RNA Concentration: 53 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 6.60

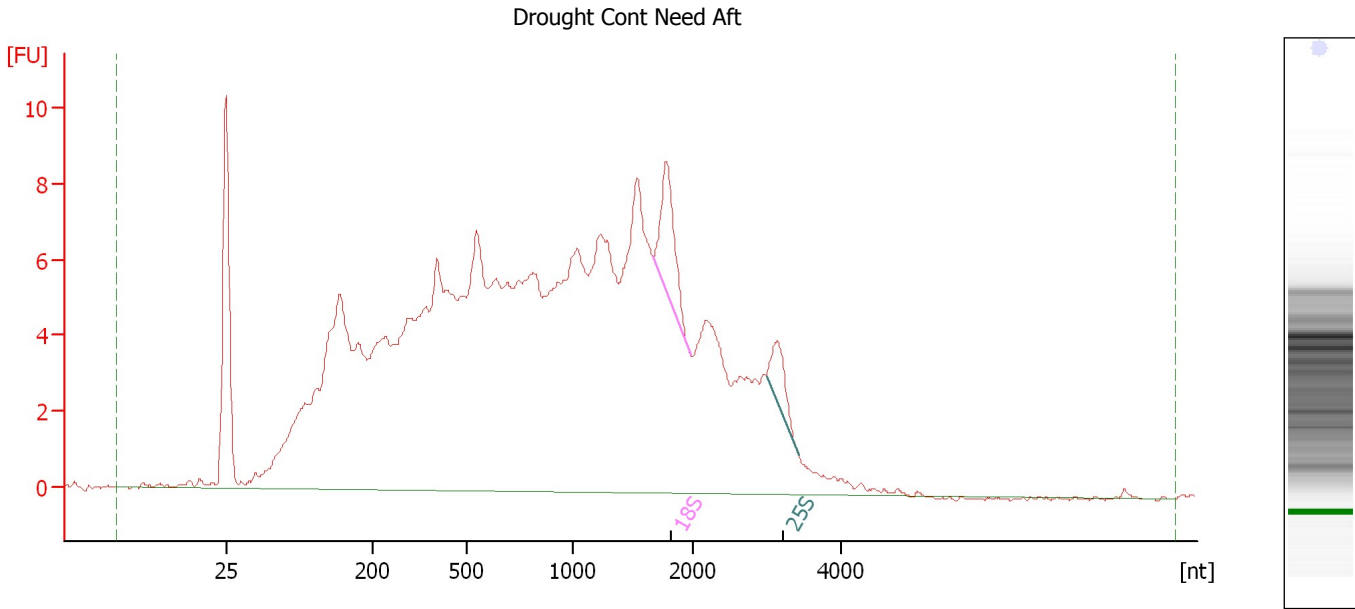
**Fragment table for sample 1 : Drought Cont Need Bef**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,006	3.7	6.5
25S	2,918	3,555	5.2	9.1

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
 Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Drought Cont Need Aft**

RNA Area:	302.3	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	281 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

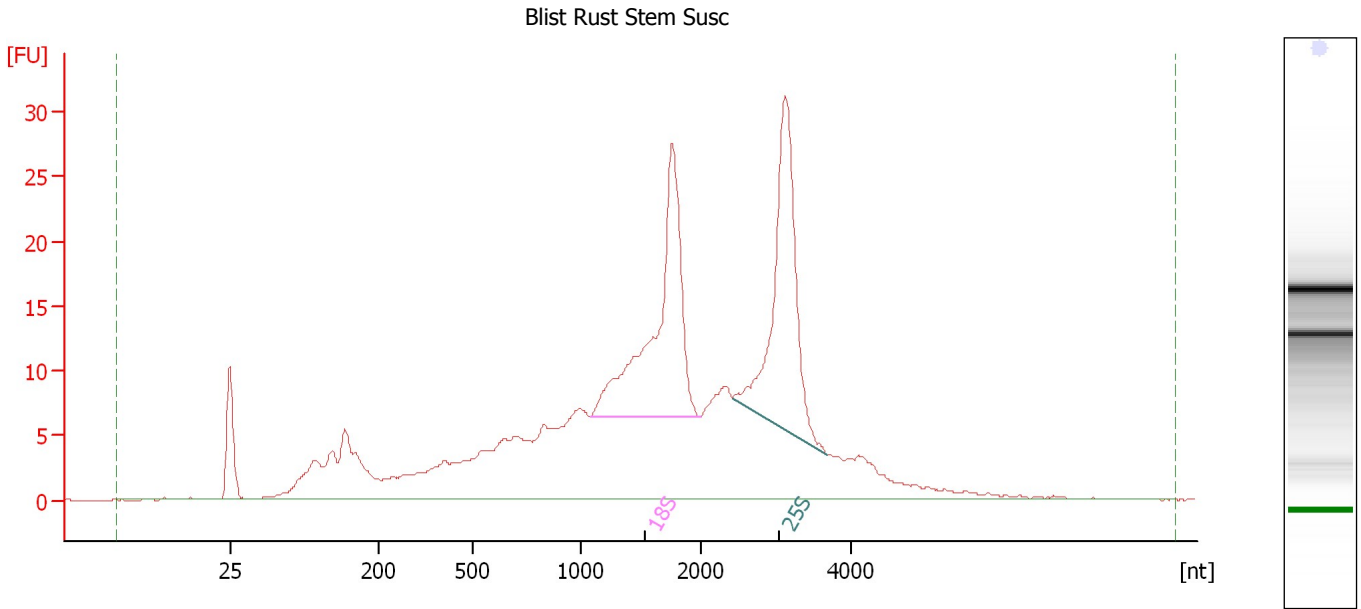
**Fragment table for sample 2 : Drought Cont Need Aft**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	1,990	5.6	1.9
25S	3,003	3,434	2.4	0.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Blist Rust Stem Susc**

RNA Area: 430.2 RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 399 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 7.70

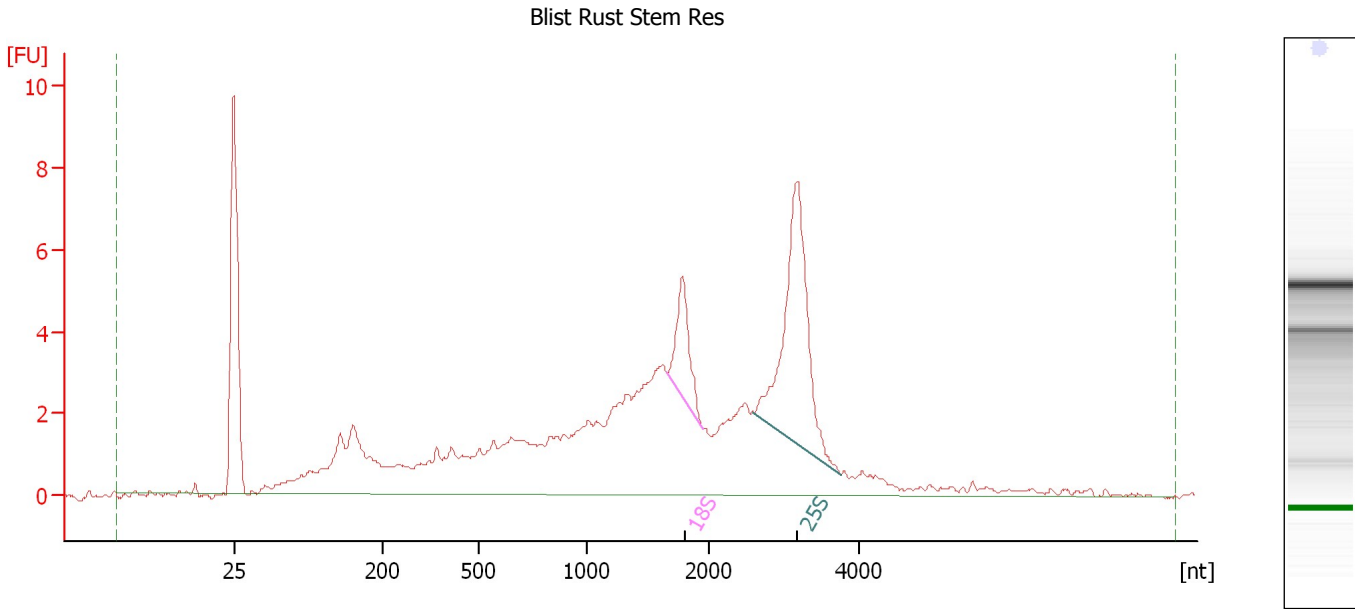
**Fragment table for sample 3 : Blist Rust Stem Susc**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,081	2,005	65.7	15.3
25S	2,432	3,700	58.7	13.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Blist Rust Stem Res**

RNA Area:	113.4	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	105 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]:	3.6	Result Flagging Label:	RIN: 6.50

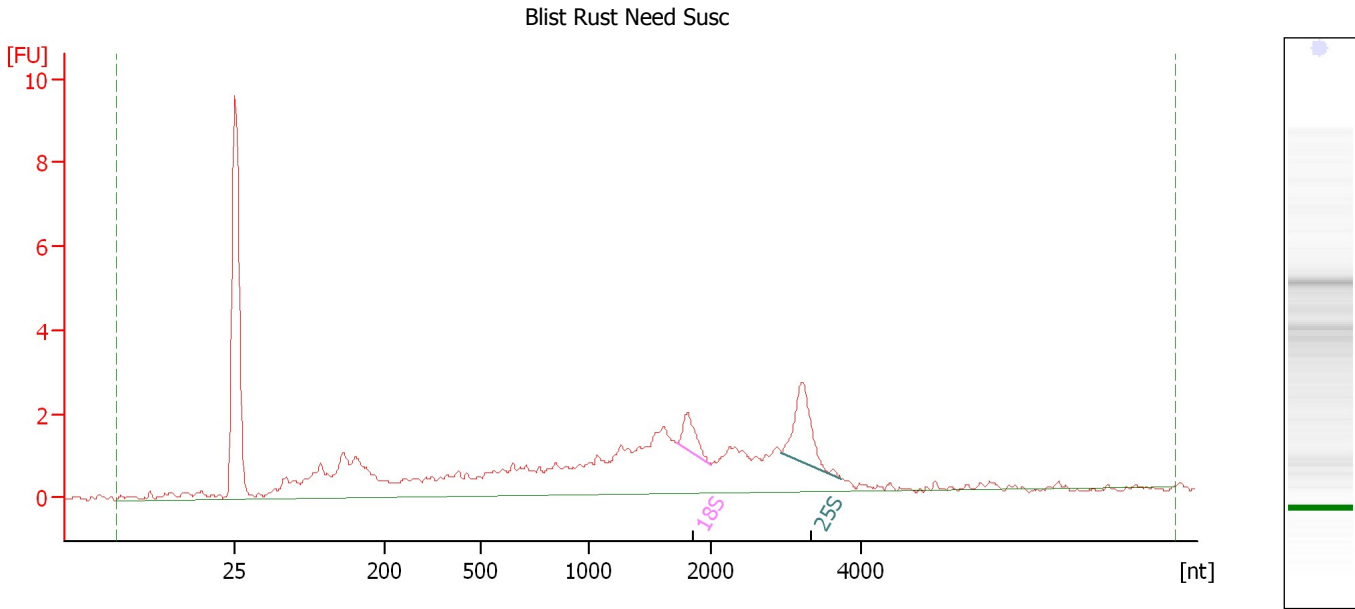
**Fragment table for sample 4 : Blist Rust Stem Res**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	1,953	4.3	3.8
25S	2,605	3,749	15.4	13.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Blist Rust Need Susc**

RNA Area: 56.1 RNA Integrity Number (RIN): 4.3 (B.02.08)  
RNA Concentration: 52 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.5 Result Flagging Label: RIN: 4.30

**Fragment table for sample 5 : Blist Rust Need Susc**

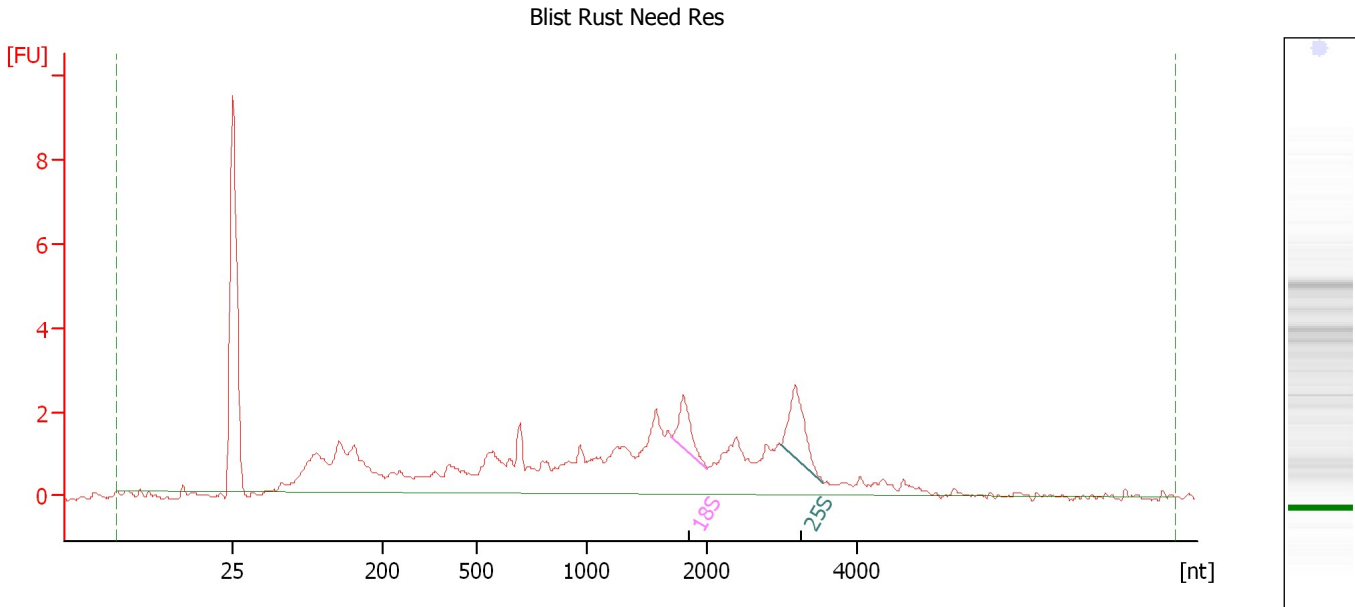
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,013	1.3	2.3
25S	2,943	3,719	3.3	5.8



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
 Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Blist Rust Need Res**

RNA Area:	58.7	RNA Integrity Number (RIN):	4.3 (B.02.08)
RNA Concentration:	54 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]:	1.7	Result Flagging Label:	RIN: 4.30

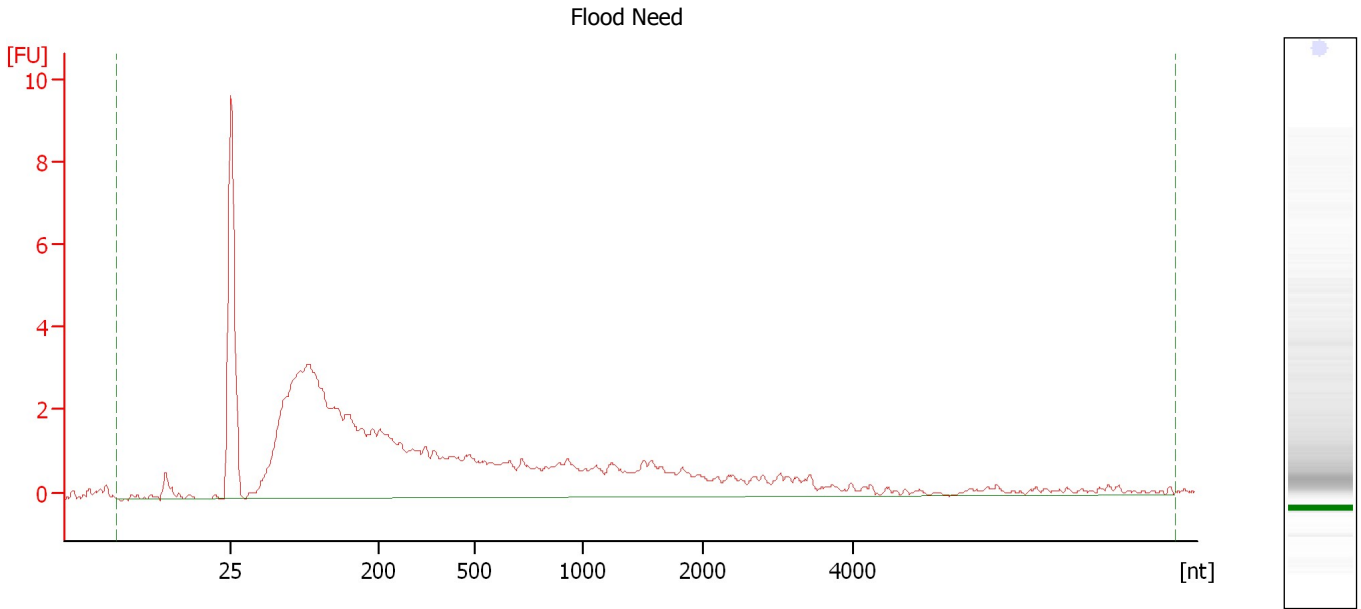
**Fragment table for sample 6 : Blist Rust Need Res**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	2,024	1.7	2.8
25S	3,001	3,553	2.8	4.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



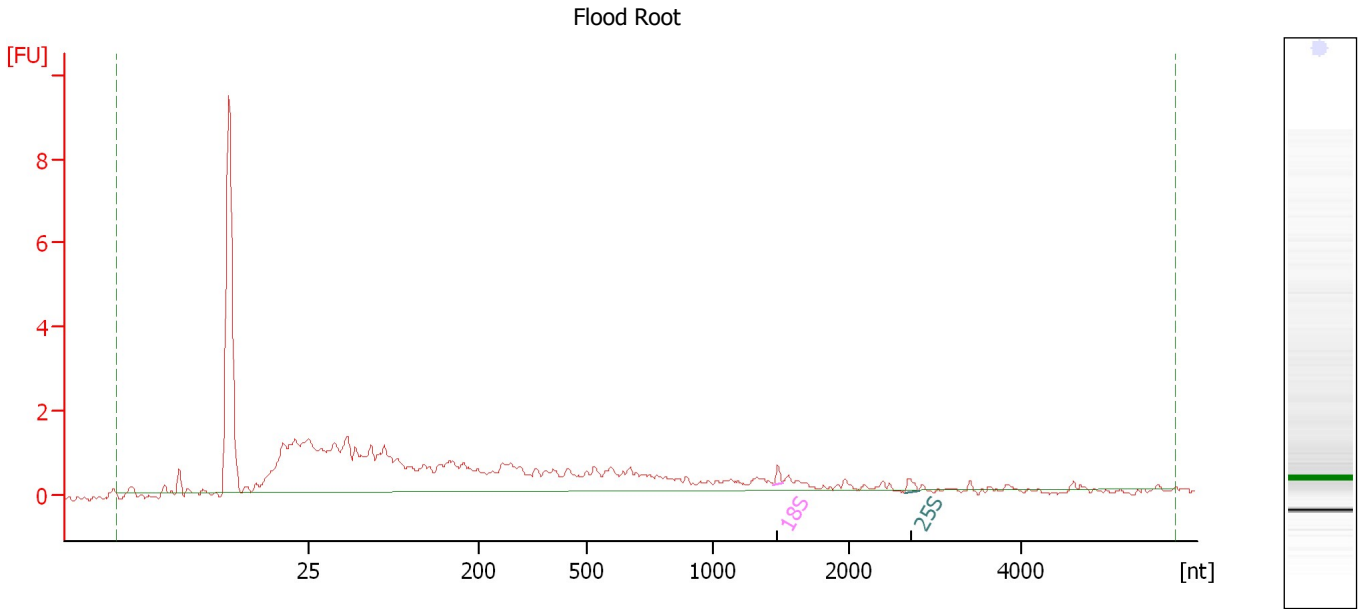
**Overall Results for sample 7 : Flood Need**

RNA Area:	81.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	75 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: 2.30

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Flood Root**

RNA Area: 49.4                      RNA Integrity Number (RIN): 2.6 (B.02.08)  
RNA Concentration: 46 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2                      Result Flagging Label: RIN: 2.60

**Fragment table for sample 8 : Flood Root**

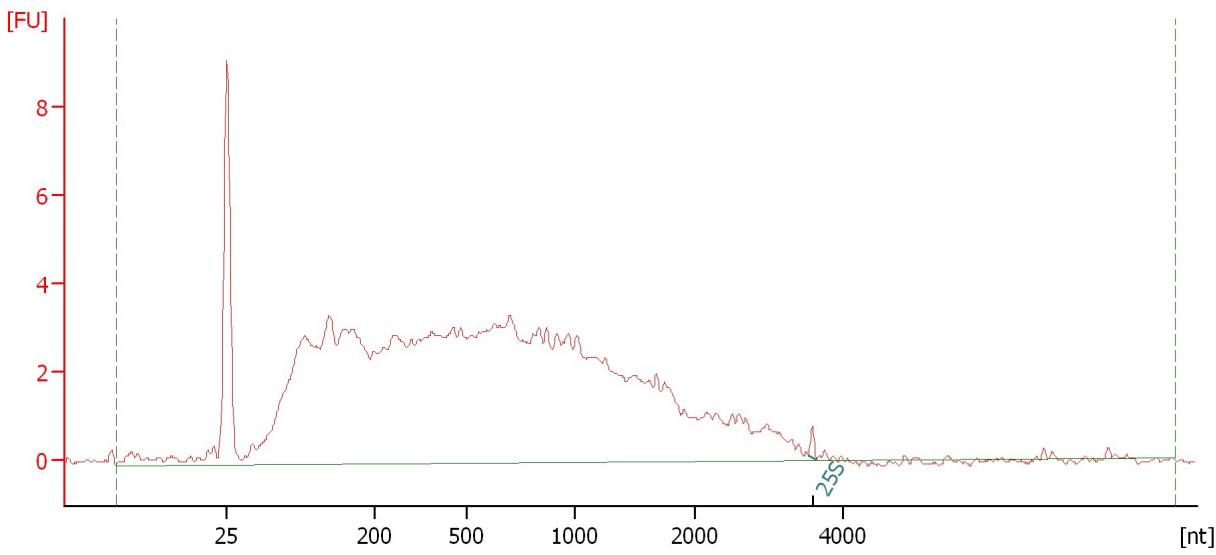
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,445	1,515	0.2	0.4
25S	2,641	2,802	0.2	0.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**

Severe Drought Root



**Overall Results for sample 9 : Severe Drought Root**

RNA Area:	154.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	144 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: 2.30

**Fragment table for sample 9 : Severe Drought Root**

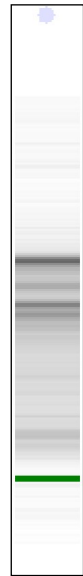
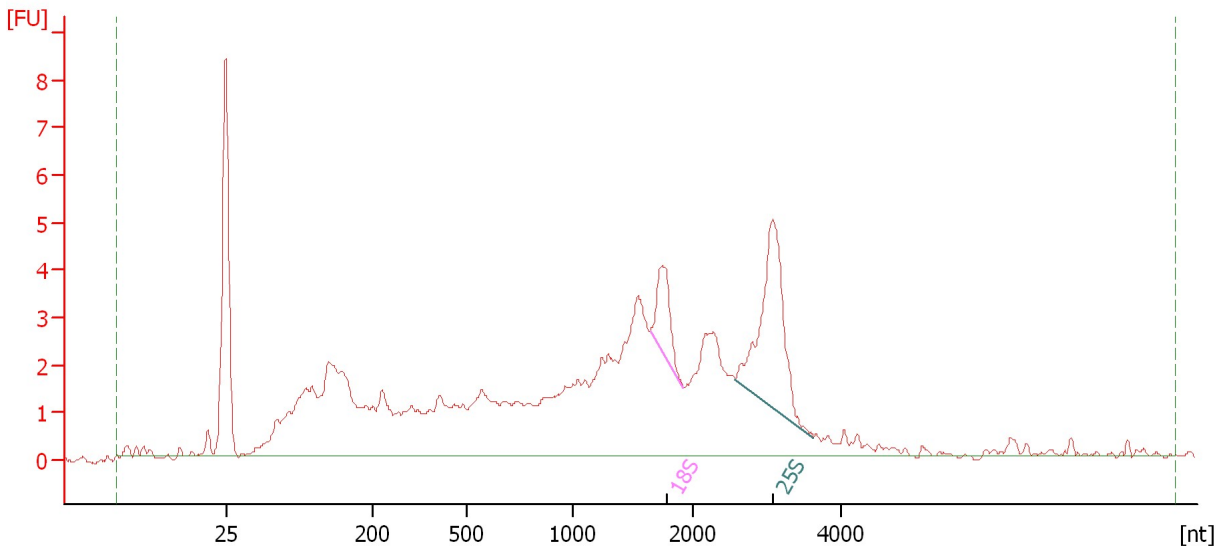
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,533	3,648	0.3	0.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**

Severe Drought Needle



**Overall Results for sample 10 : Severe Drought Needle**

RNA Area: 108.1                      RNA Integrity Number (RIN): 5.2 (B.02.08)  
RNA Concentration: 100 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 3.2                      Result Flagging Label: RIN: 5.20

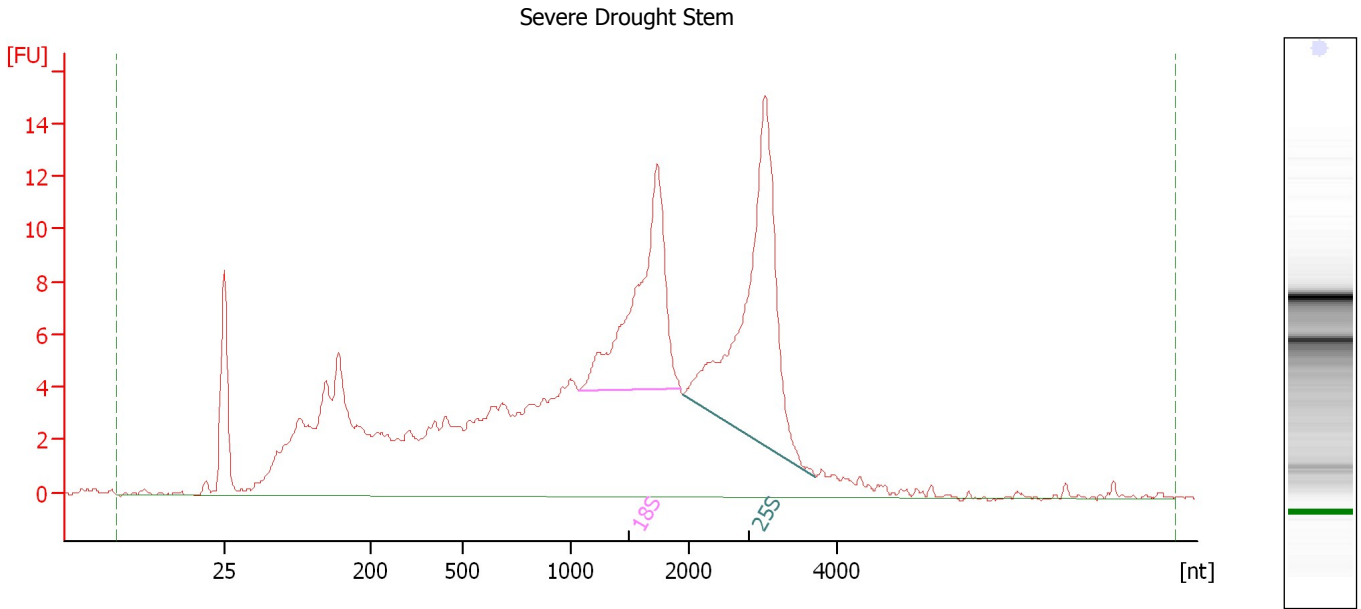
**Fragment table for sample 10 : Severe Drought Needle**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,926	2.9	2.7
25S	2,587	3,635	9.4	8.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Severe Drought Stem**

RNA Area: 282.5 RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 262 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN: 7.70

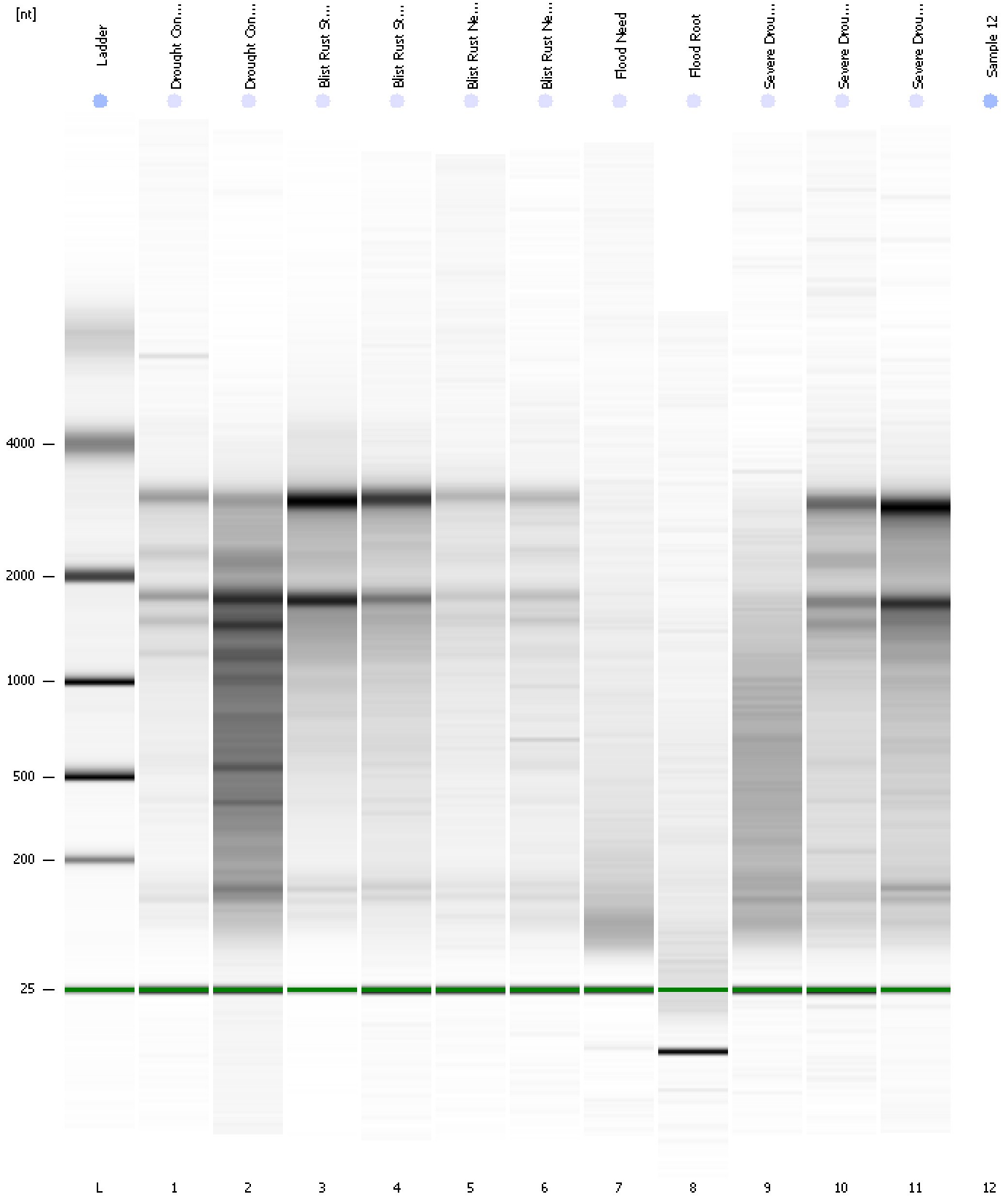
**Fragment table for sample 11 : Severe Drought Stem**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,081	1,933	30.1	10.6
25S	1,951	3,725	43.7	15.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Gel Image**



---

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12\_003.xad

Created: 5/12/2014 11:38:55 AM  
Modified: 5/12/2014 12:01:23 PM

**Invalid Samples**

Sample 12 has not been run, no results available.